



MAPPING WATER 2014

By Zoï Environment Network





FOREWORD

- Peace Building
- Design by committee

0. INTRODUCTION

- How to start

1. COMPLEX INFOGRAPHICS & MAPPING CONCEPTS

- visualizing support to SDC's processes

2. COMMUNICATING WATERSHEDS

- innovative mapping support to the regional projects

3. PARTICIPATORY MAPPING

- support to processes 'on the ground'

4. FACILITATION & MAPPING MEETINGS

- support to peer review

5. TRAINING BASIC CONCEPTS & REGIONAL FACILITATORS

- support to SDC and the field



FOREWORD

→ Peace Building

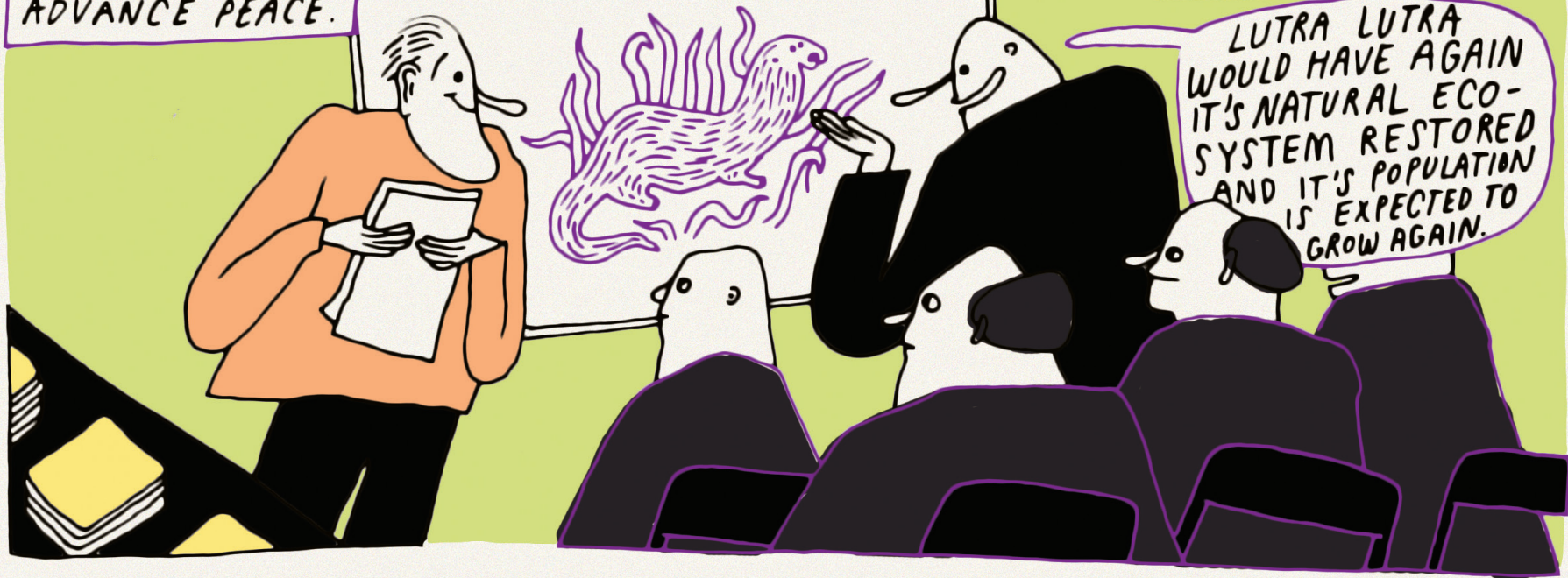
→ Design by Committee

PEACE BUILDING

TEXT & IDEA: OTTO SIMONETT DRAWING: MARIA LIBERT



FOIS BELIEVE THAT JOINT APPROACH TO ENVIRONMENTAL PROBLEMS WILL ADVANCE PEACE.

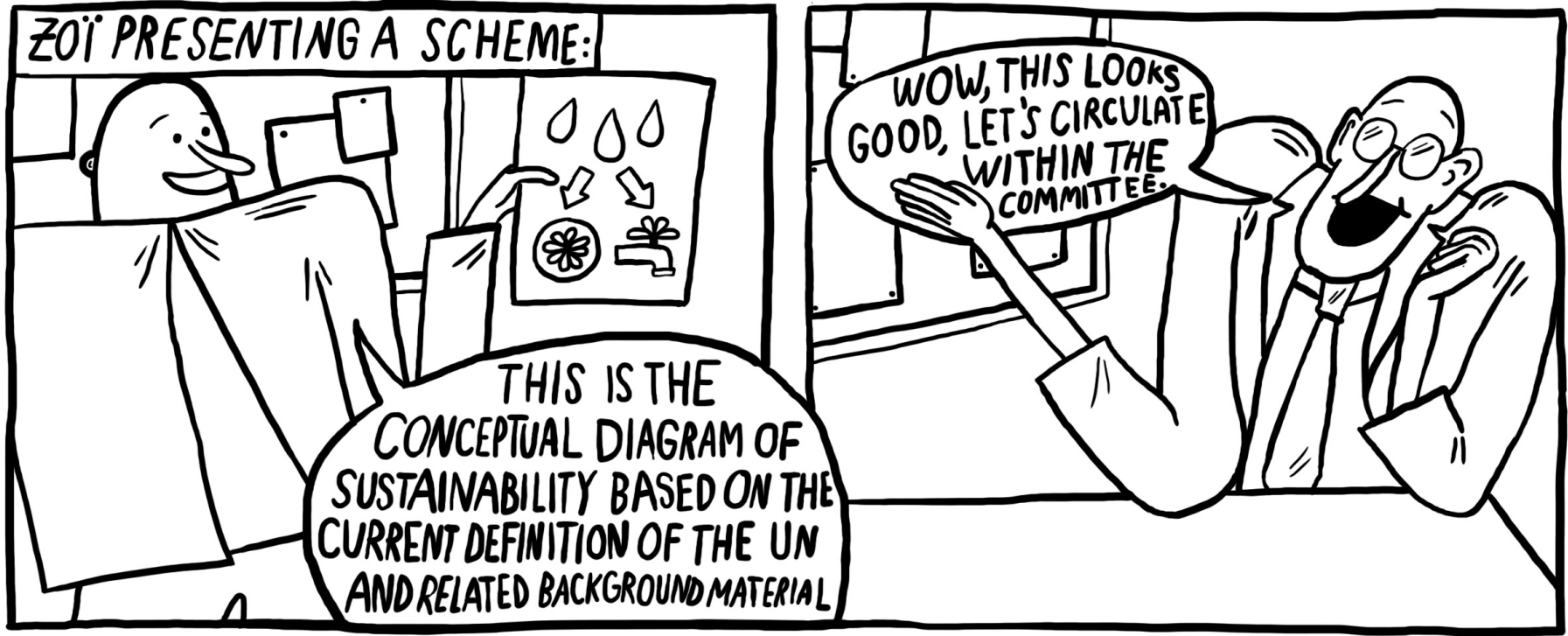
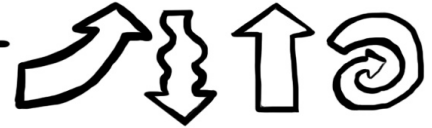


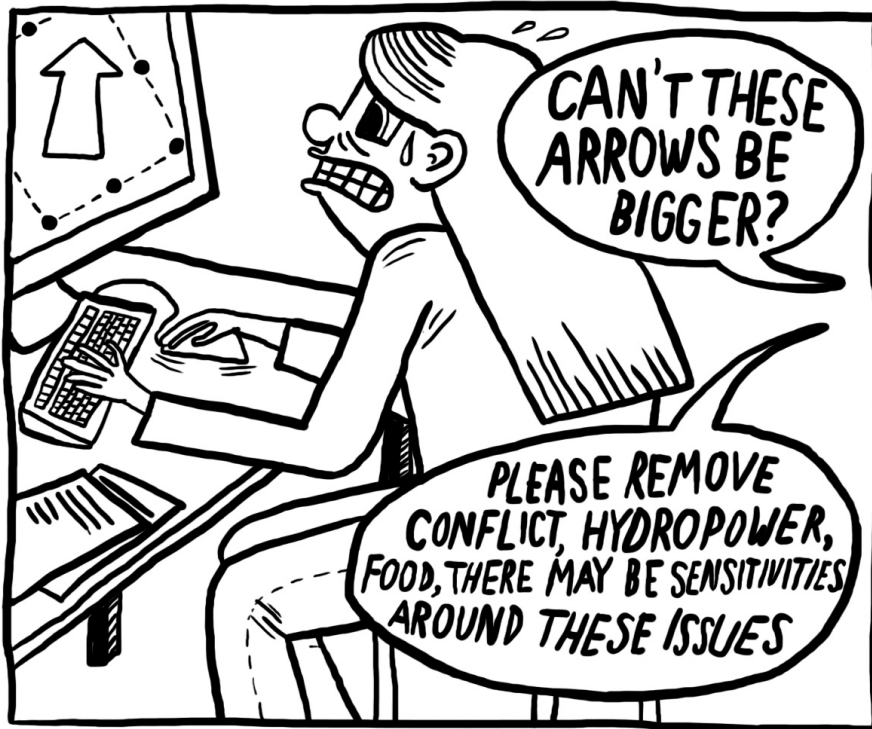
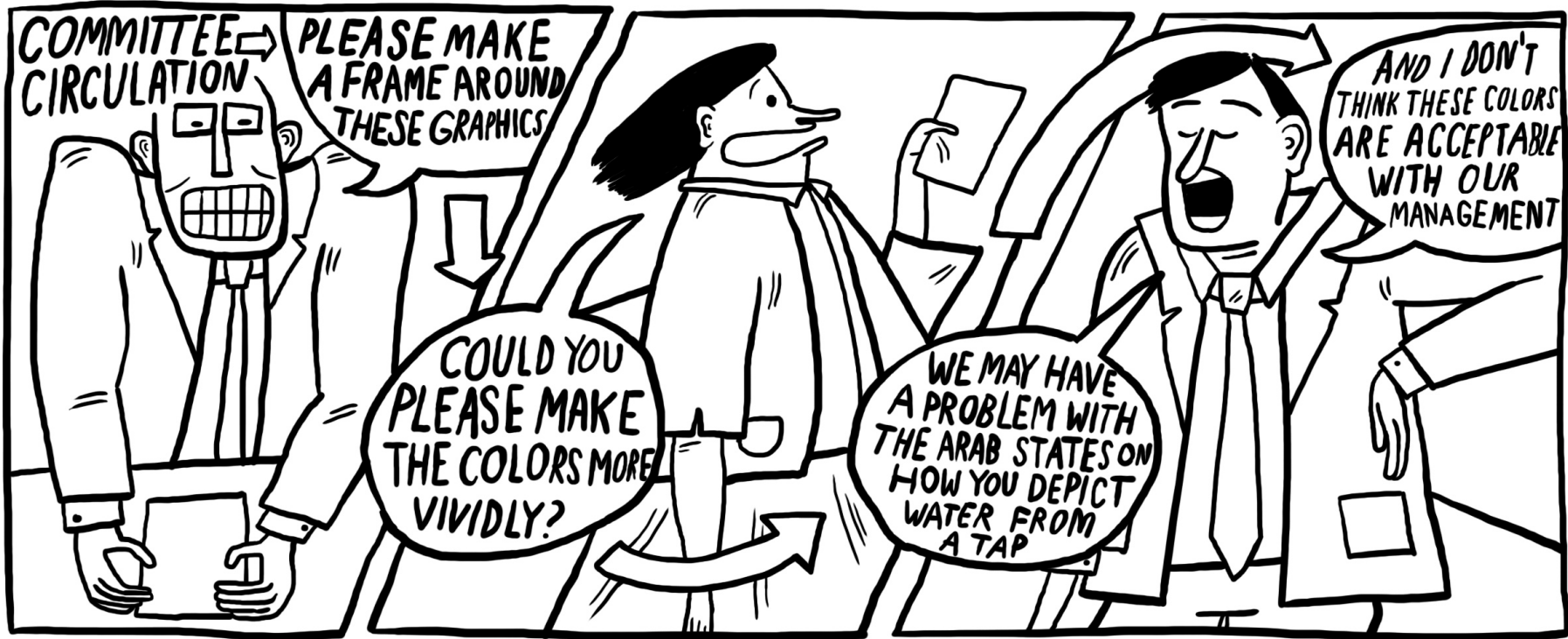
LUTRA LUTRA
WOULD HAVE AGAIN
IT'S NATURAL ECO-
SYSTEM RESTORED
AND IT'S POPULATION
IS EXPECTED TO
GROW AGAIN.



