



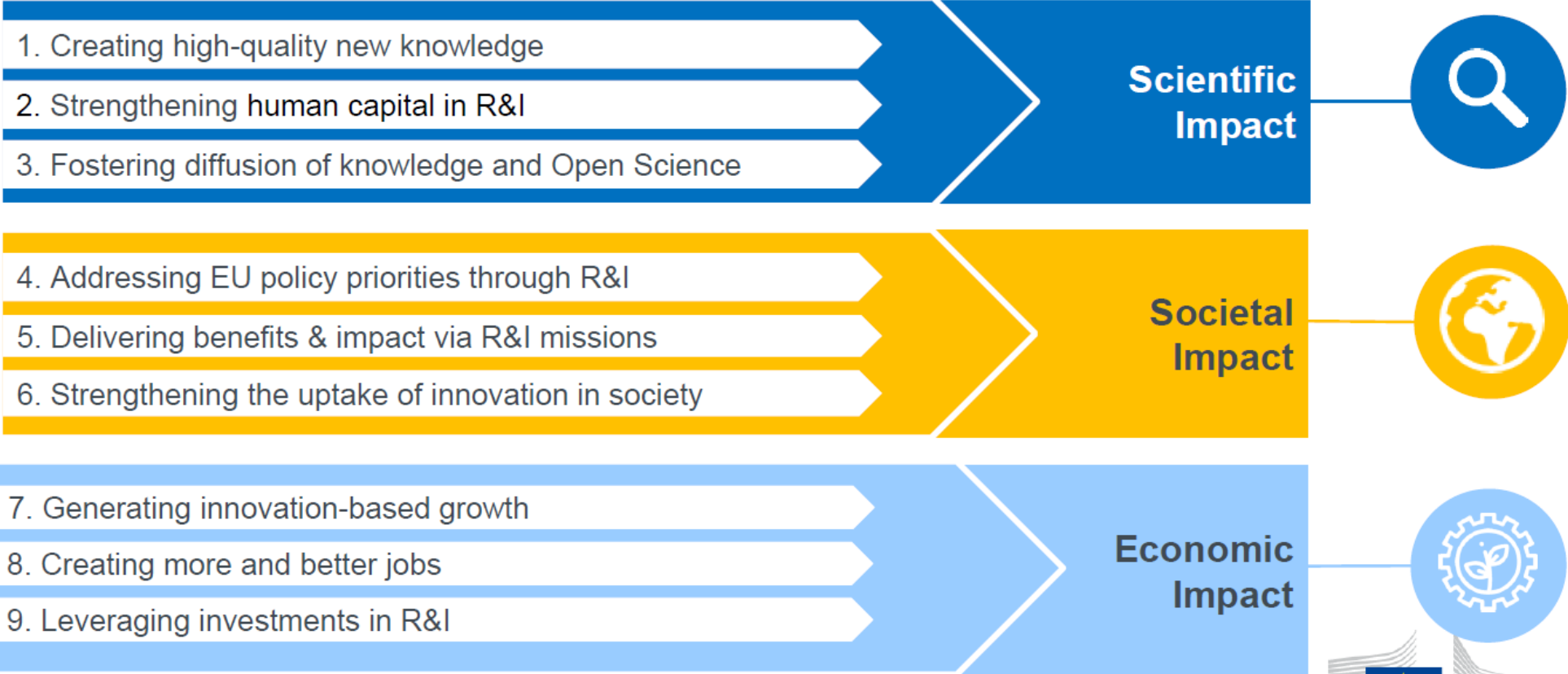
ASSESSING THE IMPACT PATHWAYS OF IA/RIA SC5 PROJECTS THROUGH THE USE OF PORTFOLIO ANALYSIS

# Impact Pathways Approach: Water Portfolio

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## Impact pathways



Bruno & Kadunck 2018. Impact pathways: Tracking and communicating the impact of the European framework research programme for research and innovation.



## Portfolio analysis

- Basic definition of a project portfolio: a group of projects that is analysed as a functional whole from a systemic perspective, identifying relations and/or collaborations among projects
- Common denominators of portfolios: funder, performer, country, topic
- Characteristics of portfolio analysis:
  - The middle level of analysis - between project and programme levels
  - Focus on synergies and interactions - portfolio's effects are larger than the sum of its parts
  - Focus on diversity - balanced vs. unbalanced portfolios
  - Well apt to address impact pathways



# Water portfolio SC5 2014-15

Project clusters under water portfolio	Call topics	Number of projects	EC Contribution (€)
<b>Water resources and resilience</b>	WATER-1a-2014	16	78,790,155
	WATER-1b-2015		
	WATER-2a-2014		
	WATER-2b-2015		
	WATER-5c-2015		
<b>Water treatment</b>	WATER-1a-2014	13	59,201,331
	WATER-1b-2015		
	WATER-5c-2015		



## Water portfolio: Scientific impact pathway

- Scientific activities:
  - 400 peer-reviewed publications
  - 70 open-access datasets
  - More than 30 PhD theses
  - Gender: 60% males; gender knowledge/analysis produced in most projects
  - International partnerships: 66 partners from non-EU27 countries
- Scientific contribution:
  - Development and uptake of eco-innovative water solutions for water resource management and water treatment
  - Better understanding on water contamination
  - Improved understanding of water cycle under future climate
  - Integrated approaches to food security, low-carbon energy, sustainable water management and climate change mitigation (the Nexus approach)



## Water portfolio: Societal and environmental impact pathway

- Policy activities
  - Majority of the projects addressed EU policy priorities via policy outputs and policy interactions
  - Plenty of efforts to raise the awareness of water solutions among regional and national policy makers and utilities
- Policy contribution
  - More efficient and sustainable water use and treatment, reduction of pollution, resource recovery and reuse - in line with the European Green Deal, the New Circular Economy Action Plan and the Zero-Pollution Ambition
  - Improved capabilities of water and wastewater systems to meet the environmental and socio-economic objectives and requirements of various regions
  - Citizens: dissemination efforts were mainly directed towards public organisations and demonstration activities with industrial stakeholders and utilities - less than half of the projects reported interaction with local communities or citizens



## Water portfolio: Economic impact pathway

- Economic activities
  - Majority of the projects reported on producing innovative products, processes or methods
  - Majority of the projects reported on great advancements in raising the TRLs of the technologies under development
  - 19 patent applications submitted
  - Only few accounts of mobilizing additional investments, mainly from public funding sources
- Economic contribution
  - Versatile new water technologies ranging from online platforms to robotic monitoring vehicles and novel water treatment technologies
  - Several projects reported on successful full-scale pilots and demonstrations
  - Lack of information on job creation