



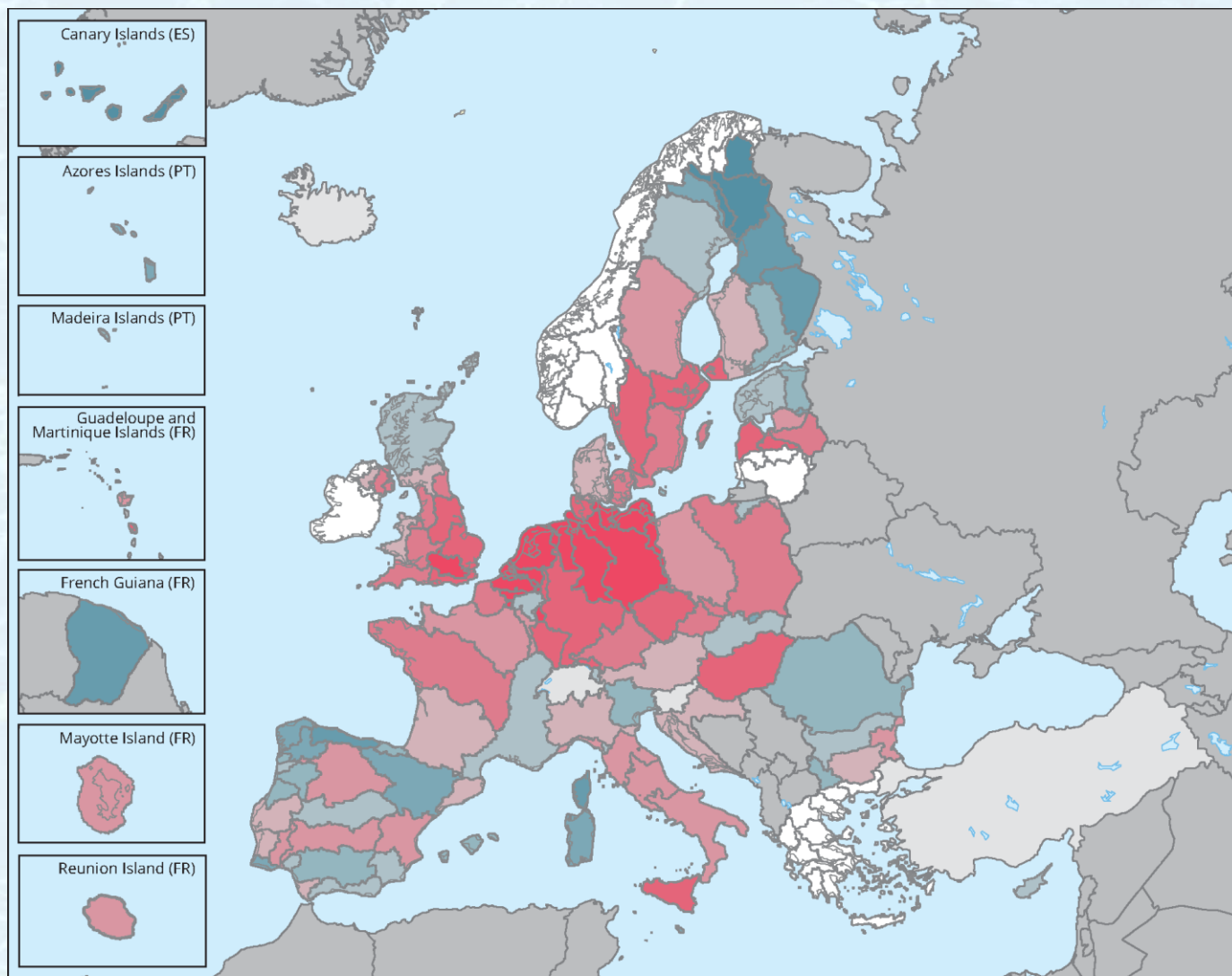
# **SDG Financing: example of SDG6 - Water**

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**Eco-innovation**  
**DG RTD**  
**European Commission**

# Structuring SDG implementation

- **SDGs vs EU acquis**
  - **SDGs: 100+ new targets and indicators**
  - **Mapping: EU policy covers many SDG targets**
  - **The challenge – not the policy ambition but the status of implementation**
- **Example of SDG 6:**
  - **EU water policy (WFD, DWD and UWWTD) sufficient to achieve the SDG targets**
  - **MS fail to implement the existing policy**





Percentage of number water bodies not in good ecological status or potential per river basin district (RBD) in second RBMPs



