

Program Priority: SO1.1 - Improve the framework conditions for innovation in the Alpine Space

Work Package: WPT3 Fostering CE processes in Alpine Space with digitalisation processes

Output: O.T3.1 Local actions addressed to SMEs to foster CE with digitalisation processes

Auvergne-Rhône-Alpes Entreprises

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Purpose of the document

The purpose of this document is to describe the achievement of the output O.T3.1, described as follows in the AF:

“Grouped according to 3 CE approaches and in line with 3 feasibility studies, 15 pilots in 13 areas addressed to SMEs to push CE processes, increase attitude to invest and move toward sustainable growth, waste reduction and optimal use of resources.”

The following table shows the distribution of the 13 areas (according to the NUTS 2 region code of the respective partners) and the 15 partners in charge of performing one pilot each.

Areas	Pilots
1. SIO2 Zahodna Slovenija	1. LP TPLJ 2. PP10 JSI
2. DE21 Oberbayern	3. PP2 TUAS Rosenheim
3. DE11 Stuttgart	4. PP3 bwcon
4. DE27 Schwaben	5. PP14 UCB
5. AT13, Wien	6. PP4 aws
6. AT32, Salzburg	7. PP5 ITG
7. AT31, Oberösterreich	8. PP6 Biz-Up
8. ITH3, Veneto	9. PP7 VI 10. PP13 CCIAA Venezia Rovigo
9. FR42, Alsace	11. PP8 Grand E-nov
10. FR71, Rhône-Alpes	12. PP9 AURAE
11. FR82 Provence-Alpes-Côte d'Azur	13. PP15 RISINGSUD
12. ITC1, Piemonte	14. PP11 TOWL
13. ITC4, Lombardia	15. PP12 Confindustria Bergamo

The present document encompasses the following elements:

- Overall methodology applied by all partners in the consortium to achieve the implementation of their own local pilot action.
- Description of the local pilot action for the partner Auvergne-Rhône-Alpes Entreprises
- Lessons learned by Auvergne-Rhône-Alpes Entreprises
- Durability and follow-up

Methodology to achieve the output

The methodology used to achieve the output mirrors the activities planned in the AF:

Step 1:	Planning digitalised CE processes in Alpine Space area addressed to SMEs Development of feasibility plans to foster digitalised CE processes in SMEs from the Alpine Space, according the 3 approaches: CE design, CE optimal use and CE value recovery. Each feasibility plan includes plans for local actions defined by the relevant partners, according to the following distribution across the partnership:		
	CE design	CE optimal use	CE value recovery

		LP TPLJ & PP10 JSI PP4 aws PP5 ITG PP9 AURAE PP12 Confindustria Bergamo PP15 RISINGSUD	LP TPLJ & PP10 JSI PP3 bwcon PP7 VI PP8 Grand E-nov PP11 TOWL	PP2 TUAS Rosenheim PP6 Biz-Up PP13 CCIAA Venezia Rovigo PP14 UCB	
	BWCON as a WP T3 leader prepared in a close collaboration with TPLJ a template for the feasibility plans, based on the methodology for the development of feasibility plans provided by TPLJ and confirmed by all PPs in May 2021.				
Step 2:	Experimenting transnational actions to foster CE approaches through digitalisation Implementation of the local actions by the respective partners as defined in the feasibility plans: maturity assessment check, identification of innovation needs, 1:1 assistance provided to SMEs. UCB provided to all partners a template for the drafting of implementation reports.				

PLANNING DIGITALISED CE PROCESSES IN ALPINE SPACE AREA ADDRESSED TO SMES - FEASIBILITY PLANS

The task A.T3.1 Planning digitalised CE processes in Alpine Space area addressed to SMEs was implemented under WP T3 - Fostering CE processes in Alpine Space with digitalisation processes. The main objective of WP T3 was to develop transnational and local actions to monitor the effectiveness of SMEs digitalisation to push them toward CE processes. The role of digitalisation as an 'enabler' for the CE is tested with the support of the CIRCULAR4.0 toolkit developed under T2. The testing method (T3.1) is based on a "cycle" moving from the transnational working groups and their specific approaches, through an Alpine "vision" of the actions to be implemented and developed with the feasibility studies and then their experimenting with local action to come back to the Alpine vision and produce the following CIRCULAR4.0 Action Plan (T4.1). The overall idea is that Circular Economy and digitalisation can benefit SMEs and Alpine well-being economy only if included in a transnational approach that will highlight connections, relationships, knowledge and opportunities for SMEs, Intermediaries, Policymakers, and the society as a whole.

The feasibility plans developed according to the 3 main approaches to CE define concrete paths to be undertaken to achieve the results, the resources and the organization required. Partners selected one priority CE approach looking at their economic and social environment and worked with the target groups "declining" the alpine roadmaps into local needs and expectations. Local Pilot actions consist of actions directly addressed to SMEs to check their maturity for CE processes, the innovation to be introduced in the processes, products and business models, the investment plan required and the way to implement it.

1. AS feasibility plan to foster CE design model with digitalisation processes (D.T3.1.1)

This feasibility plan focuses on how to foster CE design model with digitalisation processes. Each P from the group of CE design model developed its feasibility plan for setting-up local service providers addressed to SMEs to establish services to increase attractiveness by investors and propose new financial schemes by Public Actors, roadmaps to achieve these results. In the case of Slovenia two project partners collaborated – JSI & TPLJ.

The plan defines organization, actions, resources, and equipment needed to set-up Alpine regional centres able to promote digitalised CE activities addressed to SMEs on the design model and eco-innovation in general.

Local detailed plans by PPs for their pilots:

- LP TPLJ & PP10 JSI
- PP4 aws
- PP5 ITG
- PP9 AURAE
- PP12 Confindustria Bergamo
- PP15 RISINGSUD

are available in deliverable D.T3.1.1 in the annexes.

2. AS feasibility plan to foster CE optimal use approach with digitalisation processes (D.T3.1.2)

This feasibility plan focuses on how to foster CE optimal use approach with digitalisation processes. Each PP from the group optimal use model developed its feasibility plan for setting-up local service providers addressed to SMEs to establish services to increase attractiveness by investors and propose new financial schemes by Public Actors, roadmaps to achieve these results. In the case of Slovenia two project partners collaborated – JSI & TPLJ.

The plan defines organization, actions, resources, and equipment needed to set-up Alpine regional centres able to promote digitalised CE activities addressed to SMEs on the design model and eco-innovation in general.

Local detailed plans by PPs for their pilots:

- LP TPLJ & PP10 JSI
- PP3 bwcon
- PP7 VI
- PP8 Grand E-nov
- PP11 TOWL

are available in deliverable D.T3.1.2 in the annexes.

3. AS feasibility plan to foster CE value recovery approach with digitalisation processes (D.T3.1.3)

This feasibility plan focuses on how to foster CE value recovery approach with digitalisation processes. Each PP from the group value recovery model developed its feasibility plan for setting-up local service providers addressed to SMEs to establish services to increase attractiveness by investors and propose new financial schemes by Public Actors, roadmaps to achieve these results. In the case of Veneto Region two project partners from Veneto collaborated – PP7 VI and PP13 CCIAA Venezia Rovigo.

The plan defines organization, actions, resources, and equipment to set-up Alpine regional centres to promote digitalised CE activities addressed to SMEs to develop value recovery processes, services, and products.

Local detailed plans by PPs for their pilots:

- PP2 TUAS Rosenheim
- PP6 Biz-Up
- PP7 VI & PP13 CCIAA Venezia Rovigo
- PP14 UCB

are available in deliverable D.T3.1.3 in the annexes.

EXPERIMENTING TRANSNATIONAL ACTIONS TO FOSTER CE APPROACHES THROUGH DIGITALISATION - IMPLEMENTATION REPORTS FOR THE LOCAL ACTIONS

IN coherence with the feasibility plans, 15 local actions were implemented by the project partners, according to a shared methodology. The following picture shows the common parts of all local actions as well as the flexibility available to the partners for the operational aspects of the implementations:

Common parts of all local actions	Flexibility
Information events Calls for SMEs (transparent selection)	Kick-off for selected companies or pre-call events Selection procedure / main criteria = transparency
Circular assessment Digital maturity assessment Access to self-learning materials	Different tools can be used, as long as they are part of the toolkit. Assessments can be performed online as self-assessment or in interviews.
Identification of innovation needs 1:1 assistance	Assistance provided either directly by the partners or in combination with external experts (most common case)
Development of recommendations focus 3 to 6 months (on the basis of the above)	Format of recommendations: business model canvas, transformation roadmap...

Description of the local pilot action implemented by PP9 Auvergne-Rhône-Alpes Entreprises

According to the overall methodology defined for the pilot actions, the following activities were planned and implemented by Auvergne-Rhône-Alpes Entreprises:

1. Identification and selection of SMEs
2. Awareness raising workshop for the selected SMEs
3. Digital Maturity Assessment of SMEs
4. Individual support by a consultant for the identification of innovation needs, elaboration of action plan.
5. Identification of innovation needs and investment plan
6. Follow up on action plan and individual support on medium term

SELECTION/IDENTIFICATION OF SMES

This first activity was aimed at identifying a sufficient number of manufacturing SMEs to take part in the pilot.

1	Selection/identification of SMEs	Start date	04.2021
		End date	10.2021

We have identified 10 000 SME's that have significant size or activity that we follow and support. Among them, 300 have been identified as "High potential" because of the progression of their turnover, their activity, and projects.

For the pilot action, we finally decided not to focus on a particular sector nor to a particular CE approach but to open it to all the interested companies.

The first criteria is the motivation of the CEO. We have noticed that companies that engage in the circular economy often do so out of the manager's conviction and it is the best way to get results.

- We decided to open widely the circular industry path.
- We first sent an e-mail (cf Annex) to all our 300 high potential SME's. We thought they could be interested in exploring CE, and that the size and potential of the companies could be relevant. The project managers of the agency also relayed this offer to the companies they were referent for.
- The companies had to fill in a formular to explain their motivation and stakes for CE.
- One month later, 10 high potential companies had filled the formular.
- We than decided to open the program to all the SMEs that are supported by our agency. The e-mail was sent to 10 000 companies and relayed also by the agency project managers.
- In 2 days, 15 companies answered and we closed the inscriptions.

The selected businesses come from the following sectors in activity:

- Metallurgy: 7
- Plastics: 4
- Agri-Food: 1
- Packaging: 1
- Marketing: 1
- Electronics: 4
- Textile: 5
- Outdoor: 1

The SMEs selected were all small and medium sized companies, with a number of employees from 5 to approximately 250.

Result

Planned: Reach at least 16 interested SMEs to participate in the pilot action.

Achieved: 24 SME were identified and accepted to participate in the pilot action.

Title	CIRCULAR INDUSTRY PATH - COLLECTIVE TRAINING Awareness raising workshop for the selected SMEs	Start date	24/08/21
		End date	19/10/21
Description			
The first step of the circular industry path was the collective training, decomposed in 2 steps:			
1. Webinar : introduction to CE			

- 2 sessions programmed : 24/08 & 12/10/2021
- Introduction to CE for each company entering the program
- Moderation by our Agency
- Program:
 - What is the circular economy and issues for businesses ?
 - Integrating the circular economy in the company
 - Digital technology for the circular economy
 - The circular industry program
 - Mission Circular Industry" diagnostic

2. One-day training workshop

- By consultant OPEO to understand how to integrate CE in the business model of the company:
- 3 sessions programmed: 31/08; 1/09 and 19/10/2021
- Objectives:
 - Understand the opportunities offered by the circular economy
 - Identify concrete levers to change your model (industrial, offer, product)
 - Become aware of the obstacles and conditions for a successful transformation
- Program:
 - Principles and benefits of circularity
 - Secure your supplies
 - Pivoting business model
 - Product design for circularity
 - 4.0 at the service of circularity
 - Getting into motion



Training 31/08/2021



Training 19/10/2021



Training 1/09/2021



Webinar – Introduction to CE

Results

Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).

1	Webinars: <ul style="list-style-type: none"> • Session 1: 15 participants • Session 2: 5 participants One-day training workshop <ul style="list-style-type: none"> • Session 1 – Savoie - 10 participants • Session 2 – Lyon – 8 participants • Session 3 – Lyon – 9 participants 	Date	24.08.2021 12.10.2021 31.08.2021 1.09.2021 19.10.2021
2	<ul style="list-style-type: none"> • The satisfaction of the participants has been measured at the end of the training with the a final round of discussions and in the evaluation questionnaire (cf Achievement part). 	Date	

Deviations – corrective measures (as occurring)

- No deviation

Title	CIRCULAR INDUSTRY PATH - CE & digital Assessment	Start date	24/08/21
		End date	19/10/21
Description			

We decided to mix CE and digital maturity in a single assessment we called **Mission « Circular Industry »** we developed internally, inspired by the assessment proposed by IJS and other French tools. Our objective was to propose a simple and pragmatic tool adapted for SMEs. This tool is available on our website: <https://auvergnerhonealpes-entreprises.fr/testez-votre-maturite-sur-leconomie-circulaire>

Through around forty questions, the company can assess its level of maturity in each of the circular economy's areas of action and consider whether digital tools can facilitate its deployment.

We developed the assessment on the Eval&Go platform, that can allow us to get easily a synthesis of the results.

⇒ Each SME has filled in the assessment before the training

Results			
Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).			
1	<ul style="list-style-type: none"> The answers to the questions and results were used by the consultant to prepare the individual support 	Date	
	<ul style="list-style-type: none"> The digital assessment is still available on our website 		

Title	CIRCULAR INDUSTRY PATH - INDIVIDUAL SUPPORT	Start date	6/10/21
		End date	25/02/2022
Description			
<div>1. One day of individual support for each company by a consultant: to define the action plan for the company – From October 2021 to end of February 2022. This day was preceded by a framing interview to define the objectives and program of the support.</div> <div>2. Personalized support by a project manager from AURA Entreprises: to deploy the action plan The project managers also attended the one-day individual support and can contribute with their knowledge of the economic local actors, public programs or other interesting connections.</div>			
Results			
Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).			
1	<ul style="list-style-type: none">After the one-day support, each consultant wrote and shared with the company the document "Roadmap and action plan for CE"	Date	

Lessons learned and recommendations for the follow-up

(Please, explain in the following which were your lessons learned and recommendations. The text below italic is an extract from our discussions on the evaluation of the pilots – it is not to be taken fully by all partners., it shows examples of lessons learned and recommendations)

Summary of the achievements - lessons learnt

Achievements

The contributions of the program and the actions carried out by the SME's:

Structuring of the circular economy approach:

- Formalization of actions already carried out on the circular economy by the company & definition of additional actions
- Structuring and systematization of the eco-design approach: realization of a life cycle analysis to confirm the expected environmental gains, tests & numerical simulations to validate the new product characteristics.

Improvement actions to optimize processes / reduce waste:

- Search for production waste recovery solutions and local partners
- Exploration of innovative ways of recovering production waste
- Reporting to quantify waste generation and energy consumption

Projects already imagined by the company, worked during the day:

- Launch of a local supply chain
- Launch of a new ethical and virtuous marketing offer
- Valorization of ski lift tires in floor mats
- Recycling of insulated containers and reintegration into the process
- Creation of an offer around the economy of functionality (textile pro)

New leads identified during the day after creative work:

- Exploration of new economic models around the functional economy: create new kitchen utensil renovation offers, test the functional economy model on certain products in the range (equipment for the plastics industry, drones, textiles)
- Substitution of a plastic material by another (outdoor company), testing of new suppliers
- Creation of a new range in natural materials and a low-cost brand (textile company)
- Creation of a local loop: recovery of local outdoor plastic waste in new products

Closing workshop of the program

On April 1st, we organized a workshop with the SME's to share their experience: actions implemented and in progress, difficulties encountered, sharing best practices. We ended the workshop by a creativity session to work on 2 problematics.

During this workshop, we also presented an extract of the digital solutions for CE we identified.



The difficulties encountered by implementing CE:

- Question of volumes: our volumes of waste are insufficient to interest a sector => need to massify volumes.
- Th matching "Resources (wastes)" => Outlets can be difficult to find (question of volume, of temporality, etc.).
- In certain sectors, no customer expectations on the subject (when customers are intermediate subcontractors)
- How to detect new plastics? How do I recycle my plastic films? How to identify new ways to recycle? Which networks should I join?
- Many planets to align to implement a circular economy project

"What I discovered through the program" - some quotes from the SME's

- "I feel less alone and I have realized that others are also asking these questions"
- "We managed to interest everyone in the company"
- "When you get restless and rack your brains, you manage to find partners, it's just a matter of willpower"
- "We were already doing circular economy without having put a word on it"
- "The program has allowed us to structure what we are already doing so we can sell it"
- "It allowed us to meet another company in the program who now collects our waste for reuse"
- "We have structured our circular economy approach"

Results of the satisfaction questionnaire

At the end of the program, we addressed a satisfaction questionnaire to the 24 SME's. Below is the synthesis of the 17 answers received.

	--	-	+	++
How do you rate the content of the training?		1	5	11
Knowledge of the subject and pedagogy of the speaker		1	2	14

How do you assess the content of the individual support day?		2	5	10
Knowledge of the subject and pedagogy of the speaker		1	6	10
What do you think of the degree of transfer in your company?		4	8	5
Did this course provide you with practical and methodological tools to move towards the circular economy?		3	7	7
How do you assess the organization of the course? (duration, logistics, etc.)		2	4	11
Did this course meet your expectations?		2	6	9

Lessons learnt

At the end of the program, we have:

- ⇒ Different needs function of the maturity and sector of the company
- ⇒ Different levers to implement CE
- ⇒ Different support (awareness, creativity)

The program could allow the SME's to achieve different results:

- ⇒ Companies already engaged in CE or subcontractors: the path allowed them to go through the actions already undertaken on the different axes of the CE, in order to enhance them and to consider complementary actions (e.g.: research for new ways to recycle waste, reinforce eco-design actions)
- ⇒ Companies that already had a CE project: the path allowed them to define the project, to reinforce the CE aspect of the project
- ⇒ Companies that started on CE : creativity during the one-day individual support allowed them to imagine new projects (ex: new activities, new service, change in the raw material (type of plastic used)

Maturity & sectors

- We had different levels of maturity among the companies: some started just with the will of implementing CE, other had already CE projects underway and integrated several areas of CE.
- It can be discussed whether it would be a better option to create different groups and program function of the maturity of the company on CE.
- We noticed highly variable levers depending on the activity and type of business. Ex: it will be more difficult for a subcontractor in the surface treatment industry to implement CE than for an independent textile SME.

Digital needs:

No real digital needs have been identified in the path.

This does not mean that digital tools are not useful for CE projects but that the process we used did not allow to identify digital needs:

- because it is too soon, the project needs to be more defined,
- because after 1 day support, this need has not been identified
- because CE projects do not need necessarily digital tools.

We organized a debrief meeting with the consultants of the program on March, 28th to get their feedbacks and analysed the answers of the satisfaction questionnaire. Added to the analysis of the satisfaction questionnaire filled by the companies, we could draw up the conclusions below.

Strengths of the program :

- Training session with a lot of examples, fitted to the industry sector, and that could give the companies a good overview of CE and allowed them to start sharing together
- The organization of the program, the follow-up by the Auvergne Rhône Alpes Entreprises team and their participation in the training and 1:1 support day allowed a fluid work and more connections with the local ecosystem.
- this approach has opened up the field of possibilities on CE for the SME's

Weakness of the program:

- 1 day support is too short. The consultants could be frustrated not to support the company implementing their projects.

Focus point:

- The involvement of the CEO is crucial in this program: he/she had to be at least at the beginning and end of the program
- The SMES's (particularly the smallest ones) could lack human resources to implement the action plan.
- After one day support, it is necessary to have a good follow-up of the companies to assist them in the implementation of the project.
- The program was free of charge for the companies: this may have affected their commitment to implement the action plan

Suggestions:

- Plan for continued support for a few companies (5-6) that are the most motivated in implementing their project. This is an opportunity that can be offered by our program "Industry of the future".

Taking into account that by the time of the meeting not all the local actions reports were available, the discussion based on the preliminary results available. Those results concern 212 enterprises supported, i.e. about 85% of the final number of enterprises supported reached by the end of June. The validity of the lessons learned was therefore not questioned by the members of the Evaluation Committee.

Following the presentation of the results from the local pilot actions:

- SMEs supported and sectors,
- Evaluation results of the local pilot actions,

- *Lessons learned and input from the Transnational Working Groups,*

The lessons learned were discussed with the members of the Evaluation Committee.

