

MEMORANDUM OF UNDERSTANDING

Construction and Demolition Waste

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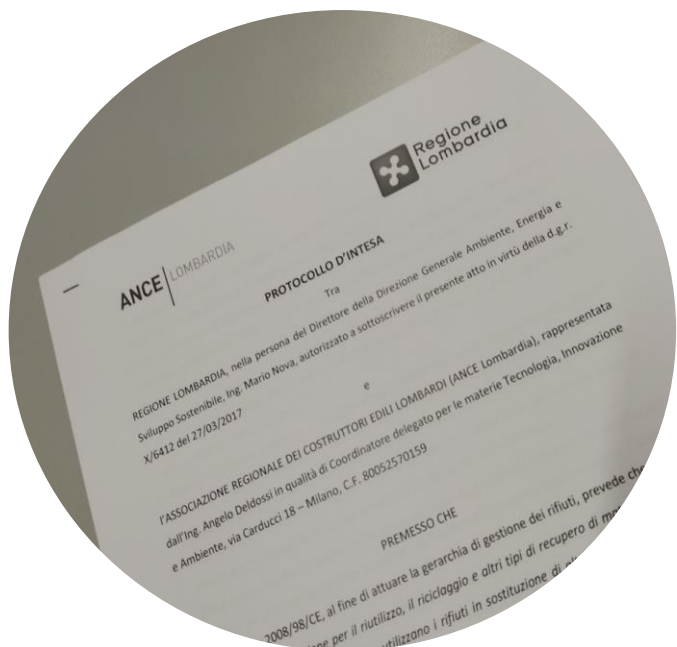
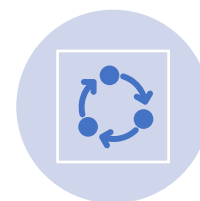
Memorandum of Understanding

Signed in 2017 between **ANCE Lombardia** (Association of construction companies of Lombardy) and **Regione Lombardia**

TARGETS

- Support to the development of circular economy
- Promotion of knowledge of correct management processes of construction and demolition waste and the possibilities of using recycled aggregates to replace natural materials

Best practice of the CIRCE project for the "construction" sector



European Regions
toward
CIRCular Economy

**PRODUCTION
C&D waste
Lombardy / Italy**

Tabella 1.10 – Produzione di rifiuti speciali per regione, anno 2019

Regione	RS NP esclusi C&D (MUD)	RS NP esclusi C&D (integrazioni stime)	RS NP C&D	RS NP attività ISTAT non determinata	Totale RS NP	RS P esclusi veicoli fuori uso (MUD)	RS P (integrazioni stime)	Veicoli fuori uso	RS P attività ISTAT non determinata	Totale RS P	RS EER non determinato	Totale RS
tonnellate												
Lombardia	14.994.341	796.544	14.617.152	0	30.408.037	2.861.313	404	270.414	0	3.132.131	0	33.540.168
Italia	71.161.966	4.317.844	68.334.771	5.096	143.819.677	8.613.249	2.710	1.538.046	642	10.154.647	0	153.974.324

Fonte: ISPRA

**MANAGEMENT
C&D waste
Lombardy**

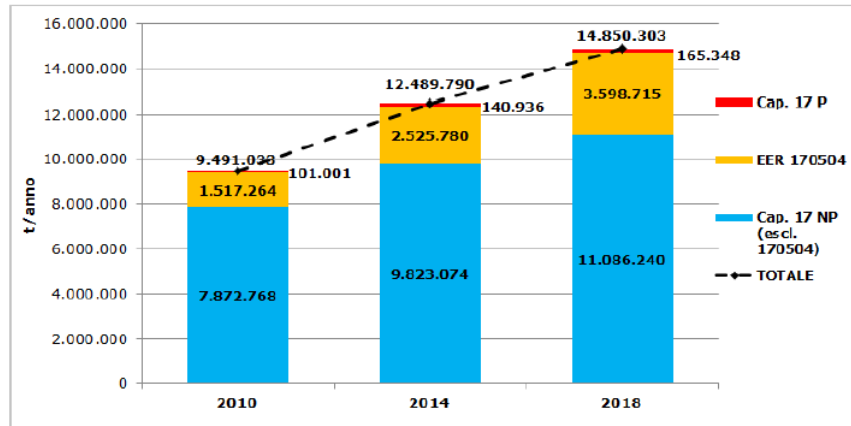


Figura 11.7 Evoluzione della gestione (escluse operazioni R13 e D15) dei rifiuti da costruzione e demolizione per macro tipologia di rifiuti, 2010-2014-2018. Fonte: Elaborazioni dichiarazioni MUD

95% is sent to recovery

5% is sent to landfill



WASTE FRAMEWORK DIRECTIVE TARGET: 70% of C&D must be recycled by 2020

...but... *what's wrong?*

CRITICAL ISSUES

1_Lack of knowledge about the possible use of recycled aggregates due to a lack of dissemination of information in the sector.

2_Lack of promotion in the tenders of the use of recycled materials.

3_Inappropriate national legislation for waste recovery.
A specific regulation for the “end of waste” classification in the recycled aggregates sector is necessary.



← Problems

Solutions →

Memorandum **ACHIEVEMENTS**

1_Development of researches entrusted to Lombard universities with the aim of identifying technical proposals useful for overcoming the obstacles (both technical and cultural) which limit the effective use of recycled aggregates in road, civil and of environmental recoveries.

(Key words: national law for end of waste of C&D waste, leaching test)



2_Calls for tenders and incentives to encourage the use of recycled aggregates in private and public markets.

(Key words: regional laws for urban regeneration and mining activities, minimum environmental criteria - GPP, price list of materials for public works, plant improvement)



3_Training activities aiming at spreading the culture of recovery and use of recycled materials. The initiatives are designed for all the operators involved in the supply chain: construction companies, designers and public administrations.

(key words: demolition process, waste management, use of recycled aggregates)



4_Development of a web application to put in contact producer and user of recycled aggregates – “Market inertii”.

(key words: availability, checking, regional and national market, UNI EN standards – leaching test – DOP)

ORSO 3.0 Market inertii		Bergamo - Impresa edile							
HOME	Home > Ricerca > Risultato Ricerca								
Offerta	Risultato Ricerca Materiali								
Informazioni	Lista dei Materiali								
<input type="checkbox"/>	Impianto	Indirizzo	Nome commerciale	Tipi Prodotti	Norme	Numero Lotti	Quantità (Ton/Mc)		
<input type="checkbox"/>	CAVA VISCONTA	via per Monza SNC, Cernusco sul Naviglio (MI)	Riciclato 0/60	Aggregati leggeri Aggregati per materiali non legati e legati con leganti idraulici	UNI EN 13055:2016 UNI EN 13242:2008	5	35.600 / 27.384,62		

ORSO3.0
Market inertii



common goals

reduce use of raw materials

new projects

circular economy

public-private dialogue

sharing problems and solutions

increased recycling

technological innovation

Memorandum of Understanding
OUTCOMES

support to research

green public procurement

networking

increased credibility

IT platform optimization

waste management

new regional policies

product quality improvement

training activities

business incentives



Thank you for your attention!

