

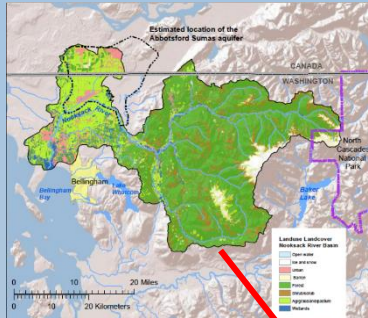
# Developing regional assessments of nitrogen management

Component-3

Component leaders (Masso, C.; Hooper, D.; Mekonnen, H.G.; Sutton, M.)

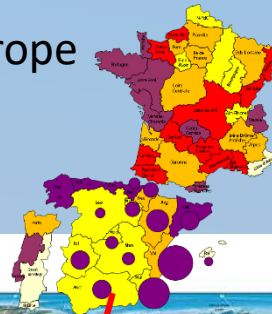
*INMS-5 Meeting*

# Demo regions



4. Nooksack watershed

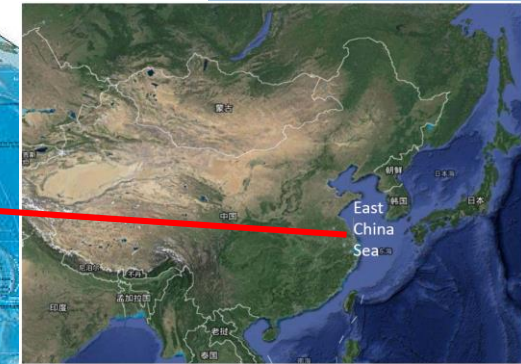
4. W. Europe



3. E. Europe –  
Dniester, Prut



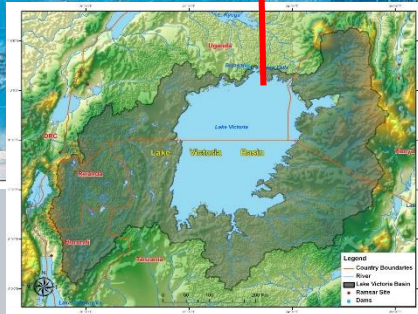
1. E. Asia/  
E. China Sea



1. S. Asia



2. Lake Victoria watershed



1. La Plata River



## Regional demo-leaders



# Demo regions – $N_r$ context



- Case 1: Developing areas, excess  $N_r$  (South Asia, East Asia, Latin America)
- Case 2: Developing areas with insufficient  $N_r$  (East Africa)
- Case 3: Regions with transition economies (East Europe)
- Case 4: Developed areas with excess  $N_r$  (West Europe, North America – using regional co-financing)

## Notes:

- Transboundary watersheds
- High variability within larger regions
- Meant to represent these cases, not entire continents
- Highly variable in scale – small watershed to subcontinent

# Key activities, outputs and interactions



Item	Activity	Output
3.1	Design common methodology & conduct regional demos to refine regional N <sub>r</sub> assessments and improve understanding of regional N cycle.	Refined approaches to regional assessments and improved understanding of regional N cycle
3.2	Organize workshops to synthesize outcomes from demonstration activities focusing on reducing N adverse impacts and maximizing co-benefits	Assessments and quantification of impacts from piloting activities to reducing negative impacts from poor N <sub>r</sub> management, while demonstrating co-benefits for other issues
3.3	Build consensus on benchmarking N indicators for different regions and systems	Refined benchmarking of indicators for different regions and nutrient flow systems
3.4	Refine regional approach to demonstrating benefits of jointed up N management	Plans for inclusion of agreed approach to N cycle assessments accepted, by GPA and others

