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SCREEN - Synergic Circular Economy across European Regions

Deliverable D6.5

FINAL CONFERENCE PROCEEDINGS

CIRCULAR ECONOMY: implementation of operational synergies between interregional investments: "Pamplona, 4th and 5th of September 2018

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1. Executive summary

SCREEN is an H2020 coordinating and supporting action participated by 17 European regions, aiming at the definition of a replicable systemic approach towards a transition to Circular Economy in EU regions within the context of the Smart Specialisation Strategy. The project also deals with the identification and implementation of operational synergies between investments in research and innovation under Horizon 2020, the Structural Funds and the European Investment Funds.

The SCREEN final conference was held during the two days' Forum "CompraVerde" in Rome, an important event for public and private policies, projects and initiatives on green and sustainable procurement opened by the Italian Minister of the Environment Mr. Sergio Costa.
In the general opening session there were also two speeches organized by SCREEN, one given by the President of CENTRO Region Ms. Ana Abrunhosa and the other by Mr. Bernd Dittmann, member of the European Economic and Social Committee, moderator of the SCREEN roundtable.

The Forum lasted for two days with 25 Conferences and workshops and 2200 participants, the SCREEN conference was organized in two sessions, in order to allow the attendees to participate at the other forum sessions and at the exhibition and to allow the other Compraverde participants to attend at the SCREEN sessions during their visit.

The first session was opened by Carlo Polidori, project manager who briefly resumed the SCREEN objectives, activities and results; then the Keynote speech: "Circular Procurement: a strategy to stimulate circular economy" was given by Joan Prummel Strategic Advisor for Circular Procurement at the Dutch Ministry of Infrastructures and Water. After the key note speech, there was a round table moderated by Mr. Dittmann and participated by 5 politicians and high level officers of the SCREEN Regions. The conclusion of the round table was the willingness to both apply the screen methodology and continue the improvement of the cross regional cooperation in the field of the circular economy.

The technical session of the second day was introduced by the EASME officer Mr. Giulio Pattanaro followed by the detailed presentation of the SCREEN results given by each Work Package Leader

99 stakeholders from Italy and other European countries participated through a dedicated page for direct registration in the project website and it is estimated that around 10% of visitors listened to at least one of the SCREEN presentations during the two days of the event, thus with a total audience of more than 300 stakeholders.

2. Detailed programme of the SCREEN final conference

SCREEN Project Final Conference

Within the Forum "CompraVerde" (Buy-Green) - ROME 18-19 OCTOBER 2018
Salone delle Fontane, Via Ciro il Grande– Roma EUR

SCREEN (www.screen-lab.eu) is an H2020 coordinating and supporting action participated by 17 European Regions coordinated by Lazio Region, aiming at the definition of a replicable systemic approach towards a transition to Circular Economy in European regions. The outcomes of the project will be presented in the final conference, organized in two sessions in order to allow the attendees to participate at the other forum sessions and at an exhibition. The Forum "CompraVerde" (BuyGreen) is the most important Italian and European event for public and private policies, projects and initiatives on green and sustainable procurement. https://www.forumcompraverde.it/en/.

Agenda

Thursday 18 October h. 09,30

The institutional session will start just after the opening of the forum and the inaugural greetings given by national authorities, representatives of the EU and the Lazio Region in front of an audience of partners, representatives institutions and other important stakeholders of the event. The start time is scheduled at 9h30 with greetings and the opening of the works until 11h00.

11h30 SCREEN Institutional session (open coffee available during all the morning)

11h30 Short introduction of the SCREEN project and its outcomes - **Carlo Polidori**, Project Manager

11h45 Keynote speech: "Circular Procurement: a strategy to stimulate circular economy" - **Joan Prummel** - Rijkswaterstaat (Dutch Ministry of Infrastructures and Water)- Strategic Advisor Circular Procurement

12h15 **Round table: Cooperation among European Regions for an actual transition towards a circular economy**

Moderator: **Bernd Dittmann**, European Economic and Social Committee (EESC) Member, The European Circular Economy Stakeholder Platform Co-ordination Group

Participants:

- **Ana Abrunhosa**, President of Centro Region (Portugal),
- **Gian Paolo Manzella**, Regional Minister for the Economic Development of Lazio Region,
- **Mario Nova**, Director General for Environment and Climate - Lombardia Region,
- **Eva García Balaguer**, Director General for Environment and Territorial Planning- Navarra Region (Spain),
- **Bruno Pacheco**, Regional Director of Science and Technology of the Regional Government of the Azores (Portugal)

Q&A from the audience

14h00 Buffet lunch

14h30 SCREEN Poster Session: *SCREEN has a stand within Compraverde where project partners can exhibit their posters during the two days (presence close to the poster is recommended; video presentation are allowed during pre-assigned time slots)*

Afternoon: *Partners and audience can participate in a workshop for the exchange of knowledge, good practices and projects on bio-economy, circular economy and GPP, which will take place in the same room*

Friday 19 October-

9h30-13h30*: Meeting of UrbanWINS, another European project in which we can participate and exchange ideas and experiences.*

13h30 Buffet lunch

14h00 SCREEN technical session: presentation of the final deliverables

- Introduction **Giulio Pattanaro -** EASME – European Agency for Small and Medium Enterprises
- Methodology for Regional Cooperation **Marcello Colledani**- AFIL/Lombardy Region
- Policy Makers recommendation manual – **Bart Volkers** – Province of Fryslan
- Operational Plan: SCREEN future steps –**Johanna Alakerttula**– Tampere Region
- SCREEN Policy Lab: results and future steps – **Carlo Polidori** – SCREEN Project Manager
- Closing Remarks: **Alessandro Ruggieri**, Rector of Tuscia University - Lazio

16h00 *the "Compraverde" awards ceremony and the closing of the forum's work will take place in the same room.*

Working language: English, Italian.(with interpretation)

Compulsory registration at:
https://www.eventbrite.co.uk/e/screen-project-final-conference-tickets-50114828802
Free tickets assigned on a first come, first served basis.

Info about the venue, transport and suggested hotels at/
www.forumcompraverde.it/location/

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No730313

3. Opening Speech by Carlo Polidori

Good morning everybody,

My name is Carlo Polidori and I am the project manager of the SCREEN Project, coordinated by the Lazio Region; I have the task of introducing you to the morning session of our final conference.

I will give a brief introduction to the SCREEN project and its results, which will be presented in detail in the technical afternoon session.

SCREEN is a Horizon 2020 project involving 17 Regions of 12 different European countries, coordinated by the Lazio Region and with the technical-scientific support of the University of Tuscia. These regions worked together for two years to define a common and replicable methodology for a transition to the circular economy.

SCREEN is a project made by the Regions for the other EU Regions, with a "bottom-up" approach, very practical, generated where the circular economy actually takes place and where the problems, barriers and research gaps that hinder sustainable development are generated.

It is a project that, through a continuous comparison between the partners and several adjustments raising from intense discussions, produced tools that can facilitate the planning and management of projects for the development of a circular economy in the Regions.

The project makes its results public and available in its web site www.screen-lab.eu,; furthermore, it invites other European Regions to use them, in order to define common value chains and start interregional cooperation in the circular economy.

The project was developed through four different steps, all related to each other:

The first step, fundamental and preparatory for the following ones, concerns a common procedure for mapping both real and potential value chains in each region. For "potentials" I mean value chains with still a "missing link". Here the effort of all the regions was really great, both to define a common language and terminology (on which we will return in detail in the

technical session tomorrow), and to use in practice the mapping tool with common procedures.

Such a procedure has been amended several times as a result of the indications given by those actors operating on the territory. It must be considered that the SCREEN project is participated by regions with extremely different characteristics and therefore the identification of a common methodology is the first success of the project.

The second step is the synergistic approach that, based on the results of the first step, produced a method of comparison between the various regions, in order to find common value chains and particularly to find in a certain region the "missing ring" allowing the development a value chain in another region. It is a method of cooperation between the regions, developed starting from the needs of the economic actors of each region, whose application will allow a considerable strengthening of the cohesion policy, thanks to its "bottom-up" approach generated by the real needs of the territories. Also in this case it was not just a desk job, but the result of continuous interaction between the regions.

The identification of interregional value chains has as a natural consequence the development of projects with participants belonging to different regions, and that should be financed with the structural funds of the concerned regions. But such a funding is prevented by administrative barriers that make very difficult (if not impossible) to use the structural funds with participants from different regions.

The SCREEN "Laboratory on Policies" (Policy Lab) analysed the existing tools, together with their characteristics and their limits and then proposed an innovative one that allows to use in a truly synergistic way both the structural funds and the European research funds. After a year of internal discussions and thanks to the external support of DG REGIO, an instrument called "Common Pot" has been defined (based on Art. 70 of the structural funds), able to overcome this barrier.

Such an instrument has been defined through a "Memorandum of Understanding" having as first signatory Lazio and at the present already signed by further 9 European regions; others regions are going to sign, too.

Furthermore, this new instrument goes beyond the barriers formed by the "Seal of Excellence" of the European Commission, that can actually be exploited in very few occasions and for projects with only one partner; we will give more details in the tomorrow technical.

The procedure defined by the Memorandum of Understanding is open to any other European region and is also a valuable instrument for cooperation with regions and economic actors of the United Kingdom after the Brexit; some contacts with potentially interested UK partners have already been established.

The agreement on the joint financing of projects by several regions necessarily implies an agreement on how the "circularity" of these projects is evaluated. This is also a need for every single region willing to finance circular economy projects through its structural funds: in fact, since the circular economy is a new "transversal" matter, the ordinary tools for evaluating projects cannot determine if and how much a project is more "circular" than another one.

The European Commission in January of this year issued a document on the monitoring framework for the circular economy, providing 10 indicators which, however, do not yet have a quantification to provide a precise comparison parameter for specific projects. The SCREEN project elaborated a comparative methodology with the "bottom-up" approach, tested on some already financed regional projects and then discussed and refined for the next 10

months; the result was really consistent (even if elaborated in a completely independent way) with the indicators contained in the European Commission document.

This version has been submitted to the judgment of the main European actors through an online questionnaire also hosted by the Circular Economy Stakeholder Platform: we got over 160 replies with over 40 optional comments, all very positive, which allowed us to develop a further version, complete with instructions for both applicants and assessors, as well as a practical example of its application. (already available on the project website).

We are awaiting for further feedback from the European Commission (DG ENV) and the Coordinating Committee of the Circular Economy Stakeholder Platform before submitting the final version in the project deliverable. This evaluation grid has been specifically conceived to be used as an additional criterion for the evaluation of projects, allowing to compare projects that are very different from each other in a transparent and objective way.

We will also propose to the European Commission to adopt the same grid as an additional evaluation criterion for European projects related to the circular economy; we have already declared our availability, even after the end of the project, to continue a discussion on these issues.

All the results obtained constitute the "Methodology for cooperation between regions" that we will present tomorrow, while all the difficulties and barriers encountered are reported in a manual with recommendations for policy makers at regional, national and European level, which will also be presented tomorrow. An appendix of such a manual also contains the research gaps detected during the value chains' identification, as well as suggestions to the European Commission about research topics able to overcome such gaps.

Considering the results obtained, which went far beyond what was expected at the beginning, and the enthusiasm expressed by the partners, the end of the SCREEN project coincides with the start of a cooperation network between European regions in the circular economy, which has already gathered other adhesions and aims to become an advisor of the European Commission in this challenging matter.

I thank you for your attention and give the floor to our Keynote speaker Joan Prummel.

4. Keynote speech by Joan Prummel

Mr. Prummel pointed out how procurement is a lever to enable and facilitate both procurers and suppliers. That is why he is stressing the circular procurement concept: it is a stimulating instrument for the demand side in the use/reuse phase.

Circular economy experts often take waste as a starting point for circular thinking because it's there and all have direct issues with waste; because of the opportunities for reuse and recycling and because of the specific measures that can be taken to close material and product loops. In a fully circular concept however waste is not the starting point but the consequence: therefore less volume of residual flows in a higher quality are the direct outcome of circular activities.

Coming to the SCREEN outcomes, the assessment table is a great and very important initiative, because of its potential impact and because the definition of circular economy is still unclear and creates confusion for a lot of governments (and private sector companies) who want to set up circular projects and activities. A table like this can be a welcome tool to help them decide.

Mr. Prummel concluded by confirming his willingness to cooperate in the fine tuning of the assessment criteria, that should still take into account some comments just sent but not yet incorporated in the current version.

(Presentation in Annex II)

5. Round Table

Bernd Dittmann (Moderator) and his presentation of the Circular Economy Stakeholder Platform

Bernd Dittmann , member of the European Economic and Social Committee introduced the European Circular Economy Stakeholder Platform and then underlined how the SCREEN project has produced tools for an effective approach to the circular economy and to interregional cooperation: the latter being a fundamental requirement for an effective transition in Europe towards the circular economy. He then asked the participants at the round table to explain their approach to this important topic.

Ana Abrunhosa, President of Centro Region (Portugal), explained that in Portugal the importance of Circular economy (CE) has been highlighted over the last few years at the national and regional levels: Centro is one of the regions deeply involved in the work for the transition to CE. In the definition of the Region's Smart Specialization Strategy (RIS3), the principles of CE were explicitly included among the priorities. She also pointed out the importance of the SCREEN outcomes, as well as the need to continue and improve the cooperation among European Regions

Gian Paolo Manzella, Regional Minister for the Economic Development of Lazio Region, welcomed the participants as Coordinator and hosting partner, then briefly explained the approach of Lazio Region to the circular economy and the incoming tenders dedicate to the new APEA (Ecological Productive Areas) in the Region. He hopes that the Screen project is just a first step of a fruitful and continuous cooperation among European Regions.