DESIGN *by* COMMITTEE

TEXT & IDEA: OTTO SIMONETT DRAWING: MARIA LIBERT







0. INTRODUCTION

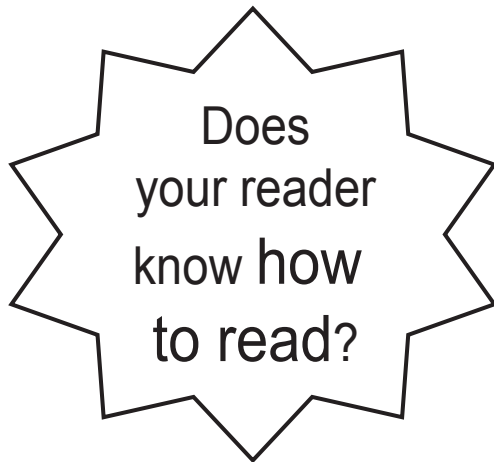
→ How to start

→ Who is your reader?

STUDENTS

RESEARCHERS

POLITICIANS



JOURNALISTS

COMMUNICATORS

OTHERS:

FINANCERS

CITIZENS

ACTIVISTS

KIDS

THE WEB
COMMUNITY

“DIGITAL
NATIVES”

ECONOMISTS

BUREAUCRATS

CEOs

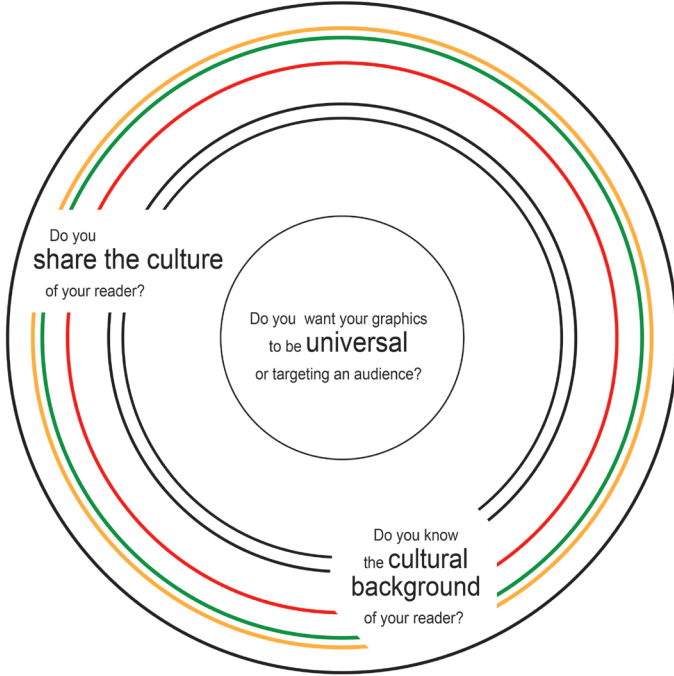
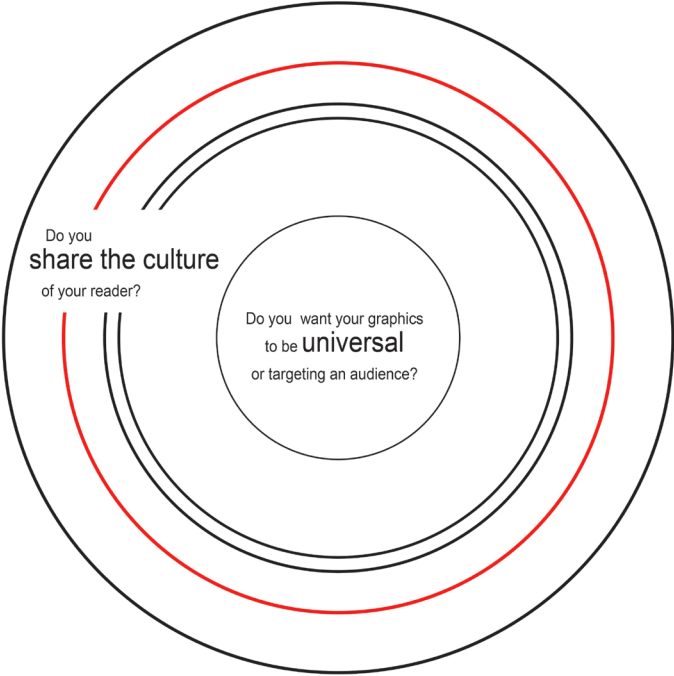
FARMERS

MANUFACTURERS

YOUR
CLIENTS

YOUR
FRIENDS





→ What is your goal?

EXPLAIN
POPULARIZE / SIMPLIFY

CATCH THE ATTENTION
MAKE KNOWN

CONVINCE / ENLIST
[FIND MONEY]

CHALLENGE
THE SYSTEM

MAKE [VISUAL]
HISTORY

OTHERS:

WHAT IS YOUR GOAL?



VISUAL OPTIONS

- EXPLAIN
- POPULARIZE / SIMPLIFY
- CATCH THE ATTENTION
- MAKE KNOWN
- CONVINCE / ENLIST
- [FIND MONEY]
- CHALLENGE THE SYSTEM
- MAKE [VISUAL] HISTORY
- OTHERS:

- COMPREHENSIVE / SERIOUS
- SCIENTIFIC-LOOKING
- CRYSTAL CLEAR
- STRIKING / NEW
- HAND-DRAWN / ARTY
- FUNNY
- INTERACTIVE GRAPHICS
- MOTION GRAPHICS / VIDEOS
- MESSY
- SIMPLE
- CRYPTIC
- BEAUTIFUL
- PUNK
- CHEESY

SMALL vs. LARGE



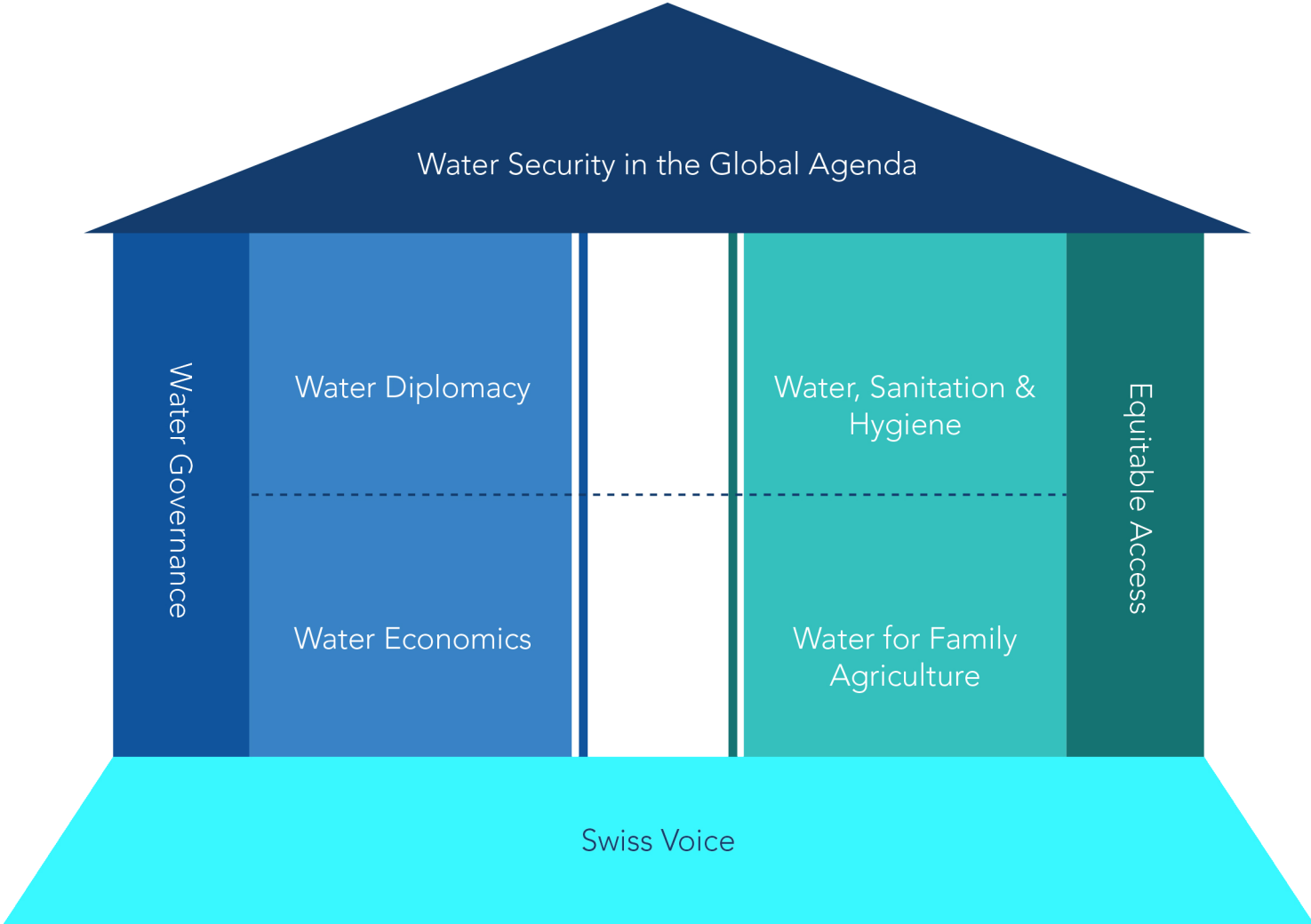
OTHERS:
.....



