

# The European Commission's science and knowledge service

Joint Research Centre

## ESTIMAP for ecosystem services accounting

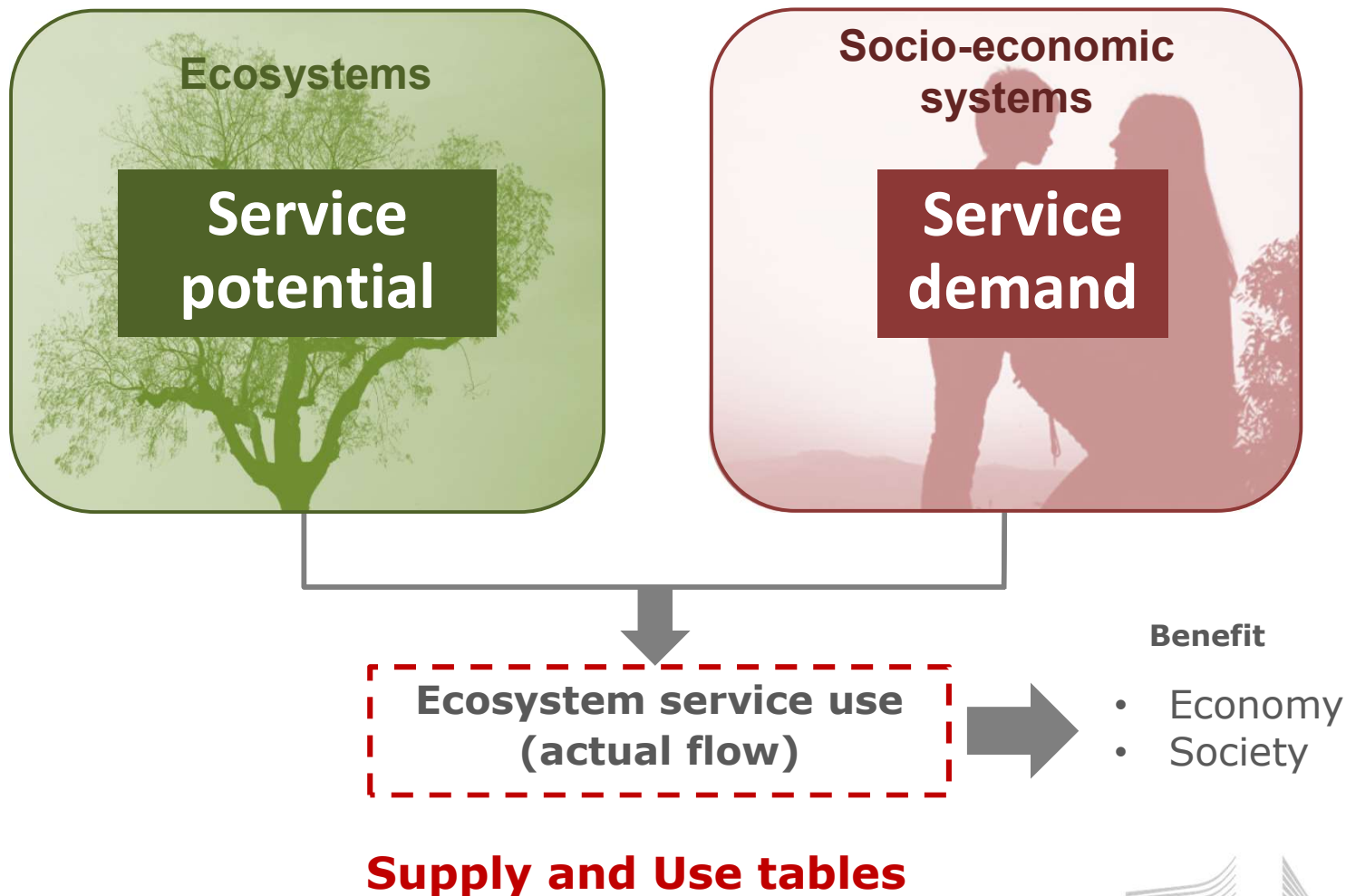
Alessandra La Notte

SEEA EEA Forum of Expert, 25 August 2020

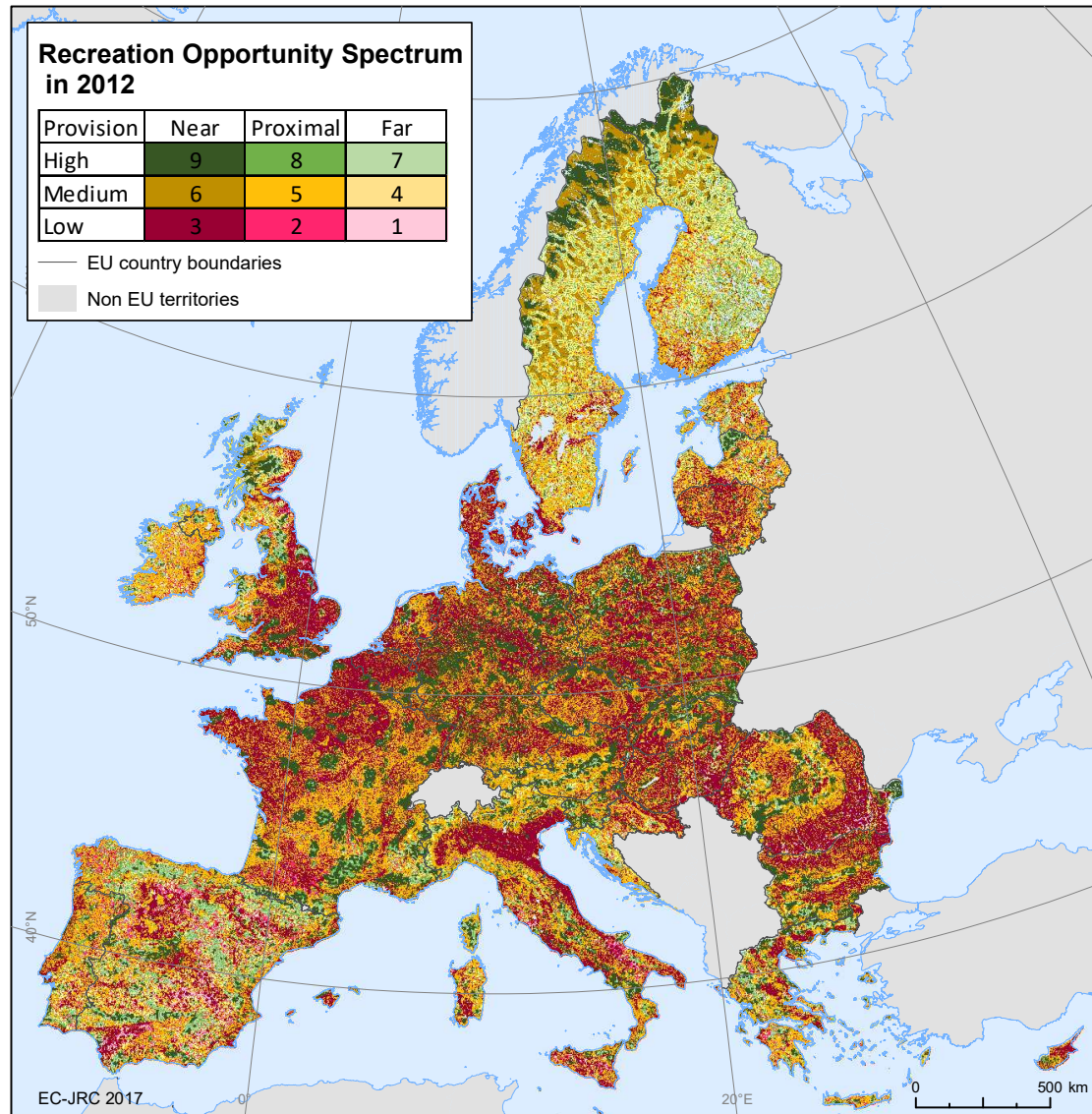


European  
Commission

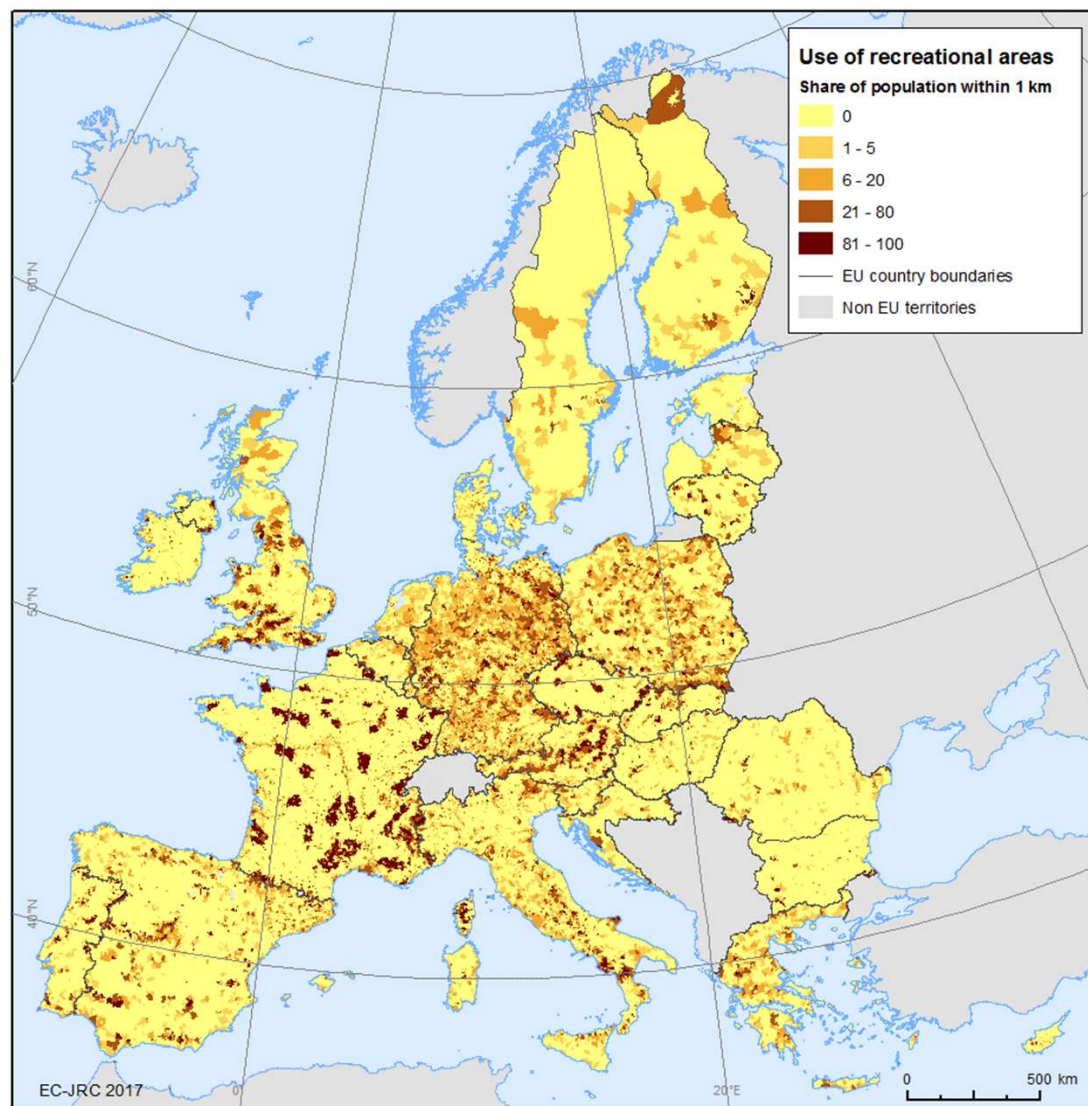
# One opportunity



# ESTIMAP: Nature based recreation potential

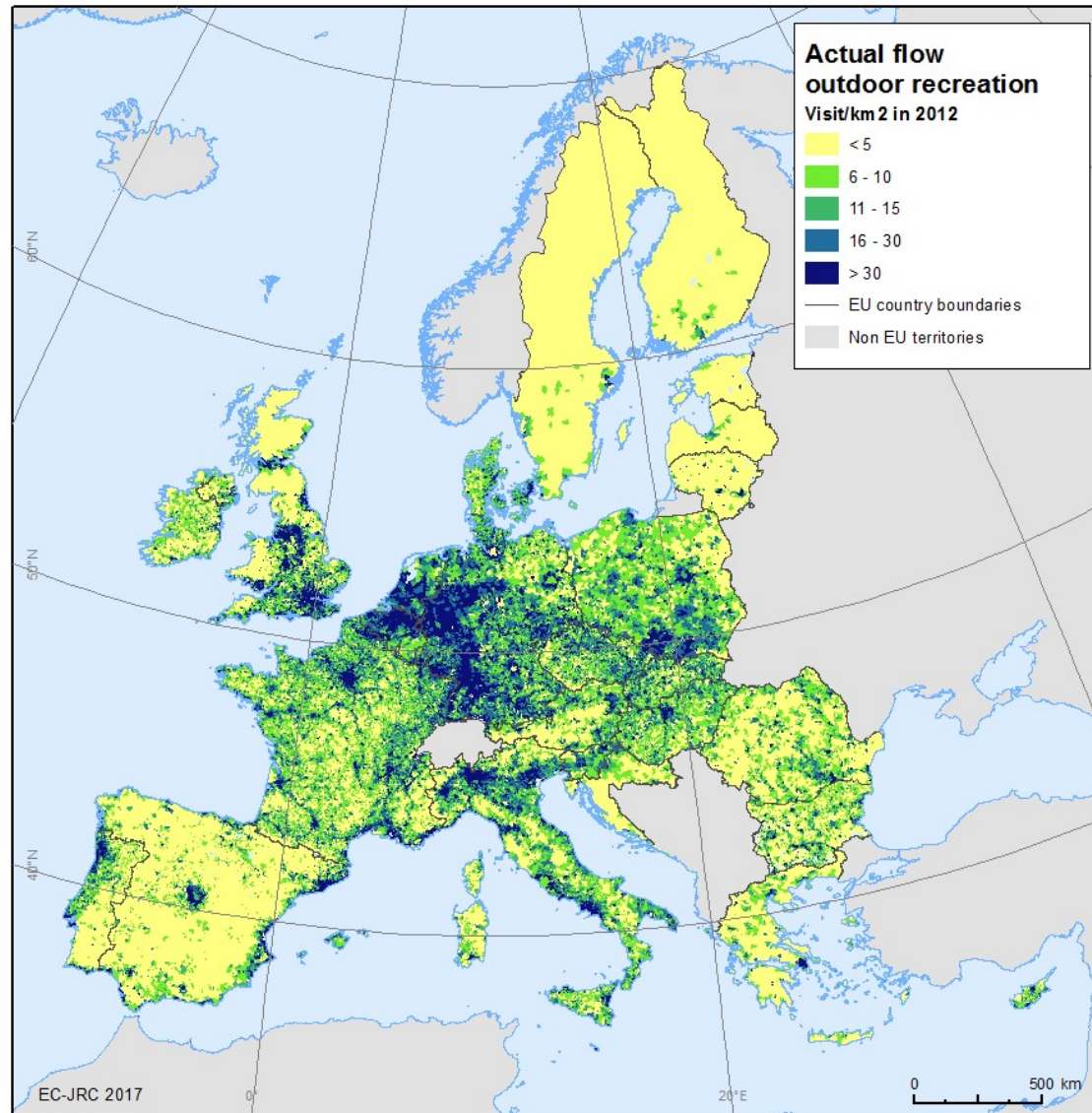