Mario Nova, Director General for Environment and Climate - Lombardia Region, explains that the Circular Economy is an important challenge for the Lombardy Region, since the potential

impact of its economic activities on the environment can be compared to the one of a small European state, considering its population and GDP. The environmental legislation contributes to Circular Economy in Lombardy, following the indication that resources should be kept in the production/use loop for the longest time possible. He confirms that interregional cooperation is extremely useful in building or consolidating circular economy value chains.

Eva García Balaguer, Director General for Environment and Territorial Planning- Navarra Region (Spain), described the regional commitments to sustainable development and to the battle against climate change: Navarra is working at a new socioeconomic and energy model based on a low carbon use and adapted to the climate effects, in line with its smart specialisation strategy (S3) and with its social and environmental policies and in the framework of the 2030 Agenda of the UN.

Bruno Pacheco, Regional Director of Science and Technology of the Regional Government of the Azores (Portugal), explained that the regional Government of the Azores has strategy to reduce waste production and increase its reuse and is going to be more and more active in the field of Circular Economy. The cooperation and exchange of experiences that happened within the SCREEN project were extremely useful for an outermost region like Azores Island and it is important to continue in this way.

From the left: Ana Abrunhosa, President of Centro Region (Portugal); Bruno Pacheco, Regional Director of Science and Technology of the Regional Government of the Azores (Portugal); Mario Nova, Director General for Environment and Climate - Lombardia Region, Gian Paolo Manzella, Regional Minister for the Economic Development of Lazio Region, Eva García Balaguer, Director General for Environment and Territorial Planning- Navarra Region (Spain), Delia Sola, chief of the European Projects office- Navarra Region.

6. Technical Session 19 October

Giulio Pattanaro - EASME

Giulio Pattanaro introduced EASME and its role in the implementation of the SC5 funded projects, then welcomed the results of the SCREEN project.

Marcello Colledani - AFIL

Marcello Colledani explained how the overall SCREEN methodology is a scientific approach based on four main phases:

1. Data Collection: A tool has been designed to collect data about existing capabilities in the Screen Regions, also considering the Smart Specialization Strategies and the key industry sectors.

2. Analysis: A twofold data-driven and interaction-driven approach has been followed in order to analyse the existing capabilities and identify the existence of regional hotspots and cross-regional opportunities and emerging ideas.

3. Synthesis: The existing cross-regional value-chains have been formalized and specific opportunities that can potentially result in actions to be implemented through cross-regional cooperation have been formalized.

4. Implementation: The identified cross-regional cooperation initiatives are mapped against existing funding and support instruments at Regional and European level to analyze gaps and formalize requirements towards new support instruments.

The final SCREEN deliverable explains how to apply all the 4 phases.

(Presentation in Annex III)

Bart Volkers – Province of Fryslan

Bart Voelkers explained the barriers and difficulties that regions were, and still are, facing in implementing the SCREEN methodology, these being presented in a specific project deliverable.

The barriers are all pressing according to the SCREEN regions and based on the experience in implementing the approach as a pilot action. The most pressing barriers are also classified, based on an evaluation among the SCREEN regions, in major (MUST be solved) and less pressing ones (need to be solved), while the barriers of minor significance have not been reported.

The recommended indications are categorized as follows:

1. Empowering Regions – how to deal with the regional barriers and difficulties?;
2. Implementation of Tools – how to improve the creation of more European cross-regional synergies?;
3. Policy Support and Development – What regional and European policy makers need to do to stimulate the cross-regional collaboration to support a transition to Circular Economy in Europe?

(Presentation in Annex IV)

Johanna Alakerttula– Tampere Region

Ms. Alakerttula explained how, grounding on the results achieved, the consortium decided the concept for an operational plan to continue the development of the SCREEN network and work done within the SCREEN project. The aim is to create boost to achieve a WIN-WIN-WIN scenario in emerging the potential operational synergies with the suitable funding synergies to further facilitate the development of circular economy.

The document is useful both for the development of the SCREEN network's common future steps and works as a recommendation for SCREEN partners to get the most out of the cross-regional collaboration potential when considering their local actions.

The plan goes strictly in align with the developed SCREEN Methodology for the regional cooperation and identified recommendations for policy makers.

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(Presentation in Annex V)

7 Programme of "COMPRAVERDE" Forum and figures of the 2018 Edition

COMPRAVERDE BUYGREEN | GLI STATI GENERALI DEGLI ACQUISTI VERDI

Seleziona una pagina

CONVEGNI 2018

GIOVEDI 18 OTTOBRE 2018

9.00 Desk di accoglienza
REGISTRAZIONE

9.30 Sala Brundtland
SALUTI DI APERTURA
Mauro Pantaleo, Presidente della Fondazione Ecosistemi

9.45 Sala Brundtland
IL GPP IN NUMERI
– Il GPP nel sistema d'impresa: ricerca Unioncamere
– Il GPP nei Comuni: Osservatorio Appalti Verdi Legambiente

10.00 Sala Brundtland
ATTUARE E DIFFONDERE IL GPP
Convegno di apertura

Sergio Costa, Ministro dell'Ambiente, della Tutela del Territorio e del Mare
*Enrica Onorati**, Assessore Regione Lazio all'Ambiente e alle Risorse Naturali

Giuseppina Montanari, Assessora alla Sostenibilità Ambientale di Roma Capitale
Andrea Bianchi, Direttore delle Politiche Industriali, Confindustria
Enrico Fontana, Legambiente, Osservatorio Appalti Verdi
Gianluca Cesarei, Commissione Europea DG Ambiente
Carlo Sangalli, Presidente Unioncamere
Silvano Falocco, Direttore Fondazione Ecosistemi
Ana Abrunhosa, Presidente della Regione Centro (Portogallo)
Bernd Dittmann, Comitato Economico e Sociale Europeo (CESE)

Modera
Marco Gisotti, Giornalista

11.30 Sala Brundtland
CONFERENZA FINALE DEL PROGETTO SCREEN
Synergic Circular Economy across European Regions

11.30 Sala Pinchera
GLI IMPEGNI DELLE CITTA' METROPOLITANE PER IL GPP
Tavolo di Lavoro

11.20 Sala Kapp
ASSEMBLEA ANNUALE DEL COORDINAMENTO AGENDE 21 LOCALI ITALIANE

11.30 Sala Conti
CReIAMO PA – PROMOZIONE DI MODELLI DI GESTIONE AMBIENTALE ED ENERGETICA NELLE PUBBLICHE AMMINISTRAZIONI
Gli strumenti di contabilizzazione dei GHG

14.00 Sala Kapp
I DIRITTI UMANI e SOCIALI NEGLI APPALTI PUBBLICI
Workshop
CERIMONIA DI PREMIAZIONE
Premio Social Procurement

14.30 Sala Brundtland
IL RUOLO DEL GPP NELLA PROMOZIONE DELLA BIOECONOMIA: SFIDE, OPPORTUNITÀ E OSTACOLI DA SUPERARE
Progetto BIOVOICES

14.30 Sala Pinchera
GREEN PORT – ACQUISTI VERDI E SOSTENIBILITA' NEI PORTI TURISTICI E COMMERCIALI
Tavolo di lavoro

14.30 Sala Conti
CReIAMO PA – PROMOZIONE DI MODELLI DI GESTIONE AMBIENTALE ED ENERGETICA NELLE PUBBLICHE AMMINISTRAZIONI
Scambio di esperienze e buone pratiche

Screen Partner

Moderator of the SCREEN Round table

Institutional session of the SCREEN Conference

VENERDI 19 OTTOBRE 2018

9.30 Sala Brundtland
GESTIRE IL CONSUMO DI RISORSE A LIVELLO URBANO: INDICATORI E PROCESSI DECISIONALI PARTECIPATI
Conferenza nazionale del progetto UrbanWINS (Urban Metabolism Accounts for Building Waste Management Innovative Networks and Strategies)

9.30 Sala Kapp
CAPORALATO, DIRITTI SOCIALI E RISTORAZIONE COLLETTIVA
Tavolo di Lavoro

9.30 Sala Pinchera
IL FORUM COMPRAVERDE-BUYGREEN VENETO: ESPERIENZE E BUONE PRATICHE DAL TERRITORIO
A cura di Regione Veneto e Confindustria Veneto

9.30 Area del Ministero dell'Ambiente, della Tutela del Territorio e del Mare
OSSERVATORIO APPALTI VERDI
Workshop a cura di Legambiente

10.00 Sala Conti
CReIAMO PA – PROMOZIONE DI MODELLI DI GESTIONE AMBIENTALE ED ENERGETICA NELLE PUBBLICHE AMMINISTRAZIONI
Gli strumenti di contabilizzazione dei GHG

14.00 Sala Pinchera
IL DECALOGO DEGLI ASINI: UNO STRUMENTO PER L'INTEGRAZIONE SOCIALE E LA CONSAPEVOLEZZA AMBIENTALE
Tavolo di lavoro promosso dal GRUPPO DEGLI ASINI – Attività Sociali e Integrative Non Inquinanti

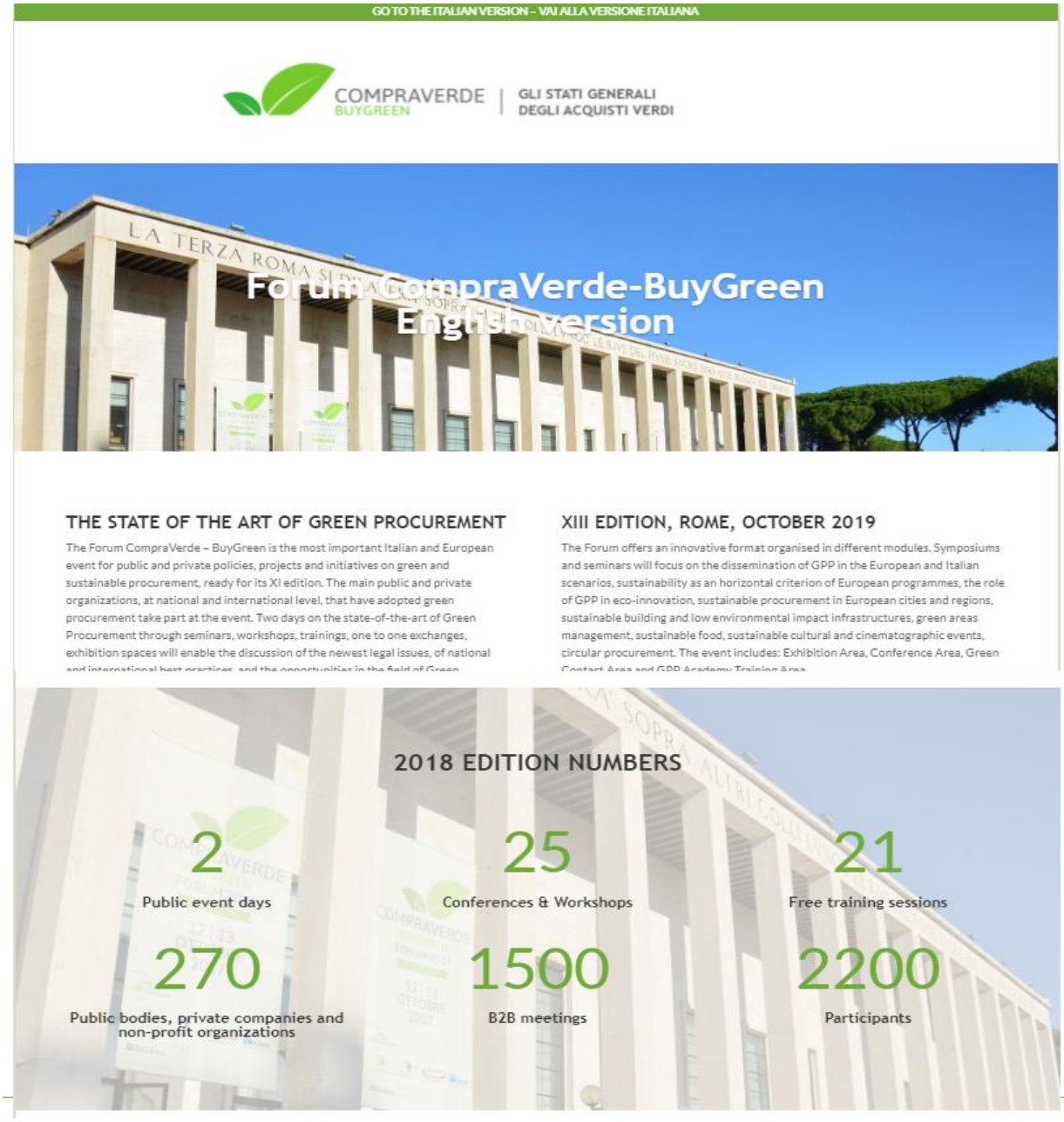
14.00 Sala Conti
CReIAMO PA – PROMOZIONE DI MODELLI DI GESTIONE AMBIENTALE ED ENERGETICA NELLE PUBBLICHE AMMINISTRAZIONI
Scambio di esperienze e buone pratiche

14.30 Sala Brundtland
CRITERI DI VALUTAZIONE PER I PROGETTI DI ECONOMIA CIRCOLARE
Tavoli di lavoro del progetto SCREEN (Synergic Circular Economy across European Regions)

Tecnical session of the SCREEN Conference

16.30 Sala Brundtland
CERIMONIA DI PREMIAZIONE
*Consegna dei Premi **CompraVerde, Edilizia Verde, CulturainVerde, MensaVerde, Vendor Rating e Acquisti Sostenibili**.*

https://www.forumcompraverde.it/en/



8 List of Participants registered at the SCREEN Final Conference

The table below shows the 99 stakeholders who registered themselves through the SCREEN project website; moreover, it is estimated that 10% of the 2200 COMPRAVERDE participants listened at least one presentation of the screen for a total around 320 persons.

