

La proposta del Piano d'Azione del Progetto Interreg Europe Circe – Regioni Europee verso l'Economia Circolare

18 novembre 2019

Programma Interreg Europe – II Call (Environment & Resource efficiency) - 9 semestri di durata



- LP Regione Lombardia (Italy)
- PP 2 Generalitat de Catalunya (Spain)
- PP 3 Marshal's Office of L. Silesia Voivodship (Poland)
- PP 4 Province of Gelderland (The Netherlands)
- PP 5 London Waste And Recycling Board (UK)
- PP 6 Creation Development EcoEnterprises (France)
- PP 7 Sofia Municipality (Bulgaria)
- PP 8 Skupnost Občin Slovenije (Slovenia)

Partner 

 **Settori**
(circa 25 visite a impianti)

- Edilizia e inerti
- Scarti alimentari
- Biomasse
- Materie prime
- Tessile
- Plastica
- RAEE
- Turismo

COM (2015)
614



20 Stakeholder lombardi



Circe tool – opportunities (1/2)

Salvataggio automatico | Circe_Tool_PP01_Lombardy_11052018 - Excel | Dario Sciunnach

File Home Inserisci Layout di pagina Formule Dati Revisione Visualizza Guida

Calibri 11 | Testo a capo | Generale | Formattazione condizionale | Formatta come tabella | Normale 5 Normale 6 Normale 6.2 Normale 7 Percentuale 2 Normale | Inserisci Elimina Formata | Somma automatica | Riempimento | Cancella | Ordina e filtra | Trova e seleziona

A10 | PP01_S5_004

Latent Circular Economy Opportunities								
Objective								
Synthesize latent and non-explicitated Circular Economy opportunities derived by a cross-sectorial, cross-regional or internal gap identification analysis								
Opportunity ID	Opportunity name	Principal stakeholder name	Type of stakeholder	Type of action	Source	Abstract	Target product/material/service	Potential stakeholders
PP01_S5_001	Enhance the territorial Network for recovering and re-distribution	Regione Lombardia, Directorate Environment, Unit Waste planning	Innovation	Innovation	Internal Gaps	Enhance the network of territorial resources (GDO outlets, shops, distributors, canteens) - Banco Alimentare della Lombardia manages a hub for collecting and recovering surpluses in delimited territories in Lombardy, and then redistributing them to charitable structures in the same territory. The benefits of the network are: 1) to ensure a better dietary mix for the assisted person, 2) maximize the collection from mid / small groups leveraging on the local presence, 3) optimize the recovery of fresh food and cooked meals by improving the efficiency through the creation of local food bank warehouses, 4) To activate networks of relationships on the territory that can create links and implications in terms of inclusion and social cohesion	Food	Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER Alta Tecnologia Agrofood, CLUSTER Smart Cities and Communities.
PP01_S5_002	SITICIBO RISTORAZIONE in School Canteen	Regione Lombardia, Directorate Environment, Unit Waste planning	Innovation	Innovation	Cross-sectorial	Enlarge the scope of Siticibo Ristorazione in School canteen through the full deployment of the program with the collection of cooked meals in addition of bread and fruit already recovered. The most significant policy options can be the support at a legislation level, or with other specific supports and through the availability of an infrastructure for managing fresh food also in this context.	Food	Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER Alta Tecnologia Agrofood, CLUSTER Smart Cities and Communities.
PP01_S5_003	Improve the effectiveness of the avoidance of food waste in companies	Regione Lombardia, Directorate Environment, Unit Waste planning	Policy Lab	Legislation	Cross-sectorial	For this opportunity it is crucial to strengthen and increase the enforcement of the rules for companies, in particular of the national law (Gadda law). On 2 August 2016, the Senate has definitively approved the Law on Waste Limitation, Conscious Use of Resources and Environmental Sustainability also known as Gadda Law, No. 166-2016. The law allows the adoption of the best practices on volunteering basis: both the Companies are not forced to follow the recommendations and the Local Governments are not pushed to give financial relieves if they are used. In order to improve the effectiveness of the avoidance of food waste to the benefit of the people in need, Banco Alimentare della Lombardia would recommend more stringent rules for Companies with a recognition of tax relieves.	Food	Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER Alta Tecnologia Agrofood, CLUSTER Smart Cities and Communities.
						The circular economy is rapidly rising up political and business agendas in contrast to today's largely linear, 'take-make-use-dispose' economy. The food supply chains are large in volume terms, significant in economic and environmental terms and central to the management of many biological materials. These chains currently generate significant amounts of waste and are associated with high environmental impacts. The circular economy has associated diverse business, private and public policy to promote		