# INCA beyond ESTIMAP: Daily nature based recreation demand

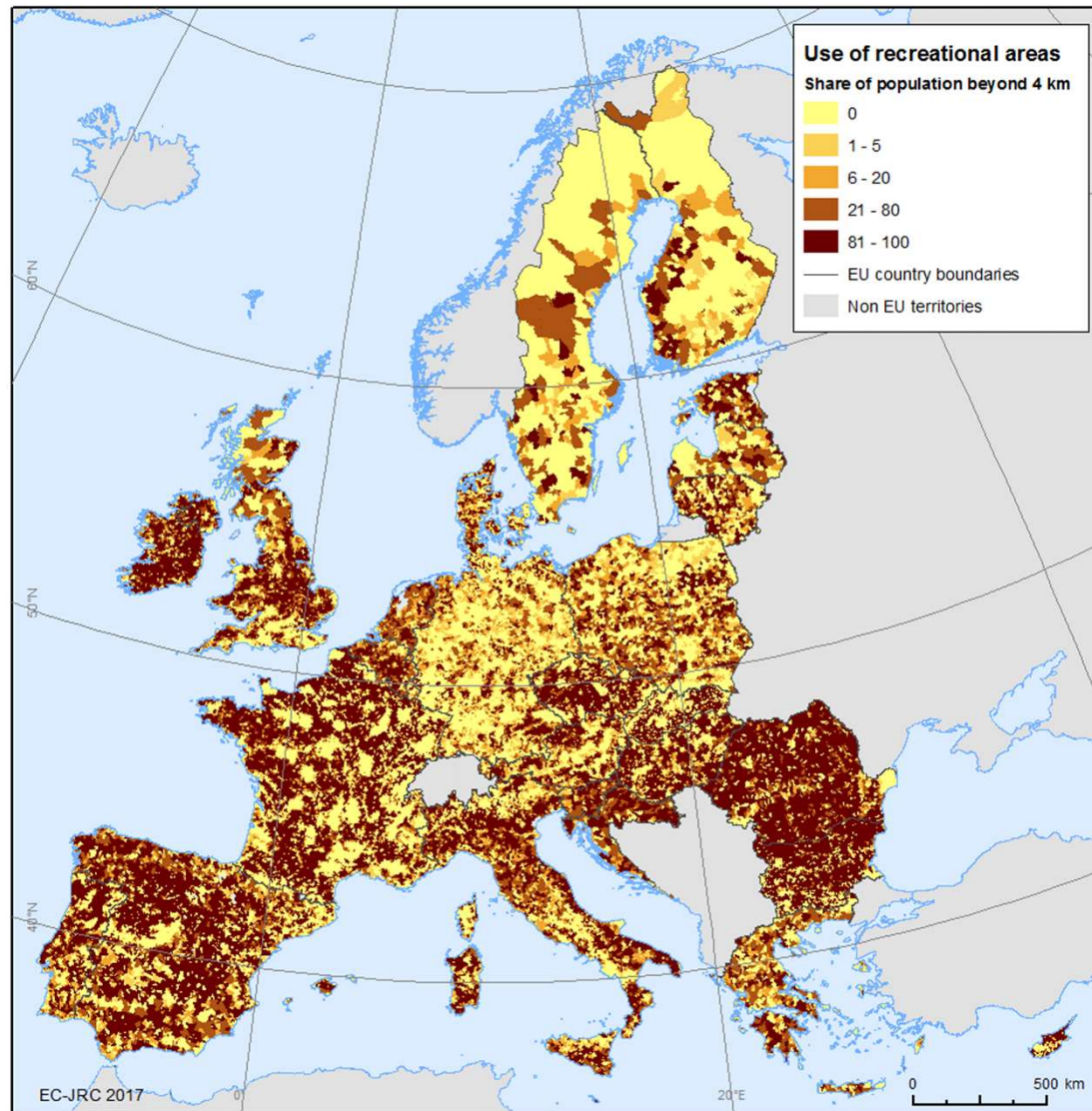




# INCA beyond ESTIMAP: Nature based recreation actual flow



# INCA beyond ESTIMAP: Nature based recreation unmet demand



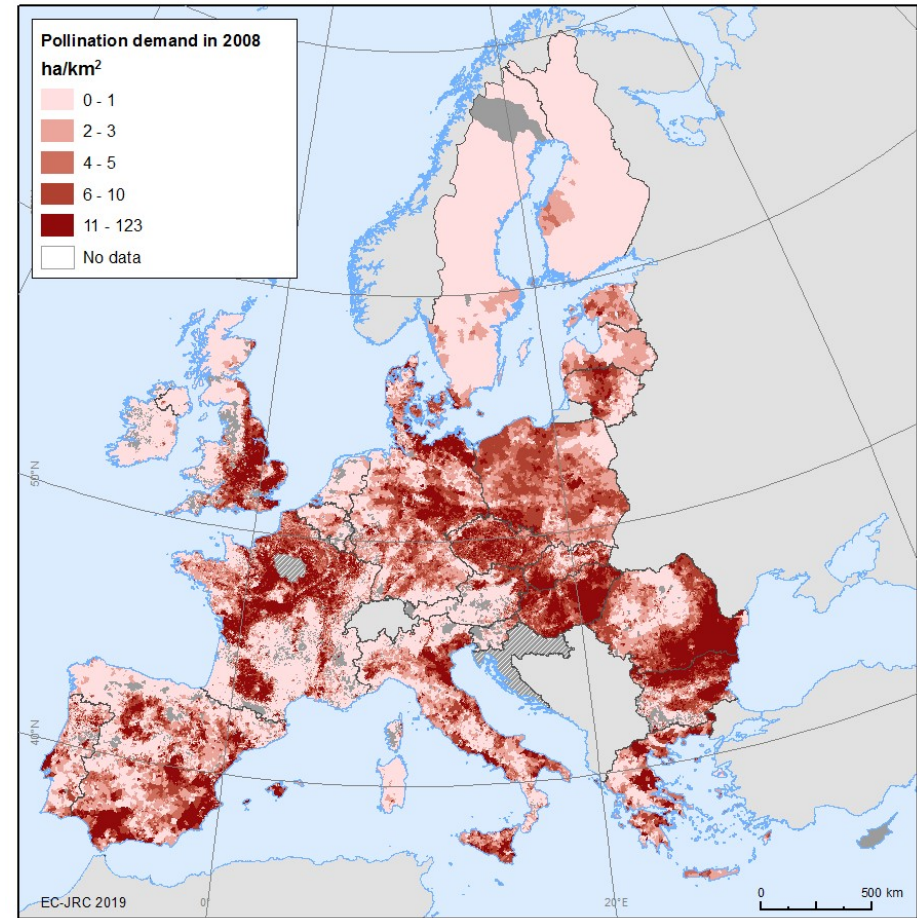


# Crop pollination

## ES potential

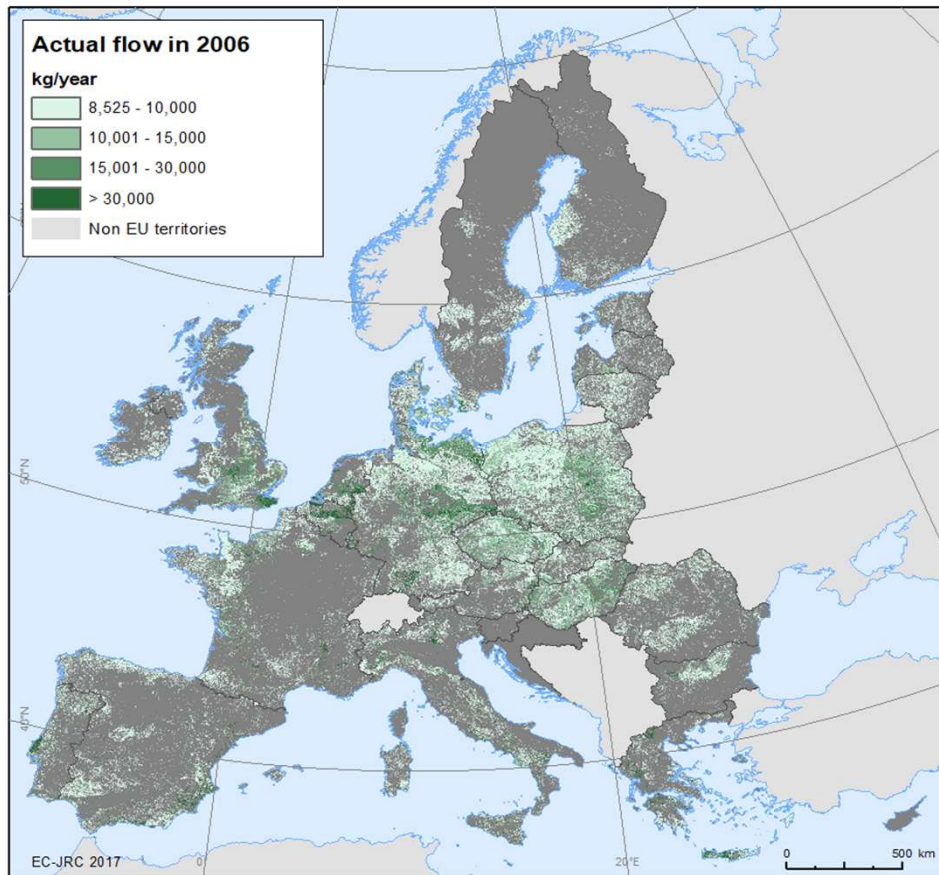