Outcome of the discussion:

- *The overall performance of the local pilot actions was acknowledged positively.*
- *In addition to the overall positive feedback to the local pilot actions, suggestions for improvement of the design and implementation of similar actions aiming for improving the combined circular and digital maturity of SMEs through adequate assistance were discussed.*

The following recommendations were discussed:

Lessons learned for the design of the pilot actions:

- o *It was generally difficult to involve SMEs with a low maturity level
A more differentiated strategy to reach companies according to their maturity level might have helped.*
- o *More generally, the overall support offer could be better differentiated according to the maturity level of the businesses.*
- o *The focus on SMEs might have been too strict. Large SMEs which control, or influence value chains could have been involved in order to reach also their SME suppliers.*
- o *The initial KPIs might have been too ambitious in terms of investment leveraging, according to the limited financial and time resources for the pilots.*

Lessons learned for the implementation of the pilot actions:

- o *Combining digital and circular expertise in the assistance process was not always easy with an expert. Mixed teams would have helped working on both aspects more systematically*
- o *Some local actions started late and were too short to reap all possible fruits. In general, the 1:1 assistance and consulting cycle was too short to reach the best possible results.*
- o *The implementation of a full Plan-Do-Check-Act interaction cycle with companies is recommended.*
- o *More peer learning and interaction among the different regional experts and sharing of experience among trainers could have helped to increase the impact of the pilot actions.*
- o *Giving the possibility to companies to meet might have generated more innovative ideas.*
- o *The online training offer could have been designed in a more flexible way to make it even easier to access for companies.*

The following key learnings were agreed upon:

1. *Awareness of Circular Economy is key.*
2. *Creating a network/community of experts and business support providers promoting the improvement of circular economy by use of digital tools is essential. The community generated in the project is a valuable asset to be maintained.*
3. *Action plans and recommendations need to be connected closely with funding opportunities for SMEs in order to accelerate the design of innovative activities and investment decisions.*
4. *The higher the circular maturity, the higher the need for digitalization.*

Durability and follow-up

We encountered an important interest for the subject CE and digitalisation among the SMEs participating in our pilot action but also via our digital assessment tool available on our website. So far almost 80 companies and other types of structures have used the assessment.

We continue to follow up on the SMEs who participated in the pilot action in order to follow the implementation of their action plan.

We are organising a regional workshop with regional stakeholders to see how we can capitalise on the tools developed specifically for the project and the pilot action.

Annex

- D.T3.1.1 - AS feasibility plan to foster CE design model with digitalisation processes
- D.T3.2.1 - Local actions to implement CE Design Model approaches with digitalisation processes (6 documents)

Program Priority: SO1.1 - Improve the framework conditions for innovation in the Alpine Space

Work Package: WP T3 - Fostering CE processes in Alpine Space with digitalisation processes

Activity: Planning digitalised CE processes in Alpine Space area addressed to SMEs

Deliverable: D.T3.1.1 AS feasibility plan to foster CE design model with digitalisation processes

Author: TPLJ, inputs by PPs (JSI&TPLJ, CONFBG, AWS, ITG, AURAE, RISING SUD)

Version: final

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Appendix (Inputs by PPs: Local detailed feasibility plans by PPs for the
implementation of pilots – (Slovenia: JSI & TPLJ, CONFBG, AWS, ITG, AURAE,
RISING SUD)..... 4

I. Introduction

The task *A.T3.1 Planning digitalised CE processes in Alpine Space area addressed to SMEs* is implemented under *WP T3 - Fostering CE processes in Alpine Space with digitalisation processes*. This deliverable relates particularly to the development of the deliverable *D.T3.1.1 AS feasibility plan to foster CE design model with digitalisation processes*.

The main objective of WP T3 is to develop transnational and local actions to monitor the effectiveness of SMEs digitalisation to push them toward CE processes. The role of digitalisation as an 'enabler' for the CE is tested with the support of the CIRCULAR4.0 toolkit developed under T2. The testing method (T3.1) is based on a "cycle" moving from the transnational working groups and their specific approaches, through an Alpine "vision" of the actions to be implemented and developed with the feasibility studies and then their experimenting with local action to come back to the Alpine vision and produce the following CIRCULAR4.0 Action Plan (T4.1). The overall idea is that Circular Economy and digitalisation can benefit SMEs and Alpine well-being economy only if included in a transnational approach that will highlight connections, relationships, knowledge and opportunities for SMEs, Intermediaries, Policymakers, and the society as a whole. The feasibility studies developed according to the 3 main approaches to CE will define concrete paths to be undertaken to achieve the results, the resources and the organization required (T3.2). Partners selected one priority CE approach looking at their economic and social environment and will work with the target groups "declining" the alpine roadmaps into local needs and expectations. Local Pilot actions (T3.3) will consist of actions directly addressed to SMEs to check their maturity for CE processes, the innovation to be introduced in the processes, products and business models, the investment plan required and the way to implement it. Finally, 280 SMEs will be assisted to implement CE processes and some of them, identified as success cases will be included in one exhibition tour, being CE with a social impact too. Pilots will be evaluated by a Scientific committee that will support the analysis of the performance according to KPIs (T2.5). The outputs will be the ground for the development of the CIRCULAR4.0 Action Plan (T4.1).

The task *A.T3.1 Planning digitalised CE processes in Alpine Space area addressed to SMEs* provides the AS users with proposals and plans to increase attitude by SMEs to eco-innovation, to innovate business models and products for re-use & recycling starting from traditional business and production processes. BWCON as a WP T3 leader prepared in a close collaboration with TPLJ a template for A.T3.1 based on the methodology for the development of feasibility plans provided by TPLJ and confirmed by all PPs in May 2021.

This deliverable (D.T3.1.1) is focusing on the development of AS feasibility plan to foster CE design model with digitalisation processes. BWCON collected inputs of each project partner from the CE design model (in the case of Slovenia two project partners collaborated – JSI & TPLJ). Each PP from the group of CE design model (JSI & TPLJ, CONFGB, AWS, ITG, AURAE, RISING SUD) developed its feasibility plan for setting-up local service providers addressed to SMEs to establish services to increase attractiveness by investors and propose new financial schemes by Public Actors, roadmaps to achieve these results. The plan defines organization, actions, resources, and equipment needed to set-up Alpine regional centres able to promote digitalised CE activities addressed to SMEs on the design model and eco-innovation in general.

Local detailed plans by PPs for pilots (Slovenia: JSI & TPLJ, CONFGB, AWS, ITG, AURAE, RISING SUD) are available in the appendix. All PPs in this group provided their input.

Appendix (Inputs by PPs: Local detailed feasibility plans by PPs for the implementation of pilots – Slovenia (JSI & TPLJ, CONFBG, AWS, ITG, AURAE, RISING SUD))

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3.	Fostering CE processes in Alpine Space with digitalisation processes
Task n°: T.3.1	Planning digitalised CE processes in Alpine Space area addressed to SMEs
Author(s):	Lara Trikha, Luc Schmerber, bwcon Dr. Eva Schichl, UCB
Contributors:	Roberto Sandrini, TPLJ
Type:	T -Template/R – Report, JSI & TPLJ
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Revision:	DRAFT 02
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2. Planned activities.....	11
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Overview of the local pilot action - Slovenia (Jožef Stefan Institute, Technology Park Ljubljana)

This is the place where to describe in 2-3 pages the pilot action in its entirety, without entering into deep operational details related to its implementation. It is a summary-like or elevator pitch like approach.

The description should encompass at least the following elements:

- **Local context and CE approach**
Sectors, geographical area, type of businesses targeted, etc.

In Slovenia pilot actions will address the sectors in accordance with the selected sectors of interest as mapped out in D.T1.4.2. Report on the industrial sectors selected by each area and justification of those selected:

:

Wood processing industry,
Plastics,
Construction,
Manufacturing,
Food

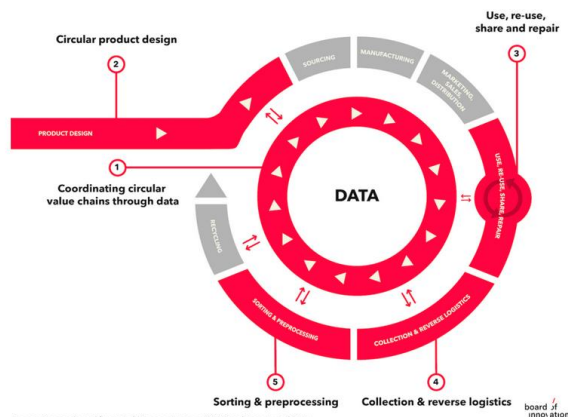
These selected sectors of interest are in accordance with the National Circular Economy Roadmap and other national strategic development plans:

	TPJ+IS	RISINGSD	GRAND E-NOV	AURE	TWL	VINN+CCIAAVE	UCP	TUAS	BIZ-UP	AWS
	SI	R-Sud	Grand Est	Rhone-Al	Piemonte	Veneto	Swabia	Up-Bayern	Ober-Oster	Vienna
Wood processing industry					Forest based value chains		Furniture			
Plastics					Packaging plastics					
Construction							Construction and Building			Construc
Manufacturing industry										
Food										
Bioeconomy										
Textile										
Electronics and Electrical engineering										
TOTAL	5	1	3	3	6	1	2	1	1	1

These are also sectors included in Slovenia's regional specialization strategy supported by cluster organizations.

Circular economy approach we plan to undertake for pilots is the circular design model (approach) and optimal use model (approach) as defined in the scope of the Circular 4.0 project. If applicable for Slovenian SMEs also value recovery model (approach) will be used.

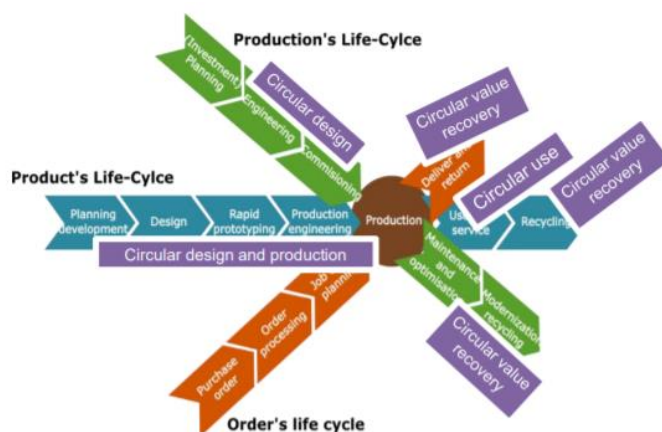
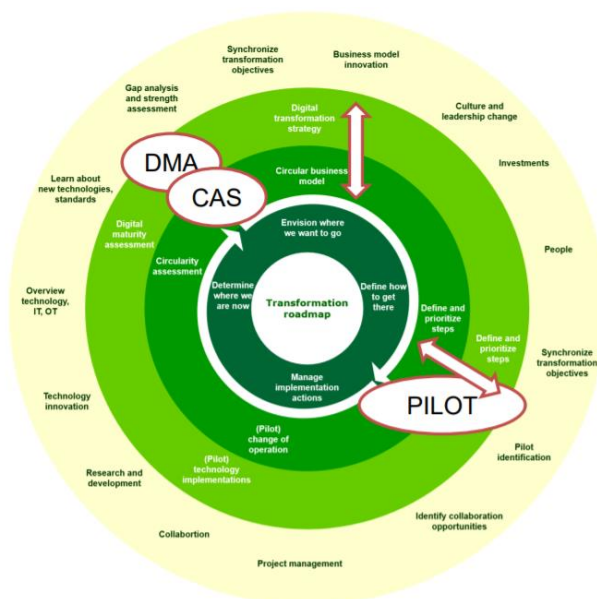
In addition, digital data-based models and systems changes will be adopted where applicable (example in advanced manufacturing) for coordinating business chains transformation and digitalization as enabler of circular transformation will be strongly emphasized along the value chain transformation. CAT4.0 transformation course of the Circular 4.0 project will be used as a base for pilot actions.



Source: Figure adapted from World Economic Forum (2019) and Accenture (2018).

Source: <https://www.boardofinnovation.com/blog/circular-business-model-examples/>

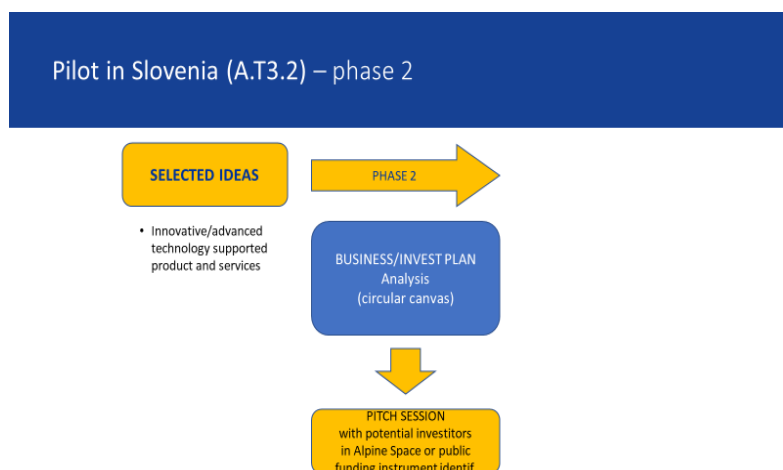
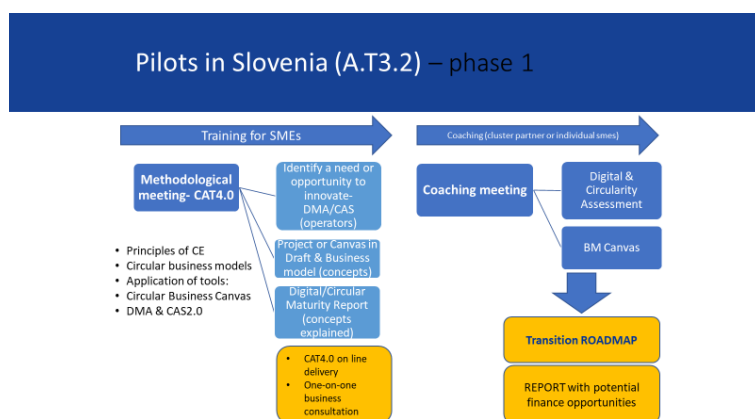
Underlying principles of pilots used in Slovenia are explained in the Module 1 (Part 2) of the CAT4.0 training course Enabling the potential for circular transformation – tech readiness–digitalization and I4.0 (available over <https://circular40.eu/>). The process encompasses systemic changes as well as transformation across the value chain of the product, production and business functions.



Improving production and process by means of digitalization will be examined such as the concepts of Zero-defect manufacturing through analytics, signal processing, AI, sensing. Industrial symbiosis & industrial urban symbiosis for improving collaboration utilizing technology and IoT & Industrial cloud platforms for connecting, storing, monitoring, analyzing and improving production processes.

(Ref.: www.symbiosis.dk/en; • <https://qu4lity-project.eu/wpcontent/uploads/2020/05/PRJ.pdf>; <https://www.ellenmacarthurfoundation.org/casestudies/effective>)

- **Methodology**



AWARNESS RISING FOR SMEs& CHECK FOR LINEAR RISKS & CIRCULAR OPPORTUNITIES will be also included in the CAT4.0 approach.

Tools to be used:

Digital maturity assessment tools:

<http://dma.innocape.eu/en/test/registration>

Designed for all kinds of companies to assess the digital maturity and to give a foundation for internal discussions on strategic priorities in digitalization opportunities and challenges. It is useful for the assessment of results to initiate dialogue with the regional Digital innovation hub to gain further support in digitalization process within the company:

- Improving processes through digitization and automation
- Experimenting at low costs to reveal efficiency gains, new customer touch points or new products
- Collecting and analysing data to generate insights for strategic decision making
- Establishing relationships with external partners to pool complementary resources

Other tools for SMEs & business or CE model specific tool (to be selected by experts from the tools approved in the scope of the Circular4.0 project and introduced through the training actions in T.2.) including tools assessed in the scope of **D.T2.3.1 Setting up the toolkit to support digitalisation processes to foster the CE in the Alpine space**. Such as:

<https://digital-transformation-tool.eu/project/>

and some selected tools from a repository of identified tools “fit-for-purpose” (depending on level of maturity of SME, size and SME pilot project needs)

<http://e2-owncloud.ijs.si/owncloud/index.php/s/rc17RxI7bd7Kw8d>

Companies will be cross-examined also about the application of advanced technologies such as robotics, control technologies (industrial control systems), artificial intelligence, big data use, block-chain, XP, virtual reality or augmented reality use.

Circularity assessment scoring tool:

CAS2.0 tool (developed in the scope of Circular4.0 project):

<https://circular40.eu/cas2-0/>

- **Expected results**

This section shall explain the benefit / added value expected for the SMEs.

SME's will identify the pilot project (business transformation project and/or investment project) they will start the CE transformation journey, get acquainted with the CE principles. They will also elaborate a business plan (business canvas) and/or investment plan (investment project) and present it in front of funders i.e., proactively seek financial instrument for implementing the transformation project.

Planned activities

Planned activities in Slovenia (JSI & TPLJ) are:

1. Recruit expert assessors for 1:1 consultations & delivery of DMA/CAS

TPLJ: Preparation of the open call for experts, selection & contracting phase

Selected experts prepare CAT4.0 for specific sectors to support 1:1 assessment within the process of DMA/Circular Maturity Assessment, business canvas preparation, investment plan preparation, potentially for pitching)

Deadline: 10.12.2021 (draft), 15.12.2021 (final)

2. Selection/identification of SMEs

Selecting SMEs to participate in the training program & directly addressing sector specific industrial clusters (clusters for wood, manufacturing, plastics, food) (open call and/or direct call for participation in the CAT4.0 program through sectoral clusters organized through regional specialization or located under the umbrella of Chamber of Economy).

TPLJ/JSI - expression of interest to be publicly published on TPLJ and JSI web page & involvement of Operators (Association of plastic industry of Slovenia, Regional development agencies/centres etc.)

Deadline: 10.12.2021 (draft), 15.12.2021 (final)

Clear message for SMEs!

Deliverables: CAS2.0, DMA, Canvas, Fin. Investment plan, possible investors pitching events (Slo & It – venture capital investors)

Preparation of direct invitations for companies: (approx. to be selected 10), list of companies from business data bases (BIZi/AJPEs, among 500 companies, selection by sectors, by turnover, profit & value added), principle of selection: First come, first selected, Deminimis rule (to be received by FLC)

3. Thematic workshops/seminars

Implementing the CAT4.0 modules addressed to SMEs supported by awareness rising campaign (using project partners communications channels – JSI & TPLJ).

Thematic workshops per sectors: 15.2.2022 – 15.3.2022

4. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs

Tools mainly used will be:

- INNOCAPE tool

<http://dma.innocape.eu/en/test/registration>

Designed for all kinds of companies to assess the digital maturity and to give a foundation for internal discussions on strategic priorities in digitalization opportunities and challenges. It is useful for the assessment of results to initiate dialogue with the regional Digital innovation hub to gain further support in digitalization process within the company:

- Improving processes through digitization and automation
- Experimenting at low costs to reveal efficiency gains, new customer touch points or new products
- Collecting and analysing data to generate insights for strategic decision making
- Establishing relationships with external partners to pool complementary resources

Some other SME/sector specific tool from a repository of identified tools might be deployed as well that is “fit-for-purpose” (depending on level of maturity of SME, size and SME pilot project needs) <http://e2-owncloud.ijs.si/owncloud/index.php/s/rc17Rx17bd7Kw8d>

Other tools for less digitally advanced SMEs & business or CE model specific tool (to be selected by experts from the tools approved in the scope of the Circular4.0 project and introduced through the training actions in T.2.) including tools assessed in the scope of **D.T2.3.1 Setting up the toolkit to support digitalization processes to foster the CE in the Alpine space**. Such as: <https://digital-transformation-tool.eu/project/>

5. Identification of innovation needs and investment plan

As discussed during the partner meeting on 02.11.2021, each company supported should receive a document established based on the assessment and in collaboration with the SME (at least one bilateral meeting between the SME and an expert/consultant during the process) and encompassing at least one recommendation covering any of the following aspects of the transformation of the company towards higher circularity (= increase of maturity level)

- Technology adoption
- New or improved process
- New or improved or transformed business model
- New or improved products
- New or improved services
- Digitally supported (as far as possible)
- With a time, horizon from 6 months up to 1 year

Business canvas and a roadmap for the implementation of the SME pilot action covering at least one of the transformation areas listed above will be produced by the experts and a pitching presentation prepared to advance SMEs with their transitioning intentions. Experts will assist SME's 1:1 on that.

6. Pitching the pilot in front of finance organizations and/or identification of the funding instrument for SME to apply for funding the pilot action.

Identifying financial organizations and their instruments in support of CE.
Organizing a “pitching” event with financial institutions and/or

Pitching event (SLO-IT): April 2022 (to be decided)

For the description of each activity (or sub-activity if relevant), we suggest using the following table:

Title		Start date	MM.YYYY
		End date	MM.YYYY
Description			
Describe here the activity			

Add sub-activities if necessary			
Results Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.			
1	Example: 3 online workshops ...	Date	
2	Example: 1 call for applications	Date	
3	Example: 25 CE + digital maturity assessments of SMEs	Date	
n		Date	

Indicators (KPIs) and monitoring

This section shall describe what are the measurable objectives (qualitative and quantitative indicators) of the pilot action and how the progress will be monitored. The selection/definition of indicators shall refer to deliverable *D.T2.5.1 Evaluation methodology* and *D.T2.4.2 KPIs definition to assess the contribution of digitalisation on CE approaches* (templates available on Teams – see also next page).

A basic indicator for all pilot actions is the number of SMEs targeted (35 in Slovenia - 17 (JSI) within Circular Design Model and 18 (TPLJ) within Optimal Use Model).

Measurable objectives:

Minimally 17 + 18 PPs (JSI & TPLJ) SMEs going through CAT4.0. All together 35.