Step 3.4 - Policy | Step 4 - Cross-Cutting Projects | Step 4 - Good practices | Step 5 - Opportunities | Step 6- Barriers & Interventions | Lists

Conteggio: 21 | 100% | 18:19 13/11/2019

Circe tool – opportunities (2/2)

Salvataggio automatico Circe_Tool_PP01_Lombardy_11052018 - Excel

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Calibri 11 A A

Testo a capo

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Condizionali Commenti

A10 PP01_S5_004

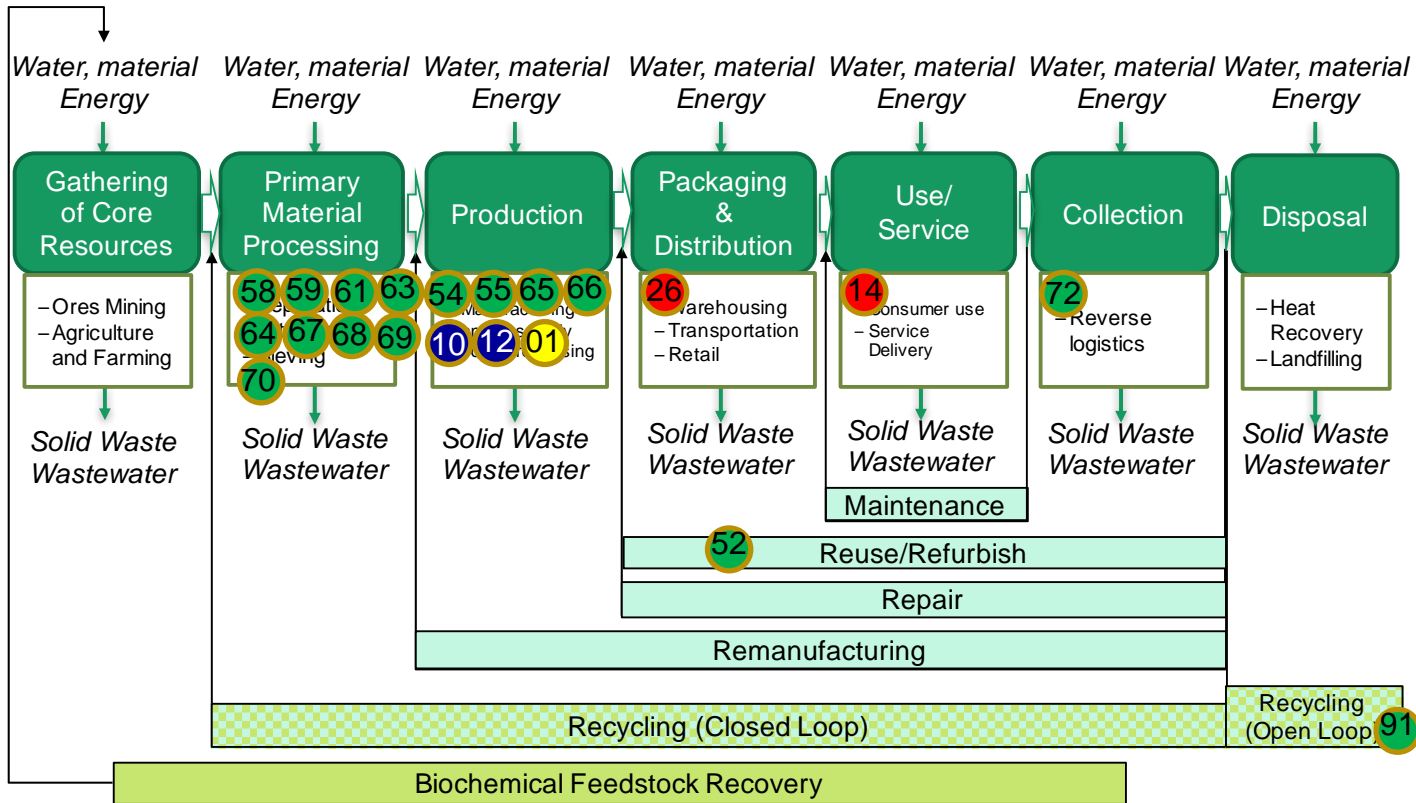
Potential stakeholders	Target sectors			Position in the value-chain	RESOLVE Areas				TRL Level (Technology Readiness Level)	Indicative Budget
Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER A/ita Tecnologia Agrofood, CLUSTER Smart Cities and Communities.	I56 - Food and beverage service activities	C10 - Manufacture of food products	C11 - Manufacture of beverages	d. Packaging & Distribution	b. Share	c. Optimize	d. Loop		7- system prototype demonstration in operational environment	For each territorial network, annual operating costs of about € 50,000 are required
Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER A/ita Tecnologia Agrofood, CLUSTER Smart Cities and Communities.	I56 - Food and beverage service activities	C10 - Manufacture of food products	C11 - Manufacture of beverages	d. Packaging & Distribution	b. Share	c. Optimize	d. Loop		7- system prototype demonstration in operational environment	For each school cost investment about 6,000 €, annual operating costs of about 3,000 €
Citizens, public administration, municipalities, large retail, sectorial company, Specific Circe SH: BANCO ALIMENTARE DELLA LOMBARDIA, CLUSTER A/ita Tecnologia Agrofood, CLUSTER Smart Cities and Communities.	I56 - Food and beverage service activities	C10 - Manufacture of food products	C11 - Manufacture of beverages	d. Packaging & Distribution	b. Share	c. Optimize			1- basic principles observed	
Citizens, Municipalities, Sectorial Industry	E38 - Waste collection, treatment and disposal activities; materials recovery	C10 - Manufacture of food products	C11 - Manufacture of beverages	E39 - Remediation activities and other waste management services	s. Water Treatment	c. Optimize	d. Loop	f. Exchange	7- system prototype demonstration in operational environment	

