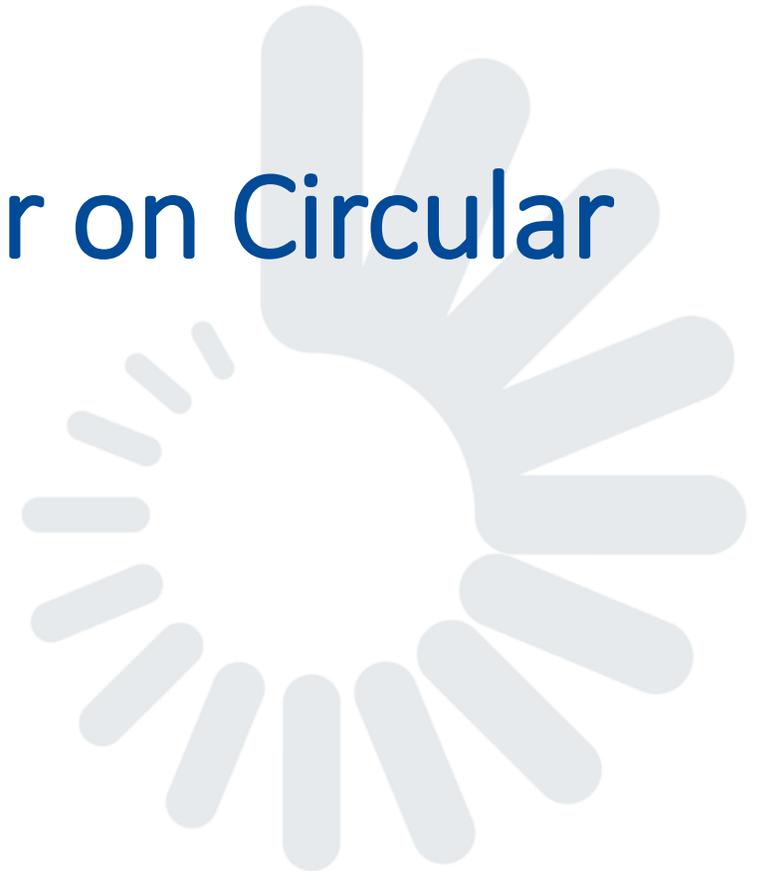


Rome, 12-13/6/2018

# The Italian Position Paper on Circular Economy

Fabio Eboli

Italian Ministry of Environment / Sogesid TA



## CReIAMO PA

Per un cambiamento sostenibile



# CIRCULAR ECONOMY FRAMEWORK: PROCESS

«Towards a Model of Circular Economy for Italy Overview and Strategic Framework»

<http://consultazione-economiacircolare.minambiente.it/sites/default/files/TOWARDS%20A%20MODEL%20eng%20COMPLETO.pdf>

(Jointly promoted by Ministry of Environment and Ministry of Economic Development, with the support of ENEA and technical experts)

=> launched on 29/11/2017 (along with the *Manifesto on Circular Economy* promoted by the Alliance for Circular Economy)

Circular Economy, Resource Efficiency, Decoupling also crucial for the implementation of the National Strategy on Sustainable Development



# CIRCULAR ECONOMY FRAMEWORK: CONTENT

## 1. Circular Economy: Principles and Objectives

- Efficient and Sustainable Resource Use
- New Production-Distribution-Consumption Integrated model

## 2. The current situation

- International Context
- European Context
- Italy: state of the art, challenges and opportunities

## 4. The transition process

- Rethinking the concept of waste
- The Public Sector (GPP)
- Resources and Products
- Indicators