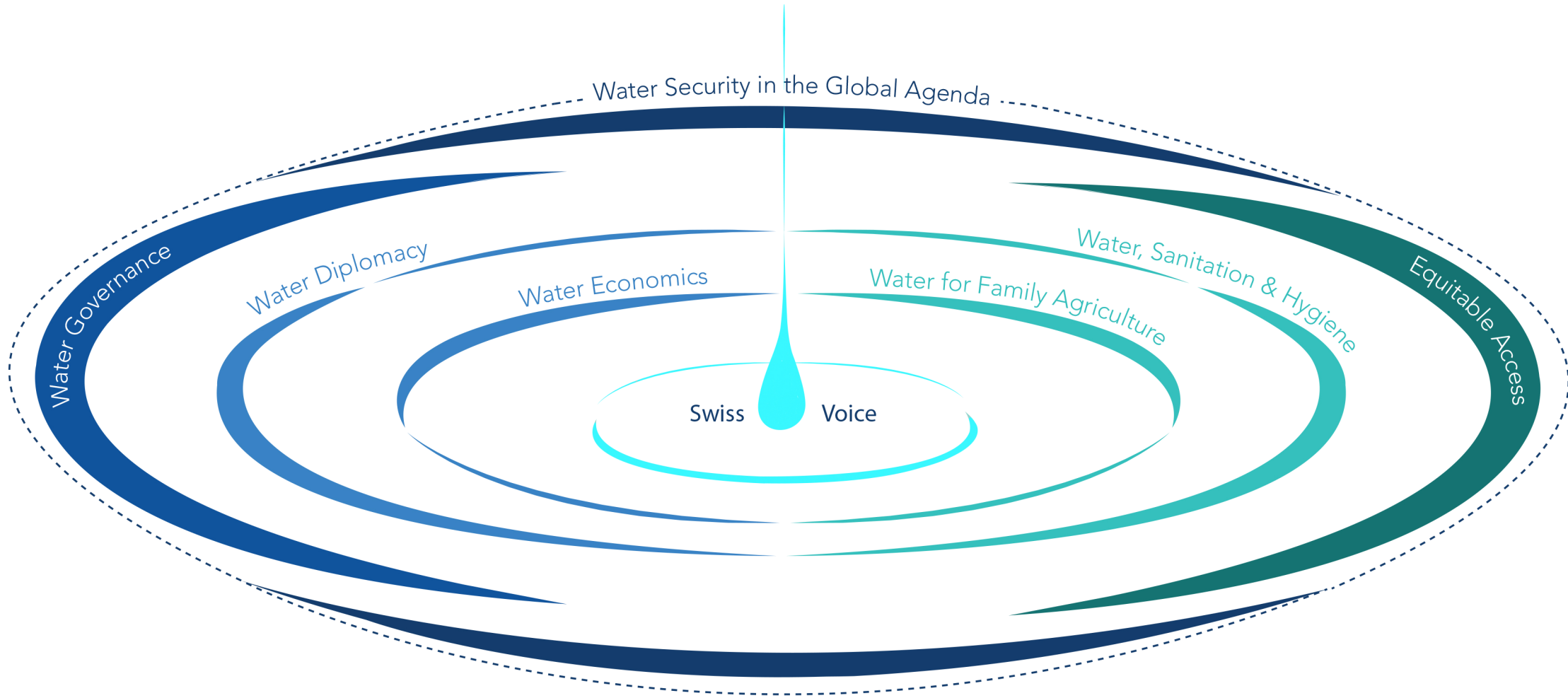
1. COMPLEX INFOGRAPHICS & MAPPING CONCEPTS

→ visualizing support to SDC's processes

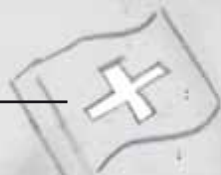
WATER INITIATIVES STRATEGIC FRAMEWORK



WATER INITIATIVES STRATEGIC FRAMEWORK

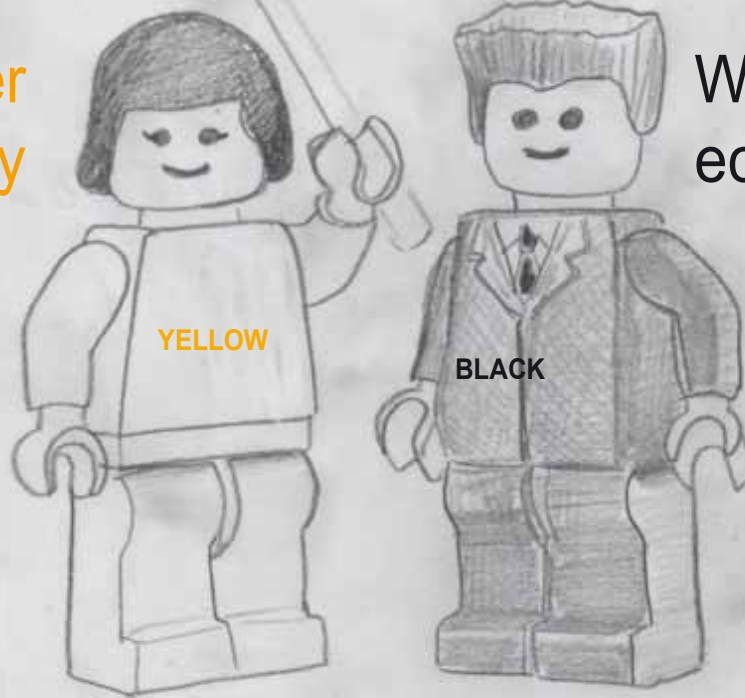


Swiss voice



Water
diplomacy

Water
economics



BLUE

[WEARING
BLUE DUNGAREES]