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Value chain analysis

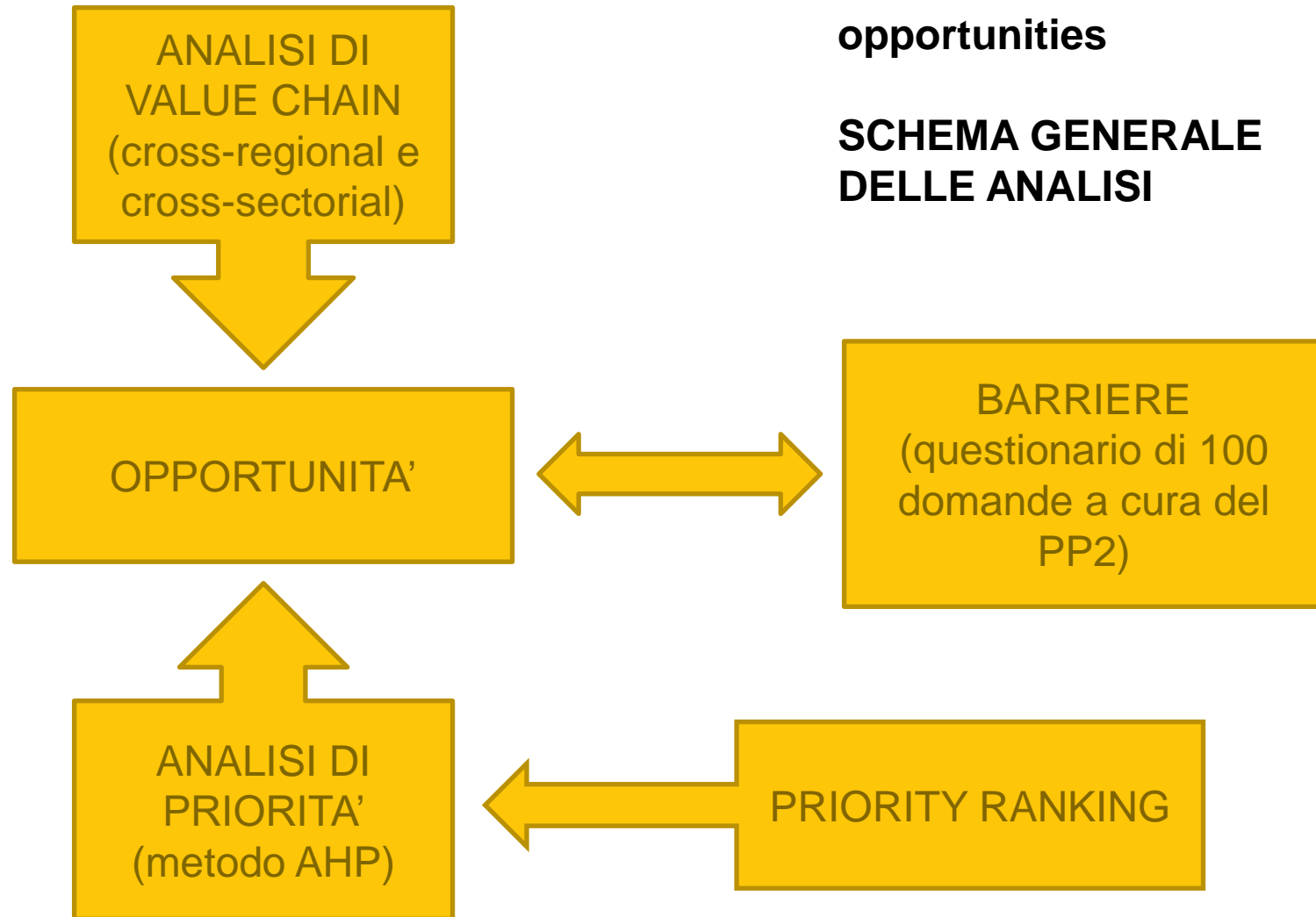
Industrial Stakeholders in the Food Waste sector



●	Catalonia
●	Cd2e
●	Gelderland
●	Lombardia
●	Lower Silesia
●	LWARB
●	Sofia Municipality
●	SOS