First Name	Surname	Country	Job Title	Company
		Italia	Funzionario	Regione Lombardia
		Italy	secretary general	Chamber of Commerce Viterbo
		Portugal	Project Management	CCDRC
		Italy	Prof.	Universita Degli studi Della Tuscia
		Finland	Development Manager	Council of Tampere Region
		Portugal	Project Manager	Governo Regional dos Açores - Fundo Regional para a Ciência e Tecnologia
		United Kingdom	CEO	Europe for Business
		Italy	Engineer	Independent Professional
		Spain	Jefe de Sección Economía Circular	Gobierno de Navarra
		Italy	employee	Regione Lombardia
		Italy	Regional Officer	Lazio Region
		Italy	Employee	Lazio Region
		Italia	Rettore	Università degli Studi della Tuscia
		Spain	European projects and cooperation Unit	Government of Navarre
		Spain	Waste Section Head	Government of Navarre
		Spain	DG of Environment and Land Planning	Government of Navarre
		Italia	giornalista	Rai-Tv
		Belgium	President	Veltha ivzw
		Belgium	Business Developer	Procurementfreelancers.com
		Portugal	Director	Direção Regional da Ciência e Tecnologia do Governo Regional dos Açores

		Finland	Development Manager	Council of Tampere Region
		UK	Knowledge Transfer Manager	KTN Ltd
		United Kingdom	MD	OPEN WASTE COMPLIANCE
		Italy	researcher	University
		ITALY	officer	Regione Lazio
		Portugal	Presidente	Coordination and regional development commission of the center region
		Portugal	Advisor in CCDRC	CCDRC
		Germany	Project Manager	City of Hamburg
		Portugal	Researcher	Centro de Biotecnologia do Açores of Universidade dos Açores
		UK	Head of Projects and European Programmes	The Knowledge Transfer Network
		Romania	Haed of Regional Information Office	North East Regional Development Agency
		Romania	Head of External Cooperation Office	North East Regional Development Agency
		Roma	esperta fondi europei	Regione Lazio
		Portugal	Head of Unit	CCDRC
		Ελλάδα	Civil servant	Region of Crete
		Italy	Technology Director	National Research Council
		Spain	manager of industrial areas	Gobierno de Navarra
		Greece	Accountant	Hotel Olympic
		Croatia	Senior Assistant for Project Management	Primorje-Gorski Kotar County
		velletri	press	veliterna
		Portugal	Director of regional development services of CCDRC	CCDRC
		ITALY	consultant	CSI
		Netherlands	Coördinator internationalisation	Province of Limburg

		Romania	Expert	ADR Nord-Est
		Romania	Head of Office	ADR Nord-Est
		The Netherlands	International programme manager	Province of Fryslân
		Portugal	President of ERSARA Administration Board	ERSARA - Regulatory body for the water and waste services of the Azores
		Portugal	Project Manager	FRCT - Regional Fund for Science and Technology (AZORES)
		Portugal	Fellow	CCDRC
		Italy	Student	Università degli Studi della Tuscia
		Italy	Student	Università della Tuscia
		Italia	Studente	Università degli studi della Tuscia
		The netherlands	Policy advisor Department Economy	Provincie of limburg
		Italy	Student	Università degli Studi della Tuscia
		italy	regional officer	regione lombardia
		italy	financial collaborator	lazio region
		Germany	EESC Member	European Economic and Social Committee
		Greece	Project Manager	LMS - UniPatras
		Spain	Environmental Technician	Junta de Extremadura
		España	Medio Ambiente	Junta de Extremadura
		italy	supervisor	Regione Lombardia
		italy	Director General	Regione Lombardia
		Belgium	Project Adviser	European Commission - EASME
		Italy	Public Administration	Università degli Studi della Tuscia

		Belgio	Project Manager	VELTHA ivzw
		Italy	Student	Student
		Italia	Esperto	Regione Lazio
		Italy	Student	University
		Poland	Innovation Broker	X Harbor
		Italia	Architetto	Lazio Innova
		Italy	Head of EU projects Office	Lazio Innova
		Italy	Trainee	Lazio Innova
		Poland	Inspector	Regional Office of the Lodzkie Region in Brussels, Marshal's Office of the Lodzk
		Poland	Director	Regional Office of the Lodzkie Region in Brussels, Marshal's Office of the Lodzk
		Poland	-	OLP sp. z o. o.
		Poland	-	Lodz University of Technology
		Poland	President	Research and Innovation Centre Pro-Akademia
		Poland	Research Scientist	Medical University of Lodz
		Portugal	project manager	CCDRC
		Italy	Employee	Lazio Innova Spa
		italy	.	lazio innova
		Italy	Project Manager	CUEIM
		italia	vice presidente	Etra
		Italy	project manager	Lazio Innova
		Italia	Screen	Unitus
		Italia	Student	Tuscia's University
		Italia	Dirigente	Regione Lazio

		Italia	inoccupata	nessuna
		Portugal	Chief of staff to support the presidency	Mealhada
		Portugal	Head of Administrative and Financial Division	Municipio de Condeixa
		Italia	Responsabile Spazio Attivo Viterbo	Lazio Innova
		Portugal	Chefe de Divisão Administrativa e Financeira	Município de Miranda do Corvo
		Portugal	Chefe de Divisão Administrativa e Financeira	Município de Lousã
		Portugal	City councilor	Município de Tábua
		Portugal	Technique of the autarchy	Vila Nova de Poiares
		Portugal	Head of Administrative and Financial Division	Município de Cantanhede
		Portugal	Head of Administrative and Financial Division	Município de Góis
		Portugal	Head of Administrative and Financial Division	Municipio de Montemor o Velho
		Portugal	Technique of the Autarchy	Município de Arganil
		Portugal	Division boss	Municipio de Pampilhosa da Serra
		Portugal	Technique of the autarchy	Município de Penela
		Portugal	President	Município de Soure

		Portugal	Technique of the autarchy	Município de Mira
		Poland	-	OLP Sp. z o.o.
		Portugal	Technique of the autarchy	Município de Penacova
		Portugal	Technique of the autarchy	Municipio de Mortágua
		Portugal	Senior Technician	Comunidade Intermunicipal da Região de Coimbra
		Portugal	Senior Technician	Municipio de Figueira da Foz
		Portugal	Chefe de divisão administrativa e financeira	Município de Coimbra
		Portugal	city councilor	Município de Oliveira do Hospital
		Italy	Ricercatore	Sapienza Universita di Roma
		Italy	public officer	Regione Lazio
		Italia	Dottoranda	Università la Tuscia di Viterbo
		Italy	Direttore	Solutiones
		Italy	EU Project Manager	Lazio Region Association of Cities and Municipalities - ANCI Lazio
		Italia	Manager	Lazio Region
		Italia	Professor	University of Tuscia
		Italia	student	università Tuscia
		Italia	Professor	Politecnico di Milano
		Italy	Student	Tuscia's university
		Italy	Student	Università
		Italia	Funzionario	Regione lombardia

9. Annexes

Annex I Gallery

Ilaria Corsi (LazioInnova), organizer of the SCREEN Final Conference, in front of the SCREEN stand

Mr. Nicola Zingaretti, President of Lazio Region, visits the SCREEN stand

Bernd Dittmann, Nicola Zingaretti and Ilaria Corsi during a pause

Speech of Ana Abrunhosa, President of CENTRO Region

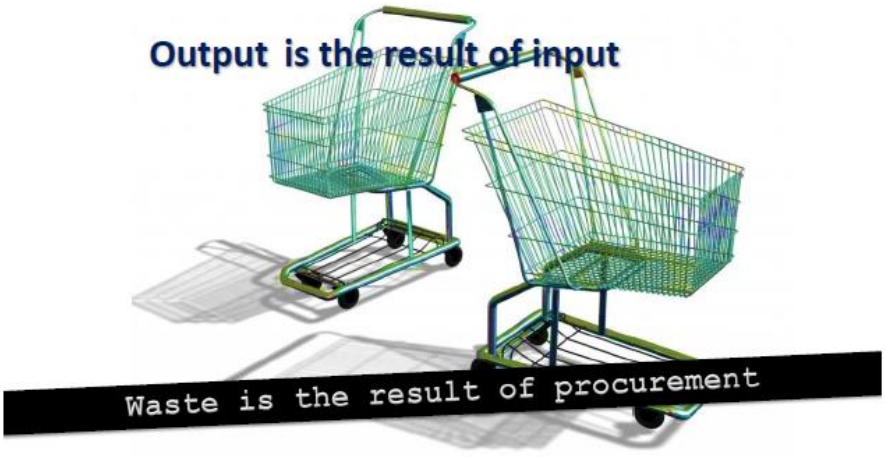
From the left: Bend Dittmann, Gian Paolo Manzella, Carlo Polidori, Ana Abrunhosa, Eva Garcia Balaguer, Mario Nova and Bruno Pacheco

The SCREEN partners

Annex II Presentation of the keynote speaker Joan Prummel

Circular Procurement

Joan Prummel
Rijkswaterstaat
Strategic Advisor Circular Economy
joan.prummel@rws.nl



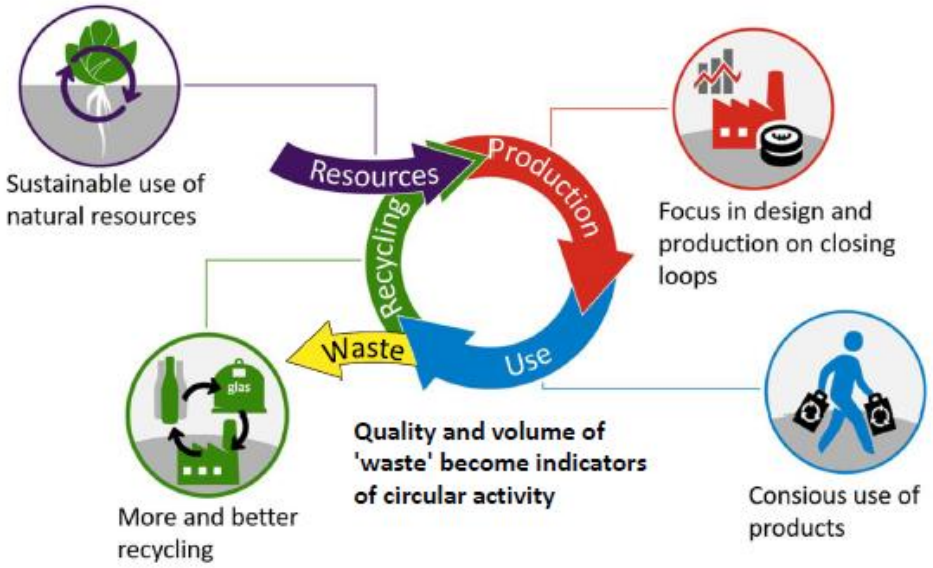


TABLE OF ASSESSMENT CRITERIA FOR CIRCULAR ECONOMY PROJECTS - REV. 3.0

SCREEN table

Important initiative

Shift focus from waste to circular even more

Not everything is quantitative, process is equally important

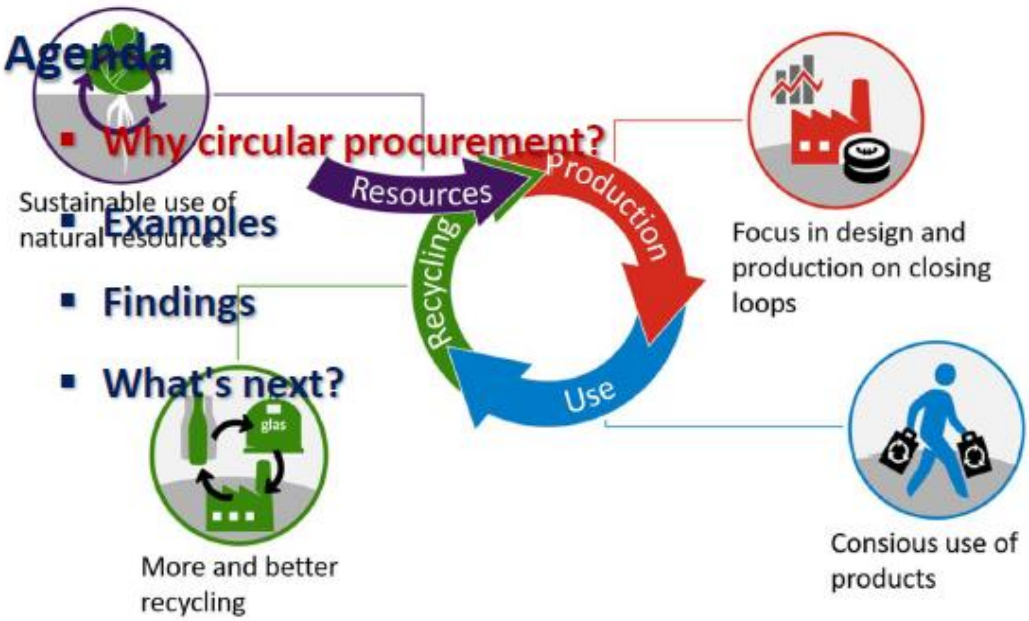
Projects often need to 'tick more boxes' to be circular