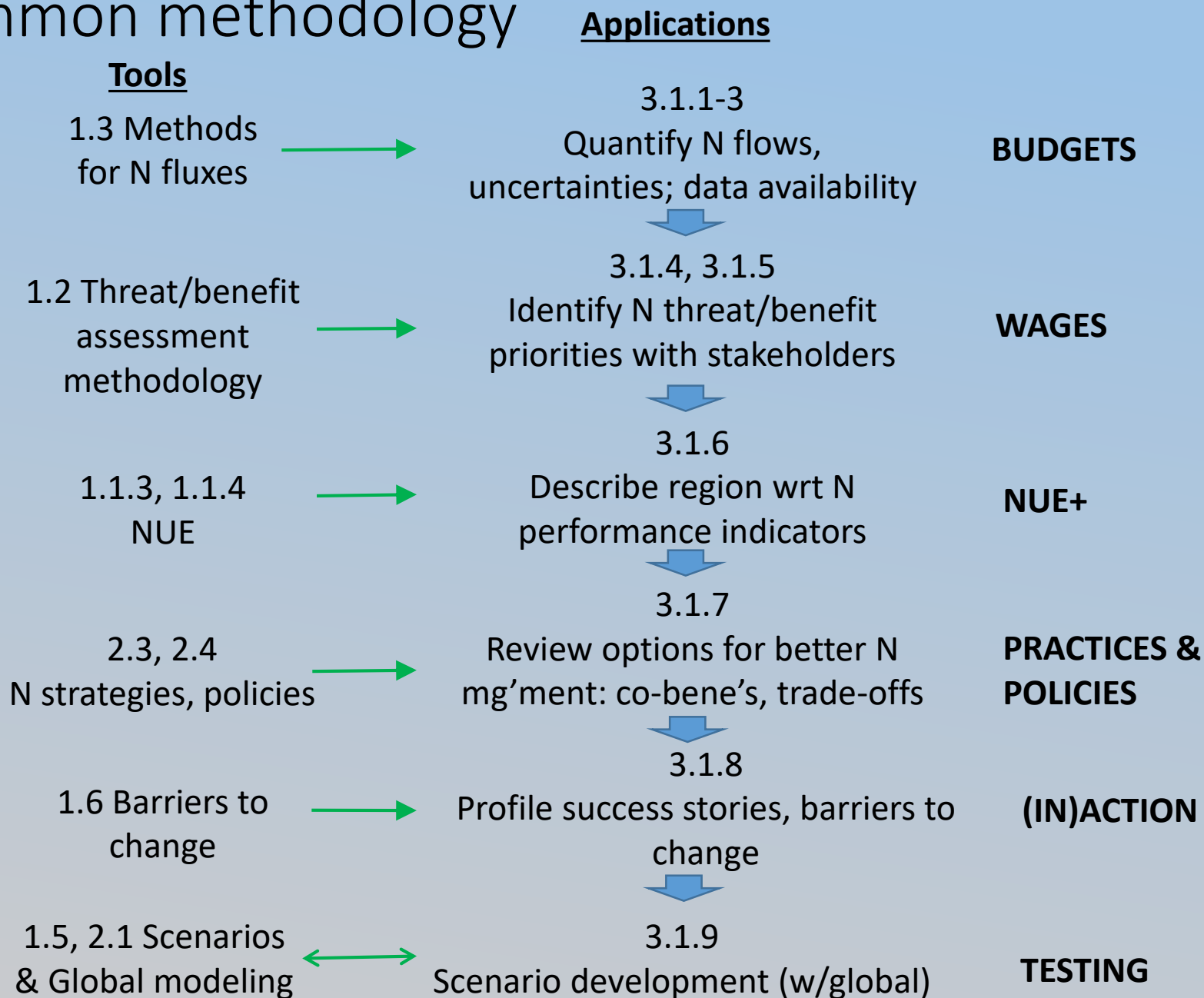
Reg. assess.

Cross-demo comp.

A1.1 - Indicators

Ind. lists

# Common methodology



## 3.2 Recent Workshops

- Madrid, Nov. 2019
  - NUE with 1.1.3



- ~Monthly C3 remote meetings since March
  - Common Methodology – Budget components, WAGES
  - INA chapter outlines
  - Regional updates
  - Upcoming – Indicators?

# **From engaging stakeholders To INA**





# INA: Outline of the reg. demo- chapters

1. Introduction & Context of the Region
2. Analysis of Nitrogen Sources
3. Analysis of Nitrogen Budget
4. Analysis of Key Nitrogen Threats
5. Description of Region in Relation to Agreed Performance Indicators
6. Options for Better Nitrogen Management
7. Progress in Implementing Sustainable Nitrogen Management
8. Regional Future Look (linkage to INMS scenarios)
9. References

# Planned chapters

1. Approach, Synthesis and Lessons from the Regional Nitrogen Assessments

## **Assessment of nitrogen flows, impacts and solutions in:**

2. East Asia (Case study: East China Sea)
3. South Asia (Case study: Eight Countries)
4. Africa (Case study: Lake Victoria Catchment)
5. Latin America (Case study: La Plata region)
6. West Europe (Case study: Portugal, Spain, France)
7. East Europe (Case study: The Dniester, Prut, and lower Danube)
8. North America (Case study: South-West Canada & North-West USA)

Thank you for the attention

*INMS-5 meeting*