

# Impacts



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## Dictionary definition of “impact”

- ▶ **Strong effect:** the powerful or dramatic effect that something or somebody has

## Background

- ▶ Water is complex and is **NOT** carbon!
- ▶ Serious issues in water to be resolved and reconciled
- ▶ Major risks to mitigate
- ▶ Emergence of water footprint concept
- ▶ Impacts in WF
- ▶ Other metrics communities
- ▶ Environmental flows

## Issues

- ▶ When does a human activity become an impact?
- ▶ Is an impact ‘value free’?
- ▶ Is the impact the outcome you want or the problem you are addressing?
- ▶ How do impacts relate to risks?
- ▶ Who decides all this?

## Impact definitions

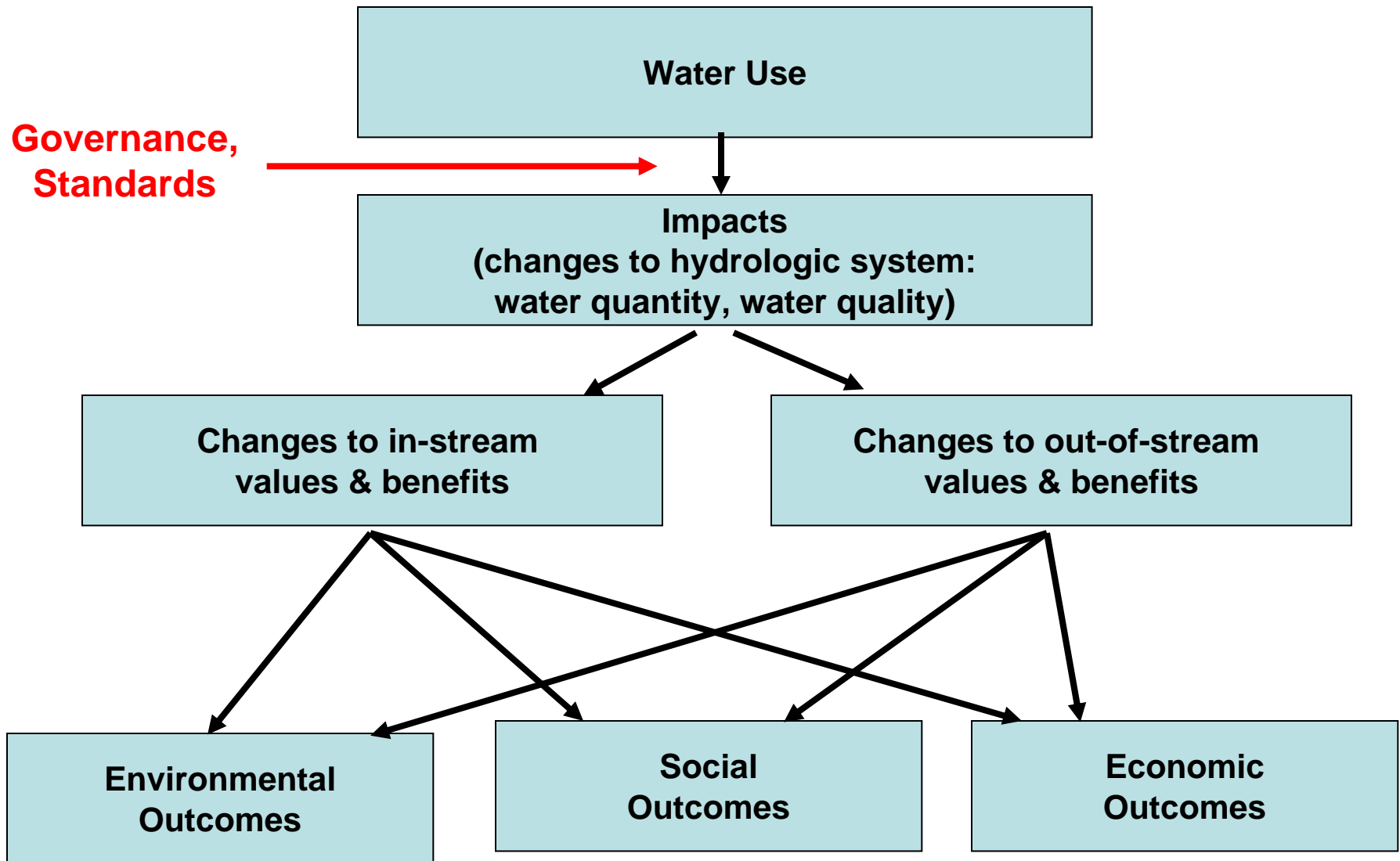
- ▶ Regulatory
- ▶ Impact assessment
- ▶ Payments for Environmental Services
- ▶ Water Footprint
- ▶ Standards definitions
- ▶ Environmental flows
- ▶ ISEAL