ADD
WATER PIPES
IN HER HANDS

Water
sanitation
and hygiene

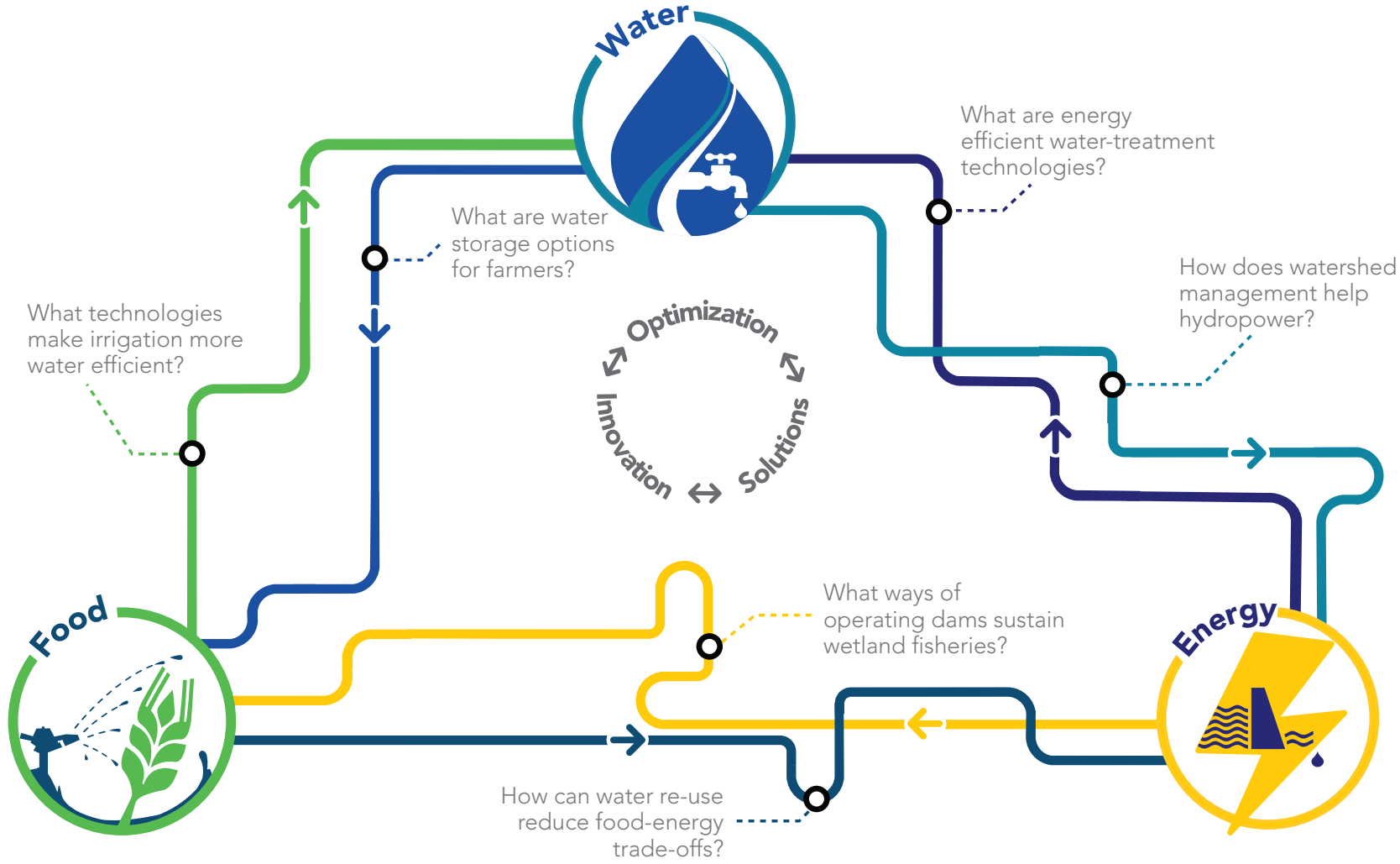
ADD A
PITCHFORK

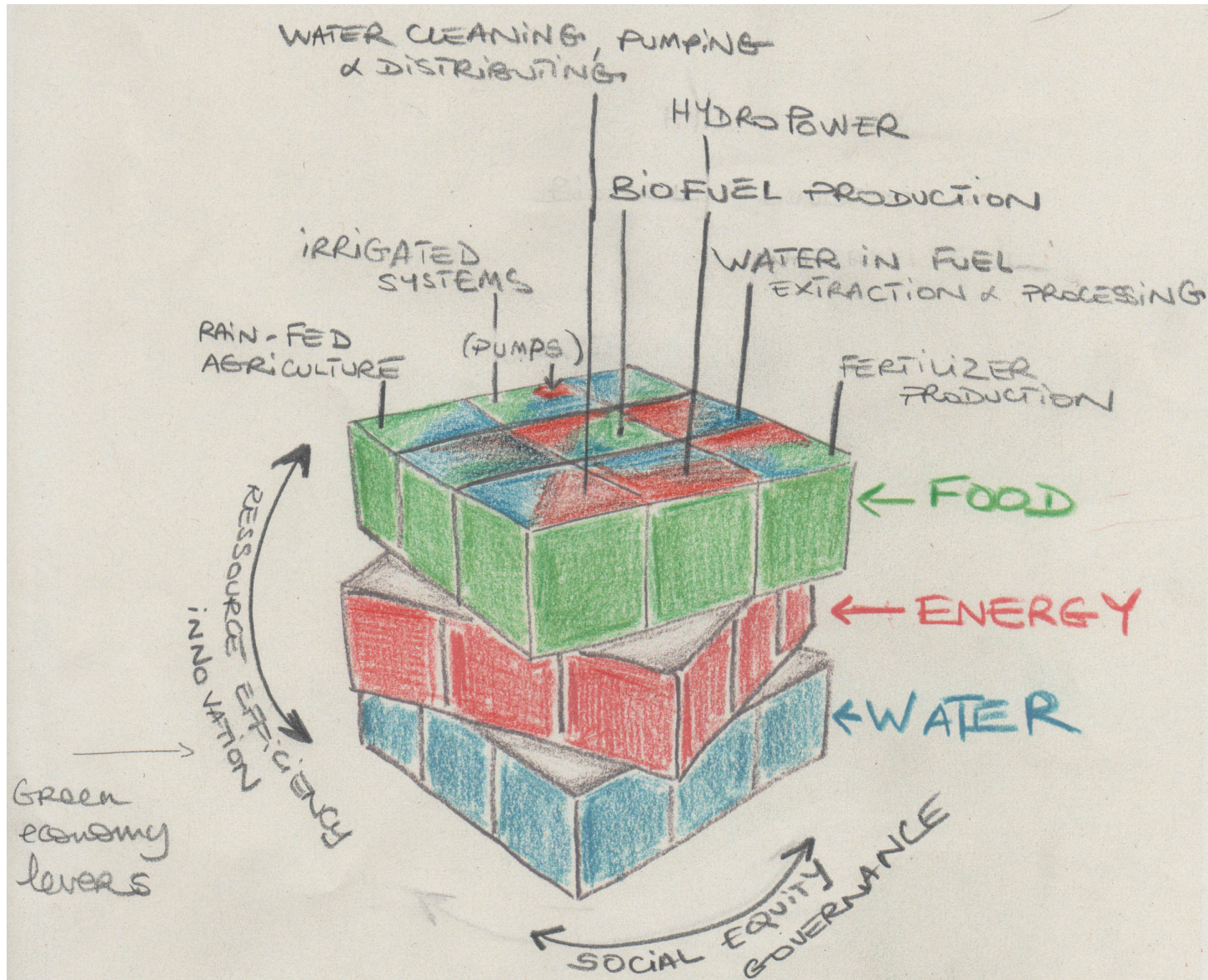
GREEN

Water for
family agriculture

WATER STRATEGIC FRAMEWORK

Interactions between water, energy and food

