

# REGIONAL OBSERVATORY FOR CIRCULAR ECONOMY AND ENERGY TRANSITION

Circular Economy – How to connect policy, research and business?  
10<sup>th</sup> May 2019, Fondazione Eni Enrico Mattei, Milano

## MAIN GOAL

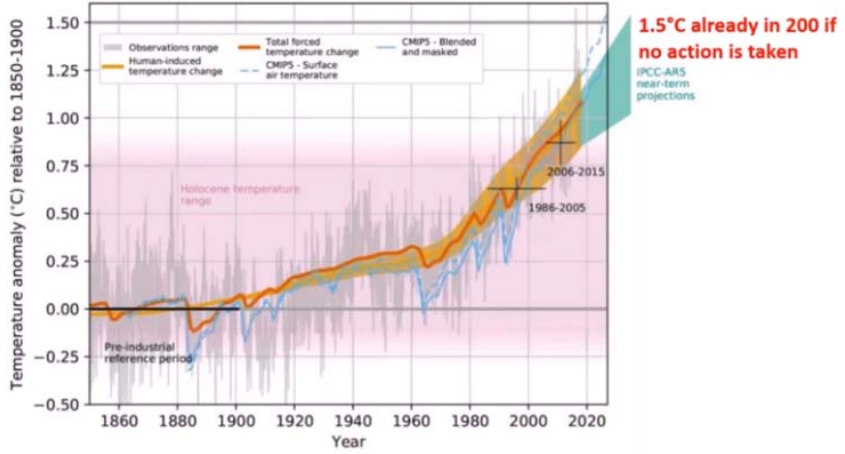


Building of a common path to face the two main challenges that will characterize our development model in the coming decades: **the decarbonisation of the economy and the transition to a circular economy.**

The working proposal is to deal with the issues of transition with a common reference framework, first of all sharing some general objectives, and then defining areas of study in some sectors or production systems that are particularly important for our territory.

Fonte: Report IPCC 2018

Already 1°C above pre-industrial levels



**Figure 1.2: Evolution of global mean surface temperature (GMST) over the period of instrumental observations.** Grey line shows monthly mean GMST in the HadCRUT4, NOAA, GISTEMP and Cowtan-Way datasets, expressed as departures from 1850–1900, with line thickness indicating inter-dataset range. All observational datasets shown represent GMST as a weighted average of near surface air temperature over land and sea surface temperature over oceans. Human-induced (yellow) and total (human- and naturally-forced, orange) contributions to these GMST changes

# WHY

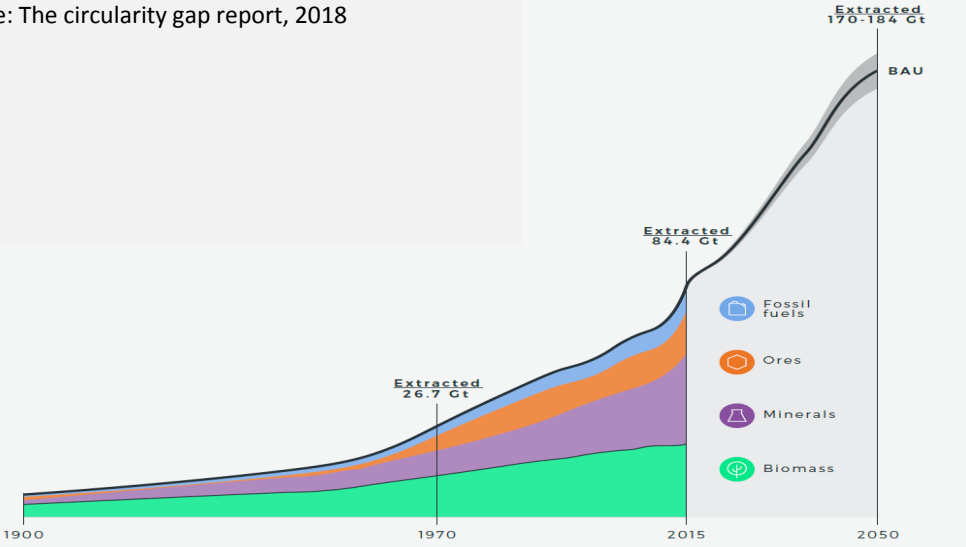
The Global Benefits of a Decisive Shift to a Low-carbon Economy when Compared with Business-as-usual.