## ES demand

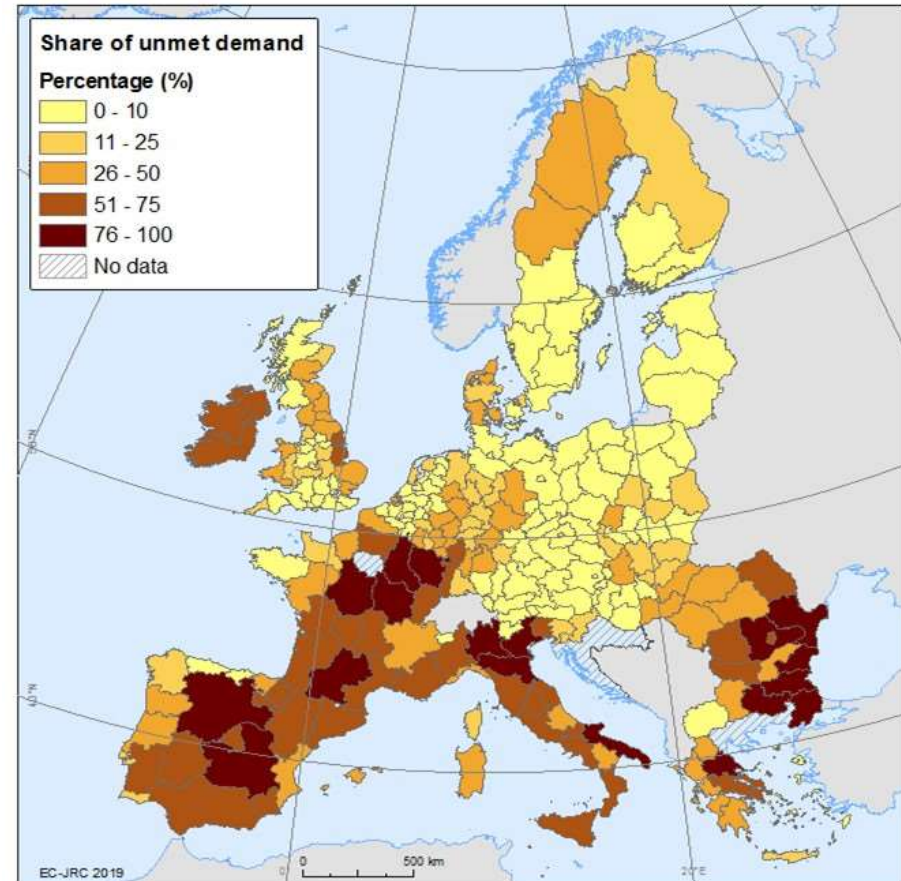


# Crop pollination

## ES actual flow



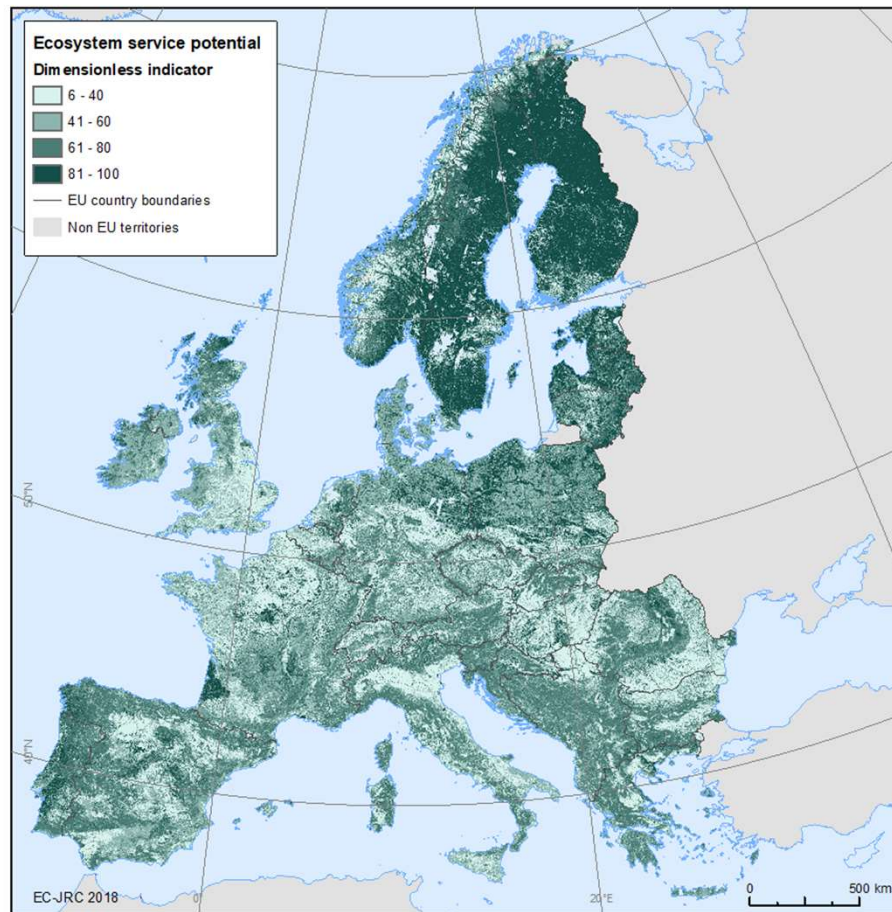
## ES unmet demand



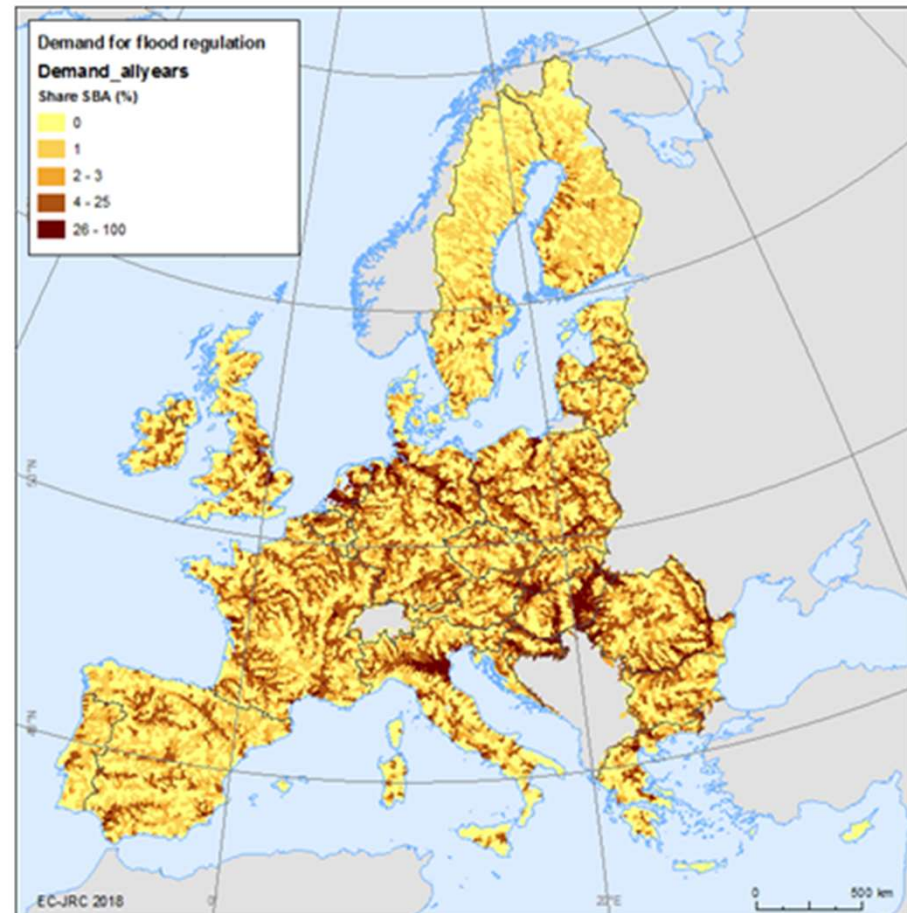


# Flood control

## ES potential

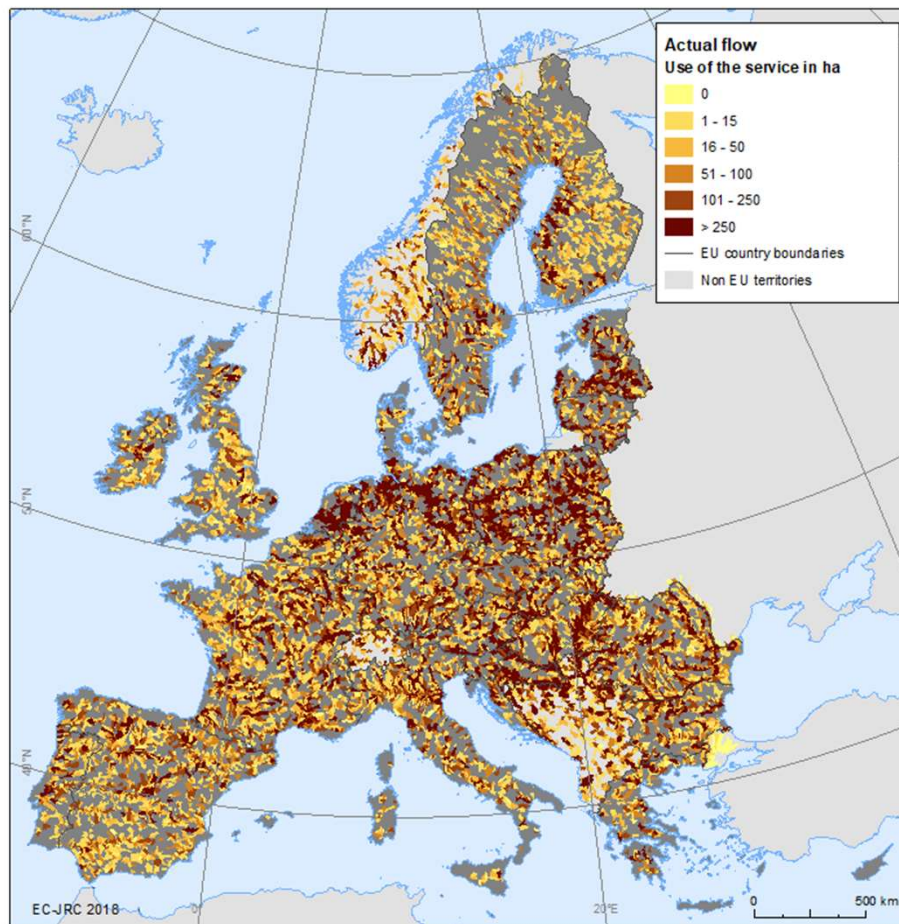


## ES demand

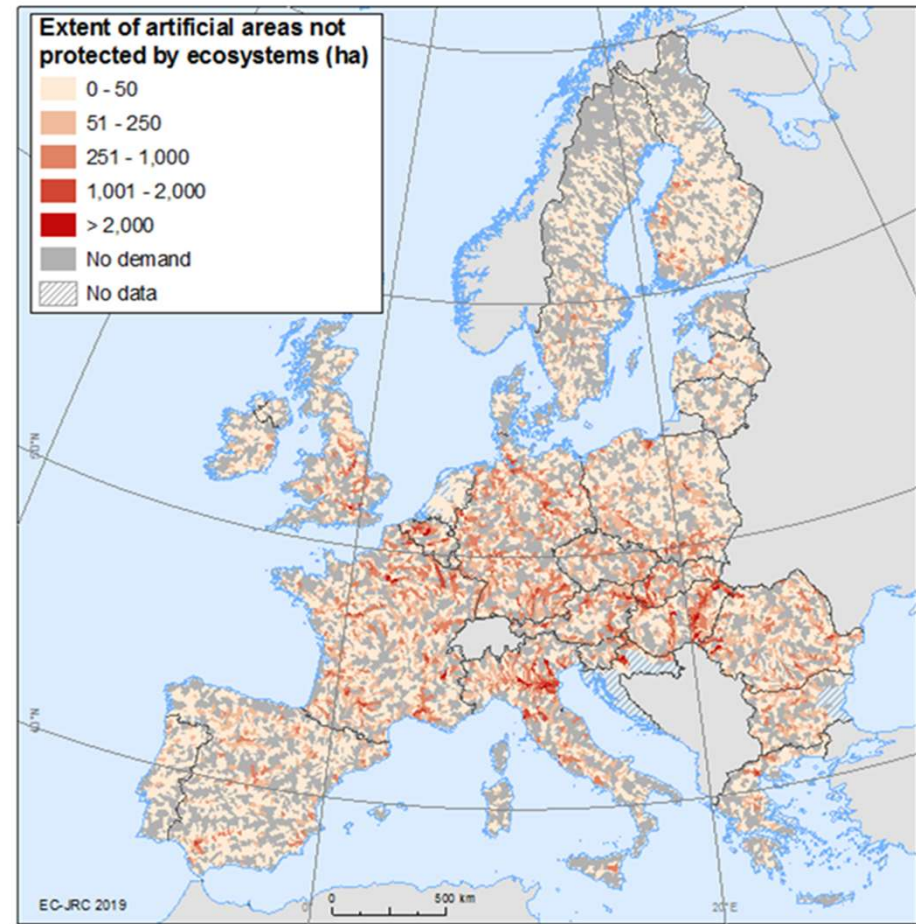


# Flood control

## ES actual flow



## ES unmet demand



# One challenge

First step →  