Circe tool – opportunities

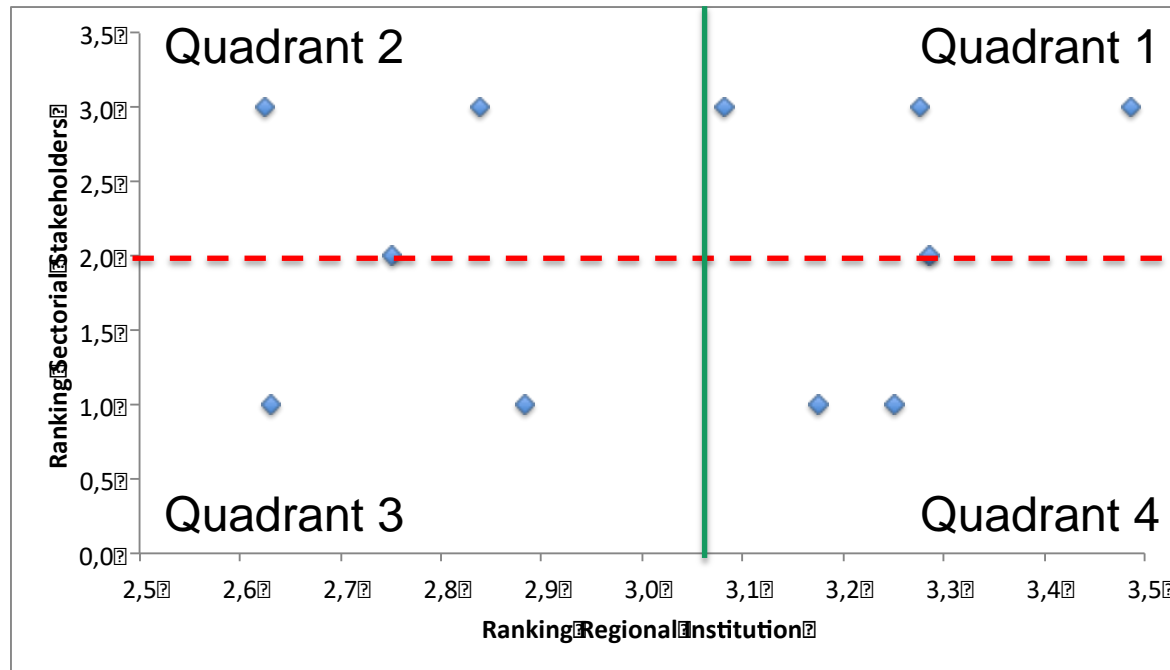
SCHEMA GENERALE DELLE ANALISI



ANALISI DI PRIORITA' - RISULTATI

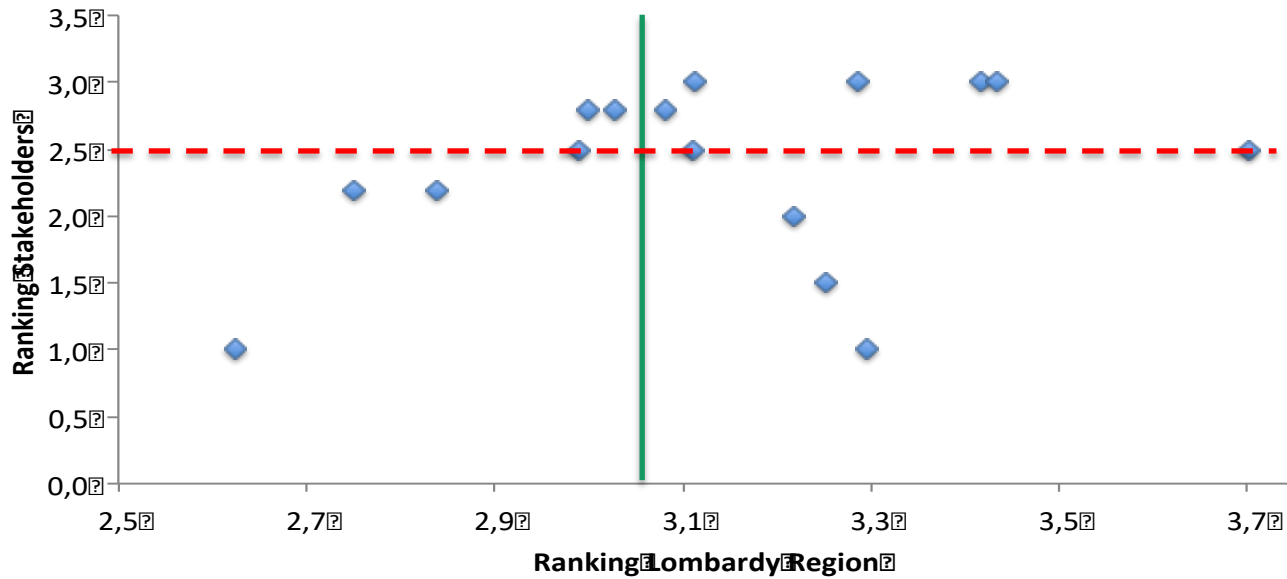
Opportunities - Textile sector	Strategic impact	Economic impact	Social impact	Environmental impact	Score
Increase the capacity of post-consumer textile collection	8,32	8,42	8,74	7,78	8,237
Increase the recyclability, recycling and the use of recycled fibers, threads and fabrics	8,77	8,08	6,3	8,43	8,059
Explore new ways of upcycling pre consumer textile waste for industrial uses	7,94	8,12	7,64	7,59	7,809
Scale up the creation of new business models	8	6,36	8,36	7,23	7,450
Eco-design for durability	6,79	5,68	6,18	7,56	6,698
Intensify the search of alternatives to prevent the effects of microfiber release and other substances of concern during the product lifecycle	6,8	6,12	6,3	6,45	6,445
Increase savings and water and energy efficiency used during the production process	5,67	7,12	4,64	7,29	6,344
Opportunities - Beverage sector	Strategic impact	Economic impact	Social impact	Environmental impact	Score
Preventing food waste along the value chain	8,16	8,06	8,96	7,91	8,204
Increase the reuse of glass packaging	8,02	8,8	8,08	7,73	8,107
Use of recycled packaging materials	7,28	6,98	6,88	8,41	7,525
Increase the implementation of smart packaging solutions	7,62	6,44	7,06	6,50	6,889
Minimizing material use for beverage distribution	8,14	6,56	2,78	7,56	6,635
Increase water savings and water efficiency during production	6,73	6,28	4,12	7,74	6,500
Scaling the creation of new valuable industry products from by-products	6,78	6,32	6,7	5,45	6,223
Use of bio-based and/or compostable materials for plastic packaging where beneficial	4,11	4,6	3,5	4,95	4,391