## 3. The paradigm shift

- Production
- Consumption
- Economic Instruments



# CIRCULAR ECONOMY FRAMEWORK: SECTION 1

## UPSTREAM

*INCREASE RESOURCE EFFICIENCY (DMC/GDP) => DECOUPLING*  
*IMPROVE PRODUCTION MODELS => ECO-DESIGN*

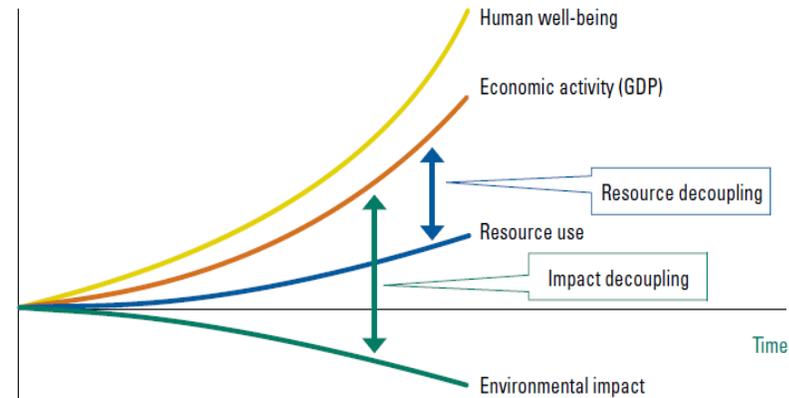
## NEW BUSINESS MODELS

## DOWNSTREAM

WASTE MANAGEMENT  
(*REDUCE & REINTRODUCE IN THE SOCIO-ECONOMIC SYSTEM*)  
PYRAMID HIERARCHY (3R, 4R, SMM)

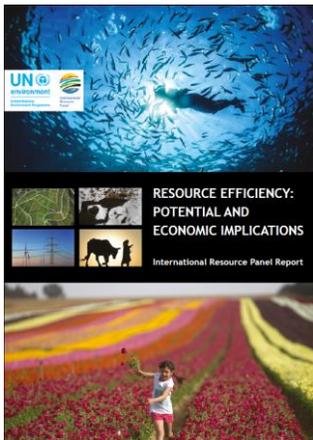


# CIRCULAR ECONOMY FRAMEWORK: SECTION 2



## (G7 ALLIANCE ON RESOURCE EFFICIENCY)

- ❖ Resource Efficiency indicators
- ❖ Resource Efficiency and Climate Change
- ❖ Sustainable material management at international level
- ❖ Economic analysis of resource efficiency
- ❖ Citizen involvement and raising public awareness
- ❖ Private sector actions
- ❖ Food waste
- ❖ Plastics
- ❖ Green Public Procurement - GPP
- ❖ Lifetime extension product policies
- ❖ Resource Efficiency and Next Production Revolution - NPR



## Recent products (2018)

- EU Strategy for Plastics in the Circular Economy
- Communication on options to address the interface between chemical, product and waste legislation
- Monitoring Framework on progress towards a circular economy
- Report on Critical Raw Materials and the circular economy



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# CIRCULAR ECONOMY FRAMEWORK: SECTION 2

Law 221/2015  
Green  
Economy  
Framework

Decree  
26/5/2016  
Guidelines for  
computing the  
share of urban  
waste  
collected  
separately

Law 166/2016  
Food Waste

Ministerial  
Decree  
266/2016  
Bio-waste  
composting

Ministerial  
Decree  
20/4/2017  
criteria for  
«pay-as-you-  
throw» tariff

Decree  
142/2017  
Deposit Refund  
System

1/2016

4/2016

5/2016

6/2016

8/2016

10/2016

2/2017

4/2017

5/2017

6/2017

8/2017

12/2017

Decree  
50/2016  
New Code of  
Pubic  
Contracts  
(and Minimum  
Environmental  
Criteria)

Ministerial  
Decree  
140/2016  
ecologic  
criteria for  
electronic  
devices

Ministerial  
Decree  
264/2016  
definition  
criteria of by-  
products

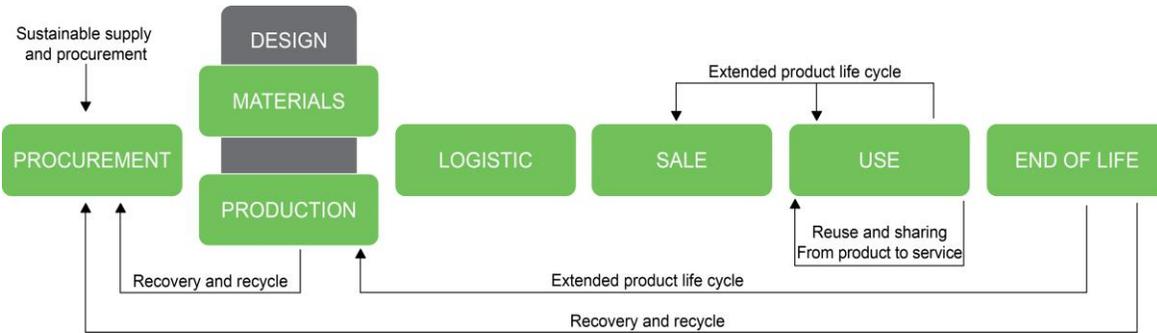
Launch of  
National  
Strategy for  
Bioeconomy