- Technology adoption
 - 1 new or improved process in SME
 - 1 New or improved or transformed business model identified
 - 1 New or improved products foreseen within 6 months to a year from finalizing CAT4.0
 - 1 New or improved services/business process
 - 1 Digitally supported action identified with at least one advanced digital technology

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3. Fostering CE processes in Alpine Space with digitalisation processes

Task n°: T.3.1 Planning digitalised CE processes in Alpine Space area addressed to SMEs

Author(s): Lara Trikha, Luc Schmerber, bwcon
Dr. Eva Schichl, UCB

Contributors: Roberto Sandrini, TPLJ

Type: **T -Template/ R- Report, CONFBG**

Dissemination level: **CO = confidential**

Revision: **DRAFT 02**

Due Date:

Date of submission: **Nov 2021**

1. Overview of the local pilot action – Confindustria Bergamo.....	7
2. Planned activities.....	11
3. Indicators (KPIs) and monitoring.....	13

Overview of the local pilot action – Confindustria Bergamo

This is the place where to describe in 2-3 pages the pilot action in its entirety, without entering into deep operational details related to its implementation. It is a summary-like or elevator pitch like approach.

The description should encompass at least the following elements:

- **Local context and CE approach**

The local context of the local actions encompasses enterprises from the Bergamo province. The targeted companies are SMEs from the manufacturing sector

The assessment allows to evaluate the status and the workshops would allow to understand how to improve in three areas:

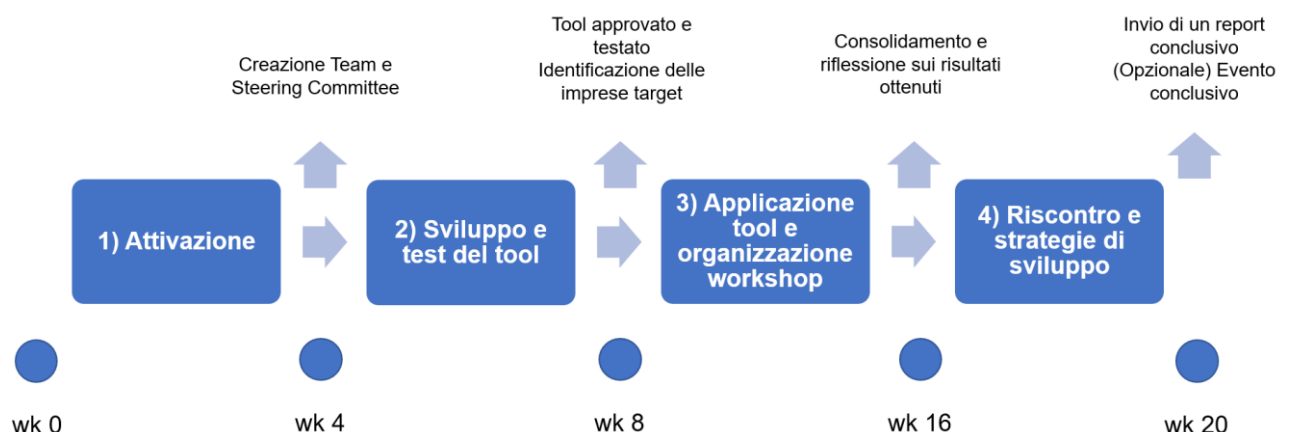
- design of new actions and strategies connected to the circular economy
- optimal use through benchmarking companies and optimizing what enterprises already use
- value recovery to implement trivial actions such as the reduction and recovery of waste finalized at recovering the value that was previously lost

- **Methodology**

The project described here has the general objective of developing, testing and applying a tool for assessing the maturity of companies in terms of Circular Economy.

In particular, it will be divided into 4 main phases:

- Project activation
- Circular Maturity Assessment Tool Test
- Application of the tool to the mapping of 5-15 virtuous companies associated with Confindustria Bergamo and identification of areas for improvement through workshops to be organized in the company
- Development of a final benchmarking report among the companies analyzed, possibly with a final dissemination event



Main steps:

1. DMA (Confindustria Bergamo)
2. CAS (Bergamo University)
3. Roadmap with corrective actions and suggestions
4. Dedicated consultancy to build the Business Model Canvas of each company profile

Digital maturity tool: Derived from Dreamy 4.0 Politecnico of Milano

Circular assessment tool: Circularity Assessment Score 2.0

- **Expected results**

Through the parallel assessment of digital and circular maturity, SMEs will be able to auto-assess their readiness with respect to the green and digital transitions, which will be relevant to drive investments in the short term. Thanks to the dedicated workshop, each company will be able to engage in brainstorming and reflections with the involved experts, as well as with other functions inside the company, so to overcome the so-called silos thinking. In addition, the benchmarking report will allow SMEs to achieve a deeper understanding on their current digital and circular state related to other companies in the same area. Finally, the main opportunity for companies is to understand which actions to implement to become more digitalized and exploit circular processes to get a competitive advantage.

Planned activities

In this session, the activities planned for the roll-out of the approach described above shall be detailed. In order to have a significant degree of comparison among the different local pilot actions, we suggest using a set of common activities (= same title or heading, not the same methods). Those activities are the ones listed in the AF

7. Selection/identification of SMEs

The selection of SMEs is done through the Confindustria Bergamo database of companies. Firstly the companies are filtered in order to visualize only the ones that are qualified as SMEs regarding the number of employees and their annual turnover. Secondly, the selected SMEs are contacted through the Confindustria newsletter to inform them about the Circular 4.0 project and its opportunities. After having an adequate number of responses, the works proceeds in organizing the thematic workshops, the circular and digital maturity assessments in our headquarters or in company according to company preferences.

8. Thematic workshops/seminars

The Local training Actions were organized in two different Front-desk modules:

1. Front-desk module 1 were addressed to the internal resources of Confindustria Bergamo that are involved in the Circular Acceleration Training 4.0 (CAT4.0) and in the Pilot actions, in particular in the implementation of the Digital Maturity Assessment (DMA). The module were scheduled for the 25th June 2021 and consisted in a meeting of three hour in a classroom of Confindustria Bergamo dedicated to the training activities.
2. Front-desk module 2 were addressed to the University of Bergamo that were involved in the Pilot action, and in particular in the implementation of the Circular Assessment Score (CAS) and in the construction of the Circular Business Model Canvas. The module were scheduled for the 29th June 2021 and was implemented through an online Teams meeting of four hours.

The front-desk modules were supported also by an online course (OCT training course) that was available on the platform TalentLMS. The online course was composed by eight different module of one hour each; the materials and information provided by the Talent platform are fundamental for the correct implementation of services dedicated to the SMEs: the training activities (CAT4.0) and the pilot action (implementation of the assessment tools and the circular business model canvas).

9. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs

Regarding the digital maturity assessment, Politecnico di Milano and Assoconsult have developed an online self-assessment tool Test Industria 4.0, available free of charge on the website: <http://preparatialfuturo.confindustria.it/digital-innovation-hub/check-aziendale-online/>

The Industry 4.0 Test provides a first indication of the digital maturity of your company, with the intention of photographing its positioning with respect to the possibilities offered by the Industry 4.0 logic. The level of maturity is measured against four dimensions of analysis (Execution, Monitoring and Control, Technologies and Organization) in the processes that form the value chain of a company.

On the other hand, the tool used for the circularity assessment is the CAS 2.0, it will be applied by the experts of the University of Bergamo in order to make sure the companies understand the questions and fill them in the most accurate way.

10. Identification of innovation needs and investment plan

The University of Bergamo will then merge the results of the digital maturity test with the circular assessment score in a single report. This report will present to each company

the current state on both maturities and a roadmap on which actions to take in order to develop both their digital and circular maturity.

As discussed during the partner meeting on 02.11.2021, each company supported should receive a document established on the basis of the assessment and in collaboration with the SME (at least one bilateral meeting between the SME and an expert/consultant during the process) and encompassing at least one recommendation covering any of the following aspects of the transformation of the company towards higher circularity (= increase of maturity level)

- Technology adoption
- New or improved process
- New or improved or transformed business model
- New or improved products
- New or improved services
- Digitally supported (as far as possible)
- With a time horizon from 6 months up to 1 year

Consequently this activity should describe the process for the draft of those recommendations, like for instance involvement of experts and setup of a roadmap (example for AURA-E).

Each of the above activity can be split into several steps (sub-activities) as relevant for each pilot action. But we recommend keeping it simple.

For the description of each activity (or sub-activity if relevant), we suggest using the following table:

Title	Selection and identification of SMEs	Start date	11/2021
		End date	12/2021
Description The selection of SMEs is done through the Confindustria Bergamo database of companies. Firstly the companies are filtered in order to visualize only the ones that are qualified as SMEs regarding the number of employees and their annual turnover. Secondly, the selected SMEs are contacted through the Confindustria newsletter to inform them about the Circular 4.0 project and its opportunities. After having an adequate number of responses, the works proceeds in organizing the thematic workshops, the circular and digital maturity assessments in our headquarters or in company according to company preferences.			
Results			
1	Identification of 15 SMEs		

Title	Thematic workshops	Start date	.YYYY
		End date	MM.YYYY
Description			
The Local training Actions were organized in two different Front-desk modules:			
1. Front-desk module 1 were addressed to the internal resources of Confindustria Bergamo that are involved in the Circular Acceleration Training 4.0 (CAT4.0) and in the Pilot actions, in particular in the implementation of the Digital Maturity Assessment (DMA). The module were scheduled for the 25th June 2021 and consisted in a meeting of three hour in a classroom of Confindustria Bergamo dedicated to the training activities.			
2. Front-desk module 2 were addressed to the University of Bergamo that were involved in the Pilot action, and in particular in the implementation of the Circular Assessment Score (CAS) and in the construction of the Circular Business Model Canvas. The module were scheduled for the 29th June 2021 and was implemented through an online Teams meeting of four hours.			
The front-desk modules were supported also by an online course (OCT training course) that was available on the platform TalentLMS. The online course was composed by eight different module of one hour each; the materials and information provided by the Talent platform are fundamental for the correct implementation of services dedicated to the SMEs: the training activities (CAT4.0) and the pilot action (implementation of the assessment tools and the circular business model canvas).			
Results			
1	Front-desk module 1	Date	25/6/2021
2	Front-desk module 2	Date	29/6/2021
3		Date	
n		Date	

Title	Digital and circular maturity assessment	Start date	12/2021
		End date	3/2022
Description			
<p>Regarding the digital maturity assessment, Politecnico di Milano and Assoconsult have developed an online self-assessment tool Test Industria 4.0, available free of charge on the website: http://preparatialfuturo.confindustria.it/digital-innovation-hub/check-aziendale-online/</p> <p>The Industry 4.0 Test provides a first indication of the digital maturity of your company, with the intention of photographing its positioning with respect to the possibilities offered by the Industry 4.0 logic. The level of maturity is measured against four dimensions of analysis (Execution, Monitoring and Control, Technologies and Organization) in the processes that form the value chain of a company.</p>			

On the other hand, the tool used for the circularity assessment is the CAS 2.0, it will be applied by the experts of the University of Bergamo in order to make sure the companies understand the questions and fill them in the most accurate way.

Results

1	Digital and Circular maturity assessments		

Title	Identification of innovation needs and investment plan	Start date	3/2022
		End date	4/2022

Description

The University of Bergamo will then merge the results of the digital maturity test with the circular assessment score in a single report. This report will present to each company the current state on both maturities and a roadmap on which actions to take in order to develop both their digital and circular maturity. Along with the report, it will also be created a business model canvas that encompasses the findings of both the circular and digital assessments.

Results

1	Final report of assessment activities and roadmap	Dd/mm/yy	

Indicators (KPIs) and monitoring

The KPIs defined for the four above-mentioned phases are as follows:

1. Selection/identification of SMEs:
 - Number of identified SMEs
2. Thematic workshops/seminars:
 - Number of workshops
 - Average number of participants
3. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs
 - Number of SMEs that were assessed with the Digital Maturity Assessment
 - Number of SMEs that were assessed with the Circular Assessment Score
4. Identification of innovation needs and investment plan:
 - Number of SMEs that participated in the post-assessment workshop
 - Average number of improvement actions/innovation identified per company

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3.	Fostering CE processes in Alpine Space with digitalisation processes
Task n°: T.3.1	Planning digitalised CE processes in Alpine Space area addressed to SMEs
Author(s):	Lara Trikha, Luc Schmerber, bwcon Dr. Eva Schichl, UCB
Contributors:	Roberto Sandrini, TPLJ
Type:	T -Template/ R- Report, AWS
Dissemination level:	CO = confidential
Revision:	DRAFT 02
Due Date:	November 2021
Date of submission:	December 2021

1. Overview of the local pilot action - Austria (Austria Wirtschaftsservice).....	7
2. Planned activities.....	11
3. Indicators (KPIs) and monitoring.....	13

Overview of the local pilot action - Austria (Austria Wirtschaftsservice)

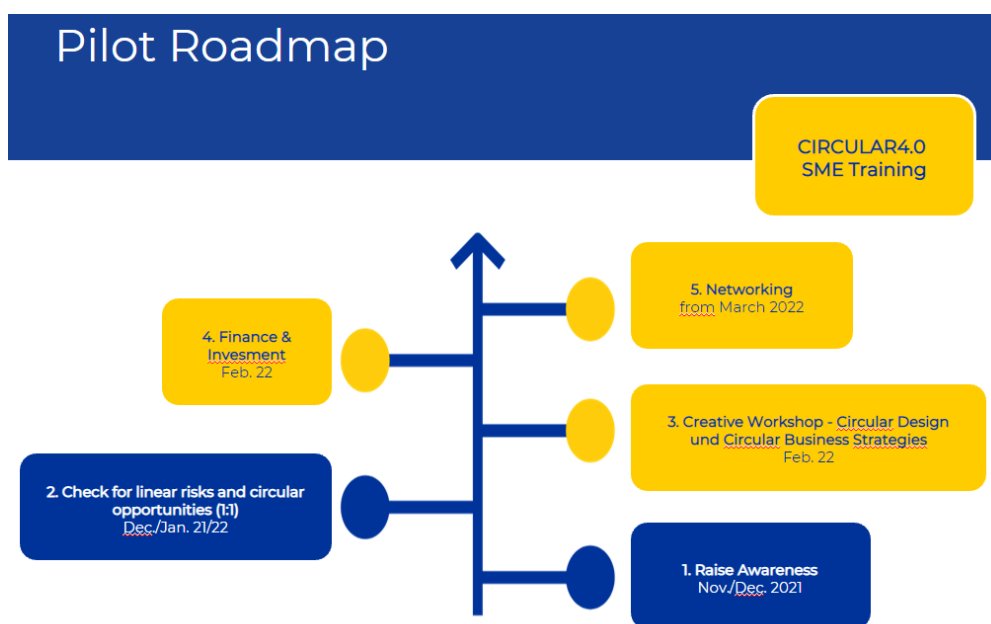
AWS has started to work with experts to plan out the pilot actions, based on what has been developed with the other German speaking partners.

The pilot action is planned out in the following models:

1. Raise awareness for CE supported by digitalization
2. Understanding the business case of CE with digital support
3. Circular business strategies in den specific sectors (sector specific training)
4. Finance & Investment
5. Networking

Not all steps are mandatory – depending on the demands/requirements of the SMEs the different modules will be applied. Just the first module is more or less mandatory because we need it to come into contact with the SMEs and to build the community.

1:1 assistance starts immediately after the first module. Module 2 is implemented in the form of a workshop but just for one company (CEO + additional employees). Module 3, 4 and 5 can be carried out either as individual 1:1 assistance or as group workshops (depending on the demands/requirements of the SMEs)



Expected results

We expect to assist 15 companies with their journey to introduce circular economy in their businesses. With the kick-off workshop we hope to educate companies on what circular economy is and what it could mean for their respective businesses. The 1:1 assistance is an opportunity for the companies to dive deeper into their business cases and to find specific ways to introduce circular economy e.g., when

producing a product with the help of digitalisation. The creative workshops intend to help companies with the circular design of their products and services and plan their journey beyond the project life.

Planned activities

MODUL 1

Raise Awareness for CE supported by digitalization (community building)

Objective: to raise awareness of the opportunities of the circular economy through information events for specific sectors / several companies (building & construction, wood industry, recycling/water treatment, waste electronic equipment)

Format:

- Networking event/(online) workshop
- 1-2 hours
- An event is planned and carried out for each of the three sectors
- The entire value chain is invited

Topics:

- Presentation of the Circular 4.0 project
- Presentation of EU Circular Economy Action Plan
- Basics of the circular economy and how digitalization can support transformation (with focus on the respective sectors)
- Presentation of two (regional) case studies
- Q&A + discussion
- Forecast: what does Circular4.0 offer the participating companies?

Tools:

- Regional best practice cases

MODUL 2

Understanding the Business Case of CE

Objective: Create awareness / raise awareness of the business case of CE and digital transformation

Format:

- (Online) coaching for one company - 1:1 assistance
- 2-4 hours

Topics:

- Entry point: linear risks and circular opportunities of sectors - as a check
- Knowledge transfer of added value of the circular economy for company
- Opportunities at point of intersection of CE and digital technologies for various circular economy business models

Tools:

- Check for linear risks and circular opportunities (based on the example of the CAS) + digi check (evaluation of contexts)
- Katch-e CE Strategist (<https://www.katche.eu>)
- MOVECO Qualification tools (<http://www.interreg-danube.eu/news-and-events/programme-news-and-events/2577>)
- SMEs will receive:
- an evaluation of the check for linear risks and circular opportunities (based on the example of the CAS) and digital maturity check (+ evaluation of contexts)
- Circular business model canvas

MODUL 3

Circular business strategies in specific sectors (sector specific training)

Objective: Know-how transfer & sector-specific workshops (building & construction, wood industry, recycling/water treatment, waste electronic equipment) - creative process

Format:

- Workshop for one sector, several companies
- The entire value chain is invited (if possible, cover the entire value chain of specific sector)
- Creative session

Topics:

- Focus: understanding of possible new circular business models and how digital technologies can support them

Tools:

- Creative tools (CE idea creation game: https://www.katche.eu/knowledge-platform/tools-and-training-materials/katch_e-tools/katch_up-board-game/m) to stimulate the users to generate value ideas from a business challenge, applying circular design and circular business strategies. The tools should act as a guide to get an idea about an innovative product-service or to solve a real business problem and generate opportunities
- Outsourcing to external experts

Title	Selection/identification of SMEs	Start date	12.2021
		End date	03.2022
<p>In December 2021 we have published a press release as well as social media posts in order to find companies to take part in our pilot action. Moreover, we have sent out the information on our company newsletter (reaching hundreds of aws clients) as well as shared the information with our expert in order to circulate the ad.</p> <p>For any company that has sent us an e-mail stating their interest we have sent a form to fill out asking for the following information:</p> <ul style="list-style-type: none">- Why would you like to take part in the pilot action?- Have you already taken measures to introduce circular economy in your company and if so, which ones?- What are your expectations for the pilot action?			
Results <p>Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.</p>			
1	Selection/identification of SMEs	Date	12.2021 - 03.2022
		Date	
		Date	
		Date	

Title	Modul 1	Start date	01.2022
		End date	01.2022
For modul 1 we plan to organize a kick-off meeting for all interested companies to introduce the principal concepts of circular economy and how to introduce them into their daily work.			
Results			
Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.			
1	Modul 1	Date	01.2022

		Date	
		Date	
		Date	

Title	Modul 2	Start date	02.2022
		End date	02.2022
For modul 2 every company taking part in the pilot to receive the opportunity for a 1:1 session with our experts for about 2-3 hours where they have the opportunity to discuss their individual business cases and undergo digital maturity assessments as well as a circularity assessment.			
Results			
Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.			
1	Modul 2	Date	01-02.2022
		Date	
		Date	
		Date	

Title	Modul 3	Start date	03.2022
		End date	03.2022
Circular business strategies in specific sectors (sector specific training) Objective: Know-how transfer & sector-specific workshops (building & construction, wood industry, recycling/water treatment, waste electronic equipment) - creative process.			
Results Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.			
1	Modul 3	Date	03.2022
		Date	
		Date	
		Date	

Indicators (KPIs) and monitoring

This section shall describe what are the measurable objectives (qualitative and quantitative indicators) of the pilot action and how the progress will be monitored. The selection/definition of indicators shall refer to deliverable *D.T2.5.1 Evaluation methodology* and *D.T2.4.2 KPIs definition to assess the contribution of digitalisation on CE approaches* (templates available on Teams – see also next page).

A basic indicator for all pilot actions is the number of SMEs targeted (~20 on average).

One of the KPIs will be a satisfactory survey. As we have asked all companies taking part what their expectations are in the pilots, we will ask them after the pilots if we have met their expectations. We will define the exact KPIs as soon as all companies are identified.