Commission  
européenne

# **The cost of implementation**

- **Cost of WFD implementation € 210-330 billion per 6-year implementation cycle**
- **Investment needs into water infrastructure € 90 billion annually (EIB)**
  - > only 30-50% actually invested**
- **Public sources of investment are limited**
- **EU contribution into water infrastructure:**
  - ERDF: € 15 billion in 2014-2020**
  - EIB: € 16 billion in last 5 years**
  - > mobilisation of private investment is necessary**

# The role of R&I



Innovative solutions can substantially reduce the implementation cost



The improved knowledge on the status can imply higher implementation costs





# Water challenges

- **Emerging pollutants**
- **Nutrients overload**
- **Water scarcity**
- **Unexploited Circular Economy potential**
- **Energy consumption of water systems**
- **Economic sustainability of water infrastructure**
- **Water governance**

# **Solutions to water challenges**

**Innovation plays a key role, e.g. in:**

- **Prevention of water pollution at source**
- **Water treatment, water reclamation and recycling of wastewater constituents**
- **Water efficiency, alternative sources**
- **Energy efficiency and energy generation in water systems**
- **Innovative governance models**
- **ICT enabled innovation**

# **Example: Membrane technology reduces cost of water treatment technology**

**AnMBR technology applied at WWTP in Oliva and Torrent, Spain for waste water treatment and water reuse:**

- Oliva: 40-60% reduction of the cost of treatment**
  - Torrent: 10% reduction of costs (due to nutrients removal obligation in the sensitive area)**
  - Additional savings to farmers (replacement of mineral fertilisers)**
  - Additional potential revenue from energy production from biogas**
- > who will benefit from the reduced costs?**



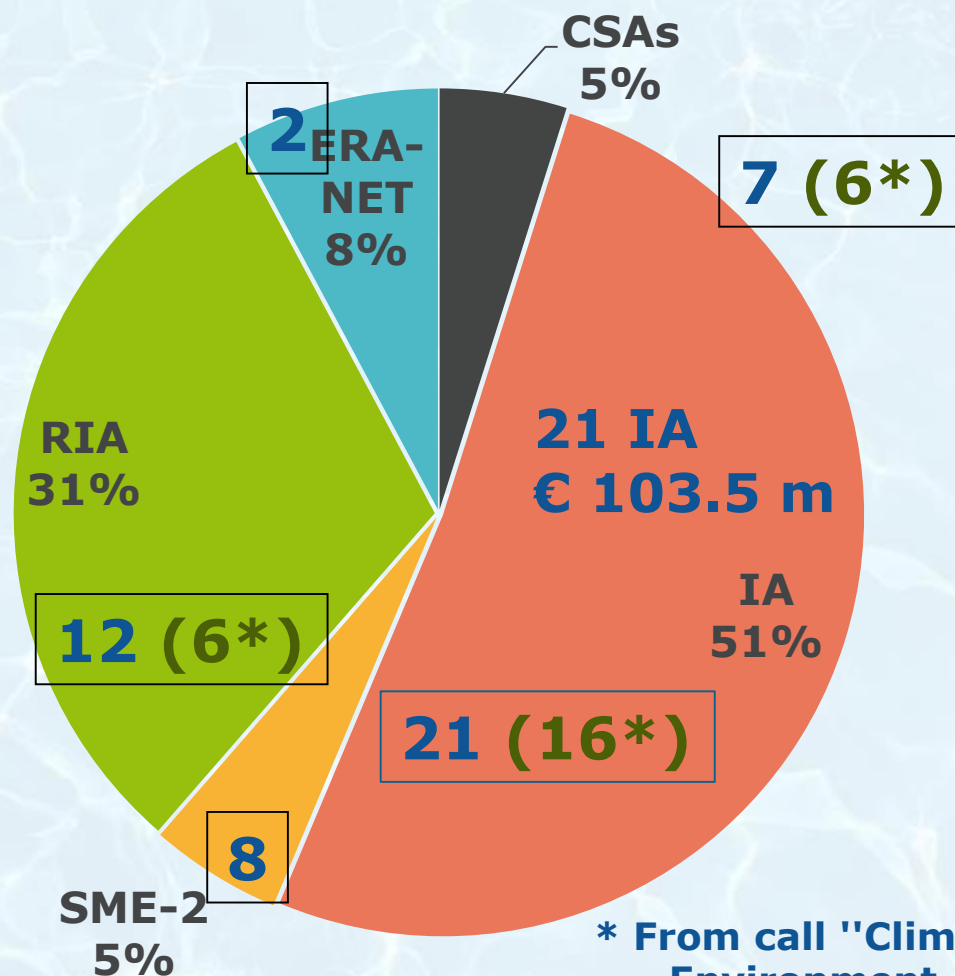


# EU support of water innovation

- **A number of water related projects in FP6, FP7 and Horizon 2020**
  - **SC Environment and Climate**
  - **SC Agriculture and Bio-economy**
  - **SC Energy**
  - **LEIT**
  - **InnovFin**
- **Water JPI (ERANET Cofund)**
- **PRIMA (Mediterranean region)**
- **EU international cooperation (China, India, Brasil)**
- **ESIF**
- **LIFE**
- **ERDF**