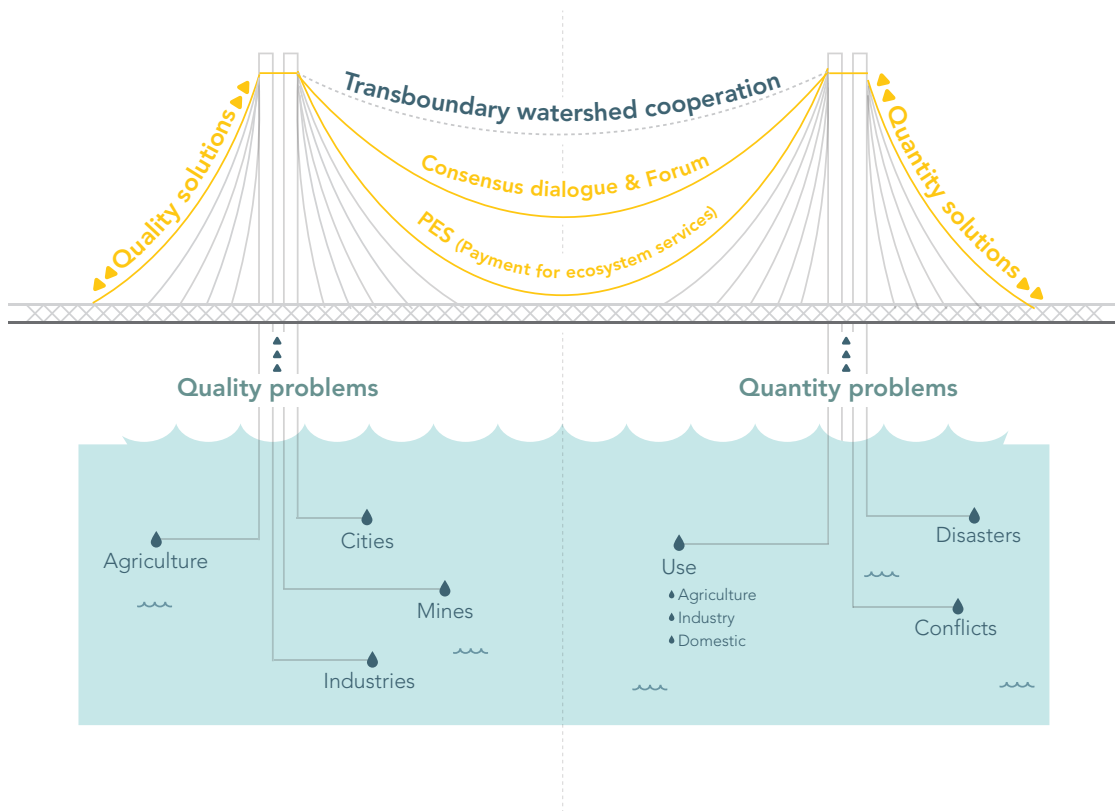




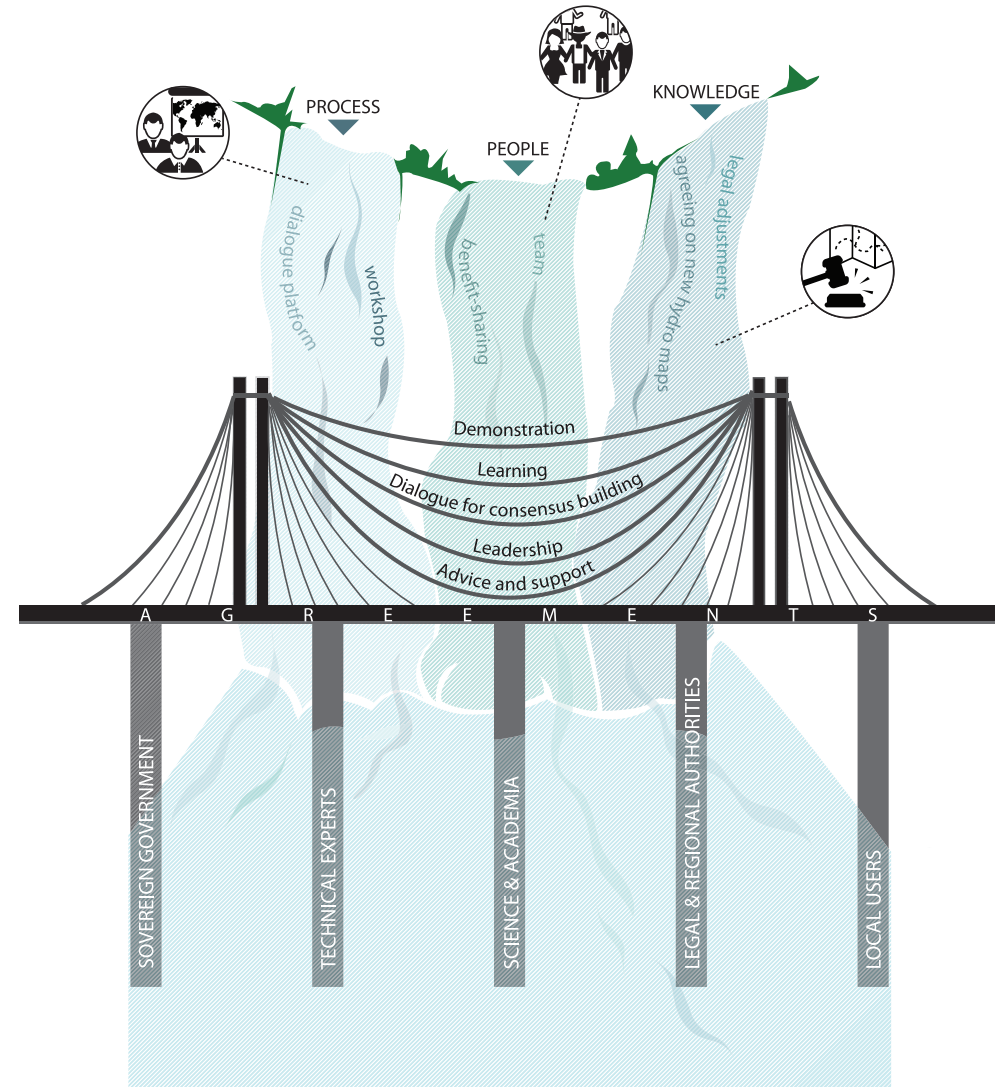
WATER - ENERGY - FOOD INTERACTIONS

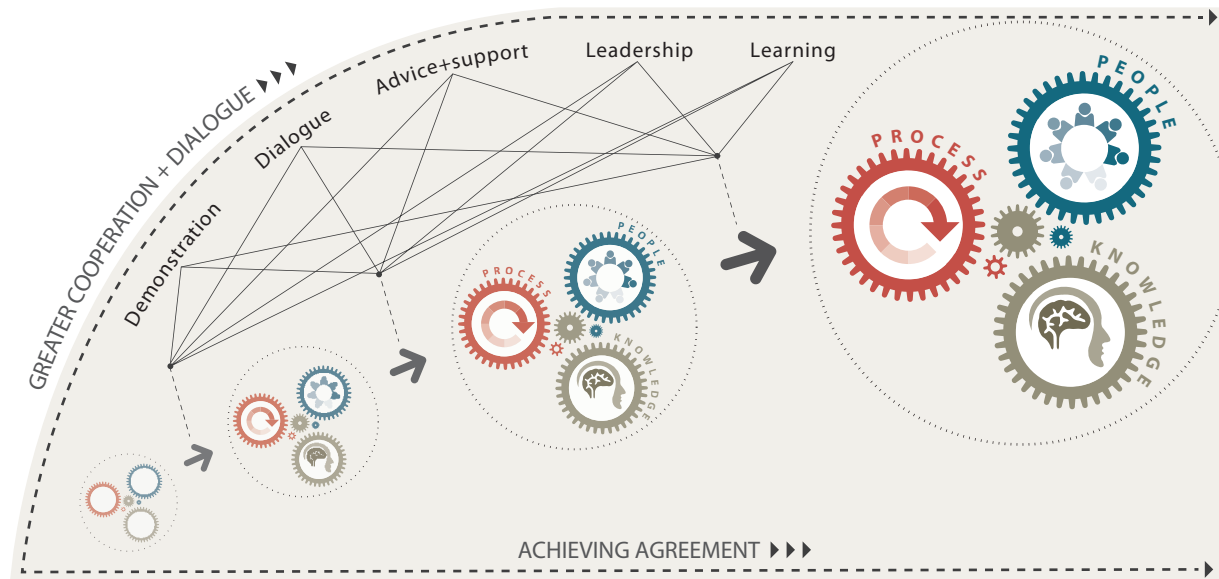
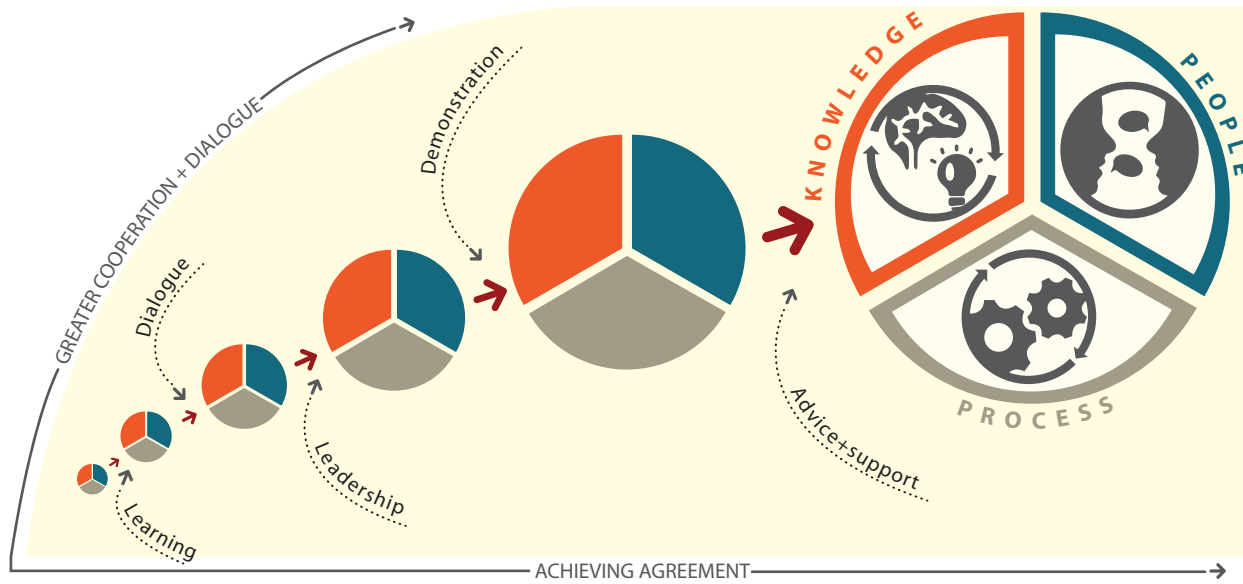
Background (3 other focus): Climate Change
 Globalization
 Land competition