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3.	Fostering CE processes in Alpine Space with digitalisation processes
Task n°: T.3.1	Planning digitalised CE processes in Alpine Space area addressed to SMEs
Author(s):	Lara Trikha, Luc Schmerber, bwcon Dr. Eva Schichl, UCB
Contributors:	Roberto Sandrini, TPLJ
Type:	T -Template/R – Report, ITG
Dissemination level:	CO = confidential
Revision:	DRAFT 02
Due Date:	November 2021
Date of submission:	December 2021

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3. Indicators (KPIs) and monitoring.....	43

Overview of the local pilot action – Salzburg (ITG)

Local context and CE approach

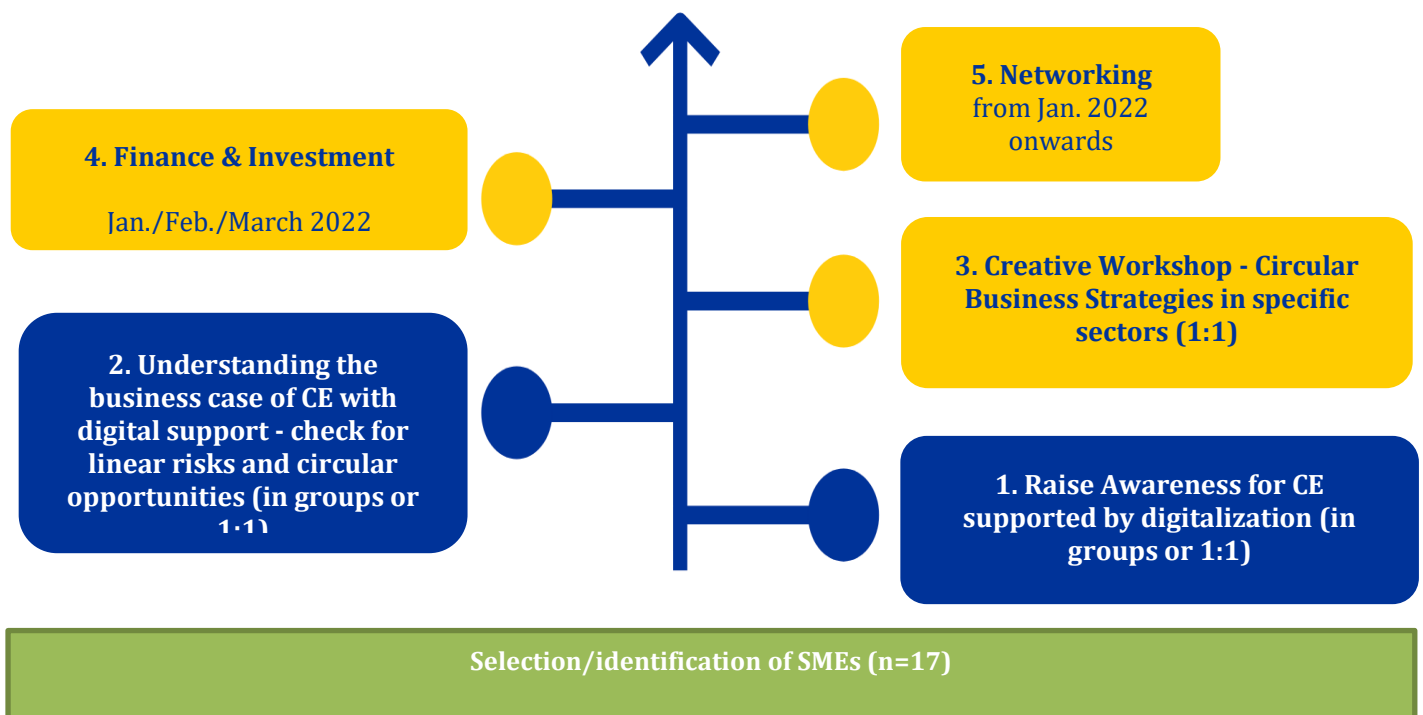
The focus of the ITG work in WP T3 is D.T3.1.1 AS feasibility plan to foster CE design model with digitalisation processes. ITG starts to gather information on possible organization, actions, resources, and equipment needed to set-up Alpine regional centers able to promote digitalised CE activities addressed to SMEs on the design model and eco-innovation in general. Therefore, desk research and an analysis of existing structures (within the region and beyond) and requirements on a regional political, economic, sociological, and technical basis is performed.

Due to the regional economy structure of Salzburg, SMEs from the following sectors are mainly targeted for the local actions:

- building and construction
- wood / timber industry
- plastics industry (not as a sector but as a material with great impact on many sectors)

Methodology

In order to assist SMEs in their circular transformation, ITG developed together with the Austrian and German partners and an external expert five modules to promote and implement digitalised CE activities. Depending on the SME's individual demands/requirements, different modules are applied. This means, that not all modules are mandatory, except from the first one, as it is needed to get in contact with the SMEs and to build up the community. Right after the first module, 1:1 assistance starts by performing workshops for one company (CEO + additional employees) with checks for linear risks and circular opportunities within module 2. Modules 3,4, and 5 can be carried out either as individual 1:1 assistance or as group workshop, depending on the needs and requirements of the SMEs.



Expected results

The aim of A.T3.2 is to foster CE design model with digitalisation processes in at least 17 SMEs mainly in the sectors building and construction, wood / timber industry and plastic industry. Awareness for CE activities will be raised on a very broad level e.g. by tenders on the homepage. These SMEs are coached in CE activities, at first by raising awareness to the importance and the chances of CE, secondly by the check for linear risks and circular opportunities. SMEs benefit from the checks and the detailed results they get after the workshop performed by the external expert. Additionally, SMEs are coached in further CE activities (modules 3-4), which should support them in developing a business strategy and a transformation plan. Networking and exchange with other SMEs are another aim of the pilot action (module 5). SMEs should be motivated and enthusiastic about further working on CE through knowing the chances and advantages of CE and by the help of an expert in the first steps of implementation CE activities.

Within the pilot action, the developed modules should be tested for their applicability and their usefulness. The tools and the generated knowledge on CE should be provided to more SMEs above the project framework. Thus, it is important that CE knowledge is provided on a low level and it should be easily applicable. In the long run, the knowledge collected during pilots should be made available to other SMEs within the region of Salzburg.

Planned activities

11. Selection/identification of SMEs

ITG decided to focus on the following sectors:

- **Building and construction**

This sector is an especially lively one in most project areas and certainly a sector with a lot of potential to work with during the course of the project. In Austria, more specifically in Salzburg, there are almost 3000 companies within this sector. According to the economic cycle of the construction industry in Salzburg, the following picture emerges: the positive economic development in the construction industry in recent years has continued so far. Despite the Corona crisis, the construction industry in Salzburg can record a high level of workload, which reliably keeps an important part of the regional economy running and secures thousands of jobs. Digitalization and circular economy are currently seen as the greatest challenges but also opportunities in the sector (cf. member survey of the building and construction industry of Salzburg). For these reasons, regional research institutes, such as the Kompetenzzentrum Bauforschung (competence center for research within the sector of building and construction), deal with the building industry in connection with circular economy issues.

For the Austrian government authorities, the promotion of circular economy and material efficiency is very important. In particular, the preparation for the reuse of components and the ensuring of a high quality of recycled building materials to recycle construction and demolition waste is supported by regulations.

- **Wood / timber industry**

The wood and timber industry are also very present in Salzburg. The only cluster the region of Salzburg has so far, is the cluster in timber industry. Therefore, this sector has also been chosen for CE activities.

- **Plastics industry** (not as a sector but as a material with great impact on many sectors)

As the aim is to include at least 17 SMEs in the pilot actions, ITG might not only to include SMEs from the three above mentioned sectors but expand the target group also to other sectors like print and life sciences.

ITG publishes the invitation for the participation in the workshops on their homepage and, additionally, invites and contacts SMEs directly to apply for the participation in these workshops. Selected SMEs (First Come – First Served) are chosen to participate in the workshops. Additionally, SMEs in the wood and timber industry will be contacted via the Holzcluster Salzburg.

Title	Selection/identification of SMEs	Start date	11.2021
		End date	03.2022
Description			
The aim of this activity is to select and identify at least 17 SMEs for participation in local action.			
Sub-activities			
<ul style="list-style-type: none">- Identification of sectors- Raising awareness among SMEs in sectors – Call for applications- Selection of SMEs			

Results			
<ul style="list-style-type: none"> - Sectors, the addressed SMEs are operating in, have been selected - Awareness is raised among SMEs in predefined sectors by publishing information and invitation to participate in local actions on homepage (call for applications); additionally, SMEs are contacted directly by email (direct approach) or via Holzcluster Salzburg - At least 17 SMEs are selected based on first come – first served principle for participation in local action 			
1	Identification of sectors	Date	Until 10/2021
2	Raising awareness / call for applications	Date	Until 03/2022
3	17 SMEs are selected for CE + digital maturity assessments	Date	Until 03/2022

12. Thematic workshops/seminars

Together with German-speaking partners and the external expert a module system has been developed to be able to foster CE activities in SMEs. The aim of the development of the modules is to reach SMEs on a low-threshold level to increase motivation, acceptability, and applicability of CE tools within SMEs. ITG developed these modules together with an external expert, whose knowledge, experience, and know-how are outstanding. Dr. Sonja Eser is circular design consultant and supports companies, administrations, and organisations in the development of products, processes, buildings, and areas for regenerative circular economy (<https://www.sinnen-wandel.de>). She will also be part of the training courses with SMEs until the knowledge building has reached an appropriate level ITG internally.

In summary, all these activities should ensure, that the modules can also be easily implemented from theory into practice to as many SMEs as possible within the region of Salzburg.

The following modules have been developed to be addressed to the SMEs:

- **Modul 1:** Raise Awareness for CE supported by digitalization (community building)
Objective: to raise awareness of the opportunities of the circular economy through information events for specific sectors / several companies (building & construction, wood industry, recycling/water treatment, waste electronic equipment)
- **Modul 2:** Understanding the Business Case of CE
Objective: create awareness / raise awareness of the business case of CE and digital transformation
- **Modul 3:** Circular business strategies in specific sectors (sector specific training)
Objective: know-how transfer & sector-specific workshops (building & construction, wood industry, recycling/water treatment, waste electronic equipment) - creative process
- **Modul 4:** Finance & Investment
Objective: advice on financing & investment options and imparting knowledge on the implications of circular business models for the financing structure of SMEs
- **Modul 5:** Networking
Objective: regular exchange between companies (of one value chain or with similar challenges), between investors, between authorities, etc.

Title	Thematic workshops/seminars	Start date	11.2021
		End date	03.2022
Description			
The aim of this activity is to organize local workshops/seminars with at least 17 SMEs where the developed tools (modules) are applied (in groups and/or in 1:1 workshops)			
Sub-activities			
<ul style="list-style-type: none">- Organization of workshops with 17 SMEs (in groups and/or in 1:1 workshops)- Definition of training modules to be applied to 17 SMEs			
Results			
<ul style="list-style-type: none">- Modul 1 – Raise awareness is applied to at least 17 SMEs (either in groups or in 1:1 workshops)- Modul 2 – Understanding the business case of CE is applied to at least 17 SMEs (in groups or 1:1 workshops)- Modul 3-5 are optionally applied to 17 SMEs			
1	Modul 1 – Raise awareness is applied to at least 17 SMEs (either in groups or in 1:1 workshops)	Date	Until 10/2021
2	Modul 2 – Understanding the business case of CE is applied to at least 17 SMEs (in 1:1) workshops	Date	Until 03/2022

Modules

1. Raise awareness for CE supported by digitalization
2. Understanding the business case of CE with digital support
3. Circular business strategies in den specific sectors (sector specific training)
4. Finance & Investment
5. Networking

Not all steps are mandatory – depending on the demands/requirements of the SMEs the different modules will be applied. Just the first module is more or less mandatory because we need it to come into contact with the SMEs and to build the community.

1:1 assistance starts immediately after the first module. Module 2 is implemented in the form of a workshop but just for one company (CEO + additional employees). Module 3, 4 and 5 can be carried out either as individual 1:1 assistance or as group workshops (depending on the demands/requirements of the SMEs)

Modul 1

Raise Awareness for CE supported by digitalization (community building)

Objective: to raise awareness of the opportunities of the circular economy through information events for specific sectors / several companies (building & construction, wood industry, recycling/water treatment, waste electronic equipment)

Format:

- Networking event/(online) workshop
- 1-2 hours
- An event is planned and carried out for each of the three sectors
- The entire value chain is invited

Topics:

- Presentation of the Circular 4.0 project
- Presentation of EU Circular Economy Action Plan
- Basics of the circular economy and how digitalization can support transformation (with focus on the respective sectors)
- Presentation of two (regional) case studies
- Q&A + discussion
- Forecast: what does Circular4.0 offer the participating companies?

Tools:

- Regional best practice cases

Modul 2

Understanding the Business Case of CE

Objective: Create awareness / raise awareness of the business case of CE and digital transformation

Format:

- (Online) coaching for one company - 1:1 assistance
- 2-4 hours

Topics:

- Entry point: linear risks and circular opportunities of sector - as a check
- Knowledge transfer of added value of the circular economy for company
- Opportunities at point of intersection of CE and digital technologies for various circular economy business models

Tools:

- Check for linear risks and circular opportunities (based on the example of the CAS) + digi check (evaluation of contexts)
- Katch-e CE Strategist (<https://www.katche.eu>)
- MOVECO Qualification tools (<http://www.interreg-danube.eu/news-and-events/programme-news-and-events/2577>)
- SMEs will receive:
 - an evaluation of the check for linear risks and circular opportunities (based on the example of the CAS) and digital maturity check (+ evaluation of contexts)
 - Circular business model canvas

Modul 3

Circular business strategies in specific sectors (sector specific training)

Objective: Know-how transfer & sector-specific workshops (building & construction, wood industry, recycling/water treatment, waste electronic equipment) - creative process

Format:

- Workshop for one sector, several companies
- The entire value chain is invited (if possible, cover the entire value chain of specific sector)
- Creative session

Topics:

- Focus: understanding of possible new circular business models and how digital technologies can support them

Tools:

- Creative tools (CE idea creation game: https://www.katche.eu/knowledge-platform/tools-and-training-materials/katch_e-tools/katch_up-board-game/m) to stimulate the users to generate value ideas from a business challenge, applying circular design and circular business strategies. The tools should act as a guide to get an idea about an innovative product-service or to solve a real business problem and generate opportunities
- Outsourcing to external experts

Modul 4

Finance & Investment

Objective: advice on financing & investment options and imparting knowledge on the implications of circular business models for the financing structure of SMEs

Format:

- Handout and possibly reference to external experts (establish contact)
- Consultation
- 1-2 hours (+ self-study)

Topics:

- Specific funding options
- Typical challenges with circular business models; product service systems and pre-financing (e.g. via expert lectures)
- Presentation of the EU taxonomy and its implications for SMEs

Tools:

- Regional guidelines such as the Funding Guide for Environmental Protection and Energy from the Bavarian State Office for Environment:
<https://www.umweltportal.bayern.de/werkzeuge/foerderung/> (overview of all funding opportunities & financial instruments related to sustainability / circular economy)
- Booklet with collected funding opportunities from Circular4.0 with reference to digitization (compilation from Output D.T2.4.1 & D.T2.4.3)
- MOVECO Toolbox: Financing Instruments - <http://www.interreg-danube.eu/news-and-events/programme-news-and-events/2358> (List of Funding Instruments for the circular economy, Interregional match-making tool, Concept for Investor Day, Public-private partnership investment opportunities in the circular economy)
- Individual consultation on request

Modul 5

Networking

Objective: regular exchange between companies (of one value chain or with similar challenges), between investors, between authorities, etc.

Format:

- (Online) group of regulars
- Guests are invited for certain topics (e.g. topic financing: invite investors)
- Regular events & fixed dates
- 1 hour

Topics:

- General exchange between companies: state of the art, current developments
- Best Practices "Flagship Companies" from T2.2.1
- New guidelines, action plans (invitation of authorities from T2.2.4)
- Financing (e.g. investor brunch as a special format, investors from T2.4.2)

Tools:

- Networking-platform
- LinkedIn group

13. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs

The following tools are used for the digital maturity and the CE assessment as part of module 2: understanding the business case of CE:

- Regional best practice cases
- Check for linear risks and circular opportunities (based on the example of the CAS) + digi check (evaluation of contexts)
- Katch-e CE strategist tool to help the user identify circular business opportunities and provide ideas and inspiration along the process of defining a circular business model.
- Katch-e CE idea creation game to stimulate the users to generate value ideas from a business challenge, applying circular design and circular business strategies. The tools should act as a guide to get an idea about an innovative product-service or to solve a real business problem and generate opportunities
- Moveco qualification tools – principles of circular economy & business models for the circular economy

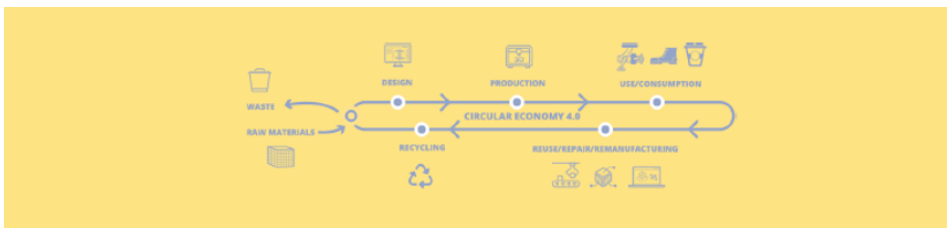
Title	Circular CE capability/potentiality and digital maturity assessment of SMEs	Start date	10.2021
		End date	03-2021
Description The following tools are used for the digital maturity and the CE assessment: <ul style="list-style-type: none">○ Regional best practice cases○ Check for linear risks and circular opportunities (based on the example of the CAS) + digi check (evaluation of contexts)○ Katch-e CE strategist tool to help the user identify Circular Business Opportunities and provide ideas and inspiration along the process of defining a Circular Business Model.○ Katch-e CE idea creation game to stimulate the users to generate value ideas from a business challenge, applying circular design and circular business strategies. The tools should act as a guide to get an idea about an innovative product-service or to solve a real business problem and generate opportunities○ Moveco qualification tools – principles of circular economy & business models for the circular economy			
Results <ul style="list-style-type: none">- Circular CE capability/potentiality and digital maturity assessment is applied to at least 17 SMEs with the above defined tools within module 2: Understanding the business case of CE with digital support - check for linear risks and circular opportunities			
1	Circular CE capability/potentiality and digital maturity assessment is applied to at least 17 SMEs with the above defined tools	Date	Until 03/2022

14. Identification of innovation needs and investment plan

SMEs participating in the training course will work through modules 1 & 2, as these are the obligatory modules. This means, that within a 1:1 session with the expert Dr. Sonja Eser, SMEs will be checked for linear risks and circular opportunities (based on the example of the CAS) and the digit check (evaluation of contexts). As a result, SMEs will be provided with the evaluation and the results of this check and will additionally get the circular business model canvas. Innovation needs, and – if appropriate – investment plans can be derived from these results. Each SME will receive a document established on the basis of the assessment and in collaboration with the SME (at least one bilateral meeting between the SME and the expert) at least one recommendation covering any of the following aspects of the transformation of the company towards higher circularity (this means an increase of maturity level) will be developed. This recommendation with a time horizon from 6 months up to one year can for example be:

- technology adoption
- new or improved process
- new or improved or transformed business model
- new or improved products
- new or improved services
- digitally supported (as far as possible)

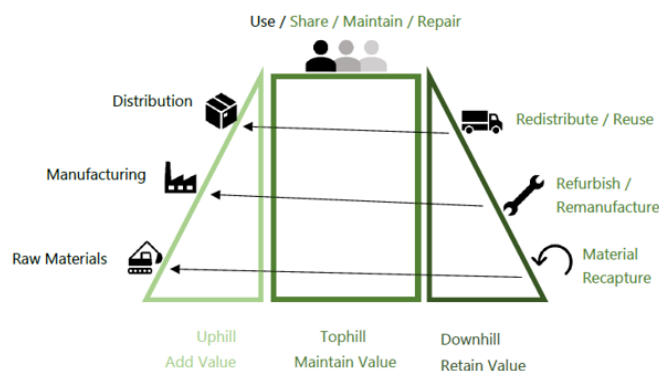
A standardized document for the delivery of the results from the check for linear risks and circular opportunities has been developed, here is an excerpt from the results for the SME (find the whole document in annex 1):



Auswertung

Nützliche Circular Strategies für Ihr Unternehmen:

(identifizierte Lösungsstrategien werden in die Grafik eingetragen, CS1-CS10)



Es wird kurz umrissen, welche Gedanken dazu für das Unternehmen besprochen wurden:

Title	Identification of innovation needs and investment plan	Start date	11.2021
		End date	03.2022
Description			
<p>Each SME will receive the results based on the check for linear risks and circular opportunities. At least one recommendation covering any of the following aspects of the transformation of the company towards higher circularity (this means an increase of maturity level) will be developed. This recommendation with a time horizon from 6 months up to one year can for example be:</p> <ul style="list-style-type: none">- technology adoption- new or improved process- new or improved or transformed business model- new or improved products- new or improved services- digitally supported (as far as possible)			
Results			
<ul style="list-style-type: none">- 17 SMEs get the results from the check for linear risks and circular opportunities and can derive at least one recommendation for innovation needs to be implemented			
1	Recommendation for innovation needs to be implemented	Date	Until 03/2022

Indicators (KPIs) and monitoring

To measure the results of the pilot action and the progress made, various key performance indicators (KPIs) have been defined beforehand (D.T2.5.2). These KPIs are part of the company dashboard and derive from the instruments used in module 2.

Additionally, the trainee's level of satisfaction, maturity improvements, and the impact on CE related to the pilot action are part of the monitoring.

To document the trainee's level of satisfaction, the participating SMEs will fill in a short questionnaire before the workshop takes place. This is also important to identify the expectations from and needs of the SMEs beforehand. After the workshop(s) took place, SMEs will fill in another questionnaire to ask for their satisfaction, if their expectations were fulfilled and if an added value was created to the company. Additionally, SMEs are asked, if they are motivated to further push the implementation of CE and if the contents and tools within the workshop were clear, practicable, understandable, and applicable. Participants are asked if all relevant topics have been covered, if the content is applicable to the company environment. Finally, SMEs are asked If they were satisfied with the organisation of the workshop, with the workshop instructor and with the duration of the workshop.

