The European Commission's science and knowledge service

Joint Research Centre

Water purification: economic valuation and accounting

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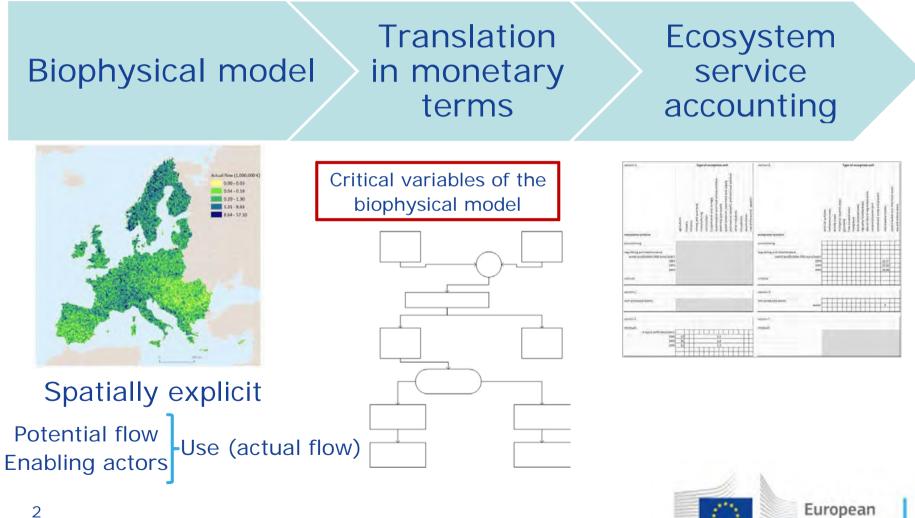
Bonn, 24-26 April 2018

....



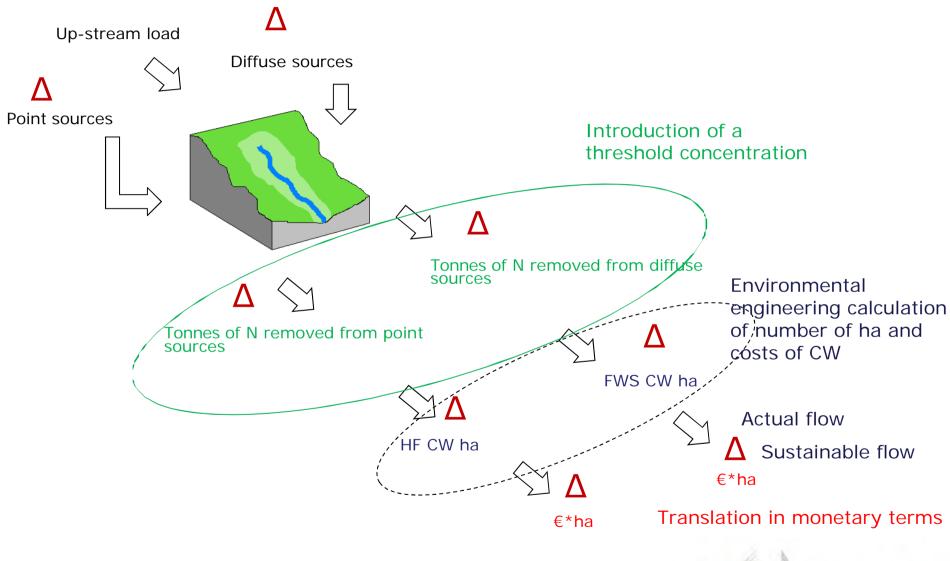


JRC approach for Ecosystem Service Accounting



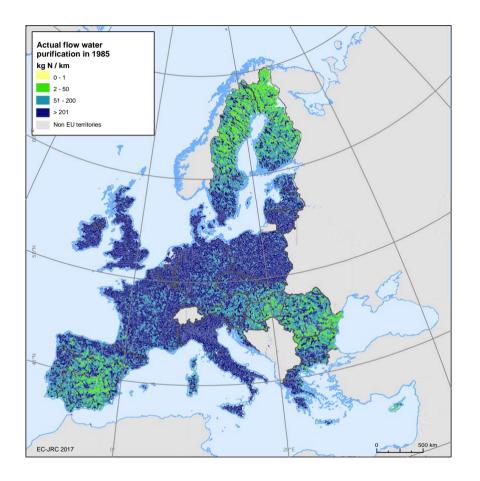
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Graphical simplification of the procedure