Priority Ranking Maps - method



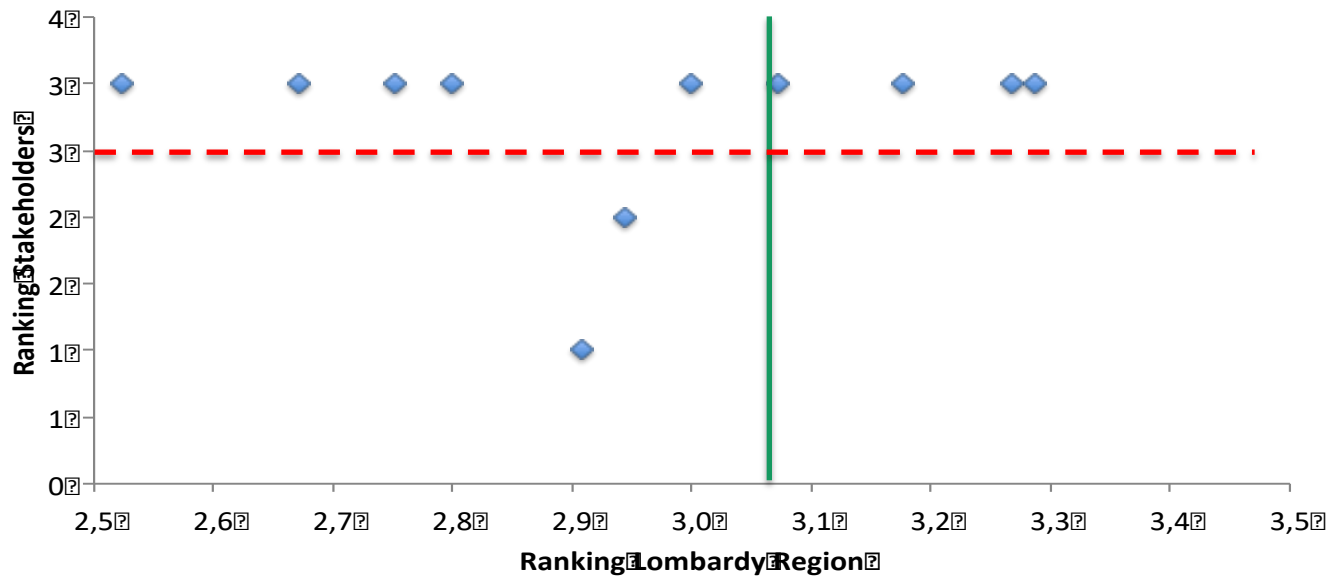
1. Locate the initiatives on the map by considering the ranking score of the regional institution and the sectorial stakeholders;
2. Find the median of the set of ranking scores for the sector provided by the stakeholders.
3. Find the median of the set of ranking scores for the entire set of sectors provided by the regional institution judges.
4. Identify the 4 clusters in the 4 quadrants of the map.