The exact tools for the measurement of maturity and the impact on CE will be defined later depending on the SMEs selected.

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3.	Fostering CE processes in Alpine Space with digitalisation processes
Task n°: T.3.1	Planning digitalised CE processes in Alpine Space area addressed to SMEs
Author(s):	Lara Trikha, Luc Schmerber, bwcon Dr. Eva Schichl, UCB
Contributors:	Roberto Sandrini, TPLJ

Type:	T -Template/ R- Report, AUREAE
Dissemination level:	CO = confidential
Revision:	DRAFT 02
Due Date:	26/11/2021
Date of submission:	26/11/2021

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Overview of the local pilot action – AUVERGNE RHONE ALPES ENTREPRISES

This is the place where to describe in 2-3 pages the pilot action in its entirety, without entering into deep operational details related to its implementation. It is a summary-like or elevator pitch like approach.

The description should encompass at least the following elements:

- **Local context and CE approach**

Sectors, geographical area, type of businesses targeted, etc.

Any other information on the context, as relevant.

Please mention which is the CE approach originally foreseen for your pilot (among those listed in the project: design, optimal use, value recovery) and add the justification – if relevant - to include one or more CE additional approaches.

Our agency is missioned by the Auvergne-Rhône-Alpes Region to support companies of the industry and service to industry sectors.

We have identified 10 000 SME's that have significant size or activity that we follow and support. Among them, 300 have been identified as "High potential" because of the progression of their turnover, their activity, and projects.

For the pilot action, we finally decided not to focus on a particular sector nor to a particular CE approach but to open it to all the interested companies.

The first criteria is the motivation of the CEO. We have noticed that companies that engage in the circular economy often do so out of the manager's conviction and it is the best way to get results.

- **Methodology**

This part shall provide an overview of the methodology that will be used to select and assist SMEs in their circular transformation (common to all pilots).

Please specify which tools will be used (among those listed in the toolkit – D.T2.3.3) and the justification for their selection.

We build our pilot actions on different levels:

- Circular industry path, the core of the pilot action, dedicated to support 25 SMEs with collective training and individual support
- Intervention in events organized by partners, during which we present our tools and the circular industry path
- Tools developed during the WP2, that are used to support the 25 SMEs but also other companies interested.
- Actions to raise awareness on CE internally.

The main action of our pilot action is the **Circular Industry Path**, aimed at raising awareness of SMEs on CE and helping them to define a roadmap to CE. It is a first step in CE, and this path has to be followed up by complementary support to implement the roadmap.

GOALS and ADDED VALUE For the SMEs:

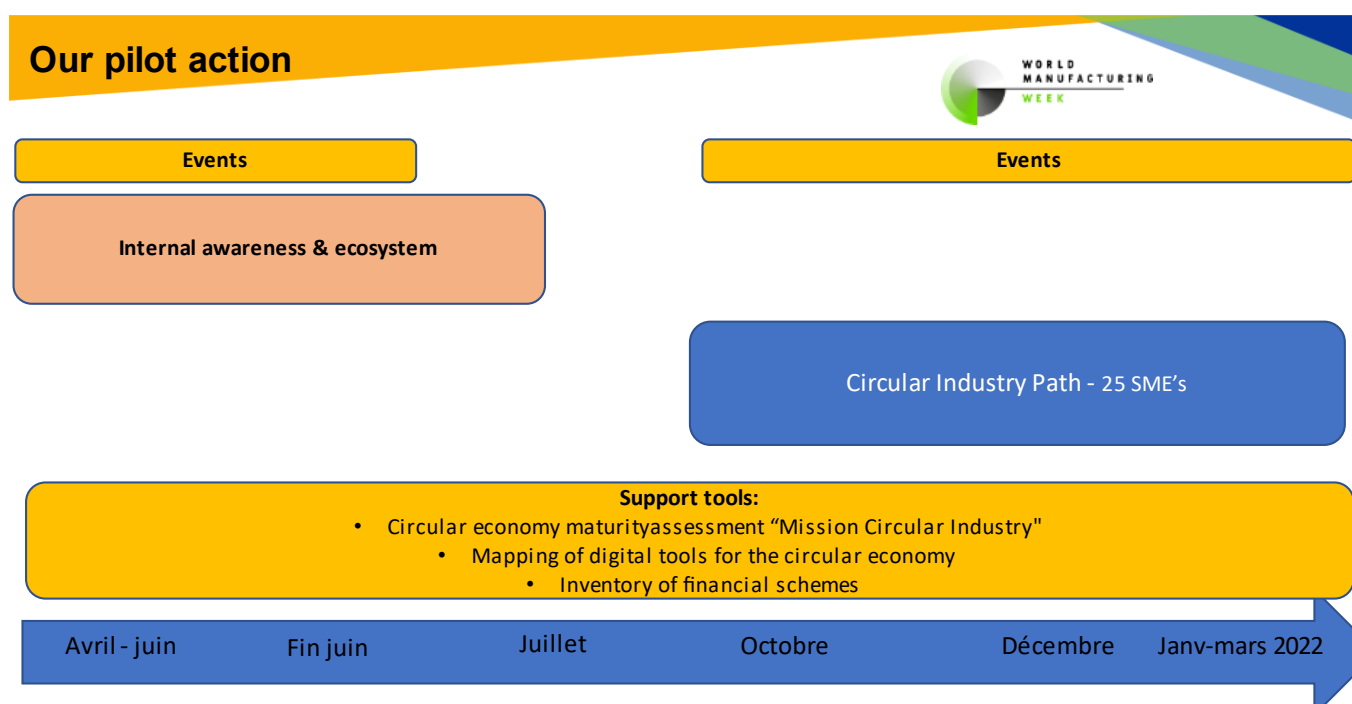
- Anticipate the challenges of ecological transition
- Understand what the circular economy is for industrial companies & identify opportunities
- Imagine how to integrate this concept into their business

- Identify if digital tools make it possible to facilitate its deployment
- Launch a meaningful project within the company
- Define their priorities and build a circular economy roadmap
- Differentiate and gain in competitiveness

The program is composed of these elements:

1. A webinar to introduce CE
2. CE Assessment
3. One-day training workshop
4. One day of individual support for each company by a consultant to define the action plan for the company,
5. Personalised **support by a project manager from AURA Entreprises** to deploy the action plan

⇒ **25 SMEs** engaged in the **pilot action Circular Industry path** that started at the end of August and will end by the end of the year



- **Expected results**

This section shall explain the benefit / added value expected for the SMEs.

With the program and pilot actions, the strategic objectives for our agency are to:

- Acquire tools to support companies towards the circular economy
- Propose complementary tools compared to already existing tools we already have to support SMEs
- Continue to build internal skills on these 2 priority themes: circular & digital economy

- Affirm our position in the ecosystem on these digital and circular economy topics

The pilot action will be successful if:

- The CEOs of the SMEs are motivated to carry on working on CE
- Companies have defined an action plan towards CE and have initiated at least 1 concrete action or a support program
- The program is followed by studies, investments, R&D programs

Planned activities

In this session, the activities planned for the roll-out of the approach described above shall be detailed. In order to have a significant degree of comparison among the different local pilot actions, we suggest using a set of common activities (= same title or heading, not the same methods). Those activities are the ones listed in the AF

15. Selection/identification of SMEs

We decided to open widely the circular industry path.

We first sent an e-mail (cf following page) to all our 300 high potential SME's. We thought they could be interested in exploring CE, and that the size and potential of the companies could be relevant. The project managers of the agency also relayed this offer to the companies they were referent for.

The companies had to fill in a formular to explain their motivation and stakes for CE.

One month later, 10 high potential companies had filled the formular.

We than decided to open the program to all the SMEs that are supported by our agency. The e-mail was sent to 10 000 companies and relayed also by the agency project managers.

In 2 days, 15 companies answered and we closed the inscriptions.



Auvergne Rhône-Alpes Entreprises



Parcours Industrie Circulaire

Intégrez les enjeux de demain dans votre business model
grâce à l'économie circulaire

20 PLACES

Gratuit, car financé par le dispositif Interreg Alpine Space

Transitions écologique et numérique sont deux enjeux majeurs pour les entreprises.

85% des industriels considèrent l'économie circulaire comme une opportunité !*



Et vous ?

L'Agence vous propose de participer à ce parcours de formation-action inédit. Court et pragmatique, il vous permettra de :

- Comprendre ce qu'est l'économie circulaire pour les entreprises industrielles & d'identifier les opportunités
- Imaginer comment intégrer ce concept dans l'entreprise
- Identifier si des outils digitaux peuvent faciliter son déploiement
- Définir vos priorités et construire une feuille de route économie circulaire

Démarrage à partir de juillet ! Date limite d'inscription 28 juin

En savoir plus **Inscrivez-vous**

(* source : étude Ineco – Opeo « Pivoter vers l'industrie circulaire », avril 2021 sondage mené auprès de 63 acteurs industriels)

Contact : Isabelle Clouet - iclouet@arae.fr | 06 70 90 59 92

16. Thematic workshops/seminars

This activity regroups the CAT2.0 or other training modules selected by the partners and addressed to SMEs.

The program is composed of these elements:

1. **A webinar to introduce CE:** by our CE expert: 2 sessions programmed: 24/08/21 and 12/10/21
2. **CE Assessment: online on our website** – each SME fills in the assessment before the training
3. **One-day training workshop:** by consultant OPEO to understand how to integrate CE in the business model of the company: 3 sessions programmed: 31/08; 1/09 and 19/10/2021
4. **One day of individual support for each company** by a consultant: to define the action plan for the company – From October 2021 to end of January 2022.
5. **Personalized support by a project manager from AURA Entreprises:** to deploy the action plan
The project managers also attend the one-day individual support and can contribute with their knowledge of the economic local actors, public programs or other interesting connections.

In April 2021, we published a tender to select consultants to:

- Lead the 3 trainings. We selected the consulting firm OPEO, that has a strong industry experience and had just published a survey called “Pivoting towards Circular economy” with the French national institute for CE.
- Support the companies. Due to the number of companies to support (25), we selected 5 consulting firms for their experience on CE and the methodology they proposed.

17. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs

This activity regroups the actions delivered to evaluate the CE and digital maturity of the SMEs. In this activity, the tools used should be specified.

We decided to mix CE and digital maturity in a single assessment we called **Mission « Circular Industry »** we developed internally, inspiring by the assessment proposed by IJS and other French tools. Our objective was to propose a simple and pragmatic tool adapted for SMEs.

This tool is available on our website: <https://auvergnerhonealpes-entreprises.fr/testez-votre-maturite-sur-leconomie-circulaire>

Through around forty questions, the company can assess its level of maturity in each of the circular economy's areas of action and consider whether digital tools can facilitate its deployment.

We developed the assessment on the Eval&Go platform, that can allow us to get easily a synthesis of the results.



VOS ENJEUX & LEVIERS

8. Quelle est votre niveau de connaissance actuel sur l'économie circulaire? *

☐ C'est un concept très flou, j'ai encore tout à apprendre

☐ Je connais plusieurs leviers mais ne l'ai pas encore mis en pratique dans l'entreprise

☐ Je connais bien le concept dans sa globalité et j'ai commencé à le déployer en partie dans l'entreprise

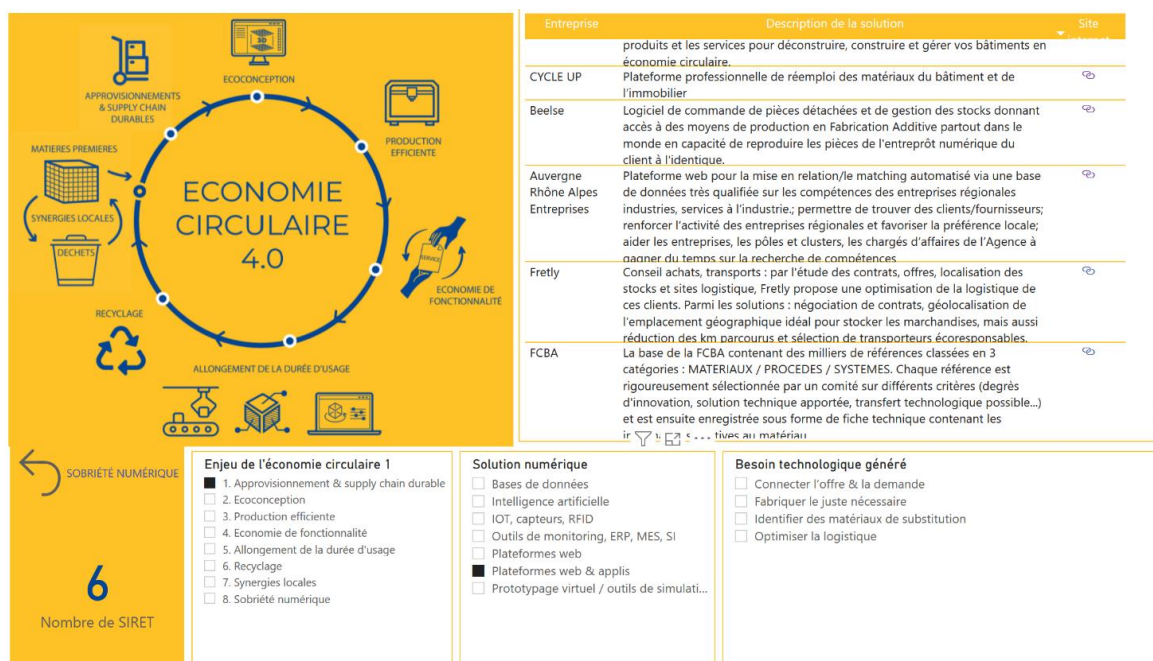
☐ Je maîtrise le sujet et j'ai déjà mis en pratique plusieurs leviers dans l'entreprise. Nous avons des offres qui contribuent à l'économie circulaire.

9. Quelles sont ou quelles seraient vos motivations pour aller vers l'économie circulaire? *

	non, pas du tout	non, pas vraiment	oui, en partie	oui, totalement
Conscience environnementale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sécurisation ou gain de parts de marché	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Améliorer la performance de l'entreprise / Réaliser des économies (réduction des coûts des matériaux, énergie, transport et traitement des déchets...)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Valorisation de l'image de l'entreprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunités d'innovation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modifications réglementaires récentes ou à venir (ex loi AGEC, loi transition énergétique...)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motivation des salariés et attrait de talents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For the digital part of the program, we also developed a **mapping of regional digital solutions** for the circular economy. We identified 100 solutions that meet the challenges of the circular economy, most of them are regional but we also added national solutions for very specific needs.

The solutions are presented on the PowerBI Platform.



18. Identification of innovation needs and investment plan

As discussed during the partner meeting on 02.11.2021, each company supported should receive a document established on the basis of the assessment and in collaboration with the SME (at least one bilateral meeting between the SME and an expert/consultant during the process) and encompassing at least one recommendation covering any of the following aspects of the transformation of the company towards higher circularity (= increase of maturity level)

- Technology adoption
- New or improved process
- New or improved or transformed business model
- New or improved products
- New or improved services
- Digitally supported (as far as possible)
- With a time horizon from 6 months up to 1 year

Consequently, this activity should describe the process for the draft of those recommendations, like for instance involvement of experts and setup of a roadmap (example for AURA-E).

Each of the above activity can be split into several steps (sub-activities) as relevant for each pilot action. But we recommend keeping it simple.

For the description of each activity (or sub-activity if relevant), we suggest using the following table:

Title	Name of activity	Start date	MM.YYYY
		End date	MM.YYYY
Description			
Describe here the activity			

Add sub-activities if necessary			
Results Note: the results (or deliverables) will need to be documented and reported upon in Activity T3.2 in the report for each local pilot action. They should therefore be formulated in a way that enables monitoring and documentation of the implementation.			
1	Example: 3 online workshops ...	Date	
2	Example: 1 call for applications	Date	
3	Example: 25 CE+digital maturity assessments of SMEs	Date	
n		Date	

Each company that follows the Circular Industry path has to sign a participation contract to commit to follow the support. This document also aims to promote the European funding of the program.

At the end of each individual one-day support, the deliverable of the consultant is:

- a roadmap to CE
- an action plan for the next 3-6 months

The Agency project managers contribute also by:

- identifying if complementary support is needed: other relevant public schemes or financing schemes.
- identifying if digital tools could be relevant to deploy the action plan, with the help of the mapping of the 100 solutions.

We prepared a specific document for these purposes that we enclosed in Annex ("Bilan & feuille de route").

At the end of the pilot action, we will be able to measure the number of companies:

- that followed the Circular Industry path
- that filled the "mission Circular industry" assessment and their CE maturity
- that launched new CE projects.

Indicators (KPIs) and monitoring

This section shall describe what are the measurable objectives (qualitative and quantitative indicators) of the pilot action and how the progress will be monitored. The selection/definition of indicators shall refer to deliverable D.T2.5.1 Evaluation methodology and D.T2.4.2 KPIs definition to assess the contribution of digitalisation on CE approaches (templates available on Teams – see also next page).

A basic indicator for all pilot actions is the number of SMEs targeted (~20 on average).

⇒ We will use the tool proposed below by the program at the end of the pilot action to measure the results.

Company dashboard																	
Full project partner dashboard																	
	CE Strategy/Business model		Commitment level Investments		Digital technologies awareness		Commitment level Investments		Other relevant item linked to the pilot action considered			Trainee level of satisfaction	Maturity improvement		Impact on CE related to the pilot action		
Goals	CE Readiness level assessment		Trainee motivation toward CE implementation		Digital Technology Readiness level assessment		Financial effort foreseen during the pilot action				Satisfaction level on tools and trainings provided	Project maturity phase to be reached *		Circular metrics to be improved *		
Phase	Initial State	Outputs	Initial State	Outputs	Initial State	Outputs	Initial State	Outputs	Initial State	Outputs		Quality of trainers and tool, relevance, applicability ...	Initial level	Level reached	Initial measure	Results achieved **	
Means indicator *																	
Comments **	Describe the inputs needed	Describe what has been done	Describe the inputs needed	Describe what has been done	Describe the inputs needed	Describe what has been done	Describe the inputs needed	Describe what has been done	Describe the inputs needed	Describe what has been done			Describe the Improvement		Describe the Improvement		

ANNEX - CIRULAR INDUSTRY PATH



Participez à un parcours de formation-action gratuit pour intégrer les enjeux de demain dans votre business model, grâce à l'économie circulaire.

✓ 85%* DES INDUSTRIELS CONSIDÈRENT L'ÉCONOMIE CIRCULAIRE COMME UNE OPPORTUNITÉ !

ET VOUS ?

Transitions écologique et numérique sont deux enjeux majeurs pour les entreprises.

Une gestion efficace de vos ressources peut vous permettre de tendre vers une industrie flexible, performante et responsable. À cet effet, l'économie circulaire et les outils digitaux sont de précieux leviers pour repenser vos procédés, produits et services.

Dans le cadre du programme européen Circular 4.0, Auvergne-Rhône-Alpes Entreprises vous propose un parcours de formation-action inédit pour engager votre entreprise vers l'économie circulaire.



*source : étude Inec - Opeo « Pivoter vers l'industrie circulaire », avril 2021 sondage mené auprès de 63 acteurs industriels

POUR QUI ?

- 20 Entreprises industrielles situées sur le territoire de l'ex région Rhône-Alpes, souhaitant identifier les opportunités offertes par l'économie circulaire et désirant s'engager dans cette démarche
- Dirigeants ou membres de comités de direction

POURQUOI PARTICIPER AU DISPOSITIF ?