Source: The results cited for the US\$26 trillion in direct economic benefits are cumulative for the 2018–2030 period, whereas the other data points reported are for the year 2030. Source: Garrido, L., et al., 2018.<sup>73</sup>

Fonte: The New Climate Economy , Report 2018

Fonte: The circularity gap report, 2018



# WHO

## PRODUCTION SYSTEM

Confindustria Lombardia  
ANCE Lombardia  
Confapindustria Lombardia  
CNA Lombardia  
ANPAR  
Confartigianato Lombardia  
Unione Artigiani Lombardia  
Confcommercio Lombardia  
Confesercenti Lombardia  
Federdistribuzione Lombardia  
Confagricoltura Lombardia  
Coldiretti Lombardia  
CIA Lombardia  
Legacoop Lombardia  
Confcooperative Lombardia  
AGCI Lombardia  
Unioncamere Lombardia

## TRADE UNIONS

CGIL Lombardia  
CISL Lombardia  
UIL Lombardia  
UGL Lombardia

## LOCAL AUTHORITIES

ANCI Lombardia  
UPL Lombardia

## REGIONAL ENTITIES

ARPA Lombardia  
ERSAF  
Fondazione Lombardia per l'Ambiente  
Infrastrutture Lombarde Spa  
POLIS

## ASSOCIATIONS

Altroconsumo Lombardia  
Legambiente Lombardia  
WWF Lombardia

## RESEARCH SYSTEM

Politecnico di Milano  
Università Bicocca  
Università Bocconi  
Università Cattolica  
Università di Milano  
Università di Bergamo  
Università di Brescia  
Università dell'Insubria  
Università di Pavia  
Università LIUC Varese  
ENEA  
RSE

OTHERS.....

## HOW

### INSTITUTIONAL BOARD



Chaired by the Minister for the Environment and Climate  
Steering function  
Contribution to strategies, planning and definition of regional measures

### SECRETARIAT



Technical and scientific support for the elaboration of regional strategies  
Coordination of working groups  
Monitoring and results transfer  
Interaction with other cross-cutting tables (integrated policies)

### THEMATIC TABLES



Criticality and opportunity analysis  
Preparation of legislative and regulatory proposals, financing measures and support, supply chain collaboration methods  
Specific initiatives (training, dissemination, planning)

# THEMATIC TABLES

- **CIRCULAR ECONOMY**

- Sewage sludge
- Melting slags
- Construction and demolition waste
- Food waste

- **ENERGY TRANSITION**

- Energy efficiency in buildings
- Energy efficiency in industries
- Renewable energies



## CONTRIBUTION TO REGIONAL STRATEGIES

### PROTOCOL FOR THE ENVIRONMENT, INFRASTRUCTURE AND TERRITORY



The Regional Development Program for the XI legislature declines five priorities, among these «sustainability as a distinctive element of administrative action and as an opportunity to improve the quality of life of the citizens, reconciling the needs of productive growth and involving all the actors of the territory , from businesses, to citizens, from schools to public administrations ". With the Protocol, mutual commitments on the environment, territory, transport system and infrastructure will be signed.

### REGIONAL WASTE PLAN- PRGR



The Circular Economy Package sets new and more stringent objectives for resource use efficiency and waste management, recycling and reuse, the landfill disposal. The new community provisions, and the national ones that will derive from this, will be integrated with those in force in the PRGR, to be updated in 2019, and will complete the framework of objectives and policies on raw materials and sustainable production and consumption models.

### REGIONAL ENERGY AND CLIMATE PLAN



The transition to a low carbon economy, as a response to climate change, has triggered a progressive re-launch of the goals of decarbonisation and energy evolution at all institutional levels. The new regional energy and climate plan, synergistic with these objectives, will define the framework for the actions of orientation and implementation of this transition, responding to the logic of environmental and social sustainability and technological innovation.

### RESEARCH, INNOVATION AND TECHNOLOGY TRANSFER PROGRAM



The Program is the governance tool with which we intend to trace the lines of development for the future of research and innovation. The objective is to raise awareness that innovation is the main key to understanding organic and sustainable growth, with the support of new methods and systems capable of increasing the efficiency of government choices.



### STRUCTURAL FUNDS PROGRAMME 2021-2027

## THEMATIC TABLES – EXPECTED RESULTS

### SEWAGE SLUDGES

- A common knowledge framework
- Definition of limits for the use in agriculture, as deriving from the coordinated reading of national and regional laws
- Discipline for the application of the legislation concerning the use of sludge in agriculture and defecation chalks
- Construction of a shared vision on sludge prospects, to guide investments both of water service managers and sludge recuperators, also with the support of research

### MELTING SLAGS

- A common knowledge framework
- Processing, for each type of residue, of a guideline describing its origin (production process), characteristics, possibility of being managed as a by-product or recovered as an "end of waste". Types: black steel mill slag, cast iron foundry slag, foundry earth and sands
- Contribution to Environmental Minimum Criteria (CAM)



## THEMATIC TABLES – EXPECTED RESULTS

### C&D WASTE

- Analysis of the demolition chain to favor selective demolition, and evaluate the characteristics of the recycled aggregates and their use;
- Promote the use of recycled aggregates by defining incentives and supporting tools;
- Creation of a market platform for the recycled aggregates;
- Collaboration with the Environmental Minister for defining the criteria for end of waste.