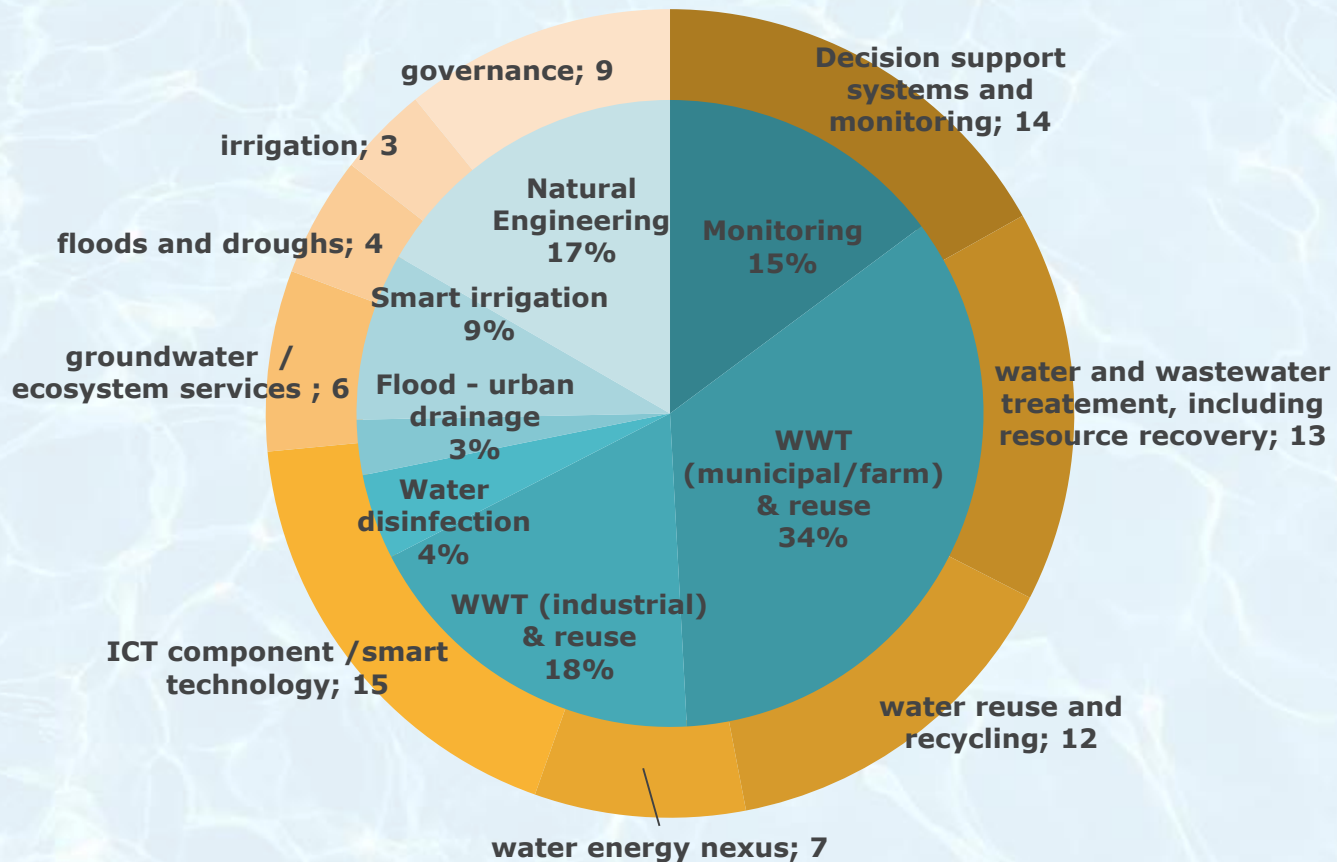
# H2020\* Water funding for 2014 -15

**50  
projects  
more than  
€215m**



**\* From call "Climate Action ,  
Environment, resource efficiency  
and raw materials**

# H2020 Water IAs Thematic Coverage



# **H2020 Work programme 2018-2019**

## **Call "Greening the economy in line with the Sustainable Development Goals (SDGs)"**

- **CE-SC5-04-2019: Building a water-smart economy and society**
  - a) Symbiosis between industry and water utilities,
  - b) Large scale applications of water innovation with multiple water users and at various scales.