## Impacts or Risk?

- ▶ Are they the same?
- ▶ Does risk emanate from impact?
- ▶ Not all risks are from your water use
  - ▷ Standards
  - ▷ Beyond footprint
  - ▷ Best self regulation possible

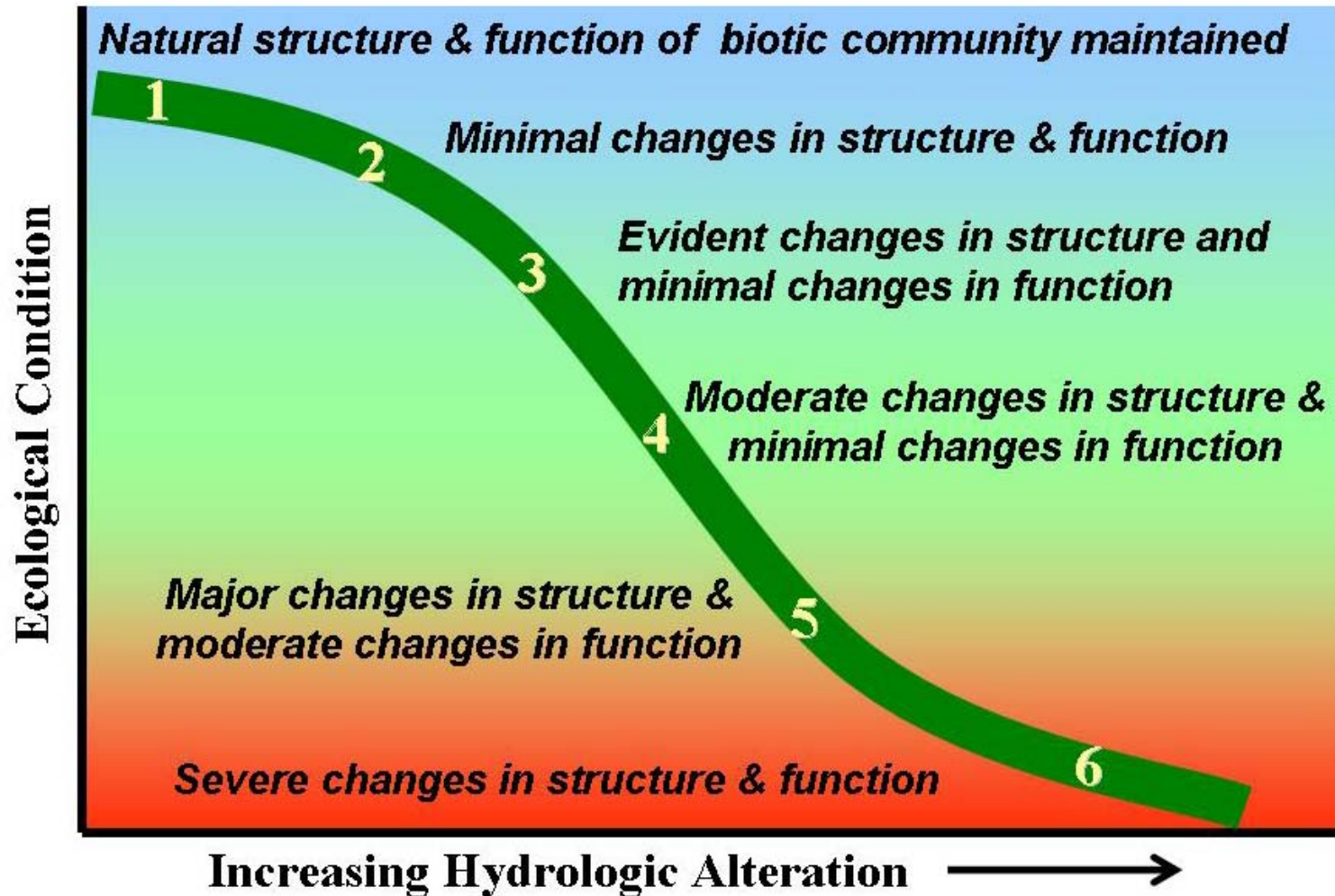
## What are we shooting for?