experimental application in KIP-INCA  
by JRC (2017-2020)

Second step →  
generate IT tools (including GIS tools) to produce ES  
accounts according to workflow (ES potential and ES  
demand) developed by JRC and enable automated  
production of accounts



# The role of INCA modelling tools for the application of SEEA EEA

Modelling and mapping can be an option for provisioning services but remains **essential** for regulating, maintenance and cultural services

Plug-in GIS tools can bring ecological modelling in statistical office, but the compilation of ES accounting needs the human component:

- need to customize and adjust variables
- need for the outcome to be meaningful
- need for appropriate interpretation



## JRC TECHNICAL REPORTS

### Implementing an EU system of accounting for ecosystems and their services

Initial proposals for the implementation of services accounts

Report under phase 2 of the knowledge innovation project on the development of natural capital and ecosystem services accounting in the EU

Alessandra La Notte, Sara Polce, Grazia Zulian, Nikos Alexandris, Silvia Ferrini and Joachim Maes

2017



## JRC TECHNICAL REPORTS

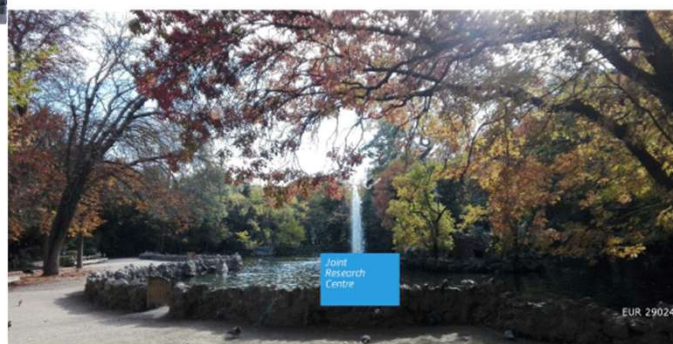
### Ecosystem services accounting

#### Part I Outdoor recreation and crop pollination

**KIP INCA Report** - contribution to the Knowledge and Innovation Project on an Integrated system of Natural Capital and ecosystem services Accounting in the EU

Sara Vallecillo, Alessandra La Notte, Chiara Polce, Grazia Zulian, Nikos Alexandris, Silvia Ferrini and Joachim Maes

2018



## JRC TECHNICAL REPORTS

### Ecosystem services accounting

#### Part II Pilot accounts for crop and timber provision, global climate regulation and flood control

**KIP INCA Report** - contribution to the Knowledge and Innovation Project on an Integrated system of Natural Capital and ecosystem services Accounting in the EU

Vallecillo, S.; La Notte, A.; Kakoulaki, G.; Kamberaj, J.; Robert, N.; Dottori, F.; Feyen, L.; Rega, C.; Maes, J.

2019

