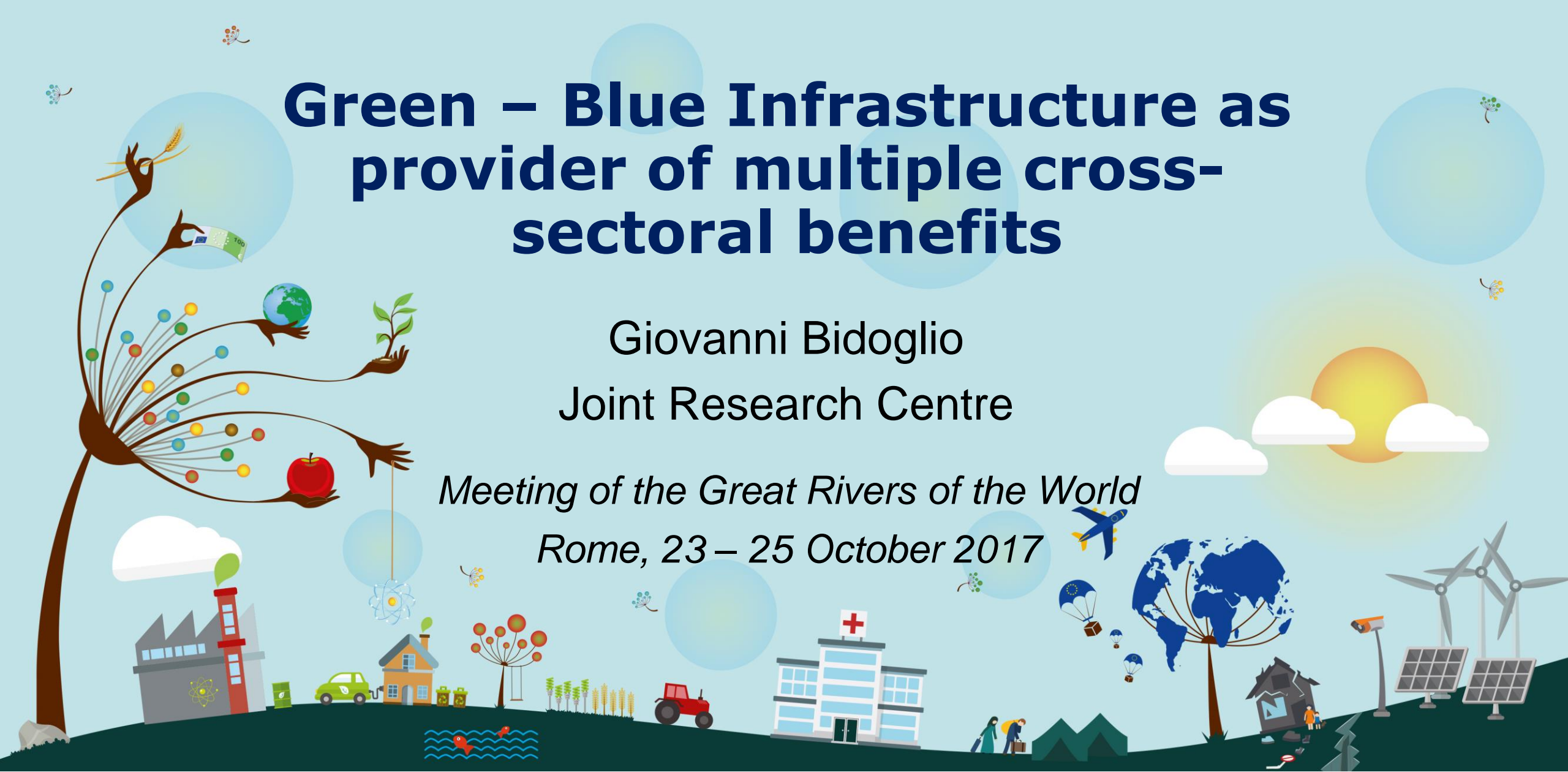


# Green – Blue Infrastructure as provider of multiple cross-sectoral benefits

Giovanni Bidoglio  
Joint Research Centre

*Meeting of the Great Rivers of the World  
Rome, 23 – 25 October 2017*



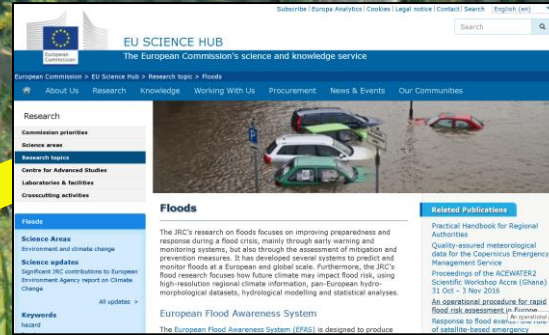
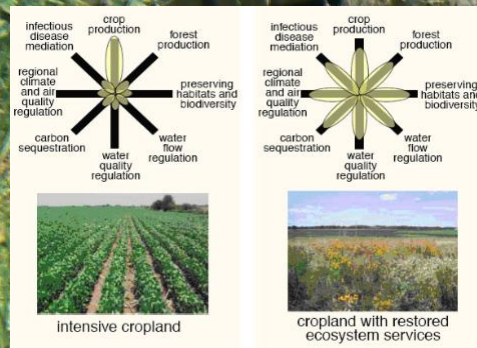
Securing  
resilience of  
global energy  
and food  
systems builds  
on fairness of  
water allocation  
strategies



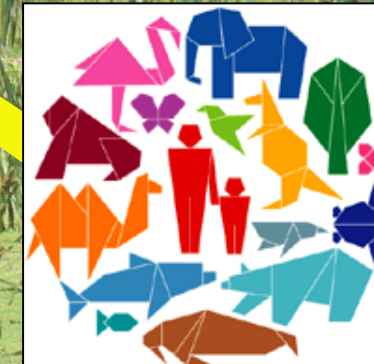
# Ecosystems in an interdependent EU policy context