- ▶ The desired state in water?
- ▶ Societal decision...
- ▶ ...or Scientific determination?

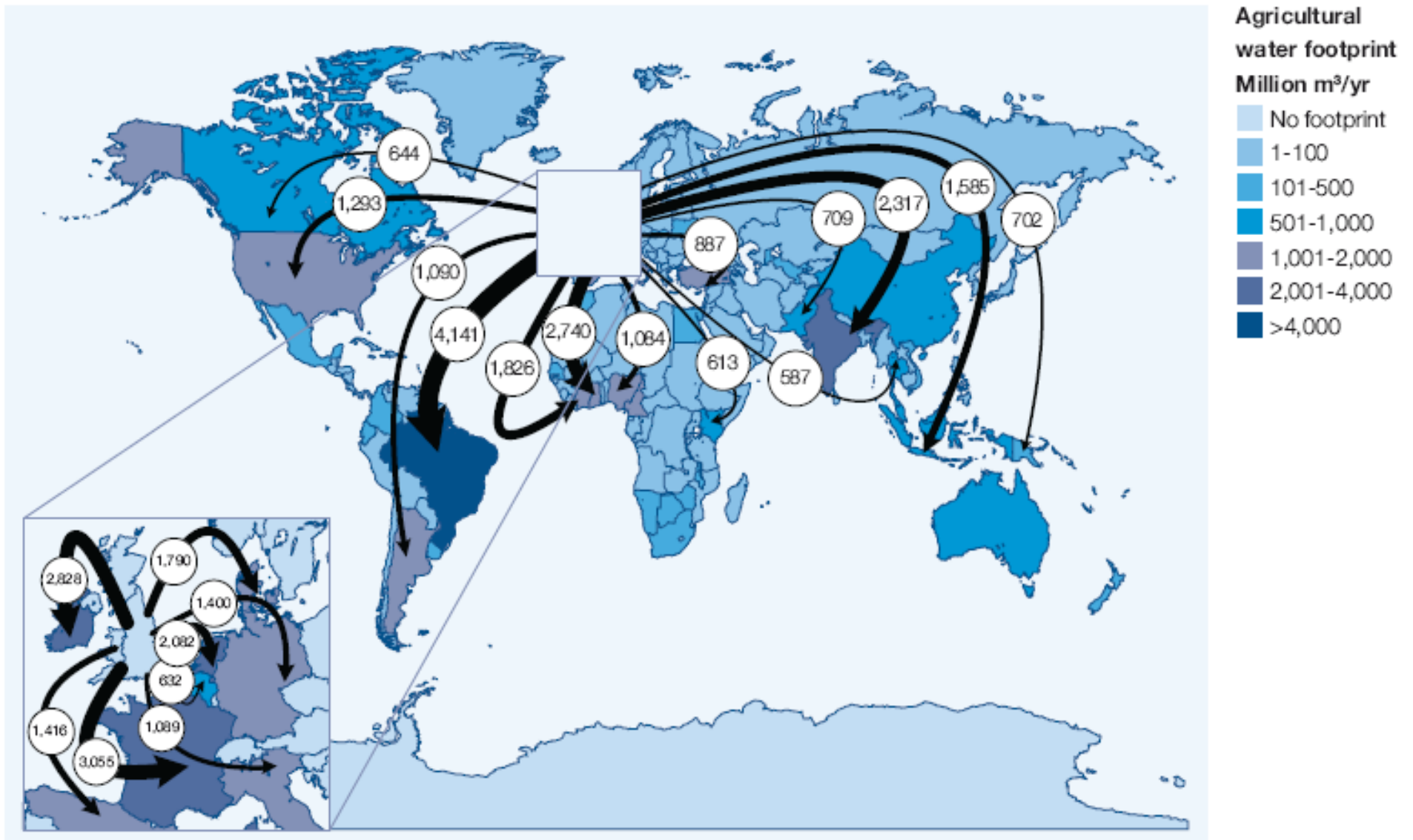




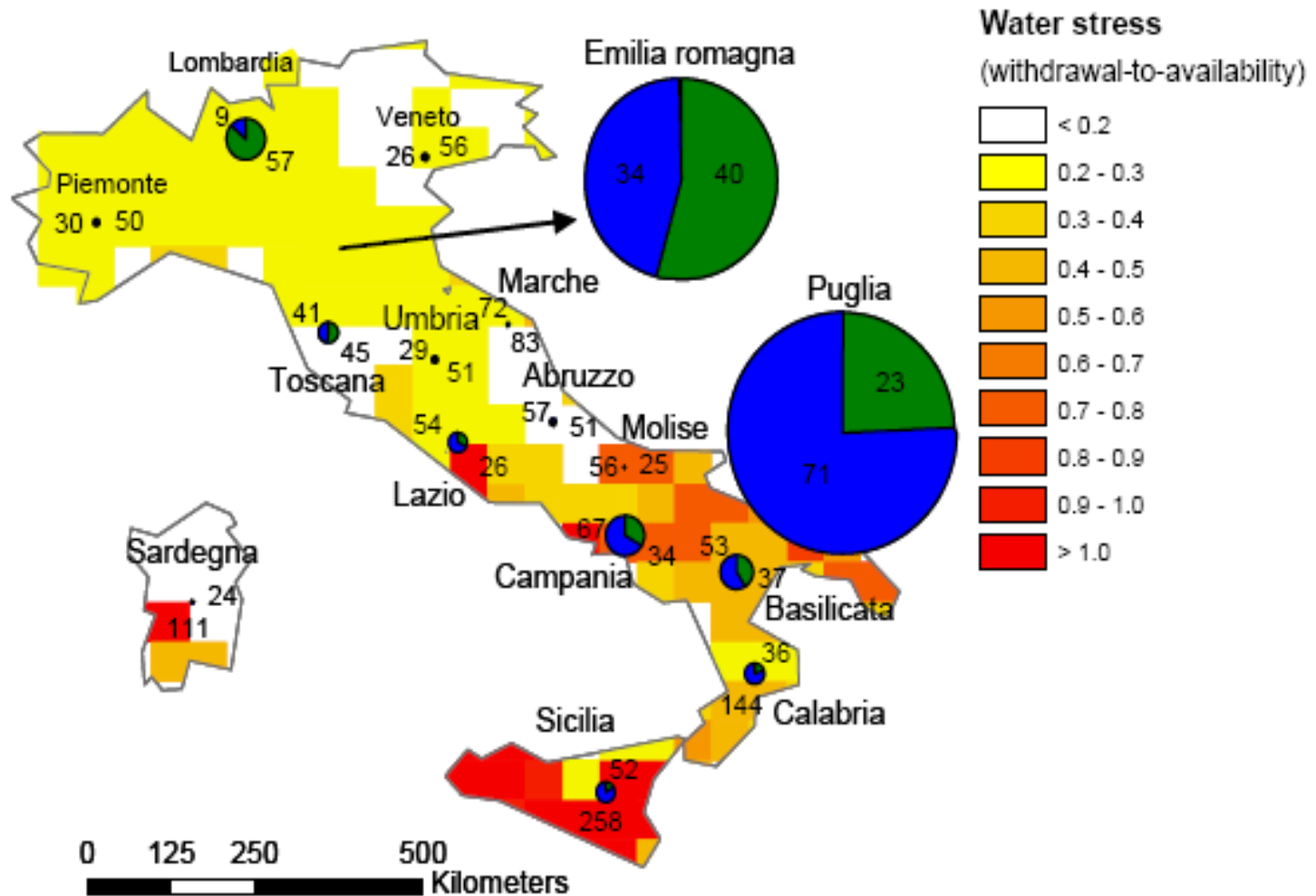
## Where do we draw the line?



