



# DRINKABLE WATER

# WATER FOOD NEXUS

## Water JPI



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# European COMMISSION

## President Juncker



**New agenda:**

**New Start for Europe - Agenda for Jobs, Growth,  
Fairness and Democratic Change**

I want a European Union that is bigger and more ambitious  
on big things, and smaller and more modest on small things

[http://ec.europa.eu/about/juncker-commission/docs/pg\\_en.pdf](http://ec.europa.eu/about/juncker-commission/docs/pg_en.pdf)



# WATER is a BIG THING!

- Markets, jobs, SMEs
- Mediterranean areas use 70% water for agriculture
- In future need for water for 9 billion people
- 5 billion living in regions of water scarcity
- By 2030 water demand-supply gap of 40%
- World Economic Forum 2015 – 1<sup>st</sup> risk impact

# WATER challenges! environment & society & economy

*Huge, **complex** and **long term**, cutting across **many policy areas**. All those who use it, depend on it and influence its quality*

*should be involved in its management*

*Solutions need integration, transdisciplinarity*

*and **systemic approaches***





## NEED to LOOK ahead

- ✓ **Digitalisation** , technologies and big data
- ✓ Smarter cities, **urban management**, irrigation, **agriculture** services
- ✓ **Citizens participation**, co-decision and co-design
- ✓ Transformed industry – **more circular approaches**
- ✓ New **business models** emerge, markets

*...Water Revolution*



**RESEARCH and INNOVATION**  
**are**  
**KEY DRIVERS**  
**for the**  
**WATER REVOLUTION**

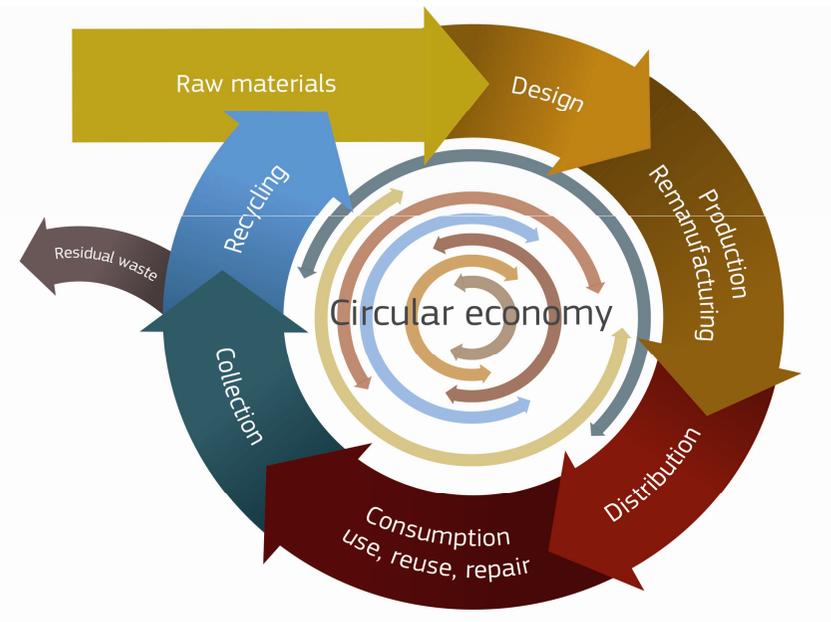
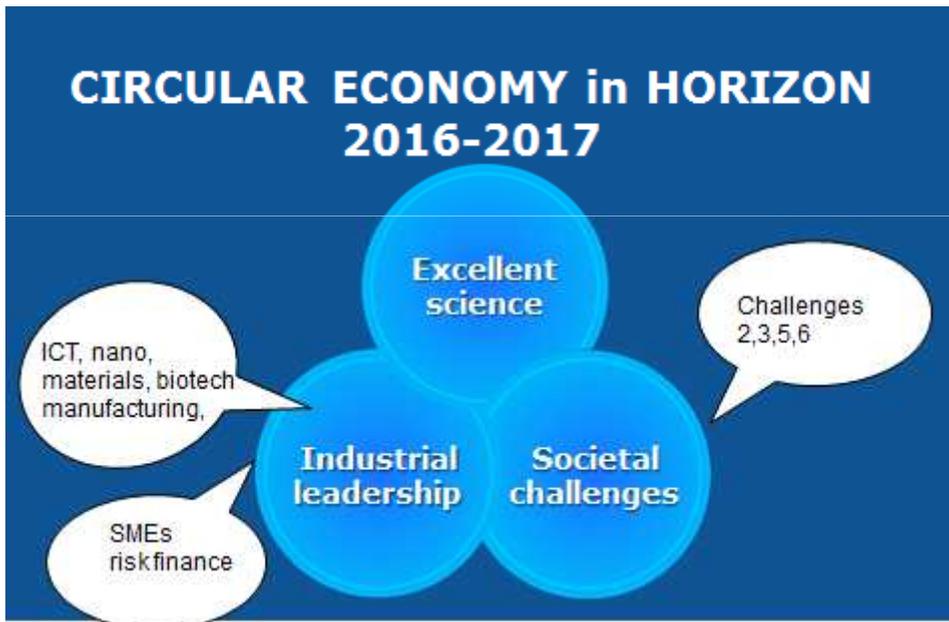