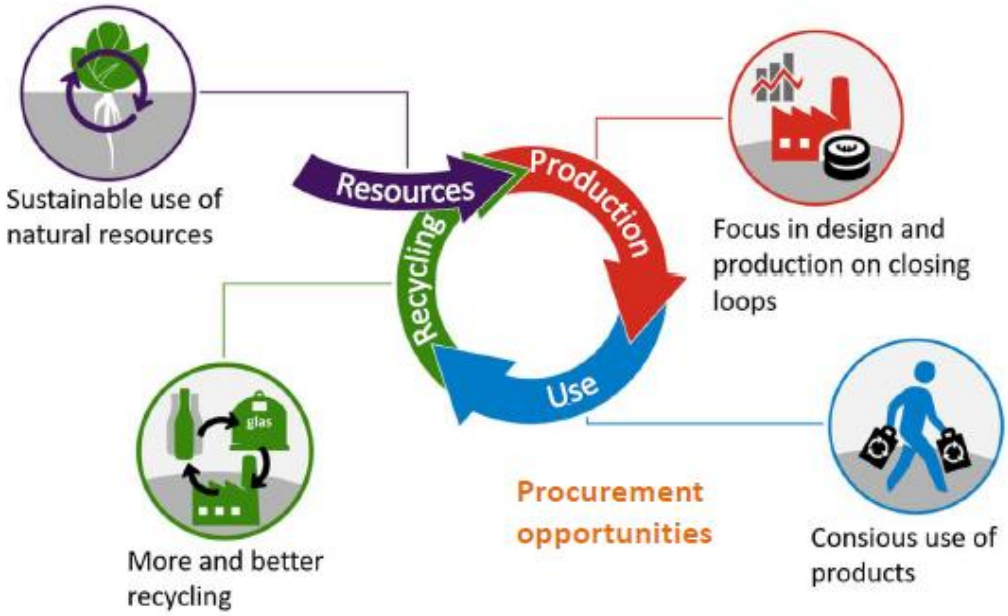
Join forces to further develop

N.	CRITERION	Explanation	Metrics	Additional parameters	Assessment indicator	Weight
PRODUCTION		Re-shaping the first stage of an industrial process (Product design) in order that waste is not generated AND/OR increase the life of the final product	Kg/year of virgin material avoided through the new process AND/OR by the prolongation of the product's life	Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	10
2	New production process accepting "secondary raw material"	Replacement , total or partial, of virgin material with "secondary raw material"	Kg/year of virgin material avoided through the new process	Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	8
CONSUMPTION				Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	8
DISPOSAL 5	Mass of waste resources recovered and re-introduced in a production cycle as secondary raw material	The new process generates waste that can be re-used in the same process or in another production process	Kg/year	Economic value of the secondary raw material(€/Kg) minus Cost of its transport to the production site (€/Kg)(*)	Metrics x additional parameter (€/year)	8
6	Project promoting waste recycling	Promotional campaign with a specific target producing a specific waste	Waste produced by the target Kg/year	Cost of disposal (€/Kg)	Metrics x additional parameter (€/year)	6
ENVIRONMENTAL CRITERIA 7	"Net Energy balance respect to the previous system" or "Amount of energy recovered"	Energy (KWh) used in the old process per unit of product divided by energy used in the new process for the same unit of product	Number that can be lower or higher than 1		Metrics (the number in column C)	1 (the assessment indicator is "per se" a weight)
8	Reduction of emissions	Emissions of CO2 (**) generated by the old process per unit of product divided by emissions used in the new process for the same unit of product	Number that can be lower or higher than 1		Metrics (the number in column C)	
SOCIAL CRITERION 9	Net balance of jobs	Number of new jobs created by the circular economy project, minus	N = Number of full time working units (can be positive or negative)	P = Number of full time working units in the old process	$1 + \frac{(N)}{P}$	
Applicants may select only one of these two boxes	Implementation of "CIRCULAR PROCUREMENT" in the project (tick the box if relevant)		The wheigt of the related project is increased by 50%			
	Educational projects targeted to relevant stakeholders (tick the box if relevant)		The wheigt of the related project is increased by 20%			

(*) In case the secondary raw material does not have a final destination but is just "put on the market", the weight is reduced from 8 to 7

(**) In case of other pollutions, a table of equivalence should be used to convert them into CO2 equivalent emissions - https://climatechangeconnection.org/emissions/co2-equivalents/


Agenda
Why circular procurement?
Examples
Findings
What's next?
Sustainable use of natural resources
Resources
Production
Recycling
Use
Focus in design and production on closing loops
Consious use of products
More and better recycling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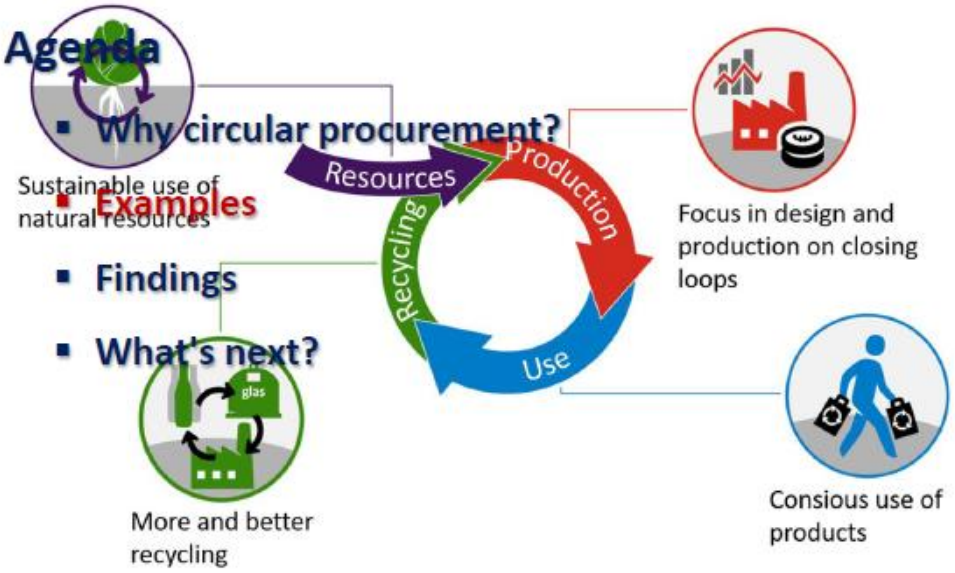
Focus in design and production on closing loops
Procurement opportunities
Consious use of products
More and better recycling

PRACTICE WHAT YOU PREACH
Circular procurement is a lever for circular economy

Relevance
€ 1.800 billion
of procurement?
1.800.000.000.000

Circular procurement
Waste contracts
Resources
Production
Recycling
Waste
Sustainable use of natural resources
Products
Supplier
User
Waste manager
Resources
More and better recycling
Consious use of products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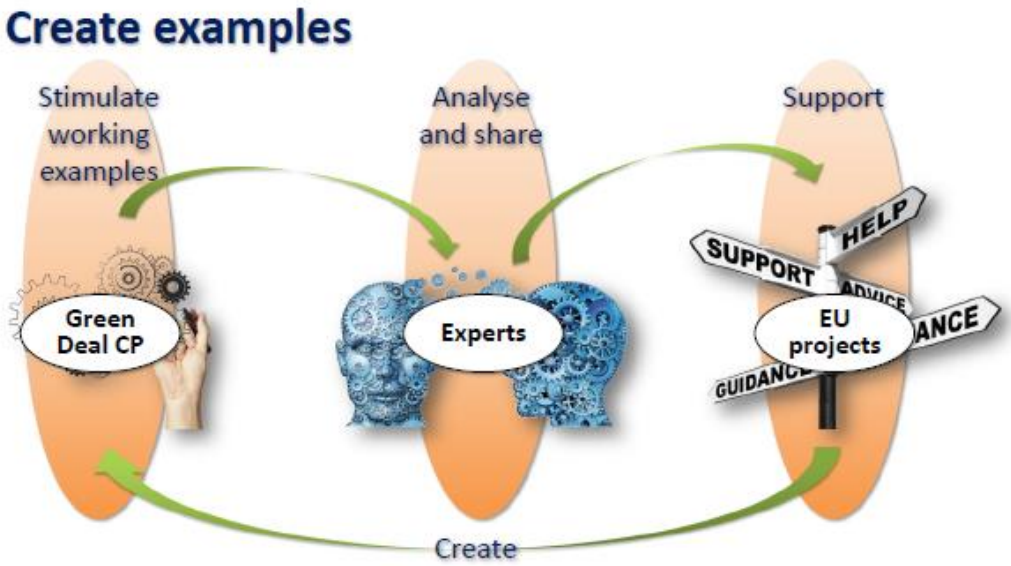

Create examples
Stimulate working examples
Analyse and share
Support
Green Deal CP
Experts
EU projects
HELP
SUPPORT
ADVICE
GUIDANCE
Create

Green Deal Circular Procurement 2.0

Pilots

- Waste
- Catering
- Company clothing
- Mobility
- ICT hardware
- Furniture
- Building & Construction
- Paper
- Packaging

PIANOo DUTCH PUBLIC PROCUREMENT EXPERTISE CENTRE

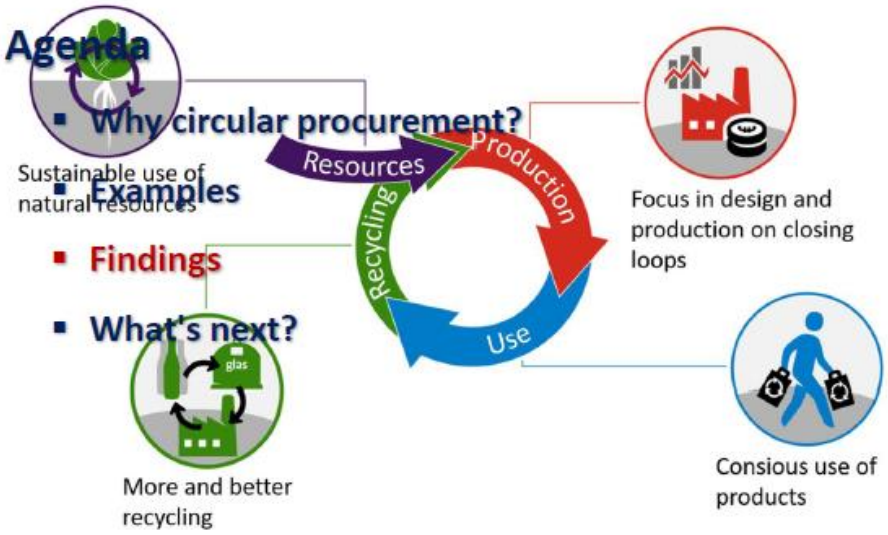
https://www.pianoo.nl/en/sustainable-public-procurement/spp-themes/circular-procurement/getting-started-circular-procurement

Ambition
Organising the design and use of office furniture in a way that products and (raw) materials remain employable.

Goals circular category furniture
Extend life of current furniture by more intensive maintenance
Reuse existing furniture within government
Repair or refurbish (parts of) existing furniture
Circularity requirements when purchasing new furniture

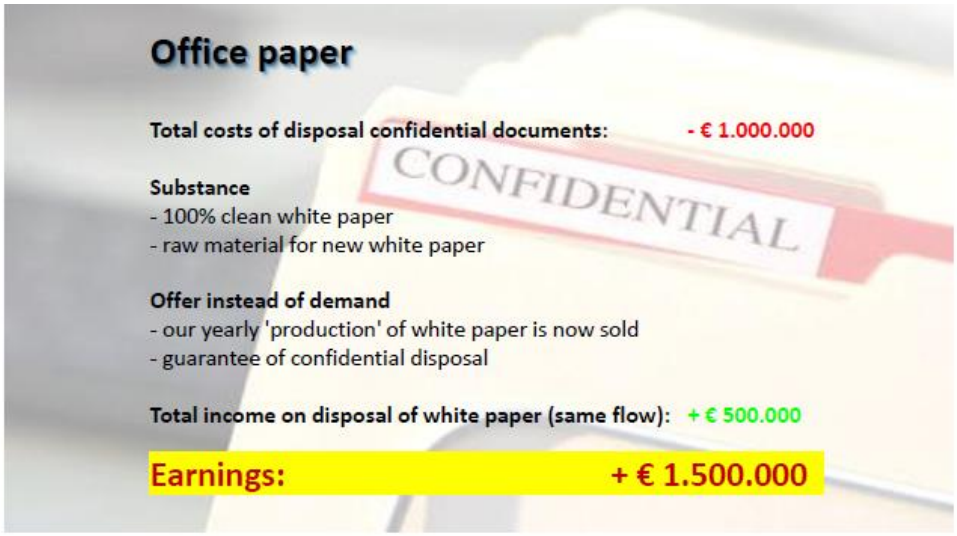
Savings
€ 2,5 - 4 million

Revenues
Costs
CO_2
Waste
Raw materials

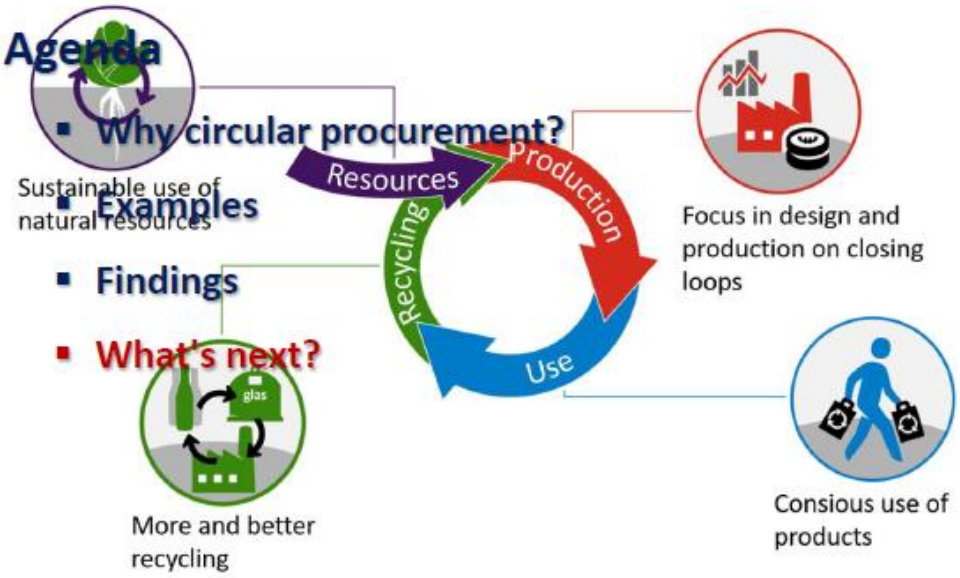


Benefits of circular procurement

- Closing material loops
- Less waste (sustainable and cheaper)
- Cost savings in procurement
- Stimulate (circular) economic activity
- Benefits on other ambitions
- Lead by example / credibility