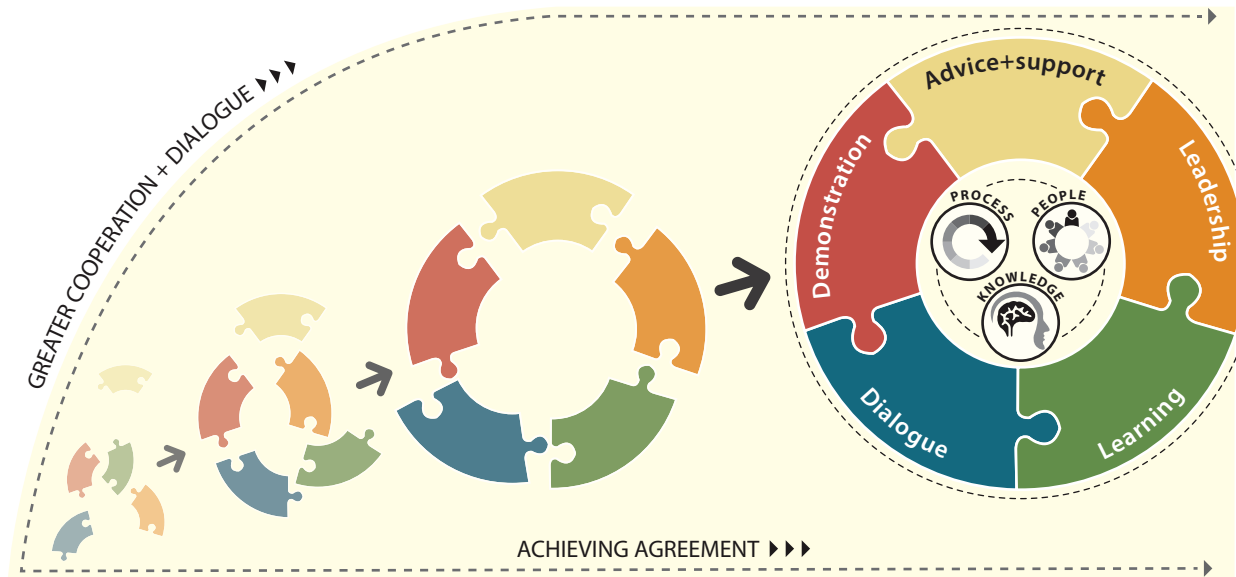
WATER COOPERATION



BUILDING RIVER DIALOGUE AND GOVERNANCE

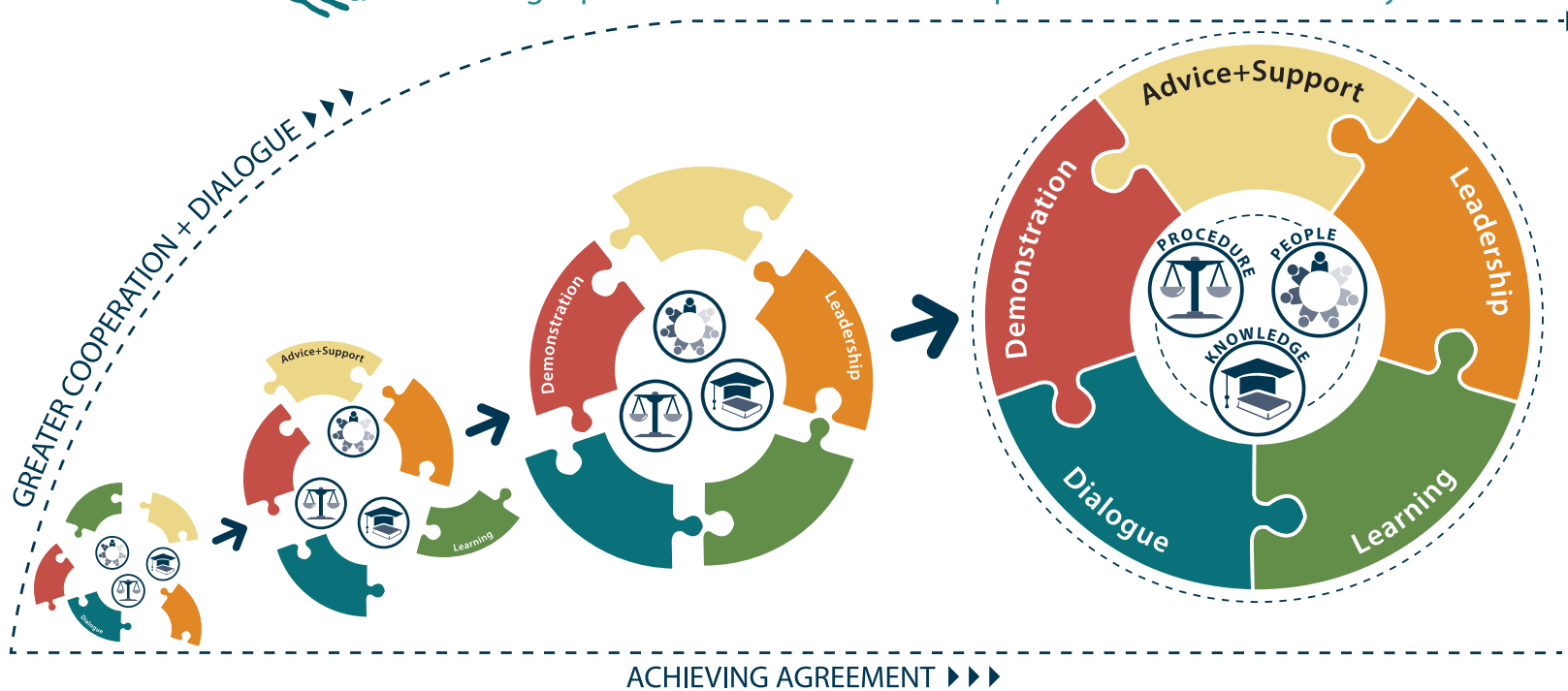




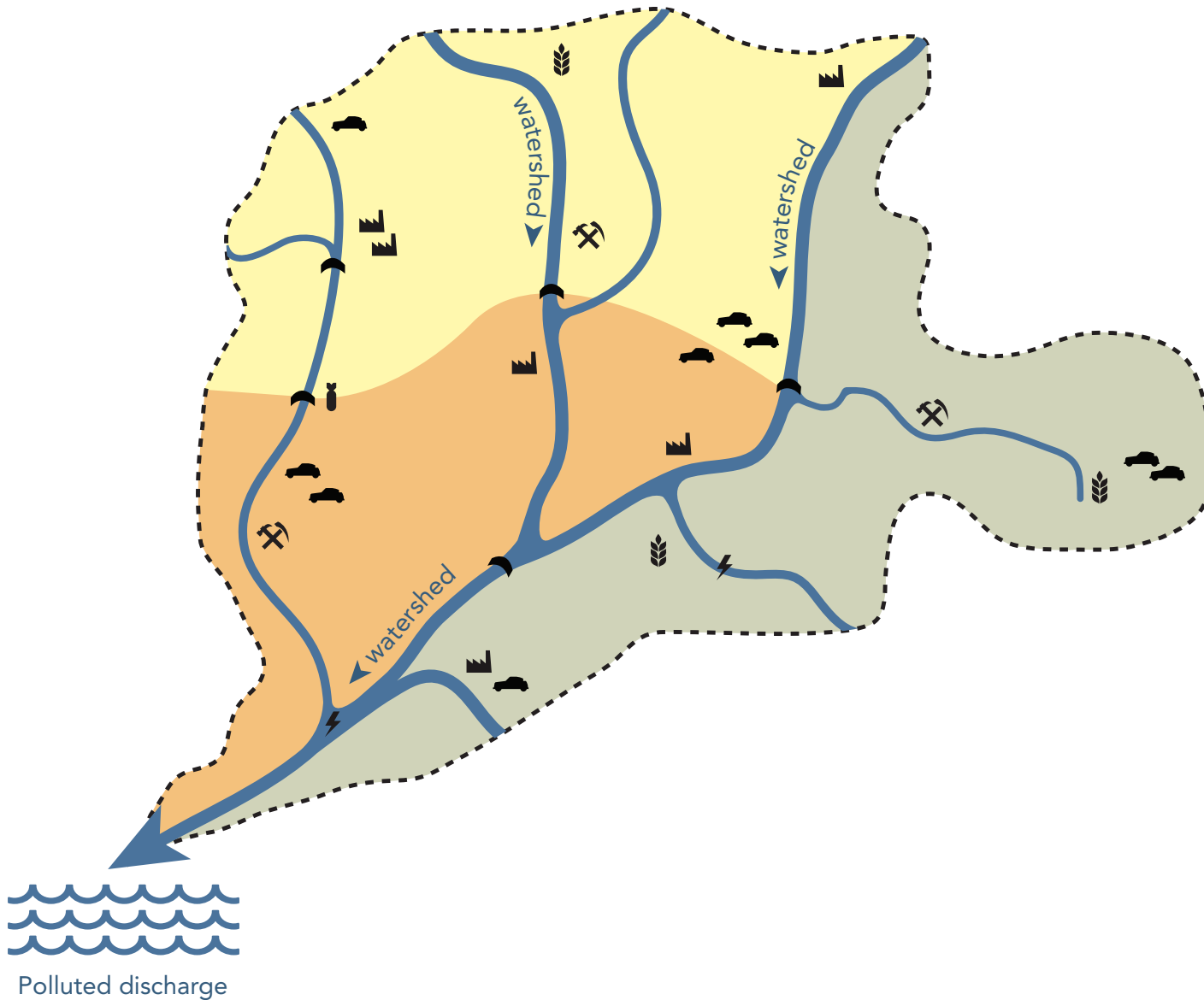


BRIDGE - BUILDING RIVER DIALOGUE AND GOVERNANCE

Strategic process towards water cooperation in transboundary basins



TRANSBOUNDARY WATERSHEDS COOPERATION



ORANGE YELLOW GREEN RIPARIAN COUNTRIES

PROBLEMS

WATER QUALITY

- URBAN AREA
- MINE
- INDUSTRY
- AGRICULTURE

WATER QUANTITY

- DAM + FLOOD CONTROL
SEASONAL WATER SCARCITY DOWNSTREAM
- WATER USE
 - AGRICULTURE
 - INDUSTRY
 - DOMESTIC
- CATASTROPHE
- CONFLICT

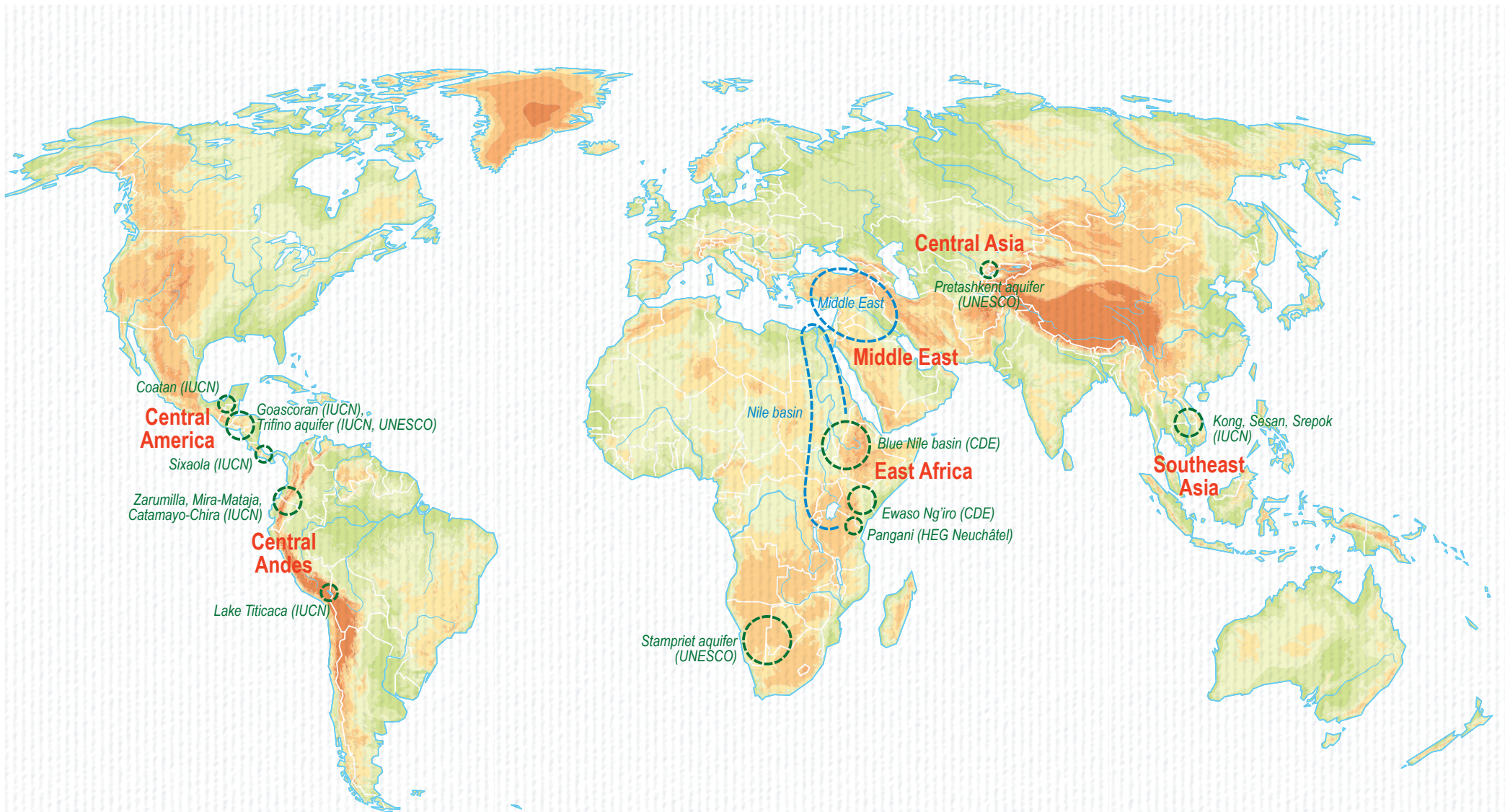
SOLUTIONS

- CONSENSUS / DIALOGUE / FORUM
- LEGAL FRAMEWORK
- PEC (PAYMENTS FOR ECOSYSTEM SERVICES)