- Anticiper les enjeux de la transition écologique
- Comprendre ce qu'est l'économie circulaire pour les entreprises industrielles & identifier les opportunités
- Imaginer comment intégrer ce concept dans son entreprise
- Identifier si des outils digitaux permettent de faciliter son déploiement
- Lancer un projet porteur de sens au sein de votre entreprise
- Définir vos priorités et construire une feuille de route économie circulaire
- Vous différencier, gagner en compétitivité



CONTENU

- Un webinaire d'introduction à l'économie circulaire
> 2 sessions : 24 août - 14 octobre
- Un diagnostic « Mission Industrie circulaire » pour tester votre maturité sur le sujet
- Un atelier de formation d'une journée autour de mises en situation et cas pratiques pour identifier les opportunités offertes par l'économie circulaire & les clés pour l'intégrer au modèle de l'entreprise
L'atelier sera animé par le cabinet OPEO et se basera sur de nombreux exemples tirés de l'étude « Pivoter vers l'industrie circulaire », menée auprès de 63 industriels.
> 3 sessions : 31/08 : Le Bourget du lac - 01/09 : Lyon - 19/10 : Lyon
- Une journée d'accompagnement individualisé par un consultant expert pour définir votre feuille de route économie circulaire.
> À partir de septembre

À l'issue du programme, l'Agence vous propose un accompagnement personnalisé pour la mise en œuvre de la feuille de route établie (mise en relation partenariales, prescription de dispositifs d'accompagnement et financiers, recherche d'outils digitaux pertinents pour faciliter le déploiement de l'économie circulaire).
> À partir de septembre

DATE LIMITE D'INSCRIPTION :

20 JUILLET 2021

POUR EN SAVOIR PLUS :

Isabelle CLOUET
iclouet@arae.fr - 06 70 90 59 92

Formulaire de candidature :

<https://cutt.ly/hbdAnH>

Nombre de places disponibles : 20

ENTREPRISE :

ACTIVITE :

CONTACT (Nom & fonction) :

Date du bilan :

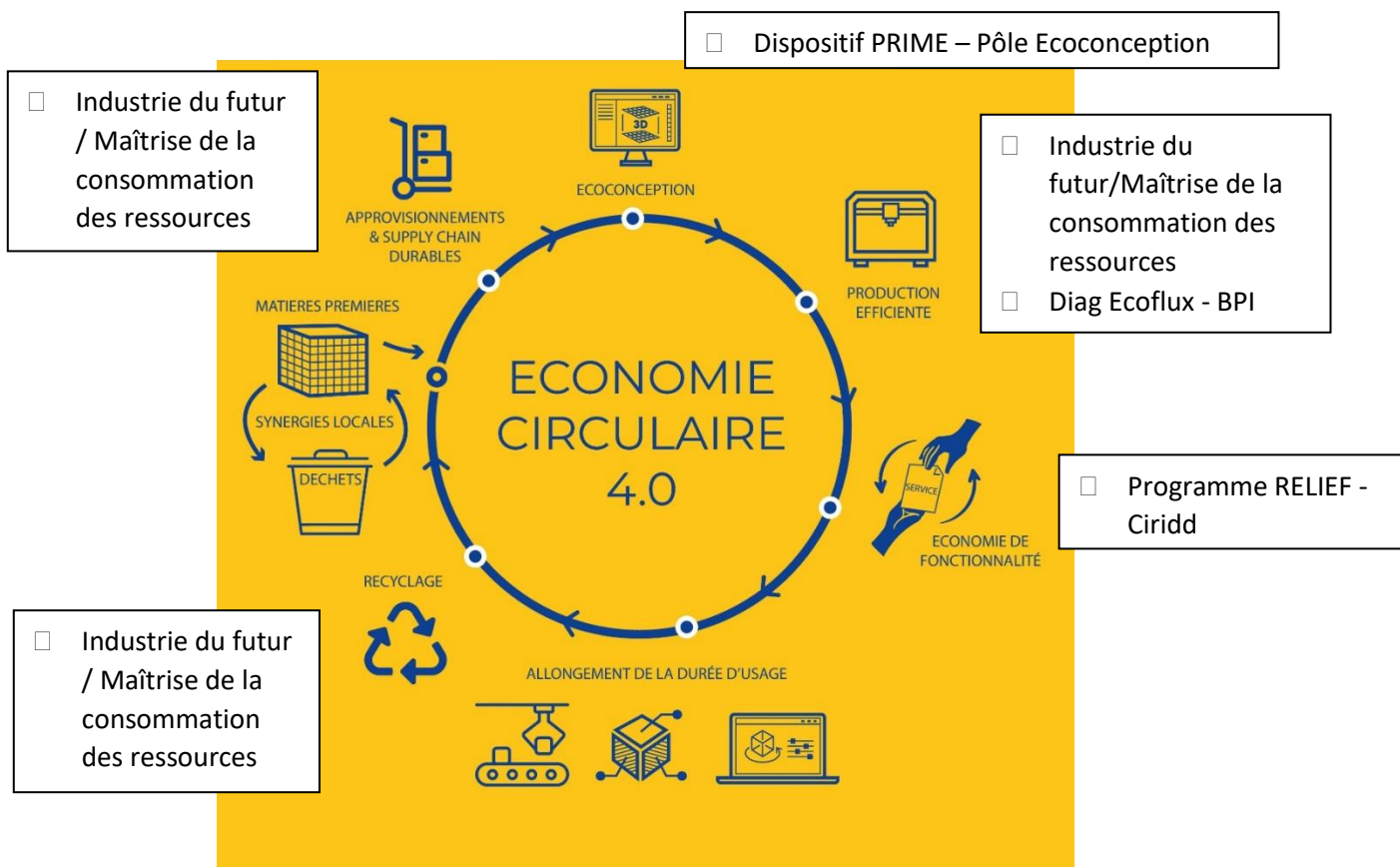
NOTRE FEUILLE DE ROUTE ECONOMIE CIRCULAIRE (*format libre selon méthodologie consultant*)

Plan d'actions pour les 3 à 6 prochains mois :

Besoins d'accompagnement complémentaire :

Pour mener à bien sa feuille de route, quels sont les besoins d'accompagnement complémentaires de l'entreprise ?

A-t-elle besoin de compléter l'accompagnement par l'un des programmes suivants ?



Plus d'informations sur les programmes :

- ☐ Industrie du futur / Maîtrise de la consommation des ressources : file:///C:/Users/ICLOUE~1.AGE/AppData/Local/Temp/INDUSTRIE_DU_FUTUR_AMELIORATION_PROCEDES_PRODUIRE.pdf
- ☐ Dispositif PRIME – Pôle Ecoconception : <https://www.eco-conception.fr/static/PRIME-ecoconception-AURA.html>
- ☐ Programme RELIEF – CIRIDD : <https://www.ciridd.org/appui-a-l-innovation-et-animation-territoriale#relief>
- ☐ Diagnostic EcoFlux BPI: <https://diagecoflux.bpifrance.fr/>

QUESTIONNAIRE DE SATISFACTION:

CONTACT (Nom & fonction) :

	- -	-	+	++
Comment évaluez-vous le contenu de la formation ?				
Connaissance du sujet et pédagogie de l'intervenant				
Comment évaluez-vous le contenu de la journée d'accompagnement individuel?				
Connaissance du sujet et pédagogie de l'intervenant				
Que pensez-vous du degré de transfert dans votre entreprise ?				
Ce parcours vous a t'il fourni des outils pratiques et méthodologiques pour avancer vers l'économie circulaire?				
Comment évaluez-vous l'organisation du parcours ? (durée, logistique...)				
Ce parcours a t'il répondu à vos attentes ?				

Commentaires :

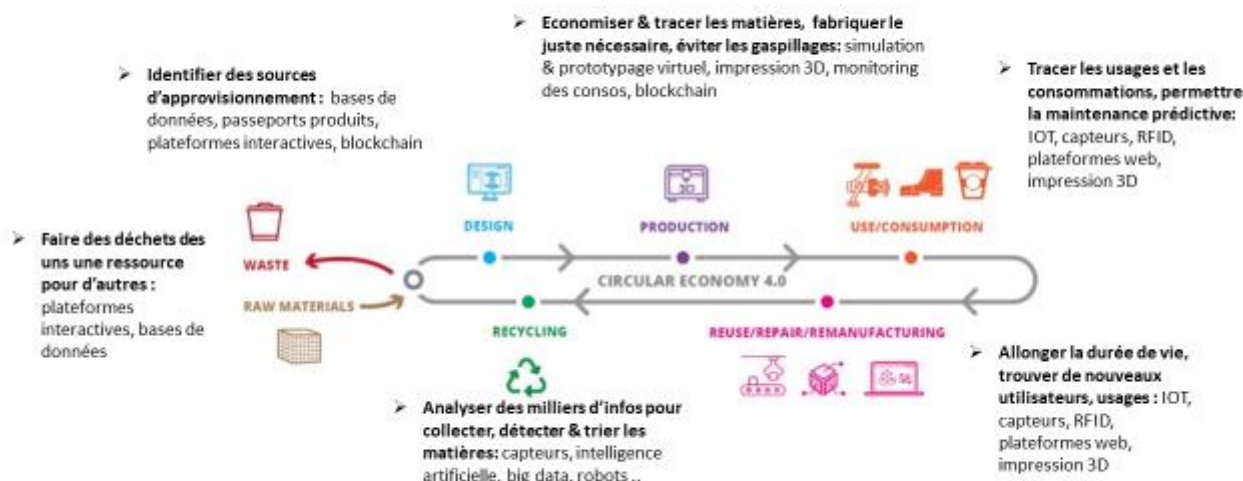
Suggestions d'améliorations :

1. Outils numériques pour l'économie circulaire?

Au regard de la feuille de route et des projets de l'entreprise, y a-t-il des outils numériques qui pourraient faciliter le déploiement de l'économie circulaire ?

L'économie circulaire au fil du cycle de vie des produits

Interreg
Alpine Space
Circular4.0



Auvergne
Rhône-Alpes
Entreprises

Présentation Auvergne-Rhône-Alpes Entreprises | 24/09/2021

4

Solutions numériques pour l'économie circulaire

Auvergne
Rhône-Alpes
Entreprises



7

Entreprise / Solution	Description de la solution	Développeur	Site internet
PRESTACTIVS - OPEN STUDIO	Chaînes de valeurs productives, les entreprises se connectent pour créer des données ouvertes.		
CIRCULUP	Plateforme professionnelle de réutilisation des matériaux du bâtiment et de l'automobile.	Paris	10
THARCO BUSINESS	Plateforme web pour la mise en relation et le matching automatisé via une base de données 360° basée sur les compétences des entreprises régionales, industrielles, services & tertiaires, permettant de trouver des clients/fournisseurs, renforcer l'activité des entreprises régionales et favoriser la performance locale, aider les entreprises, les petites et moyennes, les startups d'affaires de l'agriculture à gagner du temps sur la recherche de compétences.	Rhône	10
RE-SOURCE	Re-Source se présente comme une place de marché digitale vous permettant de vous fournir en matériaux de construction dans les villes des artisans et entrepreneurs de la construction proches des chantiers. Des matériaux, vendus au circuit classique par entre-preneurs locaux à la ferme, ou en lot.	Rhône	10

2. Bilan des actions réalisées par l'entreprise suite au parcours Industrie circulaire

Project Acronym: Circular 4.0

Project title: **Digital technologies as enabler to foster the transition to the circular economy by the SME in the Alpine Space area**

A.T3.1

Planning digitalised CE processes in Alpine Space area addressed to SMEs

Template for description (plan) of Local pilot actions (for use in D.T3.1.1/2/3)

WP n°: T.3.	Fostering CE processes in Alpine Space with digitalisation processes
Task n°: T.3.1	Planning digitalised CE processes in Alpine Space area addressed to SMEs
Author(s):	Lara Trikha, Luc Schmerber, bwcon Dr. Eva Schichl, UCB
Contributors:	Roberto Sandrini, TPLJ

Type: **T -Template/ R- Report, Rising SUD**

Dissemination level: **CO = confidential**

Revision: **DRAFT 02**

Due Date:

Date of submission:

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2. Planned activities..... 11

3. Indicators (KPIs) and monitoring..... 13

Overview of the local pilot action - Région SUD Provence-Alpes-Côte d'Azur (RisingSUD)

- **Local context and CE approach**

As risingSUD was a member of the Ecodesign transnational working group, this approach was kept while selecting the companies and coaching them. The aim was to look at the earliest stage of the lifecycle of products and services offered by the companies. However, some sectors were added to the initial list of sectors targeted. Initially, risingSUD targeted the food and water sector. If some companies belonged to that sectors other were added, consistent with 3 of the 8 key strategic sectors of Région SUD Provence-Alpes-Côte d'Azur: Natural living (including food and water), Blue economy and Industry.

- **Methodology**

The program is composed by two different parts:

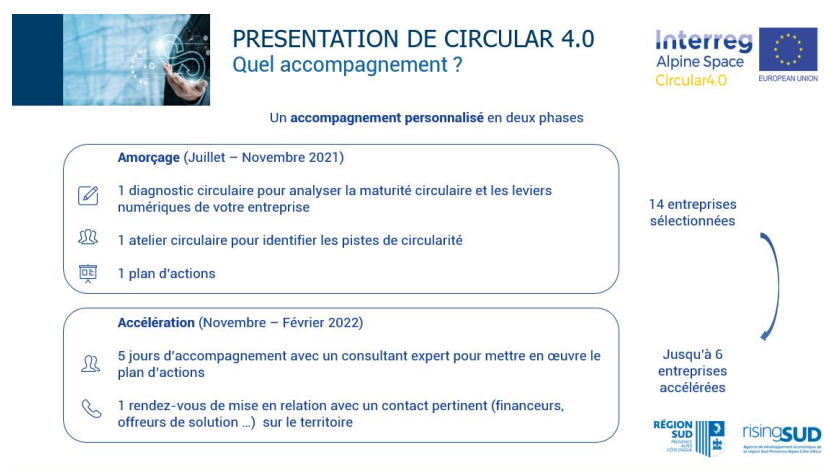
1- Initiation (11th June- 19th of November)

5 collective online workshops are organised covering module 0,1 and 3 of the CAT, with a slight adaptation with an adapted auto diagnosis. It is open to all companies with no selection process. The workshop was organised in close cooperation with OPEO and Institut national de l'économie circulaire, two organisations that are experts in circular economy. The goal was twofold: assess the maturity of the companies in the region, and inform them about the potentialities of circular economy, and Circular4.0 project.

Several on site one-to-one workshops covering module 2, 4, 5 with a restitution workshop to validate with the company the transformation plan covering modules 6, 7. These workshops meetings are either animated by risingSUD and its partner the Chamber of Commerce of Provence-Alpes-Côte d'Azur. Companies apply with an Expression of interest. The applications of the companies are validated by a selection committee composed by members of Région SUD Provence-Alpes-Côte d'Azur and risingSUD.

2- Acceleration (19th of November- 28th of February)

Selected companies selected among the companies of the first phase benefit from a one-to-one support by an expert selected through a dedicated tenure to implement one prioritary action of the action plan. The companies benefit from 5 days of consulting services.



- **Expected results**

After the “Initiation phase” phase, companies should:

- Understand, rethink and accelerate their transition toward circular economy thanks to the online workshop
- Have a diagnostic report on their circular and digital maturity
- Have a complete transformation plan and know what actions to undertake on their own, require further assistance to be implemented.

After the “Acceleration” phase, companies should have worked with a consultant on one priority action of the action plan and get at least one contact with an investor or solution provider.

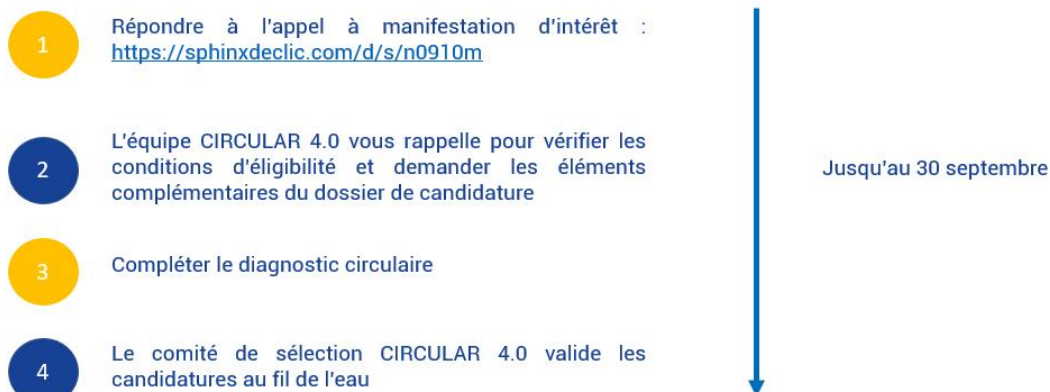
Planned activities

19. Selection/identification of SMEs

Title	Identification / identification of SMEs	Start date	06.2021
		End date	10.2021
Description			
risingSUD launches a series of collective online workshops between June and October 2021, in order to inform companies about the potentialities of circular economy, and Circular4.0 project.			
During this period of time, the selection committee meets several time to select the companies that will benefit from the one-to-one coaching service. This committee is composed by member of risingSUD and members of Région SUD Provence-Alpes-Côte d’Azur.			
Results			
4 online workshops			
14 companies to be selected			
1	Online workshop #1	Date	06.2021
2	Online workshop #2	Date	06.2021
3	Launch of the call for applications	Date	06.2021
4	Online workshop #3	Date	07.2021
5	Selection committee #1	Date	07.2021
6	Selection committee #2	Date	10.2021
6	Online workshop #4	Date	09.2021
7	Selection committee #3	Date	09.2021
9	Selection committee #4	Date	10.2021



L'ACCOMPAGNEMENT CIRCULAR 4.0 Comment candidater ?



20. Thematic workshops/seminars

This activity regroups the CAT2.0 or other training modules selected by the partners and addressed to SMEs.

Title	Collective workshop for the selected SMEs	Start date	10.2021
		End date	11.2021
Description For the selected companies that did not attend the online workshop, a specific session is organised. The goal is the same that the previous online workshop: inform companies about the potentialities of circular economy.			
Results 1 online workshop			
1	Online workshop #5	Date	10.2021

Title	One-to-one workshops and transformation plans	Start date	10.2021
		End date	11.2021
Description			

For the selected companies, one-to-one workshops are organised to coach individually the companies toward more circular business models. These workshops are adapted according to the level of maturity of the project as described in the CAT: either a workshop of identification of the sources of circularity in their organisation and business model or an assessment of the potential of the transformation project.

Results

14 one-to-one workshops to identify with the company the sources of circularity / assess the potentiality of the potential transformation project

14 transformation plans with one priority action

1	Launch of the one-to-one workshops and transformation plans	Date	09.2021
2	End of the one-to-one workshops and transformation plans	Date	11.2021

Title	Final selection of SMEs the implementation of the priority action of the transformation plan	Start date	11.2021
		End date	11.2021

Description

The selection committees meet one last time to select the companies that will benefit from the one-to-one assistance to implement their transformation plan. To be selected for this second phase, companies must fill a letter of intent describing the priority action to put in place and committing to full investment to the program.

Results

6 companies to be selected

1	Selection committee #1	Date	11.2021
---	------------------------	------	---------

Title	Implementation of the priority action of the transformation plans	Start date	11.2021
		End date	03.2022

Description

The final selection of companies benefits from 5 days of assistance by an expert to implement the priority action identified in the action plan. The experts are selected by risingSUD after a tenure, based on their quality of their proposal, their competence in the field as well as the price.

Results

6 priority actions of the action plan implemented

1	Launch of the tenure for experts to assist companies	Date	11.2021
---	--	------	---------

2	Selection of the experts	Date	12.2021
3	Launch of the One-to-one assistance for the implementation of the transformation plans	Date	12.2021
4	End of the one-to-one assistance for the implementation of the transformation plans	Date	03.2022

21. Circular CE capability/potentiality and Digital Maturity Assessment of SMEs

To assess the Circular and the digital maturity, risingSUD uses a diagnosis derived from the tool built from the project. It was built in close cooperation with the French partners of the project to adapt to the specificities of the three regions (language, size of companies etc.). This diagnosis indicates:

- the leverage to be used in order to remove the breaks to initiative or accelerate the transition towards circular economy

- some initial lines of enquiry for the sources of circularity in their business model and organisation

- the application potential of digital tools to facilitate the implementation of circular economy actions

risingSUD uses the online tool “eval&go” to enhance the accessibility of the diagnosis and get a clean report.

Companies can fill the questionnaire either with the help of risingSUD during the collective online workshop or a one-to-one workshop, or by themselves. In any case, a [link](#) to access the questionnaire is provided to them to access the online questionnaire.

Each company assessed with this diagnosis receives a detailed report with some elements of analysis.



22. Identification of innovation needs and investment plan

As described before after the “Initiation phase” phase, companies should receive a complete transformation plan (from 6 to 12 months) mentioning which actions to undertake on their own, and which actions require further assistance to be implemented. This transformation plan is the result of the one-to-one workshop with the company, and may encompass either new or improved process, products, services or business model. It may be digitally supported if necessary and may require the adoption of a new technology.

This transformation plan is given to the company in the form of a PowerPoint presentation or a word document.

After the “Acceleration” phase, companies should have worked with a consultant on one priority action of the action plan and get at least one contact with an investor or solution provider.

Indicators (KPIs) and monitoring

RisingSUD will use the data retrieved by diagnosis tool at the beginning to measure an initial level of maturity on the circular and digital aspects and compare it with the results with selected questions from the same diagnosis tool at the end of the pilot action. It will be associated with questions analysing the progress regarding the main challenges identified, as well as the future actions of the action plan to be implemented. Finally, general question will be added to improve the support scheme, and possible ways of improvements.

Program Priority: SO1.1 - Improve the framework conditions for innovation in the Alpine Space

Work Package: WPT3 Fostering CE processes in Alpine Space with digitalisation processes

Activity: A.T3.2 Experimenting transnational actions to foster CE approaches through digitalisation

Deliverable: D.T3.2.1 Local actions to implement CE Design Model approaches with digitalisation processes

Reporting on local pilot actions – Auvergne-Rhône-Alpes Entreprises

Author: Charlotte Rix Nicolajsen, PP9 – Auvergne-Rhône-Alpes Entreprises

Version: FINAL

Month, YEAR: June, 2022

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1. Introduction

The present deliverable displays for the local pilot action in AUVERGNE RHONE ALPES the:

- activities delivered,
- results achieved,
- lessons learned to foster CE approaches through digitalization.

Our agency is missioned by the Auvergne-Rhône-Alpes Region to support companies of the industry and service to industry sectors.

We build our pilot actions on different levels:

- Circular industry path, the core of the pilot action, dedicated to support 25 SMEs with collective training and individual support
- Tools developed during the WP2, that are used to support the 25 SMEs but also other companies interested.
- Intervention in events organized by partners, during which we present our tools and the circular industry path
- Actions to raise awareness on CE internally.

The main action of our pilot action is the **Circular Industry Path**, aimed at raising awareness of SMEs on CE and helping them to define a roadmap to CE. It is a first step in CE, and this path has to be followed up by complementary support to implement the roadmap.