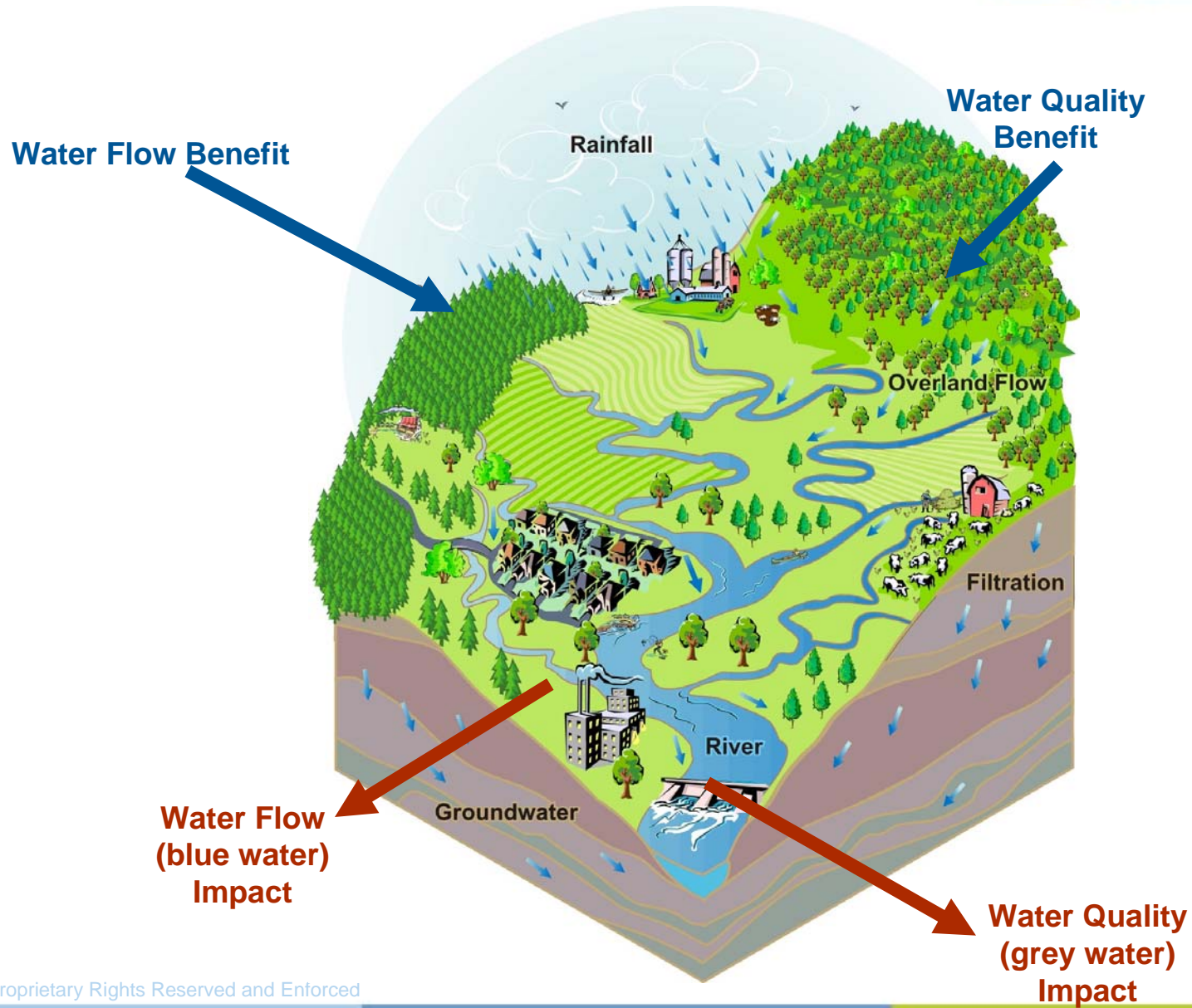
# Impacts at what scale?