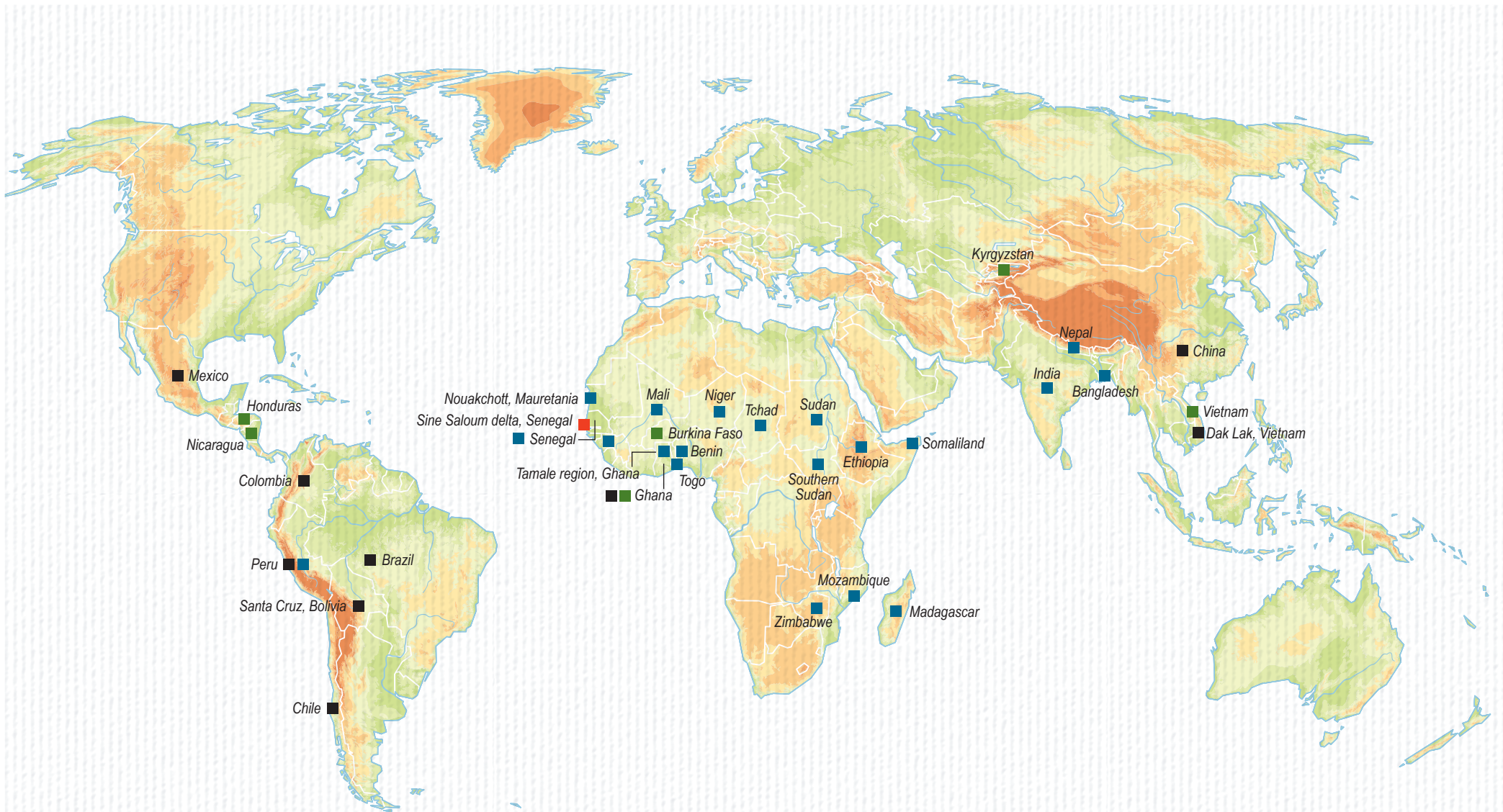
2. MAPPING WATERSHEDS

→ innovative mapping support to
the regional projects



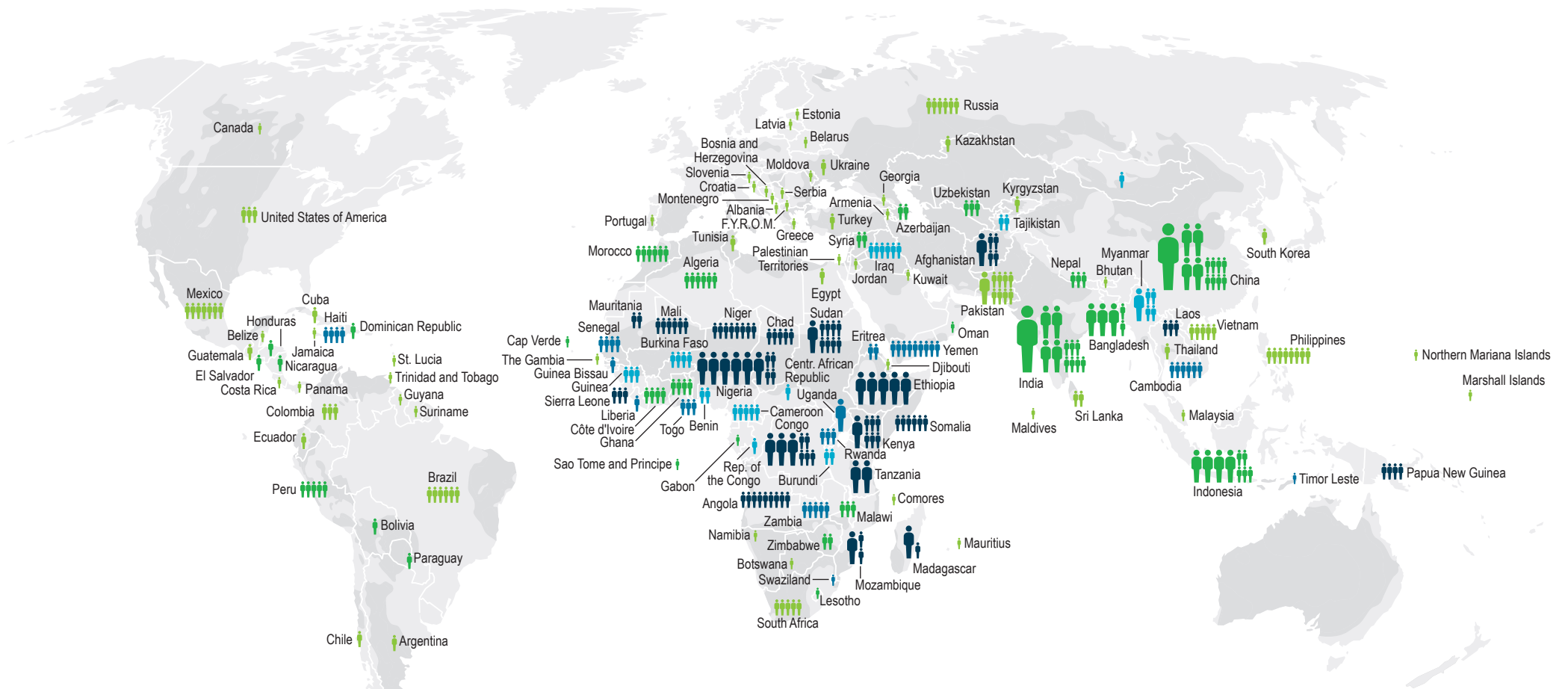
Water diplomacy / Blue Peace

- Central Andes** Swiss water diplomacy focus area
-  SDC/GPWI's water diplomacy pilot basins & aquifers (SDC project partners)
-  Blue Peace Initiatives (Hydrodiplomacy & Strategic projects in the field)



Selected SDC ground activities

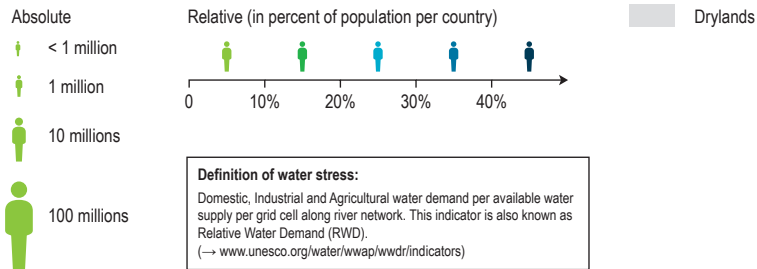
- Water economics
- WASH
- Water for Family Agriculture
- Swiss Voice



Water

Number of people without access to improved drinking water

Note: data not available for every country



Map produced by ZOI Environment Network, March 2013 / August 2010

Source: WHO / UNICEF - Joint Monitoring Programme for Water Supply and Sanitation (JMP) (→ www.wssinfo.org);

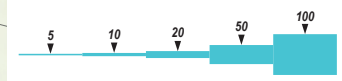
UNESCO - World Water Development Report Indicators, water stress index (→ www.unesco.org/water/wwap/wwdr/indicators)

Water resources of the Aral Sea basin



Map produced by ZOÏ Environment Network, November 2010
 Source: CA Water Info (→ www.cawater-info.net)

Discharge scheme in the Nile basin



Source: FAO Nile Synthesis Report 2011; Hydrology of the Nile 1999 by Sutcliffe and Parks; IDRC Research