2. Local pilot actions in Auvergne-Rhône-Alpes (Auvergne-Rhône-Alpes Entreprises) - Overview

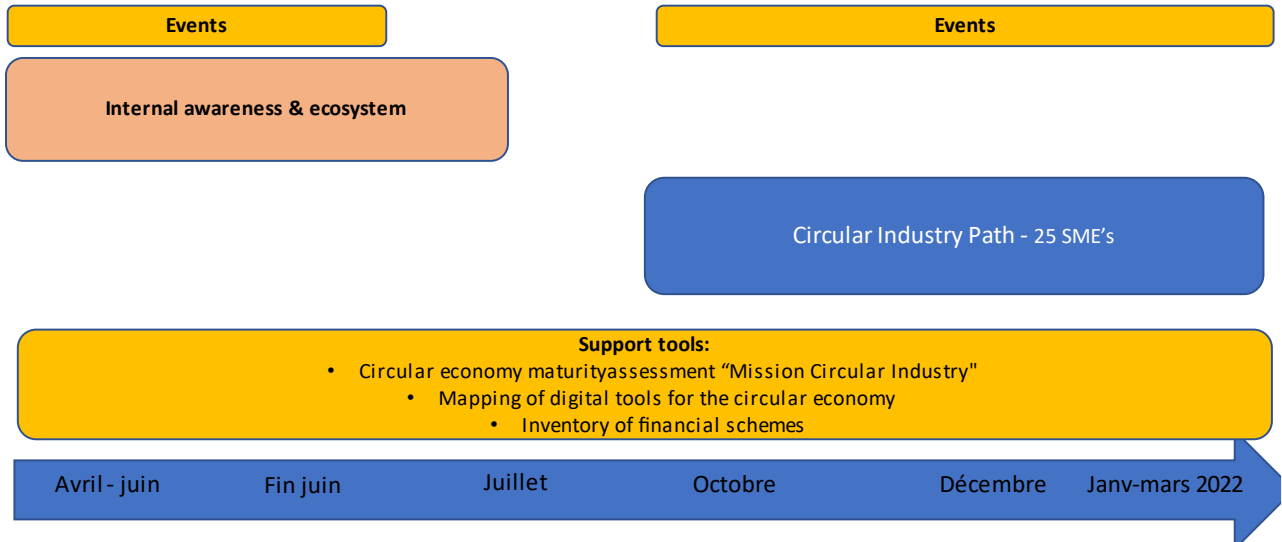
With the program and pilot actions, the strategic objectives for our agency are to

- Acquire tools to support companies towards the circular economy
- Propose complementary tools compared to already existing tools we already have to support SMEs
- Continue to build internal skills on these 2 priority themes: circular & digital economy
- Affirm our position in the ecosystem on these digital and circular economy topics

The pilot action will be successful if:

- The CEOs of the SMEs are motivated to carry on working on CE
- Companies have defined an action plan towards CE and have initiated at least 1 concrete action or a support program
- The program is followed by studies, investments, R&D programs

Our pilot action



Circular Industry Path - GOALS and ADDED VALUE For the SMEs:

- Anticipate the challenges of ecological transition
- Understand what the circular economy is for industrial companies & identify opportunities
- Imagine how to integrate this concept into their business
- Identify if digital tools make it possible to facilitate its deployment
- Launch a meaningful project within the company
- Define their priorities and build a circular economy roadmap
- Differentiate and gain in competitiveness

3. Identification and involvement of the SMEs for the Pilot Action

We have identified 10 000 SME's that have significant size or activity that we follow and support. Among them, 300 have been identified as "High potential" because of the progression of their turnover, their activity, and projects.

For the pilot action, we finally decided not to focus on a particular sector nor to a particular CE approach but to open it to all the interested companies.

The first criteria is the motivation of the CEO. We have noticed that companies that engage in the circular economy often do so out of the manager's conviction and it is the best way to get results.

- We decided to open widely the circular industry path.
- We first sent an e-mail (cf Annex) to all our 300 high potential SME's. We thought they could be interested in exploring CE, and that the size and potential of the companies could be relevant. The project managers of the agency also relayed this offer to the companies they were referent for.
- The companies had to fill in a formular to explain their motivation and stakes for CE.
- One month later, 10 high potential companies had filled the formular.
- We than decided to open the program to all the SMEs that are supported by our agency. The e-mail was sent to 10 000 companies and relayed also by the agency project managers.
- In 2 days, 15 companies answered and we closed the inscriptions.

Each company that followed the Circular Industry path had to sign a participation contract to commit to follow the support. This document also aims to promote the European funding of the program. We also established a minimis declaration for each SME to be sure it was eligible to this scheme.

At the end of each individual one-day support, the deliverable of the consultant is:

- a roadmap to CE
- an action plan for the next 3-6 months

The Agency project managers contribute also by:

- identifying if complementary support is needed: other relevant public schemes or financing schemes.
- identifying if digital tools could be relevant to deploy the action plan, with the help of the mapping of the 100 solutions.

4. Implementation report

This chapter consists of a **detailed reporting** on the activities performed. It should address all the activities (planned initially or added during the implementation) by building on the detailed description of activities used in activity A.T3.1.

Important: Technically speaking, additional activities with respect to the original plans (D.T3.1) are also “deviations”. A specific paragraph has been added for deviations.

⇒ **24 companies engaged in the program and participated to the activities 1 to 3.**

ADVANCE XL	74	small leather goods and made-to-measure luggage	Textile
FORMES ACTIVES	73	injection moulding of plastic parts	Plastics
IDM	73	Spare parts for mountain resorts	Plastics
SARL PLIALPES	38	Bending and shaping of steel parts	Metallurgy
CIFEA-MKG	74	Customer relationship management agency	Marketing
Squadrone System	38	Design and manufacture of industrial drones	Electronics
CT2MC	73	Composite & robotics	Electronics
The Rice Company	38	Importer, distributors of biological products - manufacturing on site from October 2022	Agri-food
VIRGIN BIO PACK	38	Eco-designed packaging	Packaging
MITHIEUX	73	Surface treatment	Metallurgy
RAF (RHONE-ALPES-FLEXIBLES)	1	Manufacturer of hydraulic hoses	Metallurgy
BIGNON DERVAUX	42	Manufacture of luxury embroidered household linen	Textile
FOLAN	69	Data infrastructure specialist	Electronics
VOLX Climbing	69	Manufacturers of climbing holds	Outdoor
SAPPI	69	Surface coating	Metallurgy
Lyon Velvet	69	Velvet weaving, dyeing and finishing	Textile
OUVRY SAS	69	PPE manufacturing	Textile

MIXEL SAS	69	Manufacture of industrial mixers	metallurgy
ROBUR	69	MANUFACTURER OF WORK CLOTHES	Textile
INNOVTEC INDUSTRIES	1	Integration of automated and robotic machines	Electronics
OLIVO	42	Manufacture of isothermal containers	Plastics
Tivoly	73	Cutting tools	Metallurgy
CHROMELEC	38	Surface treatment	Metallurgy
ACOUSTEAM	38	Manufacturer of flexible acoustic solutions	Plastics

Circular Industry Path - Collective Training

Title	CIRCULAR INDUSTRY PATH - COLLECTIVE TRAINING	Start date	24/08/21
		End date	19/10/21
Description			
<p>Describe here the activity as it was implemented:</p> <p>The first step of the circular industry path was the collective training, decomposed in 2 steps:</p> <ol style="list-style-type: none">1. Webinar : introduction to CE<ul style="list-style-type: none">• 2 sessions programmed : 24/08 & 12/10/2021• Introduction to CE for each company entering the program• Animation by our Agency• Program:<ul style="list-style-type: none">○ What is the circular economy and issues for businesses ?○ Integrating the circular economy in the company○ Digital technology for the circular economy○ The circular industry program○ Mission Circular Industry" diagnostic2. One-day training workshop<ul style="list-style-type: none">• by consultant OPEO to understand how to integrate CE in the business model of the company:• 3 sessions programmed: 31/08; 1/09 and 19/10/2021• Objectives:<ul style="list-style-type: none">○ Understand the opportunities offered by the circular economy○ Identify concrete levers to change your model (industrial, offer, product)○ Become aware of the obstacles and conditions for a successful transformation• Program:<ul style="list-style-type: none">○ Principles and benefits of circularity○ Secure your supplies○ Pivoting business model○ Product design for circularity			

- 4.0 at the service of circularity
- Getting into motion



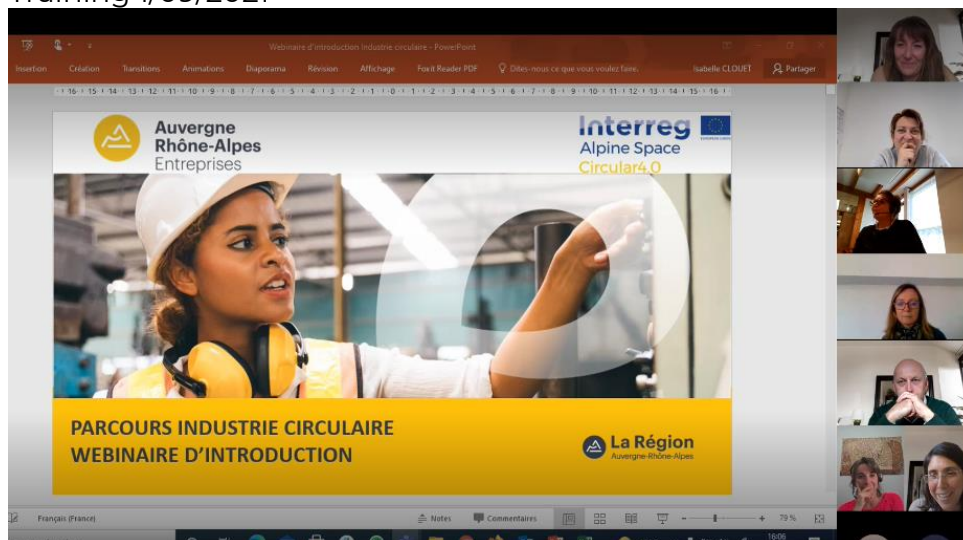
Training 31/08/2021



Training 19/10/2021



Training 1/09/2021



Webinar – Introduction to CE

Results

Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).

1	Webinars: <ul style="list-style-type: none"> • Session 1: 15 participants • Session 2: 5 participants One-day training workshop <ul style="list-style-type: none"> • Session 1 – Savoie - 10 participants • Session 2 – Lyon – 8 participants • Session 3 – Lyon – 9 participants 	Date	24.08.2021 12.10.2021 31.08.2021 1.09.2021 19.10.2021
2	<ul style="list-style-type: none"> • The satisfaction of the participants has been measured at the end of the training with the a final round of discussions and in the evaluation questionnaire (cf Achievement part). 	Date	
3	Documentation: <ul style="list-style-type: none"> • 	Date	
Deviations – corrective measures (as occurring) - No deviation			

Circular Industry Path - CE & digital Assessment

Title	CIRCULAR INDUSTRY PATH - CE & digital Assessment	Start date	24/08/21
		End date	19/10/21
Description We decided to mix CE and digital maturity in a single assessment we called Mission « Circular Industry » we developed internally, inspired by the assessment proposed by IJS and other French tools. Our objective was to propose a simple and pragmatic tool adapted for SMEs. This tool is available on our website: https://auvergnerhonealpes-entreprises.fr/testez-votre-maturite-sur-leconomie-circulaire Through around forty questions, the company can assess its level of maturity in each of the circular economy's areas of action and consider whether digital tools can facilitate its deployment. We developed the assessment on the Eval&Go platform, that can allow us to get easily a synthesis of the results. ⇒ Each SME has filled in the assessment before the training			

Results			
Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).			
1	<ul style="list-style-type: none"> • Example of the results of a company : see Annex • The answers to the questions and results were used by the consultant to prepare the individual support 	Date	dd.mm.yyyy
Deviations – corrective measures (as occurring)			
Please describe and explain below the deviations compare to the initial plan:			
<ul style="list-style-type: none"> - Delays - Significant changes in the activities (activities cancelled, new ones included) - Explain corrective measures taken (if any) 			

Circular Industry Path - Individual Support

Title	CIRCULAR INDUSTRY PATH - INDIVIDUAL SUPPORT	Start date	6/10/21
		End date	25/02/2022
Description			
<ol style="list-style-type: none"> 1. One day of individual support for each company by a consultant: to define the action plan for the company – From October 2021 to end of February 2022. This day was preceded by a framing interview to define the objectives and program of the support. 2. Personalized support by a project manager from AURA Entreprises: to deploy the action plan The project managers also attended the one-day individual support and can contribute with their knowledge of the economic local actors, public programs or other interesting connections. 			
Results			
Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).			

1	<ul style="list-style-type: none"> After the one-day support, each consultant wrote and shared with the company the document "Roadmap and action plan for CE" 	Date	
2	<ul style="list-style-type: none"> 	Date	
3	<ul style="list-style-type: none"> 	Date	
n		Date	
Deviations – corrective measures (as occurring) Please describe and explain below the deviations compare to the initial plan: <ul style="list-style-type: none"> - Delays - Significant changes in the activities (activities cancelled, new ones) - Explain corrective measures taken (if any) 			

Events

Title	EVENTS	Start date	24/08/21
		End date	20/01/22
Description Presentation of the CE & digital Assessment during workshops : 8/10/2021 - Circular economy forum of the Chablais 20/01/2022 - Workshop during our Agro-Industry Day Organization of a workshop : Hackaton: "Data to pivot towards sustainable industry, at the scale of a territory". <ul style="list-style-type: none">• Workshop #1: Tuesday, November 30 from 9:00 a.m. to 1:00 p.m.• Workshop #2: Tuesday, December 7 from 9:00 a.m. to 1:00 p.m.			
Results Please list below the results achieved, including the items available for documentation of the results (those items shall be put in the annexes to the deliverable).			
1	Presentation of the CE & digital Assessment during workshops : 8/10/2021 – Circular economy forum of the Chablais: 7 participants 20/01/2022: workshop during our Agro-Industry Day: 20 participants	Date	dd.mm.yyyy

2	Example: 1 call for applications <ul style="list-style-type: none">• Copy of publication (website, newsletter, ...)	Date	
3	Example: 25 CE+digital maturity assessments of SMEs Documentation: <ul style="list-style-type: none">• List of SMEs having performed an assessment• Overview of the results	Date	
n		Date	
Deviations – corrective measures (as occurring) Please describe and explain below the deviations compare to the initial plan: <ul style="list-style-type: none">- Delays- Significant changes in the activities (activities cancelled, new ones)- Explain corrective measures taken (if any)			

5. Deviations from the pilot action plan (D.T3.1)

We decided to focus our pilot action on CE to support SME's in launching the CE approach, and then to assess with them whether digital solutions could help for the implementation.

For this purpose, we had built a mapping of local digital tools for CE, with around 100 solutions.

At this stage of the program, this mapping has been little used because:

- it is too soon, the project needs to be more defined,
- after 1 day support, this need has not been identified

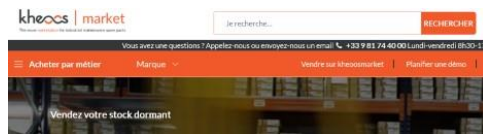
Moreover, CE projects do not need necessarily digital tools.

During the closing workshop of April 1st, we though gave examples of digital platforms that could be useful for the SME's to implement CE:

- to Identify local suppliers: Phareco business
- to find product data for ecodesign: Base Impacts Ademe
- to build repair parts in 3D: Beelse
- to find Maintenance parts, second-hand electronic parts: Kheoos, Ecospare, REI Industry
- to pool production capacities, equipment: Entrepairs
- to move to a business model based on use of the product: Lizee
- to buy second hands IT: Afb

Examples of digital solutions

📍 Maintenance parts, second-hand electronics :



<https://kheosmarket.com>



<https://ecospare.fr>



<https://www.reiindustry.fr>

Automates & contrôle commande
Composants électriques
Composants électroniques
Mécanique et outillage
Écrans affichage
Informatique industrielle

6. Communication activities implemented to support the pilot action

We posted on LinkedIn after the trainings or individual support in SME's to communicate on the pilot action and also promoted the path in the different events on CE we participated (ex in the Solucir Network)



7. Summary of the achievements - lessons learnt

Achievements

The contributions of the program and the actions carried out by the SME's:

Structuring of the circular economy approach:

- Formalization of actions already carried out on the circular economy by the company & definition of additional actions

- Structuring and systematization of the eco-design approach: realization of a life cycle analysis to confirm the expected environmental gains, tests & numerical simulations to validate the new product characteristics.

Improvement actions to optimize processes / reduce waste:

- Search for production waste recovery solutions and local partners
- Exploration of innovative ways of recovering production waste
- Reporting to quantify waste generation and energy consumption

Projects already imagined by the company, worked during the day:

- Launch of a local supply chain
- Launch of a new ethical and virtuous marketing offer
- Valorization of ski lift tires in floor mats
- Recycling of insulated containers and reintegration into the process
- Creation of an offer around the economy of functionality (textile pro)

New leads identified during the day after creative work:

- Exploration of new economic models around the functional economy : create new kitchen utensil renovation offers, test the functional economy model on certain products in the range (equipment for the plastics industry, drones, textiles)
- Substitution of a plastic material by another (outdoor company), testing of new suppliers
- Creation of a new range in natural materials and a low-cost brand (textile company)
- Creation of a local loop: recovery of local outdoor plastic waste in new products

Closing workshop of the program

On April 1st, we organized a workshop with the SME's to share their experience: actions implemented and in progress, difficulties encountered, sharing best practices. We ended the workshop by a creativity session to work on 2 problematics.

During this workshop, we also presented an extract of the digital solutions for CE we identified.



The difficulties encountered by implementing CE :

- Question of volumes: our volumes of waste are insufficient to interest a sector => need to massify volumes.
- Th matching "Resources (wastes)" => Outlets can be difficult to find (question of volume, of temporality, etc.).
- In certain sectors, no customer expectations on the subject (when customers are intermediate subcontractors)

- How to detect new plastics? How do I recycle my plastic films? How to identify new ways to recycle? Which networks should I join?
- Many planets to align to implement a circular economy project

"What I discovered through the program" - some verbatim of the SME's

- "I feel less alone and I have realized that others are also asking these questions"
- "We managed to interest everyone in the company"
- "When you get restless and rack your brains, you manage to find partners, it's just a matter of willpower"
- "We were already doing circular economy without having put a word on it"
- "The program has allowed us to structure what we are already doing so we can sell it"
- "It allowed us to meet another company in the program who now collects our waste for reuse"
- "We have structured our circular economy approach"

Results of the satisfaction questionnaire

At the end of the program, we addressed a satisfaction questionnaire to the 24 SME's. Below is the synthesis of the 17 answers received.

	--	-	+	++
How do you rate the content of the training?		1	5	11
Knowledge of the subject and pedagogy of the speaker		1	2	14
How do you assess the content of the individual support day?		2	5	10
Knowledge of the subject and pedagogy of the speaker		1	6	10
What do you think of the degree of transfer in your company?		4	8	5
Did this course provide you with practical and methodological tools to move towards the circular economy?		3	7	7
How do you assess the organization of the course? (duration, logistics, etc.)		2	4	11
Did this course meet your expectations?		2	6	9

Lessons learnt

At the end of the program, we have:

- ⇒ Different needs function of the maturity and sector of the company
- ⇒ Different levers to implement CE
- ⇒ Different support (awareness, creativity)

The program could allow the SME's to achieve different results:

- ⇒ Companies already engaged in CE or subcontractors: the path allowed them to go through the actions already undertaken on the different axes of the CE, in order to enhance them and to consider complementary actions (e.g.: research for new ways to recycle waste, reinforce eco-design actions)

- ⇒ Companies that already had a CE project: the path allowed them to define the project, to reinforce the CE aspect of the project
- ⇒ Companies that started on CE : creativity during the one-day individual support allowed them to imagine new projects (ex: new activities, new service, change in the raw material (type of plastic used))

Maturity & sectors

- We had different levels of maturity among the companies: some started just with the will of implementing CE, other had already CE projects underway and integrated several areas of CE.
- It can be discussed whether it would be a better option to create different groups and program function of the maturity of the company on CE.
- We noticed highly variable levers depending on the activity and type of business.
Ex: it will be more difficult for a subcontractor in the surface treatment industry to implement CE than for an independent textile SME.

Digital needs:

No real digital needs have been identified in the path.

This does not mean that digital tools are not useful for CE projects but that the process we used did not allow to identify digital needs:

- because it is too soon, the project needs to be more defined,
- because after 1 day support, this need has not been identified
- because CE projects do not need necessarily digital tools.

We organized a debrief meeting with the consultants of the program on March, 28th to get their feedbacks and analysed the answers of the satisfaction questionnaire. Added to the analysis of the satisfaction questionnaire filled by the companies, we could draw up the conclusions below.

Strengths of the program :

- Training session with a lot of examples, fitted to the industry sector, and that could give the companies a good overview of CE and allowed them to start sharing together
- The organization of the program, the follow-up by the Auvergne Rhône Alpes Entreprises team and their participation in the training and 1:1 support day allowed a fluid work and more connections with the local ecosystem.
- this approach has opened up the field of possibilities on CE for the SME's

Weakness of the program:

- 1 day support is too short. The consultants could be frustrated not to support the company implementing their projects.