G7 Environment  
(5-year Bologna  
Roadmap)

Law 123/2017  
Biodegradable  
Shoppers



# CIRCULAR ECONOMY FRAMEWORK: SECTION 3

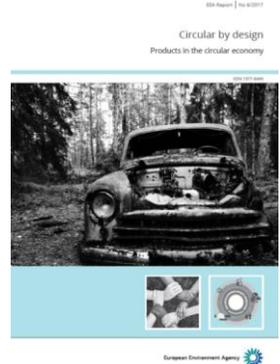


**CLOSING RESOURCE LOOPS**

**SLOWING RESOURCE LOOPS**

**NARROWING RESOURCE FLOWS**

- ✓ ECO-DESIGN
- ✓ EXTENDED PRODUCER RESPONSIBILITY
- ✓ NEW BUSINESS MODELS
- ✓ PRODUCTS vs SERVICES
- ✓ USERSHIP vs OWNERSHIP
- ✓ LEASING / RENTING ECONOMY
- ✓ MODULARITY, REPAIRABILITY
- ✓ SECOND-HAND MARKETS
- ✓ LABELLING
- ✓ INDUSTRIAL SYMBIOSIS
- ✓ BIOECONOMY



**3 Product trends and their implications ..... 16**

- 3.1 Increasingly complex product design and functionality..... 16
- 3.2 Increasing use of modular design..... 17
- 3.3 Local production on demand by additive manufacturing..... 17
- 3.4 Building services around products ..... 18
- 3.5 Home delivery systems ..... 19
- 3.6 Changing product lifespan..... 19
- 3.7 Collaborative consumption..... 22
- 3.8 Markets for recycling ..... 23
- 3.9 Internet of things..... 24
- 3.10 Implications for circularity..... 24

**Examples of economic instruments and other measures to provide incentives for the application of the waste hierarchy referred to in Article 4(3)**

1. Charges and restrictions for the landfilling and incineration of waste
2. 'Pay-as-you-throw' schemes
3. Fiscal incentives for **donation** of products, in particular food
4. **Extended producer responsibility schemes**
5. **Deposit-refund schemes**
6. **investments in waste management infrastructure**
7. **Sustainable public procurement**
8. **Phasing out subsidies**
9. **Fiscal measures to promote the uptake of recyclable products and materials**
10. **Support to research and innovation**



# CIRCULAR ECONOMY FRAMEWORK: SECTION 4

- GREEN PUBLIC PROCUREMENT => ENVIRONMENTAL MINIMUM CRITERIA (BASIC & ADDITIONAL/REWARDING) COMPULSORY FOR 17 SECTORS
- END-OF-WASTE
  - **Already working** (technical check done, sent to European Commission): Milled Asphalt; Tyres Rubber
  - **Finalising** (sent last week to State Council): Nappy Material;
  - **Still to come** (technical check to be done): Lead in Car Batteries; Demolition&Construction Waste; Fiberglass in Watercrafts
- Agreement undersigned between MoE and three “pilot” cities (Bari, Milan & Prato) to pursue joint actions for CIRCULAR ECONOMY AT URBAN SCALE

COM(2018) 29 final  
«on a monitoring  
framework  
for the circular  
economy»

Circular economy monitoring framework



- **3 categories:**
  - ✓ Economic
  - ✓ Materials
  - ✓ Environment (circularity vs sustainability)
- **3 perspectives:**
  - ✓ Macro (economy-wide)
  - ✓ Meso (sectors, districts, regions, urban areas?)
  - ✓ Micro (firms)
- **5 Dimensions:**
  - ✓ Production/design; first & secondary raw materials (markets, flows, tracking);
  - ✓ Product as a Service (new business models «business» perspective)
  - ✓ Sharing/Pooling/Renting (new business models «consumer» perspective)
  - ✓ Durability/Repairability/Remanufacturing/Refurbishing
  - ✓ Waste management

# CIRCULAR ECONOMY FRAMEWORK: PROCESS