Butterfly
Simplified
Reality =
Collaboration
products
regional
national
find
solutions
within
sectors
between
sectors
materials
international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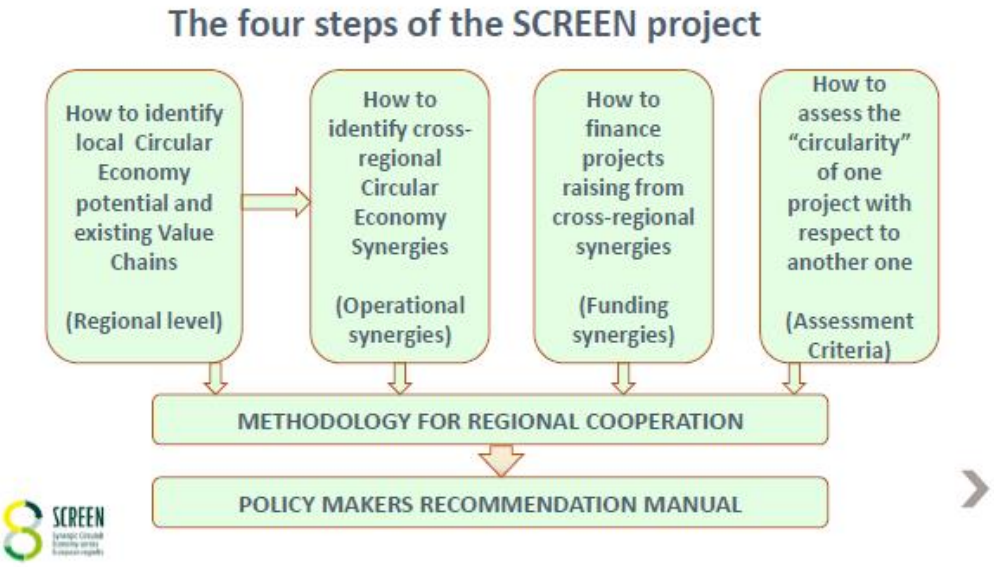
More and better recycling

Regional collaboration in Europe

- Cities and regions are change agents
- Tools like SCREEN to assess and measure and improve
- Green Deals Circular Procurement for acceleration and impact

GDs as hubs for knowledge and tools…

Annex III Presentation of Marcello Colledani - AFIL



SCREEN Methodology: From local to cross-regional value-chains

1. ***Data Collection***: A tool has been designed to collect data about existing capabilities in the Screen Regions, also considering the Smart Specialization Strategies and the key industry sectors.

2. ***Analysis:*** A twofold data-driven and interaction-driven approach has been followed in order to analyse the existing capabilities and identify the existence of regional hotspots and cross-regional opportunities and emerging ideas.

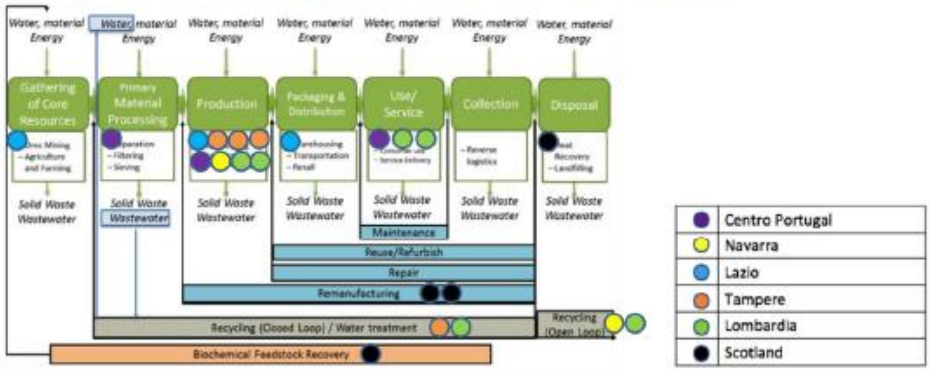
3. ***Synthesis***: The existing cross-regional value-chains have been formalized and specific opportunities that can potentially result in actions to be implemented through cross-regional cooperation have been formalized.

Data Collection: SCREEN Mapping tool

These steps have been formalized within the SCREEN tool. The Regions have compiled the tool and this has been the basis for the local and cross-regional analyses

Data Driven Analysis

Starting from the tool inputs a data-driven analysis of the potential cross-regional value-chains (sector-driven, material-driven) has been carried out.

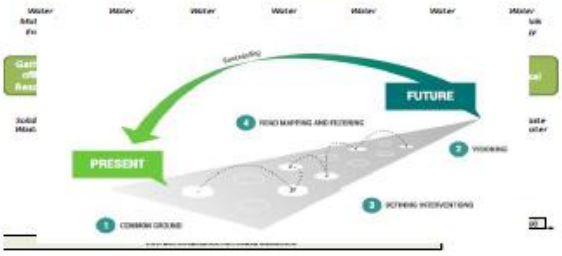


Transport and mobility value-chain.

SCREEN workshops

Starting from the tool inputs and data analysis, value-chains have been further analyzed through international and local workshops.

SCREEN Local workshop held in the Lombardy Region on November 2017, on the *"Circular value chain for the automotive sector"*

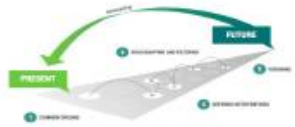


Potential synergies with other Regions have been highlighted

SCREEN Cross-regional value chains

Starting from the tool inputs, local and consortium workshops, the cross-regional synergies have been identified.

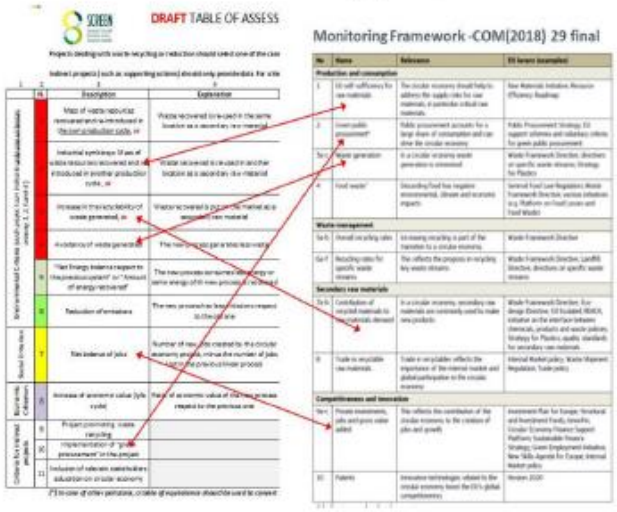
Example of cross-regional value chain for the "Manufacturing and Remanufacturing" sector among Tampere (Finland), Lombardy (Italy) and Navarra (Spain)



SCREEN Cross-regional cooperation projects

Assessment criteria for circular economy projects

- Conceived to be added to the already existing criteria
- Easy to be used by both applicants and evaluators
- Allows an actual comparison (with figures!) of different kinds of circular economy projects
- Positively Checked by 165 European stakeholders through an online questionnaire



SCREEN www.screen-lab.eu/Step4.html

Existing financial instruments

"Existing financial Instruments" have been revised including the instruments already available in the regions which are mapped to:

1. *Further develop **the emerging ideas**, stemming from the results of the previous steps within Screen.*
2. *Gather **best practices** and hints which can fuel the policy lab, created within the project.*

SCREEN

Existing financial instruments

Existing support instruments belonging to each regional portfolio of SCREEN Partners have been collected through a specific format.

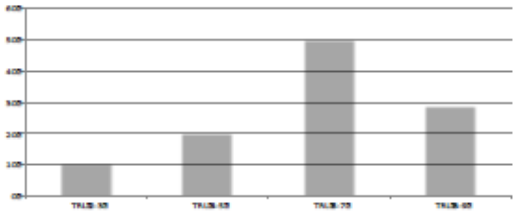
- Dedicated to Circular Economy activities;
- Dedicated to other sectors (e.g. transport, smart cities, energy) with potential to be transferred to Circular Economy.

Support Instrument Description Format	
Field	**Possible values**
Investment instrument name	Free
Brief description of the instrument	Free
Scope of the instrument	Free
Destination area(s) of funds (if any)	Free
Category of beneficiaries	Large Enterprise, SME, RTO, University, Other
Type of financing	Loan, subsidy requiring co-financing, subsidy without co-financing, other
Rate of financing	Free
Eligible Costs	Personnel, Equipment (depreciation), R&I Infrastructure (investment), Consumables, Overheads, Travel, other
Source of funding (ERDF, ESIF, etc.)	Regional, National, European, International, mix (specify), other.
Supported TRL level	[1,2]; [3,4]; [5,6]; [7,8]

SCREEN

Existing financial instruments

Region	Total n° of instruments	Processed Data	Instruments potentially supporting cross-regional cooperation [art 70]	Instruments also targeting CE	Instruments dedicated to CE	TRL 2-3	TRL 4-5	TRL 6-7	TRL 8-9
CCDRC	33	32	25	31	13	-	7	16	9
Extremadura	3	3	3	3	-	-	1	1	0
Fryslan	5	5	2	5	1	1	1	2	1
Scotland	9	8	5	7	2	1	3	5	2
La Reunion	4	4	4	4	-	-	1	2	4
Lombardia	4	4	4	4	-	1	1	3	1
Tampere	1	1	1	1	-	-	-	1	-
Lazio	4	3	3	1	2	-	-	2	3
PGKC	2	2	-	2	-	2	-	-	-
Limburg	11	10	3	9	1	3	1	6	-
Flanders	8	8	4	8	-	-	-	5	3
Navarra	4	4	4	4	-	-	1	2	1
NE Romania	3	3	3	1	-	-	1	-	2
Lodzkie	10	7	3	7	-	3	3	6	3
Total	101	94	64	87	19	11	20	51	29



SCREEN

Existing funding instruments: Lombardy Region example

Successful example of Vouchers for Industry: *Bando Innodriver – S3 – edizione 2017* - 11MEuro to finance the following technological innovation measures:

- Measure A – vouchers in support of cooperation among SMEs and RTOs;
- ***Measure B*** **– vouchers for the Lombardy companies that have obtained the "Seal of Excellence" in the "SME Instruments" phase 1 of Horizon 2020, but they are not financed by the EU due to limited resources;**
- Measure C – vouchers in support of patenting for industrial uptake.

The vouchers of the Lombardy Region come from the ESIF-ERDF Funds and they are already compliant with the Art. 70 of the ESIF Regulation

Regione Lombardia

http://www.fesr.regione.lombardia.it/wps/portal/PROUE/FESR/Bandi/DettaglioBando/Agevolazioni/bando-innodriver-2017

TRL 6-7
Subsidy requiring co-financing

Existing funding instruments: Circular Economy Investment Fund - Scotland

£18 million Circular Economy Investment Fund, administered by Zero Waste Scotland, for SMEs based in Scotland that will deliver circular economy growth. It is supported by the European Regional Development Fund through the £73million Resource Efficiency Circular Economy Accelerator Program

1. Funding applications of £50,000 to £99,999.
2. Higher value applications from £100,000 to £1,000,000

R&I infrastructure (investment costs) are eligible.

ZERO WASTE SCOTLAND

TRL 6-7
Subsidy requiring co-financing

The Fund has been established by Zero Waste Scotland (ZWS), funded in part with European Regional Development Fund (ERDF).

http://www.zerowastescotland.org.uk/circular-economy/investment-fund

Existing funding instruments: Circular Economy and Energy fund - Lazio

REGIONE LAZIO

Destination Area: Instrument targeted to SMEs innovating in the area of circular economy and energy – 10M€.

Circular economy and energy fund - was created to support the development of new value-chains and boost the competitiveness of the local eco-system, in line with the Smart Specialization Strategy of Regione Lazio through the support to thematic projects in the area of circular economy and energy.

http://www.lazioinnova.it/bandi-post/circular-economy-ed-energia/

ROP ERDF- 2014-2020-(50% EU 35% national 15% regional). TRL 6-7.
Subsidy Requiring co-financing
Rate of financing: 10%-80%

Existing funding instruments: Success stories

"By combining existing and innovative mechanical and chemical recycling technologies, project Beacon boosts the local economy and enables household and large rigid plastics to be recycled instead of incinirated",Chief Executive Officer of Recycling Technologies.

ZERO WASTE SCOTLAND

Success Story Title:
Funding instrument: Circular Economy Investment Fund
Region: Scotland
Starting Date – End Date: 2018
Involved Stakeholders: Ferguson's PI-Polymer Recycling, Recycling Technologies Ltd and Impact Recycling Ltd
Description of the action: Project Beacon, a big solution to a big problem which combines existing and **innovative mechanical and chemical recycling to create a world-first Advanced Plastics Reprocessing facility at Binn Eco Park, Perthshire**. Beacon has been supported by Zero Waste Scotland, the Circular Economy Investment Fund (backed by Scottish Government and European Regional Development Funding) has just awarded funding of £1.7million in Perthshire. By locating state-of-the-art recycling technologies together, significantly more plastic is kept in the economy and diverted from landfill and incineration, contributing towards Scotland's ambitious recycling targets. Activity: The system being developed at Project Beacon combines the latest material separation combined with a chemical feedstock recycling process. The key element is said to be a patented process based on thermal cracking which has been developed to cope with difficult to recycle end-of-life plastic waste such as mixed, laminated, black, film, hard and contaminated streams. The process produces a range of chemical constituents that can be used to create new virgin plastics, or other chemical products.
Achieved results: **The facility will process between 15,000 and 25,000 tonnes of plastics per annum and create over 70 new jobs.**
Support material: https://www.zerowastescotland.org.uk/case-study/project-beacon

Matching local emerging ideas, and cross-regional value chains with instruments

2. Match the Circular Economy emerging and the cross-regional value-chains towards the existing instruments, at regional and European levels.
3. Identify the *gaps* existing among investment instruments and promising Circular Economy Initiatives.