Focus point:

- The involvement of the CEO is crucial in this program: he/she had to be at least at the beginning and end of the program
- The SMES's (particularly the smallest ones) could lack human resources to implement the action plan.
- After one day support, it is necessary to have a good follow-up of the companies to assist them in the implementation of the project.
- The program was free of charge for the companies: this may have affected their

commitment to implement the action plan

Suggestions:

- Plan for continued support for a few companies (5-6) that are the most motivated in implementing their project. This is an opportunity that can be offered by our program "Industry of the future".

8. Annex

Annex 1: CE and digital maturity in a single assessment : Mission « Circular Industry »

This tool is available on our website: <https://auvergnerhonealpes-entreprises.fr/testez-votre-maturite-sur-leconomie-circulaire>



VOS ENJEUX & LEVIERS

8. Quelle est votre niveau de connaissance actuel sur l'économie circulaire?

- ☐ C'est un concept très flou, j'ai encore tout à apprendre
- ☐ Je connais plusieurs leviers mais ne l'ai pas encore mis en pratique dans l'entreprise
- ☐ Je connais bien le concept dans sa globalité et j'ai commencé à le déployer en partie dans l'entreprise
- ☐ Je maîtrise le sujet et j'ai déjà mis en pratique plusieurs leviers dans l'entreprise. Nous avons des offres qui contribuent à l'économie circulaire.

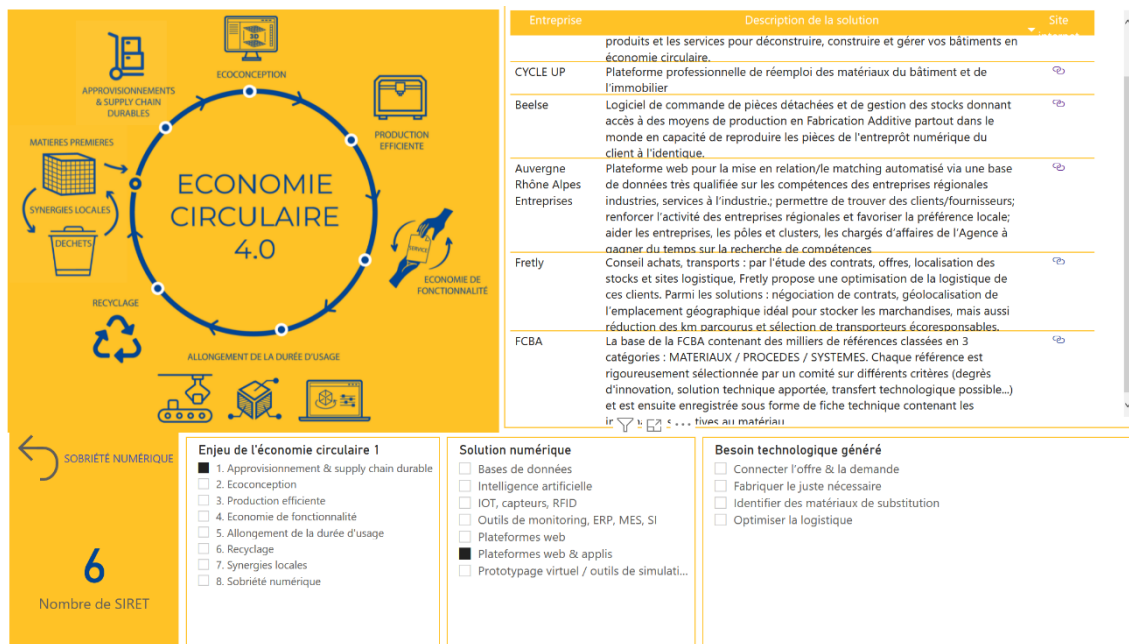
9. Quelles sont ou quelles seraient vos motivations pour aller vers l'économie circulaire ?

	non, pas du tout	non, pas vraiment	oui, en partie	oui, totalement
Conscience environnementale	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sécurisation ou gain de parts de marché	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Améliorer la performance de l'entreprise / Réaliser des économies (Réduction des coûts des matériaux, énergie, transport et traitement des déchets...)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Valorisation de l'image de l'entreprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Opportunités d'innovation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modifications réglementaires récentes ou à venir (ex loi AGEC, loi transition énergétique...)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motivation des salariés et attrait de talents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Annex 2: Mapping of regional digital solutions for the circular economy.

We identified 100 solutions that meet the challenges of the circular economy, most of them are regional but we also added national solutions for very specific needs.

The solutions are presented on the PowerBI Platform.



Annex 3: E-mailing sent to recruit companies



**Auvergne
Rhône-Alpes
Entreprises**



Parcours Industrie Circulaire

Intégrez les enjeux de demain dans votre business model
grâce à l'économie circulaire

20 PLACES

Gratuit, car financé par le dispositif Interreg Alpine Space

Transitions écologique et numérique sont deux enjeux majeurs pour les entreprises.

85% des industriels considèrent l'économie circulaire comme une opportunité !*

Et vous ?



L'Agence vous propose de participer à ce **parcours de formation-action inédit. Court et pragmatique**, il vous permettra de :

- Comprendre ce qu'est l'économie circulaire pour les entreprises industrielles & d'identifier les opportunités
- Imaginer comment intégrer ce concept dans l'entreprise
- Identifier si des outils digitaux peuvent faciliter son déploiement
- Définir vos priorités et construire une feuille de route économie circulaire

Démarrage à partir de juillet ! Date limite d'inscription 28 juin

[En savoir plus](#)

[Inscrivez-vous](#)

(* source : étude Ineco – Opeo « Pivoter vers l'industrie circulaire », avril 2021 sondage mené auprès de 63 acteurs industriels)

Contact : Isabelle Clouet - iclouet@arae.fr | 06 70 90 59 92

Annex 4: CIRULAR INDUSTRY PATH



Participez à un parcours de formation-action gratuit pour intégrer les enjeux de demain dans votre business model, grâce à l'économie circulaire.

✓ **85% DES INDUSTRIELS CONSIDÈRENT L'ÉCONOMIE CIRCULAIRE COMME UNE OPPORTUNITÉ !**

ET VOUS ?

Transitions écologique et numérique sont deux enjeux majeurs pour les entreprises.

Une gestion efficace de vos ressources peut vous permettre de tendre vers une industrie flexible, performante et responsable. À cet effet, l'économie circulaire et les outils digitaux sont de précieux leviers pour repenser vos procédés, produits et services.

Dans le cadre du programme européen Circular 4.0, Auvergne-Rhône-Alpes Entreprises vous propose un parcours de formation-action inédit pour engager votre entreprise vers l'économie circulaire.



*source : étude Inec - Opeo « Pivoter vers l'industrie circulaire », avril 2021 sondage mené auprès de 63 acteurs industriels.

POUR QUI ?

- 20 Entreprises industrielles situées sur le territoire de l'ex région Rhône-Alpes, souhaitant identifier les opportunités offertes par l'économie circulaire et désirant s'engager dans cette démarche
- Dirigeants ou membres de comités de direction

POURQUOI PARTICIPER AU DISPOSITIF ?

- Anticiper les enjeux de la transition écologique
- Comprendre ce qu'est l'économie circulaire pour les entreprises industrielles & identifier les opportunités
- Imaginer comment intégrer ce concept dans son entreprise
- Identifier si des outils digitaux permettent de faciliter son déploiement
- Lancer un projet porteur de sens au sein de votre entreprise
- Définir vos priorités et construire une feuille de route économie circulaire
- Vous différencier, gagner en compétitivité



CONTENU

- Un webinaire d'introduction à l'économie circulaire
 > 2 sessions : 24 août • 14 octobre
- Un diagnostic « Mission Industrie circulaire » pour tester votre maturité sur le sujet
- Un atelier de formation d'une journée autour de mises en situation et cas pratiques pour identifier les opportunités offertes par l'économie circulaire & les clés pour l'intégrer au modèle de l'entreprise. L'atelier sera animé par le cabinet OPEO et se basera sur de nombreux exemples tirés de l'étude « Pivoter vers l'industrie circulaire », menée auprès de 63 industriels.
 > 3 sessions : 31/08 : Le Bourget du lac • 01/09 : Lyon • 19/10 : Lyon
- Une journée d'accompagnement individualisé par un consultant expert pour définir votre feuille de route économie circulaire.
 > À partir de septembre

À l'issue du programme, l'Agence vous propose un accompagnement personnalisé pour la mise en œuvre de la feuille de route établie (mise en relation partenariales, prescription de dispositifs d'accompagnement et financiers, recherche d'outils digitaux pertinents pour faciliter le déploiement de l'économie circulaire).
 > À partir de septembre

POUR EN SAVOIR PLUS :

Isabelle CLOUET
 iclouet@arae.fr • 06 70 90 59 92

Formulaire de candidature :

<https://cutt.ly/bdd4n4>

Nombre de places disponibles : 20

DATE LIMITE D'INSCRIPTION :

20 JUILLET 2021

Annex 5: EXAMPLE OF THE RESULTS OF THE CE & DIGITAL MATURITY ASSESSMENT

Mission Industrie circulaire

Interreg
Alpine Space
Circular4.0



**Auvergne
Rhône-Alpes**
Entreprises

Bravo! Au travers de ce diagnostic, vous vous êtes posé(e) les questions pour évaluer où en est votre entreprise sur les différents domaines d'actions de l'économie circulaire.

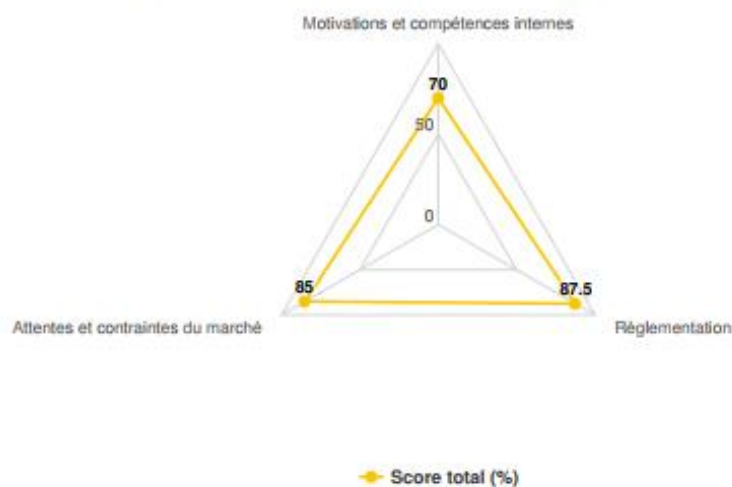
Les résultats présentés ci-dessous en donnent une représentation graphique et vous permettront d'identifier :

- les leviers sur lesquels vous appuyer pour déployer la démarche dans l'entreprise
- vos axes de progrès sur les différents domaines d'actions
- le potentiel d'utilisation d'outils digitaux pour faciliter son déploiement.

Pour aller plus loin et être accompagné pour mettre en oeuvre l'économie circulaire dans l'entreprise, contactez-nous!

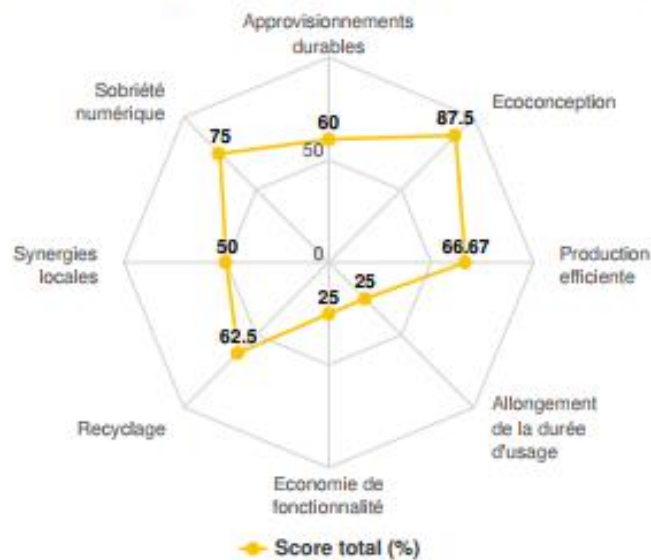
Contact : Isabelle Clouet - chargée de mission économie circulaire & innovation - iclouet@arae.fr

Vos leviers pour aller vers l'économie circulaire

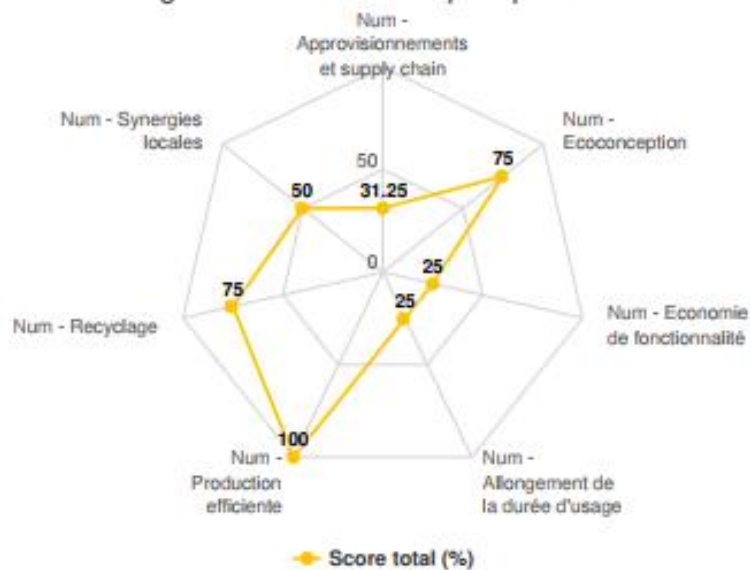


Mission Industrie circulaire

La maturité de votre entreprise sur les piliers de l'économie circulaire



Vos besoins & usages en outils numériques pour l'économie circulaire



Annex 6: Overview of companies assisted

No	Trainin g date	Registrat ion date	Company	Town	Activity	Sector	Web site	First meeti ng	1:1 meeting	Transforma tion	Follow up on the support
ARAE 1	31 août au Bourget du lac (73)	02.06.20 21 12:36	ADVANCE XL	74000 Annecy	Small leather goods and tailor-made luggage.	Textile / Fabrics	www.advancexl.com	27/09 10h30	07. Dez	New or improved or transforme d business model	In the meantime, supported by business manager on the upcoming stages of the project.
ARAE 2	31 août au Bourget du lac (73)	24.06.20 21 17:25	FORMES ACTIVES	73340 LESCHERAI NES	plastic components injection	Plastics	www.formesactives. fr	23/09 15h	10. Nov	New or improved products	In the meantime, supported by a business manager on the upcoming stages of the project, assessing the relevance of recruiting an intern.
ARAE 3	31 août au Bourget du lac (73)	28.06.20 21 16:31	IDM	73800 PORTE DE SAVOIE	Detached pieces - Mountain resorts	Plastics	www.idm- france.com	23/09 16h	22. Okt		Project launch
ARAE 4	31 août au Bourget du lac (73)	06.07.20 21 10:52	SARL PLIALPES	38 320 EYBENS	Folding/shapi ng of steel parts	Metallurgy	www.pliap.fr (en cours de création)	23. Sep	27. Jan		

ARAE 5	31 août au Bourget du lac (73)	06.07.20 21 11:53	CIFEA-MKG	74150 Marigny-Saint-Marcel	Customer relationship management agency	Marketing	Www.cifea-mkg.com	20/09 à 17H	6/10 & 1/12	New or improved services	Support for innovation within the <i>Ambition Région Innovation</i> scheme.
ARAE 6	31 août au Bourget du lac (73)	06.07.20 21 12:00	Squadron e System	38000 Grenoble	Industrial drones conception and fabrication	Electronics	www.squadrone-system.com	29/09 à 11h	5/11 & 19 janvier		
ARAE 7	le 31 août au Bourget du Lac	07.07.20 21 11:07	CT2MC	73372 Le Bourget-du-Lac	Composites & robotics	Electronics	www.ct2mc.com	27/09 9h	18/10 PM + 15/11 AM		Measures taken to reduce internal costs, MER D3EA(?)
ARAE 8	le 31 août au Bourget du Lac	07.07.20 21 16:33	La Compagnie du riz	38100 Grenoble	Importer, distributors of biology products - manufacturing on site from October 2022	Agri-food	autourduriz.com	29/09 à 14h	17/11/2021 + conf call à J+2mois 07/01		Follow-up on energy issues Proposal of the IDF <i>Excellence Opérationnelle</i> (Operational Excellence) system
ARAE 9	le 31 août au Bourget du Lac	07.07.20 21 18:17	VIRGIN BIO PACK	38320 Eybens	Ecologically conceived packages	Packaging	www.virginbiopack.com	28. Sep	27/10/2021 et 24/11/2021		

ARAE 10	1er septembre à Lyon	21.07.2021 13:48	MITHIEUX	73000 CHAMBERY	Surface treatment	Metallurgy	www.mithieux.fr	20/09 9h30	06. Dez	New or improved process	Support for innovation as part of the <i>Ambition Region Innovation</i> scheme to be studied
ARAE 11	1er septembre à Lyon	02.06.2021 13:41	RAF (RHONE-ALPES-FLEXIBLES)	01090 Montceau x	MANUFACTURER OF HYDRAULIC HOSES	Metallurgy	http://www.rhone-alpes-flexibles.com/	FAIT	19. Okt		<ul style="list-style-type: none"> • The compensation principle • MTB recycling for the recycling of our pipes • Strengthen our communication strategy on environmental topics.
ARAE 12	1er septembre à Lyon	02.06.2021 19:53	BIGNON DERVAUX	42670 Belmont-de-la-Loire	Manufacture of luxury embroidered household linen	Textile	www.creationsbignon.com	20/09 à 14h30	16. Nov		
ARAE 13	1er septembre à Lyon	03.06.2021 09:34	FOLAN	69140 Rillieux La Pape	Data infrastructure specialist	Electronics	https://www.folan.net/	11/10 à 14h	10. Nov		
ARAE 14	1er septembre à Lyon	03.06.2021 11:13	VOLX Climbing	69400 Arnas	Climbing grip manufacturers	Manufacturing	www.volx.fr	20/09 à 17h00	18. Okt		Technical and materials benchmark and validation of its

											application to climbing, characterize the technical solutions
ARAE 15	1er septem bre à Lyon	04.06.20 21 10:54	SAPPI	69120 VAULX EN VELIN	Surface coating	Metallurgy	www.sofioplast.fr	5/10 - 9 à 10h	19/10 et 17/11		Needs the help of a consultant to work on the business model of the project - IDF
ARAE 16	1er septem bre à Lyon	15.06.20 21 14:55	Velours de Lyon	69150 Décines-Charpieu	Weaving, dyeing and finishing of velvet	Textile	veloursdelyon.fr	12. Okt	08. Nov		No immediate follow-up, the company encounters financial difficulties.
ARAE 17	1er septem bre à Lyon	24.06.20 21 10:44	OUVRY SAS	69009 Lyon	fab EPI	Textile	WWW.ouvry.com	06. Jan	4/02 et 28/02		
ARAE 18	le 19 octobre à Lyon	18.06.20 21 15:25	MIXEL SAS	69570 Dardilly	Manufacture of industrial agitators	Metallurgy	www.mixel.fr	03/11 à 16h30	Initialem ent prévu le 13/01/2 2. Reporté au 25/02/2 2 (pour raison sanitaire)		<ul style="list-style-type: none"> Batch "Simulation of flows" within the program "Being supported in my project Industry of the Future" to work on the optimization of logistics flows?

											<ul style="list-style-type: none"> • PRIME scheme (POLE ECOCONCEPTION) to build an eco-design approach ? • RELIEF program on the functional economy ?
ARAE 19	le 19 octobre à Lyon	05.07.20 21 14:15	ROBUR	69140 Rillieux-la-Pape	Work clothes fabrication	Textile	www.roburstore.com	03/11 à 14h	16. Nov		Update with Séverine - 13/01
ARAE 20	le 19 octobre à Lyon	06.07.20 21 10:38	INNOVTEC INDUSTRIES	01400 Châtillon sur Chalaronne	integration of automated and robotic machines	Electronics	www.innovtec-industries.com		27. Jan		
ARAE 21	le 19 octobre à Lyon	06.07.20 21 12:12	OLIVO	42230 ROCHE LA MOLIERE	Manufacture of insulated (isothermal) containers	Plastics	www.olivo.eu	17/11 à 8h	26. Jan		
ARAE 22	le 19 octobre à Lyon	06.07.20 21 15:28	Tivoly	73790 Tours-en-Savoie	Cutting tools	Metallurgy	tivoly.com	30/11 à 8h30	03. Feb	New or improved process	In the meantime, followed-up by a business manager (from the Agency).
ARAE 23	le 19 octobre à Lyon	29.07.20 21 00:00	CHROME LEC	38290 FRONTONAS	Surface treatment	Metallurgy	www.chromelec-groupe.com	16/11 à 15h	11/01/2022 8h30-17h30		Eco-designed project & functional economy. Consider the energy

										efficiency aspect.
ARAE 24	le 19 octobre à Lyon	23.07.2021	ACOUSTE AM	38660 Lumbin	Manufacturer of flexible/malleable acoustic solutions	Plastics	www.acousteam.fr	30/11 à 14h	24. Jan	Acousteam is interested in the creation of a network of "circular" companies so they can share good practices, common waste collection....