Priority Ranking Built Sector



Priority Ranking Maps – results

Priority Ranking Food Sector





AZIONI DIRETTE SUL POR 2014-20:

- 1) Steering the ROP 2014-2020 through steering the Research and Innovation Working Programs
- 2) Calls and project analysis
- 3) Possible influence on the P.I. of opportunities in Quadrant 4
- 4) Possible influence on the P.I. of opportunities in Quadrant 2
- 5) Support the development of the Innovation inter-cluster Roadmap
- 6) The Common action (awareness & capacity building)

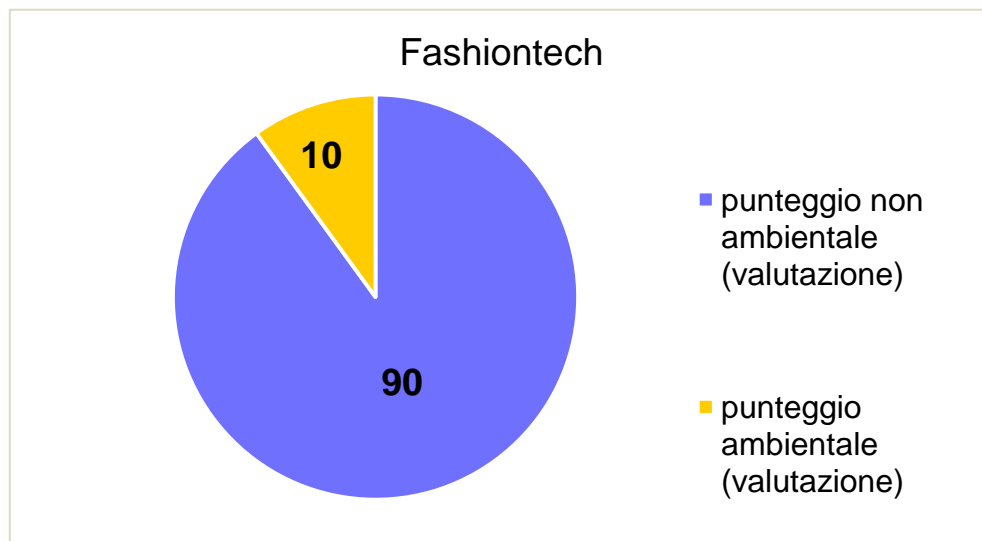
+ AZIONI DIRETTE SU ALTRI P.I. (redigendo PRGR)

+ RACCOMANDAZIONI PER IL POR 2021-27

Integrazione ambientale negli strumenti attuativi rivolti alle imprese

Asse 1 – Ricerca e Innovazione – *Bando Fashiontech*

Indicazioni VAS: promuovere il miglioramento della sostenibilità dei prodotti con un approccio al ciclo di vita (allungamento del ciclo di vita, maggiore riciclabilità, ...)



Il riuso di materia e il possesso di certificazione ambientale caratterizzano la valutazione del criterio «grado di innovazione del progetto» con 10 punti su 35.

➔ In futuro si potrebbero **ampliare le potenzialità** legate al **riciclo ed al riuso dei prodotti** e alla ricerca di soluzioni tecniche e di materiali che ne prolunghino la vita e convertano le destinazioni d'uso, trasformando prodotti percepiti come scarti o giunti al loro fine vita, in nuove materie prime o in nuovi prodotti.