

Commission

# FOSTERING RESEARCH and INNOVATION in SUPPORT of CIRCULAR ECONOMY

Luisa Prista DG Research & Innovation, European Commission

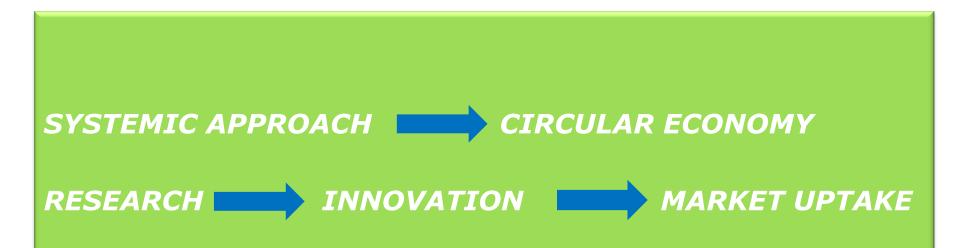
2nd European Sustainable Phosphorus Conference Berlin, 5 March 2015

HORIZON 2020



#### **WORKSHOP** (4th March, Berlin)

#### Circular approaches to phosphorus ...from research to deployment





#### **1st MESSAGE**

# RESOURCE EFFICIENCY ECO-INNOVATION well covered by EU RTD&I Programmes

...strategy is evolving



#### SOME EXAMPLES FP7 ENVIRONMENT CALLS

- 2010 "Innovative system solutions for municipal sludge treatment & management"
- □ 2011/2012 'Eco-innovation' & 'Improving resource efficiency' -> 100 M€
- □ 2013 'Turning waste into a resource' & 'Eco-innovative Demonstration Projects' -> 50 M€





#### FP7 ENVIRONMENT... AND OTHERS ON PHOSPHORUS



FP7 ENVIRONMENT ->21 M€ + FP7 themes +LIFE + Interreg etc.









#### **2st MESSAGE**

# RESOURCE EFFICIENCY and ECO INNOVATION are part of CURRENT RTD&I AGENDA ...HORIZON 2020



#### **HORIZON 2020**





#### H2020-SC5 WP 2014-2015 FOCUS AREAS

#### WASTE

#### WATER



#### **Industrial Symbiosis**

**Food waste** 

**Innovative Water solutions and market replication** 

EU RTD in Water Cooperation – ERAnet





#### H2020 Societal Challenge 5

#### Calls related to Eco-Innovation Work Programme 2014-2015

esearch and

- **1. WASTE 131 M€**
- 2. WATER 163 M€
- 3. SMEs 36 M M€

#### ACTIVITIES

- Research & Innovation Actions
- Market up take, Demonstration, Prototyping
- Public Procurement
- SMEs Instrument
- Support to JPIs
- Support to PPPs



#### **3rd MESSAGE**

# NEED to GO BEYOND ECO-INNOVATION

...Juncker Agenda for JOBS and GROWTH



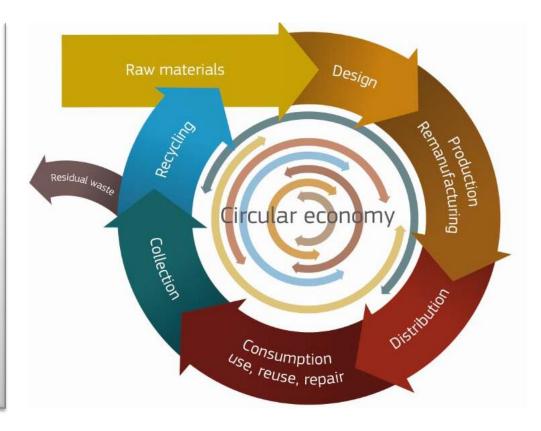
#### MOVING TO NEW BUSINESS STRATEGIES





## **CIRCULAR ECONOMY is about CHANGE**

- no longer linear
- extended life time
- design strategies
- cross-sectors
- breaks out silos
- multi-stakeholders
- collaborative approach
- new business models
- demand-side measures
- etc...





## **CIRCULAR ECONOMY requires RTD&I**



#### All kinds of innovation

- Disruptive
- Technological
- Organisational
- Social
- Financial
- Regulatory, etc

...need for demonstrators

#### WP 2016-2017

FOCUS AREA 'Industry 2020 in the Circular Economy'



### **CIRCULAR ECONOMY requires STAKEHOLDER INVOLVEMENT**

#### **Reinforced role of**

- EIPs (European Innovation Partnerships)EIP WATER, EIP-AGRI, EIP RAW MATERIALS
- JPIs (Joint Programming Initiatives) JPI Water, FACE
- PPPs (public private partnerships) such as SPIRE
- TPs( Techology Platforms) such as WssTPs
  Use of
- Public Consultations
- Multistakeholders platforms such as ESPP
- Involvement of Policy makers, end-users, municipalities, etc.





#### CIRCULAR ECONOMY requires FUNDING INSTRUMENTS

**Beyond HORIZON 2020** 

**InnovFIN for Circular Economy (EIB)** 

LIFE, COSME

**ESIF (European Structural and Investment Fund)** 



### CIRCULAR ECONOMY requires ENABLING FRAMEWORK

**New Communication on Circular Economy (end 2015)** Under Steering of Vice President Timmermans

- New and more ambitious proposal
- Going beyond waste legislation
- □ Including Action Plan





## **RESEARCH and INNOVATION's CONTRIBUTION** (tentative)

- □ Investment in **large scale demonstrators** under the FA Industry in the Circular Economy' (high budget investment)
- □ Revision/Transformation of the **Eco-Innovation Action Plan**
- □ Support Circular Economy through **InnovFin** instrument
- Creation of safe space to demonstrate solutions otherwise hindered by excessive or lack of regulation
- Support funding Horizon2020 and Structural Funds benefiting from space regulatory space
- Support networks of business schools to develop new business models



# 4th Message **CIRCULAR ECONOMY** requires AKEHOLDERS **RESEARCH** and **INNOVATION** involvement Enabling **FUNDING** FRAMEWORK instruments



# Thank you!

#### For further info: <u>RTD-ENV-ECO-INNOVATION@ec.europa.eu</u>