### FOOD WASTE

- Introduction in administrative procedures of incentives and compensatory mechanisms, including the reduction of the municipal waste tariff for commercial businesses that donate their surpluses (collaboration with the Municipalities);
- Tools to track devolution (document support, IT tools);
- Communication campaign for citizens to reduce waste at the domestic level

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**Ambito Territoriale**

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**Tipologia Impiego**

Calcestruzzo strutturale

Malte per usi strutturali

Mantellate di protezione

Uso in elementi strutturali

Massicciate ferroviarie

Uso non strutturale

**Tipologia Prodotto**

Aggregati per calcestruzzo - UNI EN 12620:2008

Aggregati per malta - UNI EN 13139:2003

Aggregati leggeri - UNI EN 13055:2016

Aggregati per materiali non legati e legati con leganti idraulici per l'impiego in opere di ingegneria civile e nella costruzione di strade - UNI EN 13242:2008

Aggregati per miscele bituminose e trattamenti superficiali per strade, aeroporti e altre aree soggette a traffico - UNI EN 13043:2004

Aggregati per massicciate per ferrovie - UNI EN 13450:2003

Aggregati per opere di protezione (armourstone) - UNI EN 13383-1:2003

Reset

Ricerca



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**Risultato Ricerca Materiali**

Info sul Market

NUMERO RISULTATI: 55

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	Ragione Sociale	Indirizzo	Tipologia Prodotto	Tipologia Impiego	Num. Lotti	Quantità (Ton/Mc)	
<input type="checkbox"/>	COMUNE DI CAVENAGO BRIANZA	Località Fontanino 22079 VILLA GUARDIA (CO)	UNI EN 12620:2008	Calcestruzzo strutturale	8	283 / 141,5	
<input type="checkbox"/>	EDIL 2000 SPA	Via Artigiani SNC LOC. T 25030 ADRO (BS)	UNI EN 13139:2003	Malte per usi strutturali	12	345 / 181,6	
<input type="checkbox"/>	FUSTAMERIA MANTOVANA	Località Vicomoscato 26041 CASALMAGGIORE (CR)	UNI EN 13055:2016	Mantellate di protezione	5	765 / 478,2	
<input type="checkbox"/>	G. FUMAGALLI - LA VARESINA SPURGHI DI FUMAGALLI TIZIANA	Via Cristoforo Colombo 26013 CREMA (CR)	UNI EN 13242:2008	Uso in elementi strutturali	1	35 / 23,3	
<input type="checkbox"/>	LINEA GESTIONI	Via Del Luisetto CAVENAGO DI BRIANZA (MB)	UNI EN 13043:2004	Massicciate ferroviarie	7	1.567 / 1.119,3	
<input type="checkbox"/>	S.T.A. SOCIETÀ TRATTAMENTO ACQUE	Via Fossamana 62 SAN GIORGIO DI MANTOVA (MN)	UNI EN 13450:2003	Uso non strutturale	9	3.876 / 1.845,7	
<input type="checkbox"/>	VENTURINI SILVANO & ANTONIO	Via Dell'Industria 39 CASTIGLIONE DELLE STIVIERE (MN)	UNI EN 13383-1:2003	Malte per usi strutturali	2	1.543 / 701,36	

Somma selezionati

Salva xls Salva csv



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Tipologia Prodotto	Tipologia Impiego	ID Lotto	Quantità (Ton/Mc)
UNI EN 12620:2008	Calcestruzzo strutturale	ED2K-05	50 / 25

### Altra Documentazione del Lotto

Dop	
Politica Integrata ISO 9001, 14001 E OSHAS 18001	
Attestazione Soa	
Certificato SGS UNI EN ISO9001:2008	
Archivio Fotografico	
Contatti Commerciali	
Planimetria Impianto	
Certificato Di Produzione In Fabbrica	

### Foto campioni

	Materiali campionati dal centro di riciclaggio della ditta...
	Materiale residuo dopo la prova
	Materiali campionati dal centro di riciclaggio della ditta...
	Materiale residuo dopo la prova



**Thank you for the attention!**

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