## Floods Directive and EU Action Plan for Disaster Risk Reduction

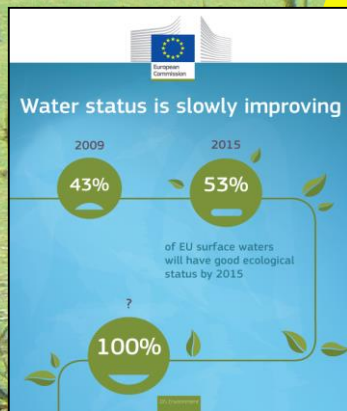
### Common Agricultural Policy



### EU Biodiversity Strategy



### Water Framework Directive



### Partnership on Sustainable Land Use and Nature-based Solutions



# The benefits of multifunctionality

**Filtering of water pollutants**

**Reduction of storm water runoff**

**Energy saving through insulation**

**Decreasing urban heat effects**



**Providing habitat for a variety of species**

*Ability to perform several functions and provide different benefits on the same spatial area*

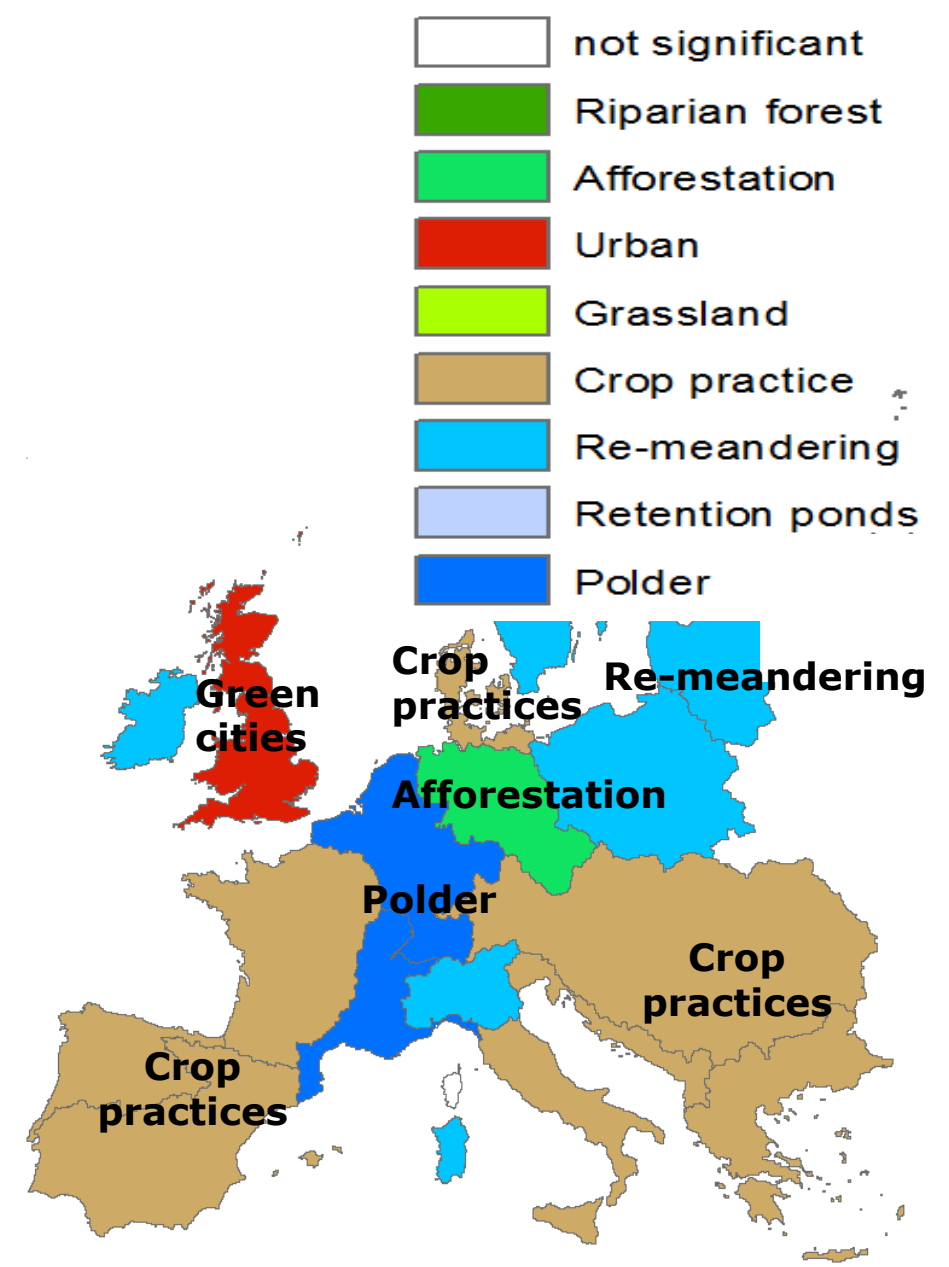
# Tailoring the spatial distribution of measures

## Year 2030 scenarios

Investing in natural solutions to reduce the discharge of flood peaks

*Indicator of effectiveness:  
20 year return period*

Exploring trade-offs with economic and social goals



Source JRC



# Message in a bottle

- Mainstream ecosystem-based measures in territorial planning
- Need to generate awareness, but also solutions demonstrating potential benefits
- Promote transfer of best practices through the creation of international networks involving cross-sectoral stakeholders



*A WEFE-Nexus science-policy interface for Europe, Mediterranean and Africa*