	Investment Instrument type 1	Investment Instrument type 2
CE Initiative 1	X	
CE Initiative 2		X
CE Initiative 3	X	X
CE Initiative 4		

GAP

4. Identify recommendations for the definition of specific regional and *multi regional measures*, to be applied in support of Circular Economy initiatives.

Matching local emerging ideas, and cross-regional value chains with instruments

TRL 6-7

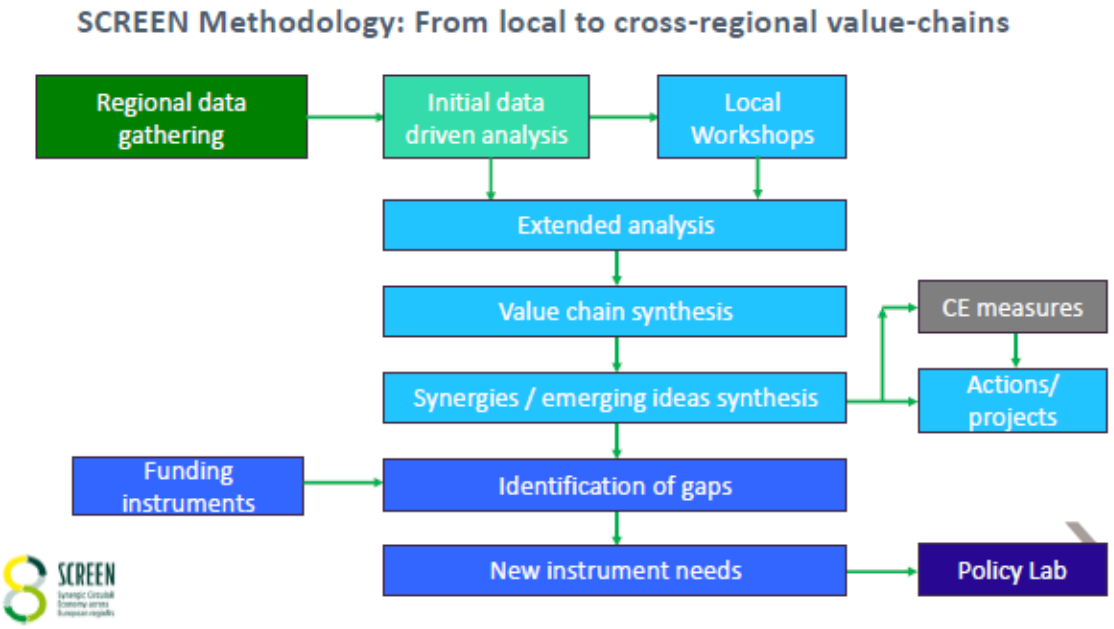
Matching local emerging ideas, and cross-regional value chains with instruments

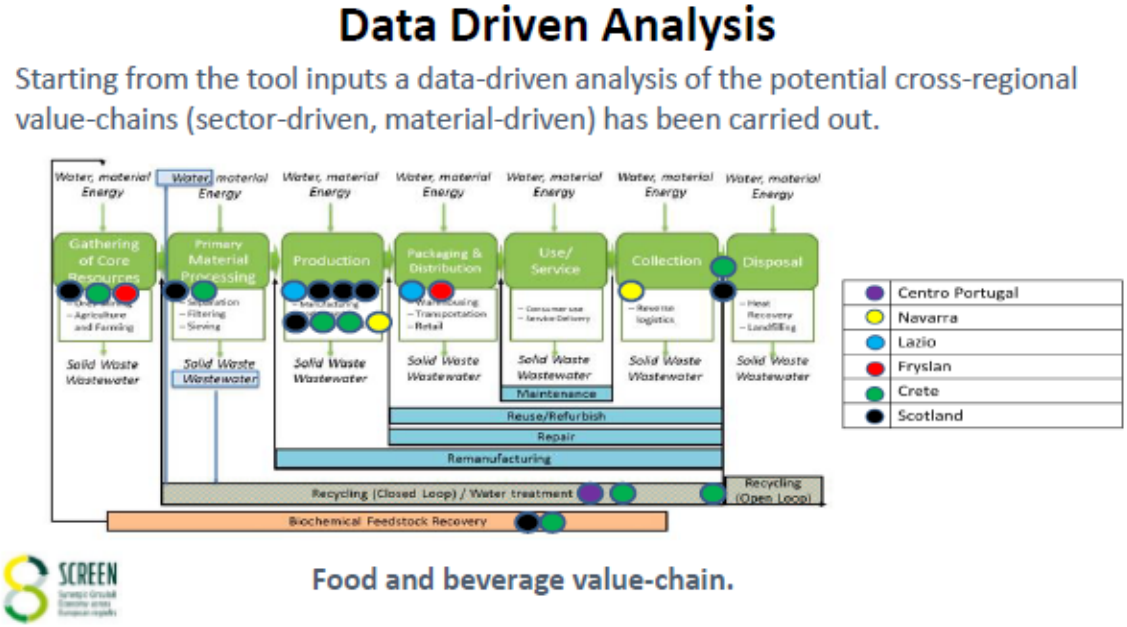
Lazio - Circular Economy and Energy fund: Instrument targeted to SMEs providing subsidies requiring co-financing, with a funding rate between 10%-80%, at TRL 6-7, on the ROP ERDF-2014-2020 fund, with a funding mix 50% EU, 35% national, 15% regional.

Fryslan- Circulair Economy Call Fryslân: instrument targeted to SMEs providing subsidies requiring co-financing, with a funding rate of maximum 40%, at TRL 6-7, on regional funds.

Considerations and recommendations

- Although "Existing financial Instruments" at regional level are usually applied in isolation, even if they could be partially used to support cross-regional initiatives, there exist recently developed instruments favouring a cross-regional cooperation (e.g. Fund of funds).
- In general, cross-regional cooperation is not reflected in the evaluation of projects.
- The transfer of technologies and solutions from one region to another, among sectors, is usually not supported by specific instruments.
- The "Seal of Excellence" approach is currently only applied only to the SME Instrument.
- Only few instruments support the development of innovation infrastructures through ERDF to de-risk by demonstration future industrial investments in circular economy.
- The establishment of a ERA-NET like fund for circular economy would support the development of focused projects originated by the identified SCREEN synergies.
- A cross regional open innovation initiative may be useful to promote the systematic identification of inter-regional actions, extending the SCREEN methodology beyond the project life.


SCREEN Methodology: From local to cross-regional value-chains
Regional data gathering
Initial data driven analysis
Local Workshops
Extended analysis
Value chain synthesis
CE measures
Synergies / emerging ideas synthesis
Actions/ projects
Funding instruments
Identification of gaps
New instrument needs
Policy Lab
SCREEN


Data Driven Analysis
Starting from the tool inputs a data-driven analysis of the potential cross-regional value-chains (sector-driven, material-driven) has been carried out.
Water, material Energy
Gathering of Core Resources
Primary Material Processing
Production
Packaging & Distribution
Use/ Service
Collection
Disposal
Solid Waste Wastewater
Maintenance
Reuse/Refurbish
Repair
Remanufacturing
Recycling (Closed Loop) / Water treatment
Recycling (Open Loop)
Biochemical Feedstock Recovery
Centro Portugal
Navarra
Lazio
Fryslan
Crete
Scotland
SCREEN
Food and beverage value-chain.

SCREEN Cross-regional value chains

The most relevant value-chains have been identified and analyzed:

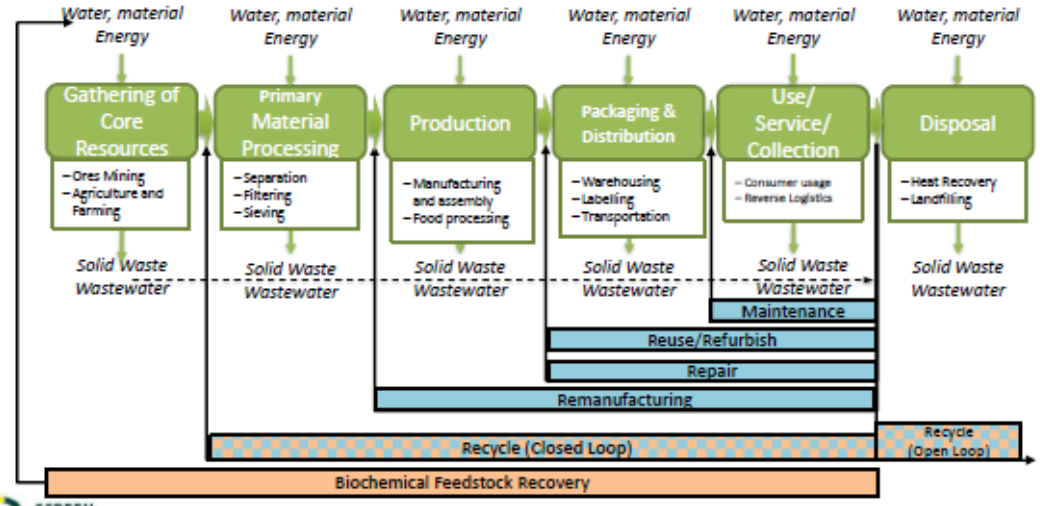
Material-driven value-chains

- Agriculture
- (Smart) Packaging
- Water and wastewater
- Biobased materials & biotechnology
- Manufacturing & de-manufacturing
- (Bio)waste management
- Construction/Build Environment

Business driven sectorial value-chains

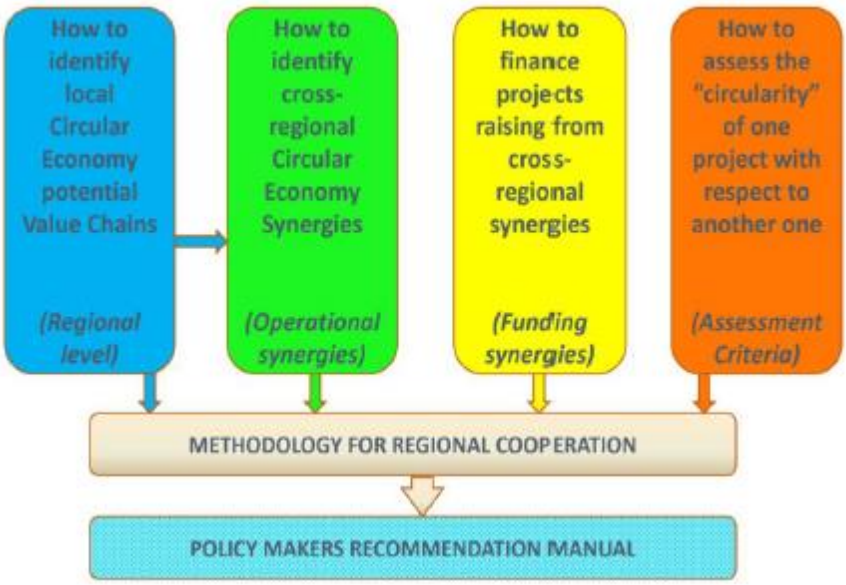
- Electrical and Electronic Equipment
- Energy
- Paper and forest-based industry
- Textile
- Transport and mobility
- Food and beverage