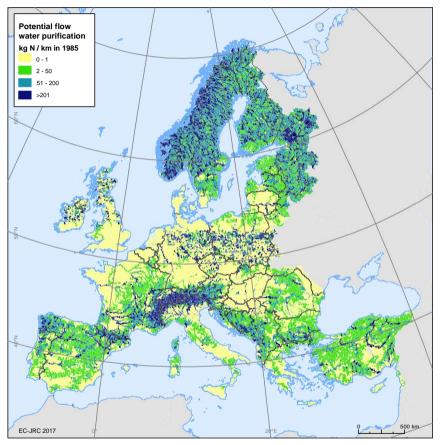




Actual flow



Potential flow



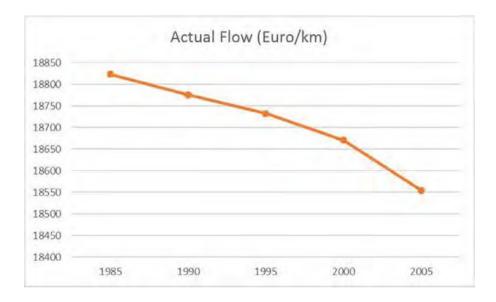
Considering a threshold of 1mg/l

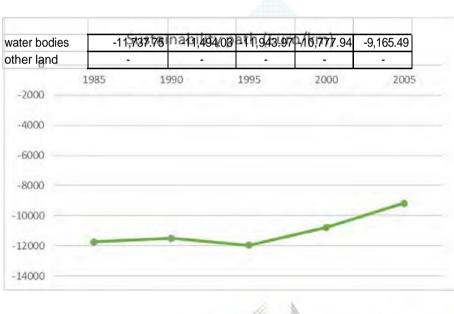


Role of enabling actors: who drives changes in the actual flow...

...what is the impact of these changes?

EU 25					
Agriculture	18,467.93	18,417.70	18,372.09	18,317.43	18,223.31
Other sectors	355.71	357.98	360.24	353.31	331.71

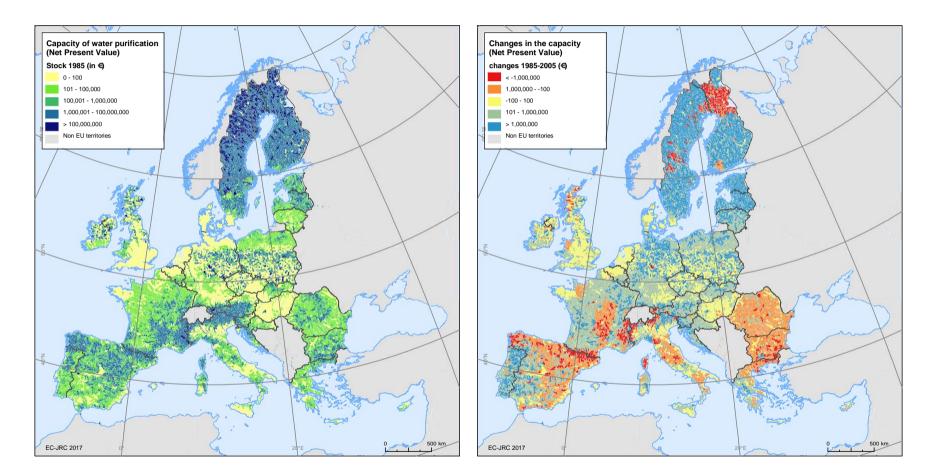






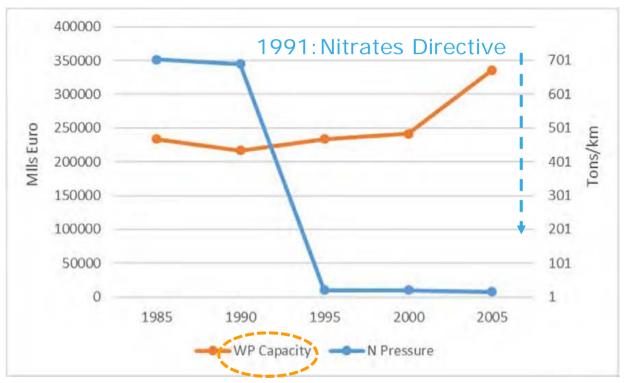
Water purification capacity (NPV)

Capacity trend 1985 - 2005





How much is it worth to decrease N inputs?



EU-27 (no Malta)

Long term ability to generate water purification



Issues that need to be discussed

- Motivations for the use of replacement cost
- Motivations for the use of CW as replacement cost
- NPV: lifetime (T)? Interest Rate?
- Approach for application in time series:

If there is only one reference monetary value

- CPI?
- Constant prices /current prices?
- Exchange rate?

If there are more reference monetary values but not for all the time series

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- How to "mix" the values



Commission