# EU MAJOR DRIVERS FOR RTD&I IN WATER SECTOR

- ✓ **EU RTD&I Framework Programmes** 130mio€/year
- ✓ **EIP WATER** – European Innovation Partnership on Water
- ✓ **Joint Programming Initiative** "Water challenges in a Changing World"
- ✓ **Water European Technology Platforms** (WssTP)
- ✓ **Public Private Partnerships** (SPIRE)

**-> HORIZON 2020**

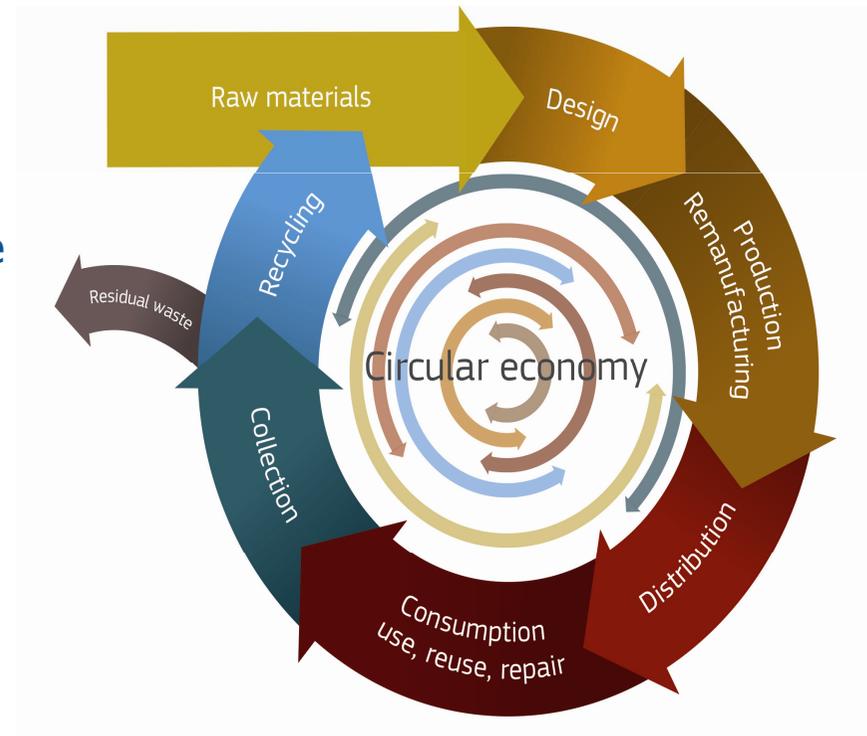
# WATER in HORIZON 2020



**H2020 the world's largest cross border research and innovation programme,  
with 80 billion € for the 2014-2020 period !**

# WATER in CONTEXT of CIRCULAR ECONOMY POSSIBLE ACTIVITIES

- ✓ **Large scale demonstration projects**
  - Industrial symbiosis via water reuse and recycling
  - Innovation in water reuse in agriculture
  - Water use system, across production/product/services
  - Water/energy/food/land-use interconnections
  - Smart cities and digital water mngt
  - Value chain
- ✓ **Public Procurement**
- ✓ **New business models**
- ✓ **Regulatory innovation**





# Thank you for your attention!

## Find out more:

- [www.ec.europa.eu/research/horizon2020](http://www.ec.europa.eu/research/horizon2020)
- <http://www.waterjpi.eu/>
- <http://www.eip-water.eu/>