Reference Framework: Value-Chain oriented approach

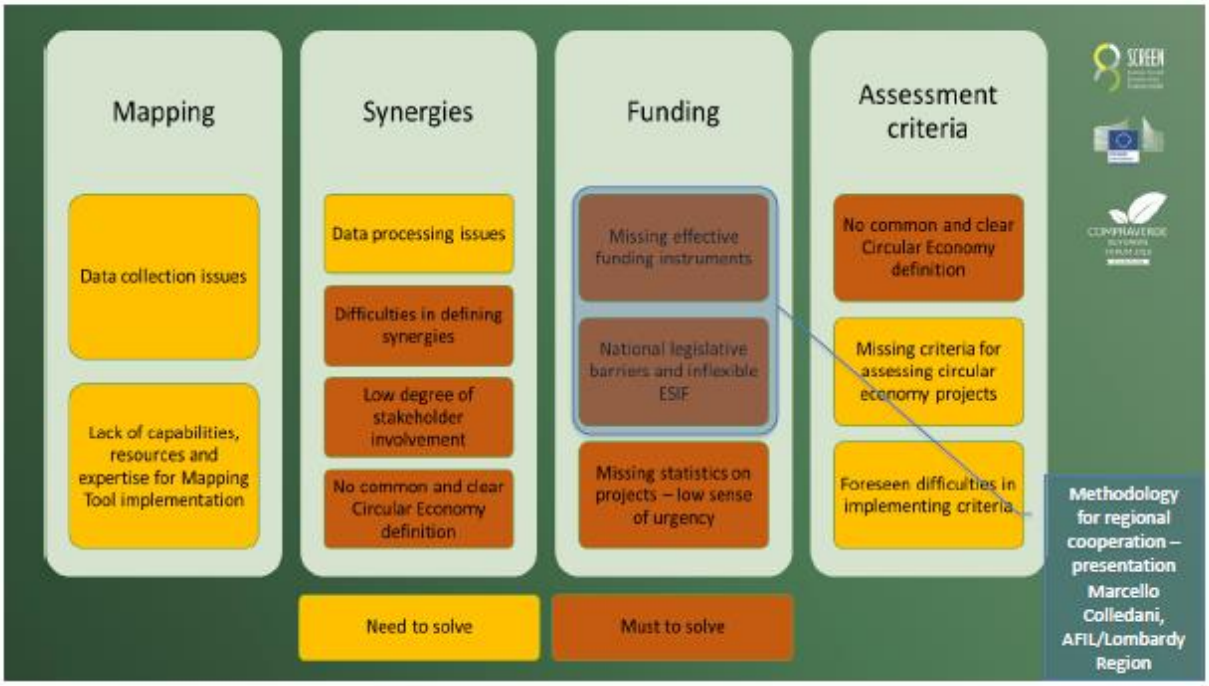


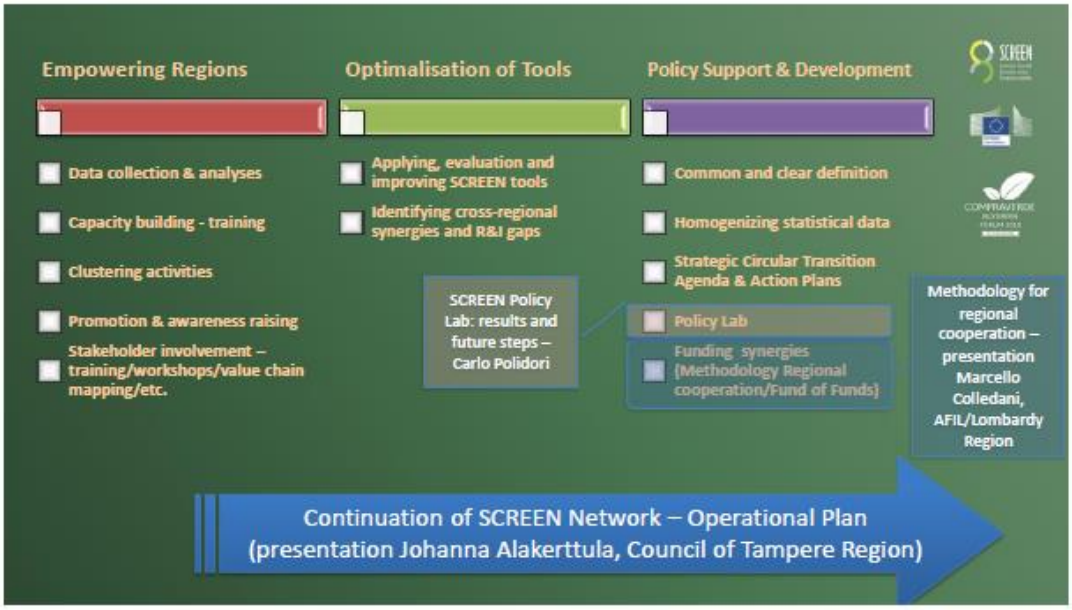
Glossary: A definition for the different circular economy options has been elaborated (relation to existing standards and references).

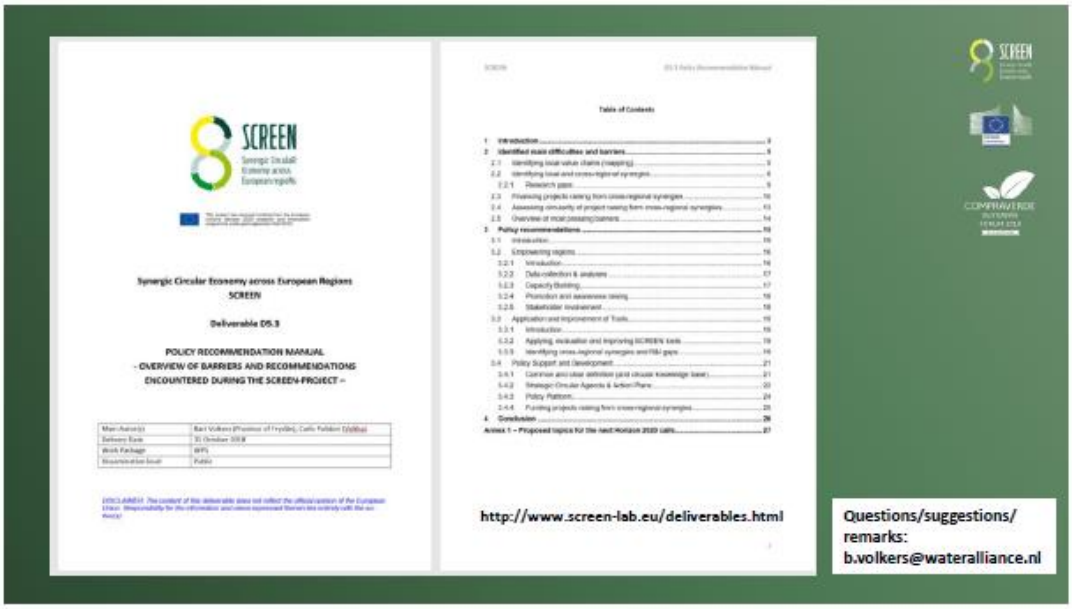
Annex IV Presentation of Bart Volkers – Province of Fryslan



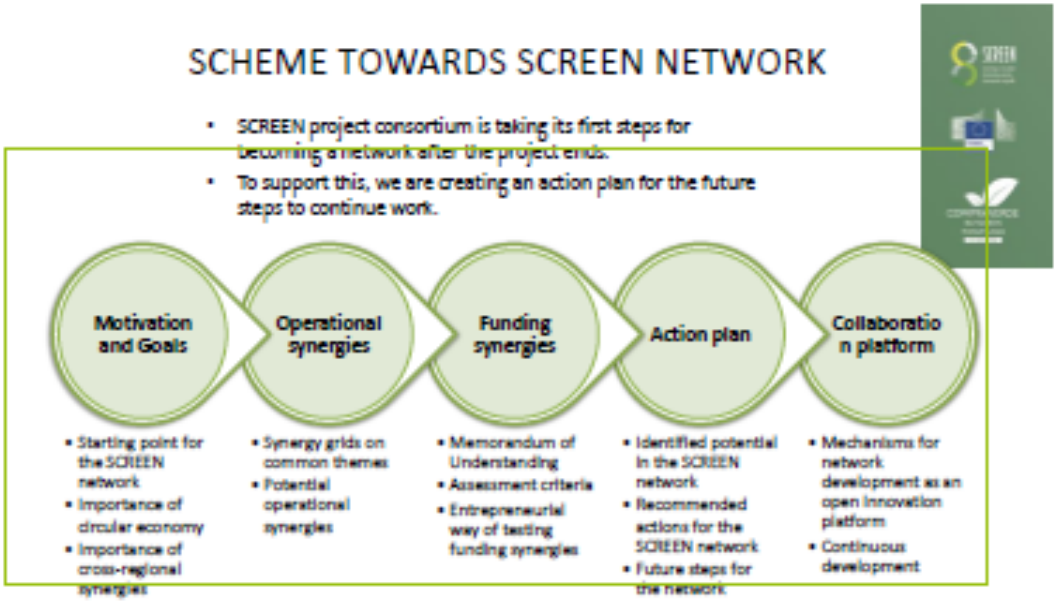
Policy Lab
Workshops
Questionnaire
Evaluation of Tool implementation


Mapping
Data collection issues
Lack of capabilities, resources and expertise for Mapping Tool implementation
Synergies
Data processing issues
Difficulties in defining synergies
Low degree of stakeholder involvement
No common and clear Circular Economy definition
Funding
Missing effective funding instruments
National legislative barriers and inflexible ESIF
Missing statistics on projects – low sense of urgency
Assessment criteria
No common and clear Circular Economy definition
Missing criteria for assessing circular economy projects
Foreseen difficulties in implementing criteria
Need to solve
Must to solve
Methodology for regional cooperation – presentation Marcello Colledani, AFIL/Lombardy Region


Empowering Regions
Optimalisation of Tools
Policy Support & Development
Data collection & analyses
Capacity building - training
Clustering activities
Promotion & awareness raising
Stakeholder involvement – training/workshops/value chain mapping/etc.
Applying, evaluation and improving SCREEN tools
Identifying cross-regional synergies and R&I gaps
Common and clear definition
Homogenizing statistical data
Strategic Circular Transition Agenda & Action Plans
Policy Lab
Funding synergies (Methodology Regional cooperation/Fund of Funds)
SCREEN Policy Lab: results and future steps – Carlo Polidori
Methodology for regional cooperation – presentation Marcello Colledani, AFIL/Lombardy Region
Continuation of SCREEN Network – Operational Plan (presentation Johanna Alakerttula, Council of Tampere Region)


Synergic Circular Economy across European Regions
SCREEN
Deliverable D5.3
POLICY RECOMMENDATION MANUAL
- OVERVIEW OF BARRIERS AND RECOMMENDATIONS ENCOUNTERED DURING THE SCREEN-PROJECT –
Table of Contents
http://www.screen-lab.eu/deliverables.html
Questions/suggestions/ remarks: b.volkers@waterallliance.nl

Annex V Presentation of Johanna Alakerttula– Tampere Region



STARTING POINT FOR SCREEN NETWORK

- SCREEN networks motivation comes from its ability to connect technologically advanced regions with runner ups providing a possibility for regions and their local stakeholders to increase their innovation capabilities regardless of their starting point.
- Common circular economy goals are important both for the regional smart specialisations and for finding common opportunities
- Cross-regional synergies, both innovation synergies and policy synergies are important fuel for the network. The SCREEN methodology enables focus in finding fit between cross-regional capabilities.

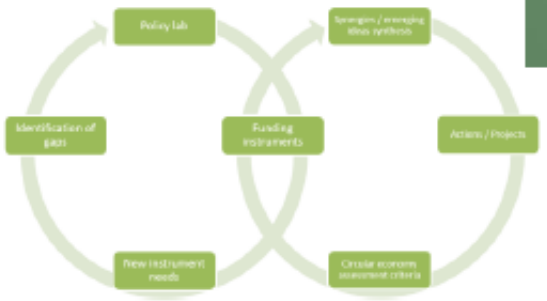
17	European Regions
12	European Countries
+30	International and local workshops
6	Policy lab meetings
+20	circular economy value chains
+200	Identified emerging ideas
+20	Potential operational synergies
+100	cross-regional funding synergies
9	Signed Memorandum of understandings, Letter of Intents

FROM CROSS-REGIONAL OPPORTUNITIES TO OPERATIONA SYNERGIES

- During the SCREEN project much of work has been done to identify synergies between regions. Now we are preparing future actions to realise operational synergies into initiatives.
- We have used regional baseline analysis, local workshops, thematic working groups and international workshops to structure operational synergies
- We have identified +20 different types of potential operational synergies to take forward in SCREEN network

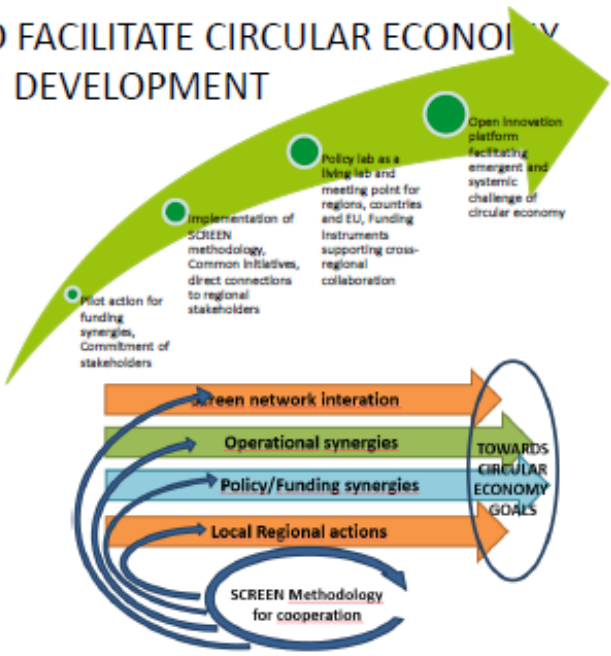
FUNDING SYNERGIES FOR MORE EFFICIENT USE OF FUNDIN INSTRUMENTS

- Work has been done towards finding solutions for more effective use of different funding instruments to support both, cross-regional cooperation and circular economy initiatives.
- Currently work is done in finding pilot action for testing funding synergies.
- Regions are contacting their national contact points to find project application that have been well ranked above treshold but not financed.
- Waiting for the European Commission to update the Article 70, that is designed to support the use of funds in cross-regional initiatives.



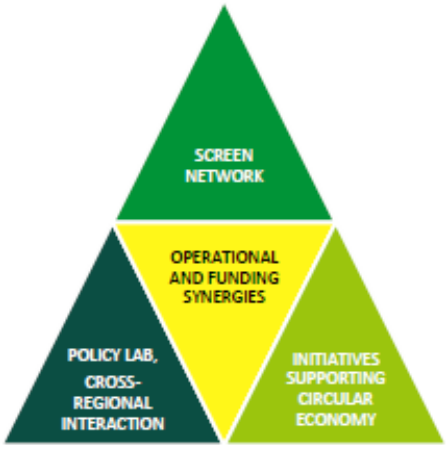
ACTION PLAN TO FACILITATE CIRCULAR ECONOMY DEVELOPMENT

- Action plan is created to continue work based on the results of SCREEN project
- As a short term goal it is essential to find commitment and apply SCREEN tools and results in strategic work.
- As a longer term goal is to formalize Policy lab as a living lab for policy development between regions and European Commission.
- As a cross-regional network it is essential to work in parallel streams of action both on cross-regional and local levels. This enables to bring systematically regional stakeholders to the same table.