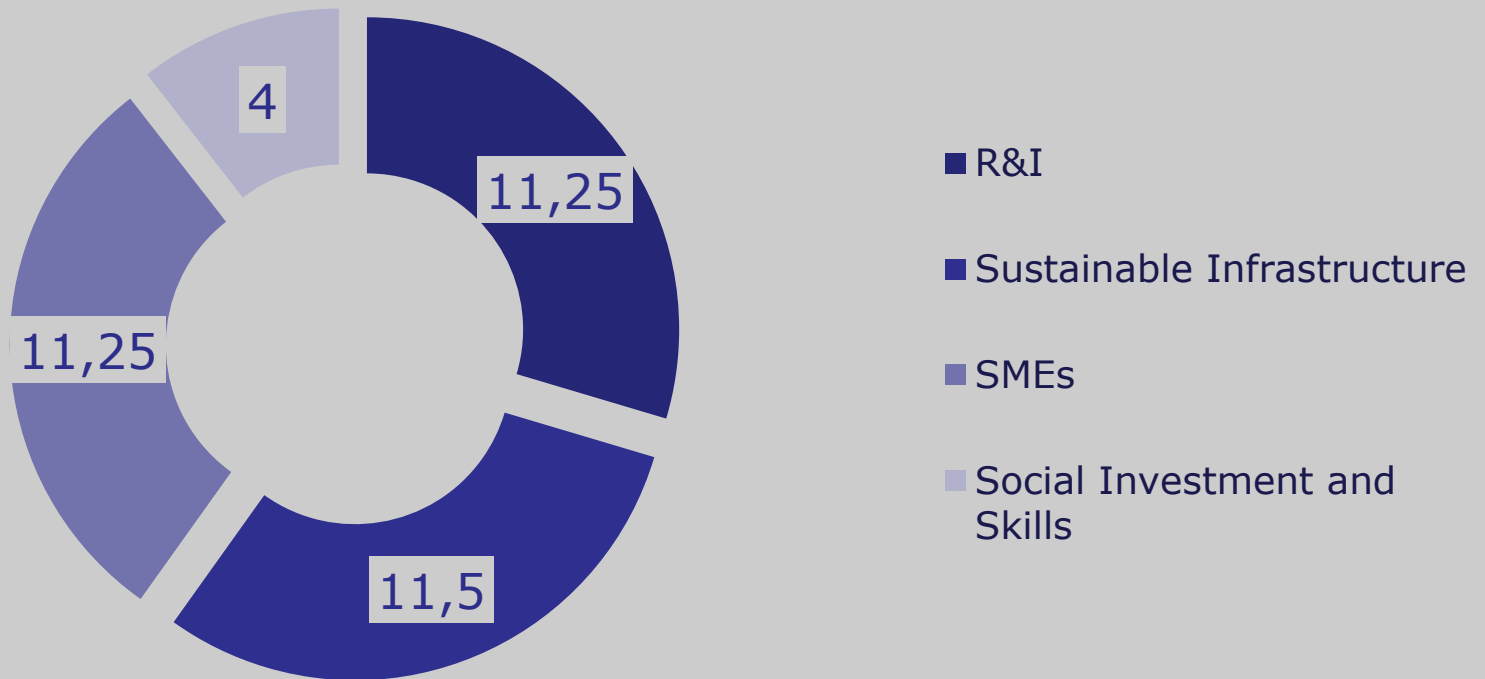
# Horizon Europe 2021-2027

- **100 BEUR**
- **ERC, EIC and a thematic segment**
- **5 thematic clusters (50% of funds) of which several are relevant for water:**
  - **Food and Natural Resources**
    - Circular use of water resources, including reduction of water demand, prevention of losses, water reuse, recycling and valorisation of wastewater and governance models for smart water allocation, addressing sources of pollution and tackling other pressures on water resources.
  - **Digital and Industry**
  - **Climate, Energy and Mobility**
  - **Inclusive and Secure Society**
- **R&I Missions**
- **Partnerships – co-programming and co-funding**



# EU Invest

**Invest EU's 4 investment windows: budgetary guarantees in billion €**



Expected leverage € 200 billion

# Thank you for your attention

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