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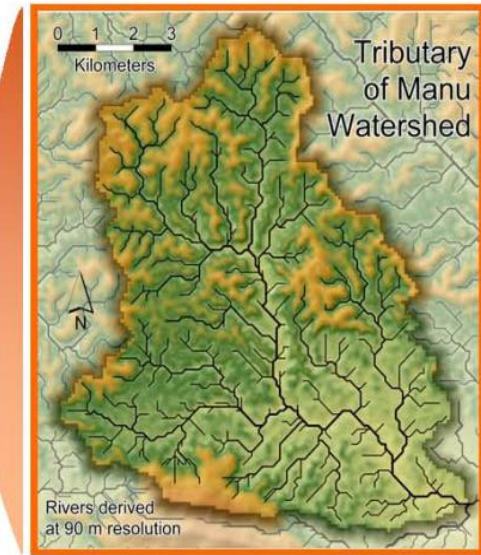
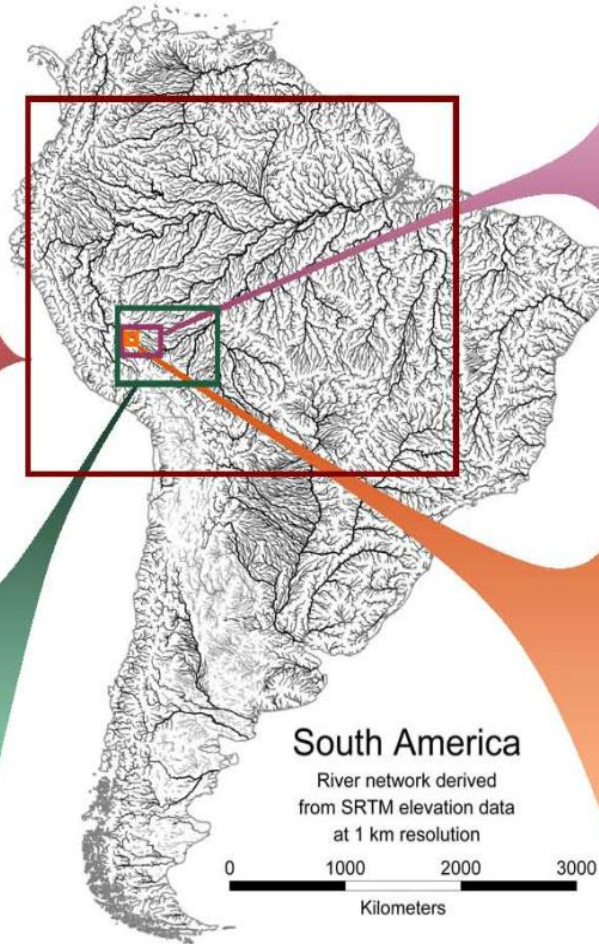


# Impacts at what scale?





# Impacts at what scale? DSS



## Keep in mind...

- ▶ Why are we doing this?
- ▶ What are we trying to mitigate against?
- ▶ What will be enough?
- ▶ Will knowledge of, and reduction of impacts protect reputations?
- ▶ Can an understanding of impacts present more meaningful response?

## Next steps

- ▶ Roundtables
- ▶ Principles and criteria
- ▶ Testing in the field

THANK YOU