COLLABORATION PLATFORM TO FACILITATE NETWORK COOPERATION

- Goal is to form a Functional collaboration platform for regions to support their development towards circular economy and continue to use the results of SCREEN project.
- The collaboration platform is under a planning phase and we are considering next steps to realise the goal
- The design principles for the platform development:
  - Synergic Circular Economy Across European Regions is the driving force in the SCREEN network
  - Network effect – partners creating value for each other and making platform attractive to each other
  - Core building blocks – Community, Space and Activities and connections between



Annex VI Presentation of Carlo Polidori– VELTHA ivzw

Laboratory on Policies

MEMORANDUM OF UNDERSTANDING

for a synergic use of regional and European funds targeted to circular economy projects

THE SIGNATOIRES OF THIS DOCUMENT,

Having regard to the EU action plan for the Circular Economy[1]

Whereas:

(1) The transition to a more circular economy is an essential contribution to develop a sustainable and competitive economy, as well as an opportunity to generate new and sustainable competitive advantages for the European Regions.

(2) Regional authorities have a key role to play in the transition towards Circular Economy and greater synergies; nevertheless, fragmentation of resources and implementation difficulties obstruct progress towards achieving common objectives.

(3) The European Commission publication "*EU Funds working together for jobs & growth*[2]" shows how some funds synergies are possible and encourages their implementation

(4) At the level of a comprehensive program, synergies between the European Structural and Investment Funds (ESIF) and H2020 is possible and visible, even if not yet completely tested in real cases.

(5) Specific actions already initiated by some regions are good examples of best practices and could also be implemented at European level.

(6) Article 70 of the ESIF regulation allow operations implemented outside the programme area, but within the EU, up to 15% of the allocated funds; however, there is no evidence of its actual application.

OPEN to all European regions!!

Text, explanatory notes and already signed documents available at:

http://www.screen-lab.eu/Step3.html

Assessment criteria for circular economy projects (to be added to the usual ones in case of C.E. projects)

Environmental Criteria (each project can indicate a minimum of 1, 2, 3 and 4)	1	Mass of waste resources recovered and re-introduced in the own production cycle, or	Waste recovered is re-used in the same location as a secondary raw material
	2	Industrial symbiosys: Mass of waste resources recovered and re-introduced in another production cycle, or	Waste recovered is re-used in another location as a secondary raw material
	3	Increase in the recyclability of waste generated, or	Waste recovered is put on the market as a secondary raw material
	4	Avoidance of waste generated	The new process generates less waste
	5	"Net Energy balance respect to the previous system" or "Amount of energy recovered"	The new process consumes less energy or same energy of th new process is recovered
	6	Reduction of emissions	The new process has less emissions respect to the old one
Social Criterion	7	Net balance of jobs	Number of new jobs created by the circular economy project, minus the number of jobs lost in the previous linear process
Economic Criterion	8	Increase of economic value (life cycle)	Ratio of economic value of the new process respect to the previous one
Criteria for indirect projects	9	Project promoting waste recycling	
	10	Implementation of "green procurement" in the project	
	11	Inclusion of relevant stakeholders education on circular economy	

(*) In case of other pollutants, a table of equivalence should be used to convert

Monitoring Framework -COM(2018) 29 final

No	Name	Relevance	EU levers (examples)
Production and consumption			
1	EU self-sufficiency for raw materials	The circular economy should help to address the supply risks for raw materials, in particular critical raw materials	Raw Materials Initiative; Resource Efficiency Roadmap
2	Green public procurement*	Public procurement accounts for a large share of consumption and can drive the circular economy	Public Procurement Strategy; EU support schemes and voluntary criteria for green public procurement
3a-c	Waste generation	In a circular economy waste generation is minimised.	Waste Framework Directive; directives on specific waste streams; Strategy for Plastics
4	Food waste*	Discarding food has negative environmental, climate and economic impacts.	General Food Law Regulation; Waste Framework Directive; various initiatives (e.g. Platform on Food Losses and Food Waste)
Waste management			
5a-b	Overall recycling rates	Increasing recycling is part of the transition to a circular economy	Waste Framework Directive
6a-f	Recycling rates for specific waste streams	This reflects the progress in recycling key waste streams	Waste Framework Directive; Landfill Directive; directives on specific waste streams
Secondary raw materials			
7a-b	Contribution of recycled materials to raw materials demand	In a circular economy, secondary raw materials are commonly used to make new products	Waste Framework Directive; Eco-design Directive; EU Ecolabel; REACH; initiative on the interface between chemicals, products and waste policies; Strategy for Plastics; quality standards for secondary raw materials
8	Trade in recyclable raw materials	Trade in recyclables reflects the importance of the internal market and global participation in the circular economy	Internal Market policy; Waste Shipment Regulation; Trade policy
Competitiveness and innovation			
9a-c	Private investments, jobs and gross value added	This reflects the contribution of the circular economy to the creation of jobs and growth	Investment Plan for Europe; Structural and Investment Funds; InnovFin; Circular Economy Finance Support Platform; Sustainable Finance Strategy; Green Employment Initiative; New Skills Agenda for Europe; Internal Market policy
10	Patents	Innovative technologies related to the circular economy boost the EU's global competitiveness.	Horizon 2020

TABLE OF ASSESSMENT CRITERIA FOR CIRCULAR ECONOMY PROJECTS - REV. 3.0

These criteria are based on the explanation given in the circular economy action plan [COM(2015) 614], where circular economy is explained as an economy ***'where the value of products, materials and resources is maintained in the economy for as long as possible, and the generation of waste minimised'***. The cost (€/year) as an intermediate indicator is a mean to harmonize the different metrics and to easily arrive at a coherent and transparent ranking list.

		A	B	C	D	E	F
	N.	**CRITERION**	**Explanation**	***Metrics***	***Additional parameters***	***Assessment indicator***	***Weight***
PRODUCTION	1	**ECO- Design**	Re-shaping the first stage of an industrial process (Product design) in order to reduce the waste generated AND/OR increase the life of the final product	Kg/year of virgin material avoided through the new process AND/OR by the prolongation of the product's life	Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	10
	2	**New production process accepting "secondary raw material"**	Replacement , total or partial, of virgin material with "secondary raw material"	Kg/year of virgin material avoided through the new process	Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	8
CONSUMPTION	3	**RE-Use, Re-Manufacturing, Refurbishment,**	Prolongation of the life of a certain product that otherwise will be disposed	Kg/year of virgin material avoided by the prolongation of the product's life	Economic value of the virgin material (€/Kg)	Metrics x additional parameter (€/year)	8
DISPOSAL	5	**Mass of waste resources recovered and re-introduced in a production cycle as secondary raw material**	The new process generates waste that can be re-used in the same process or in another production process	Kg/year	Economic value of the secondary raw material(€/Kg) **minus** Cost of its transport to the production site (€/Kg) (*)	Metrics x additional parameter (€/year)	8
	6	**Project promoting waste recycling**	Promotional campaign with a specific target producing a specific waste	Waste produced by the target Kg/year	Cost of disposal (€/Kg)	Metrics x additional parameter (€/year)	6
ENVIRONMENTAL CRITERIA	7	**"Net Energy balance respect to the previous system" or "Amount of energy recovered"**	Energy (KWh) used in the old process per unit of product divided by energy used in the new process for the same unit of product	Number that can be lower or higher than 1		Metrics (the number in column C)	1 (*the assessment indicator is "per se" a weight*)
	8	**Reduction of emissions**	Emissions of CO2 (**) generated by the old process per unit of product divided by emissions used in the new process for the same unit of product	Number that can be lower or higher than 1		Metrics (the number in column C)	
SOCIAL CRITERION	9	**Net balance of jobs**	Number of new jobs created by the circular economy project, minus the number of jobs lost in the previous linear process	N = Number of full time working units (can be positive or negative)	P = Number of full time woking units in the old process	$1+\frac{(N)}{P}$	
Applicants may select only one of these two boxes		**Implementation of "CIRCULAR PROCUREMENT" in the project** *(tick the box if relevant)*		The weight of the related project is increased by 50%			
		Educational projects targeted to relevant stakeholders *(tick the box if relevant)*		The weight of the related project is increased by 20%			

(*) In case the secondary raw material does not have a final destination but is just "put on the market", the weight is reduced from 8 to 7

(**) In case of other pollutans, a table of equivalence should be used to convert them into CO2 equivalent emissions - https://climatechangeconnection.org/emissions/co2-equivalents/

Assessment procedure *(Example in the following pages)*

Applicants should:

1) Select the item in which their project falls - only one among the options from 1 to 6;
2) clearly describe the project and its metrics as requested in column C;
3) Declare and prove the economic value of the materials/cost of disposal by using current market prices, as requested in column D; 4) Provide the information related to the environmental and social criteria, as requested in rows 7, 8 and 9.
Circular procurement or educational projects should anyway enable or facilitate a project falling in one of the option from 1 to 6, thus the relevant box should be selected and the same above procedure should be completed.

Assessors should:

1) Verify the compliance to the above instructions and the congruence of the metrics declared with respect to the project description;
2) Verify that the economic value/costs are adequately proven.
3) Multiply the metrics of the chosen criterion (only one among the options from 1 to 6) per its additional parameter, thus obtaining a value expressed in €/year.
4) Multiply such a value for the assessment indicator 7, then for the indicator 8 and finally for the indicator 9, obtaining a value in €/year that can be higher or lower than the previous one;
5) Verify if one of the boxes "circular procurement " or "educational project" and apply the related weight.

EXAMPLE OF APPLICATION

The following example shows how the "*intermediate*" cost indicator is used only to harmonize different metrics and therefore allows to compare different kinds of projects; it disappears at the end, where the circularity of one project respect one or more others is expressed by a pure number.

Project 1

A company producing a product X has a current annual production of 1500 units and 19 workers. The company submits a project for a re-design of its products in order to reduce the amount of raw materials needed for the production. The right option is the N.1 "ECO-Design"

The project contains a detailed list of the raw materials avoided through the new design process, together with their value at the current market prices (that are adequately proven). Such a list shows, for each new unit, a total of 4 kg of material avoided respect to the previous project, having a value of 10,05€.

The amount of energy used in the new process will be 250 Kwh per unit, while the current process needs 275 Kwh per unit

The current amount of equivalent CO2 generated per each unit produced is 12,432 Kg, while the new process will generate 11,025 Kg.

The new process will imply the reduction of personnel from 19 to 18, for the same amount of production, thus Number of new employees N=-1, Number of current employees P=19.

Assessment of project 1

- Metrics (row 1, column C): 1500 units/year X 4Kg of raw materials avoided = 6000Kg/year
- Additional parameter: The average value of the material avoided is 10.05/4 = 2,512 €/kg
- Assessment indicator (step 1) = 6000Kg/year X 2,512 €/kg = 15.072,00 €/year
- Environmental criterion 7 = 275 Kwh/250 Kwh = 1,100
- Environmental criterion 8 =12,432 Kg /11,025 Kg =1,127
- Social criterion 9 = 1+(-1/19) = 0,947
- Assessment indicator (step2) = 15.072,00€/year X 1,100 X 1,127 X 0,947 = 17.694,47 €/year
- Circular Procurement NO
- Educational Project NO
- Weight of criterion 1 = 10
- Final assessment = 17.694,47 X 10 = 176.944,70 €/year

Project 2

A not-for profit organisation submit a project foreseeing a promotional campaign targeted at the public authorities of the Region XX to collect the obsolete/damaged furniture of their offices usually disposed in landfills, that will be partially (the obsolete ones) put in a second-hand furniture market and partially (the damaged ones) put in the market of the secondary raw materials. The project also foresees a specific training targeted to the officers of public authorities on how to launch public calls for the re-use their other obsolete materials before disposing them.

The application contains a study showing that all the public offices in the Region XX change in average 825 furniture pieces per year, the average weight of the single piece is 17,74 Kg for a total disposed mass of 825 X 17,74 = 14.635,50 Kg per year. The study also demonstrates that in the Region XX the average total cost of disposal of office furniture is € 0,87/Kg.

The not-for profit organisation has currently 3 full time employees and with the new project will hire 3 new full time employees.

The right option is the N.6 "Project promoting waste recycling" The box "Educational project targeted to relevant stakeholders" is marked due to the training of public officers. Criteria 7 and 8 are not applicable and have the "*neutra*l" value 1. P = current full time personnel= 3; N = number of new employees = 3

Assessment of project 2

- Metrics (row 6, column C): 14.635,50Kg/year avoided to be disposed in landfills
- Additional parameter: Cost of disposal = 0,87 €/kg
- Assessment indicator (step 1) = 14.635,50 Kg/year X 0,87 €/kg = 12.732,89 €/year
- Environmental criterion 7 = not applicable = 1
- Environmental criterion 8 = not applicable = 1
- Social criterion 9 = 1+(3/3) = 2
- Assessment indicator (step2) = 12.732,89 €/year X 1,00 X 1,00 X 2,00 = 25.465,77 €/year
- Circular Procurement NO
- Educational Project YES
- Weight of criterion 6 = 6, further increased by 20% = 7,2
- Final assessment = 25.465,77 X 7,2 = 183.353,54 €/year

Comparing the circularity of the two projects

Project 2 is $\frac{183.353{,}54\ €/\text{year}}{176.944{,}70\ €/\text{year}}$ **= 1,036 times more circular than Project1**

The above circularity criterion should be added to the usual criteria adopted for the projects' assessment

(Note: In case of several projects the procedure is the same and the circularity of each project will be compared against the one having the highest value)

Thank you for your Attention!

Carlo Polidori - polidori.carlo@telenet.be

Policy Lab, through Veltha, remains the focal point during the transition period

www.screen-lab.eu