Map produced by ZOI Environment Network, April 2013



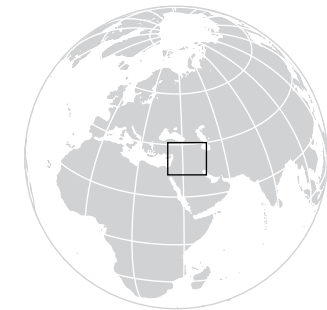
BLUE PEACE MIDDLE EAST

Hydrodiplomacy

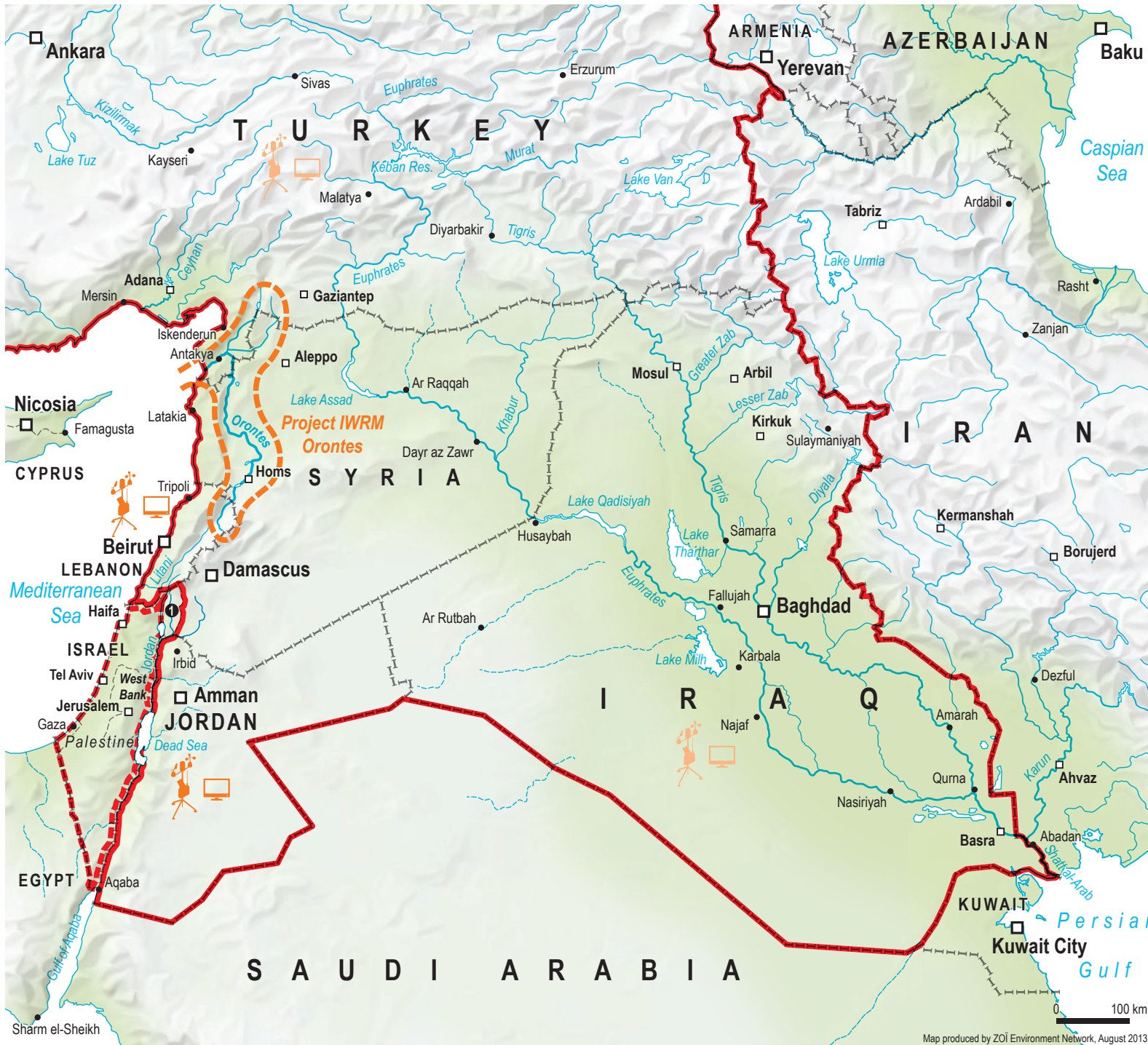
- Focus area 1: Jordan, Iraq, Syria, Lebanon, Turkey
- - - Focus area 2: Palestine, Israel (no activities at the moment)

Strategic projects in the field

-  Project IWRM Orontes: Lebanon, Syria, Turkey
Partners: IHEID, Lebanese Agricultural Research Institute, Litani River Authority, Turkish Water Institute (in 2nd phase)
-  Project Hydromet: Jordan, Lebanon, with involvement of Turkey, Iraq and other countries and regional organizations to be determined in 2nd phase
Partners: WMO, National Hydro-Meteorological Services

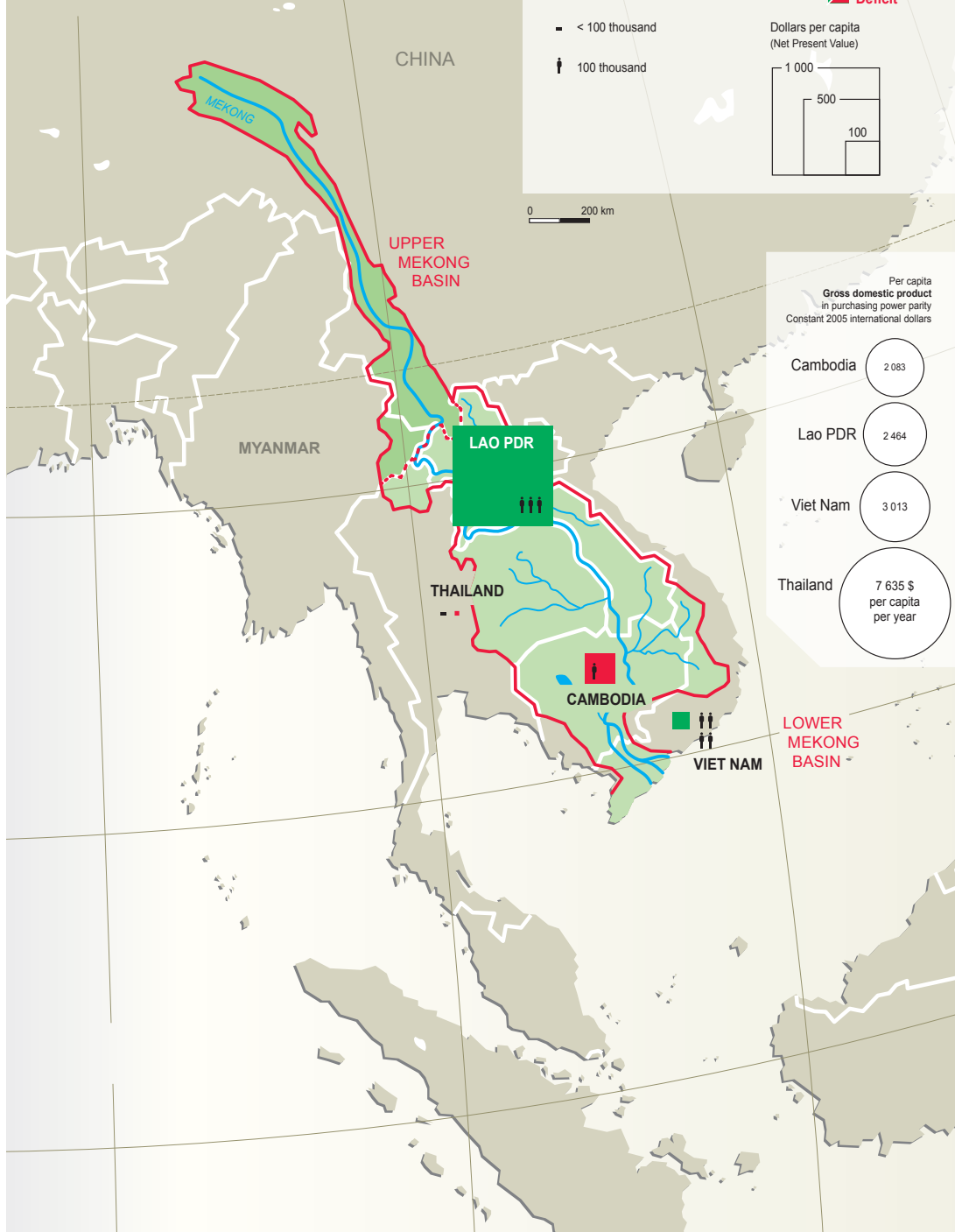
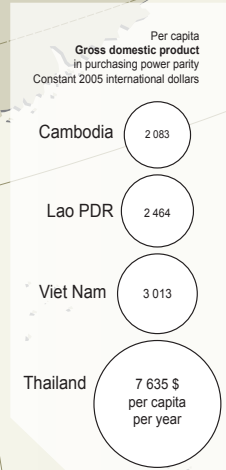
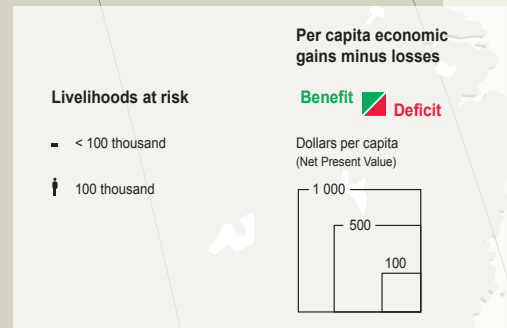


- 1** Golan heights: occupied by Israel since 1967 and annexed 1981; claimed by Syria

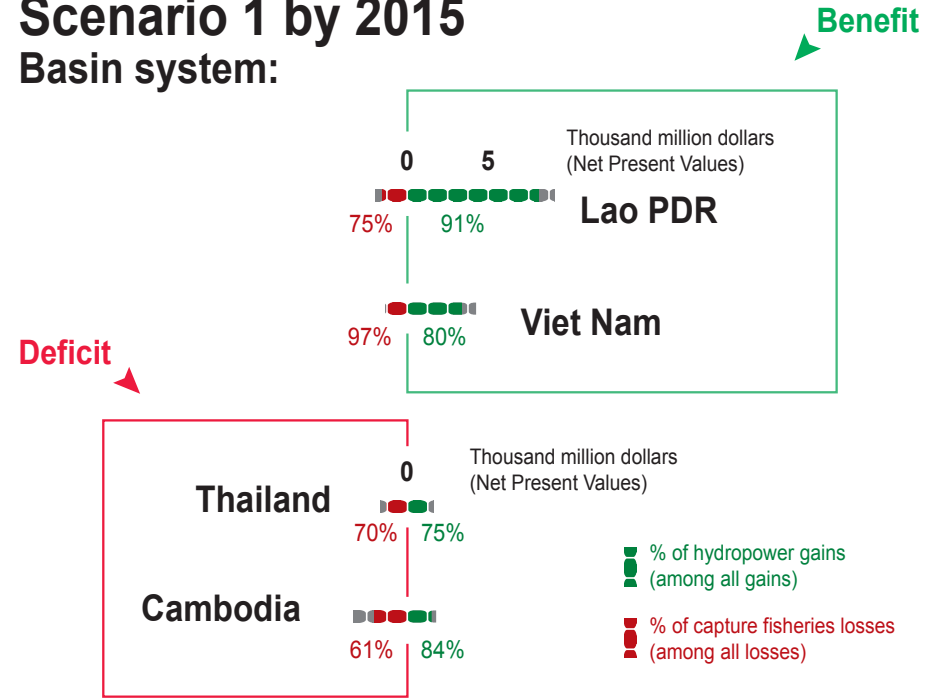


Scenario 1 by 2015

Sources: Mekong River Commission, 2011; United States Agency for International Development (USAID), 2012; World Bank database, 2011.

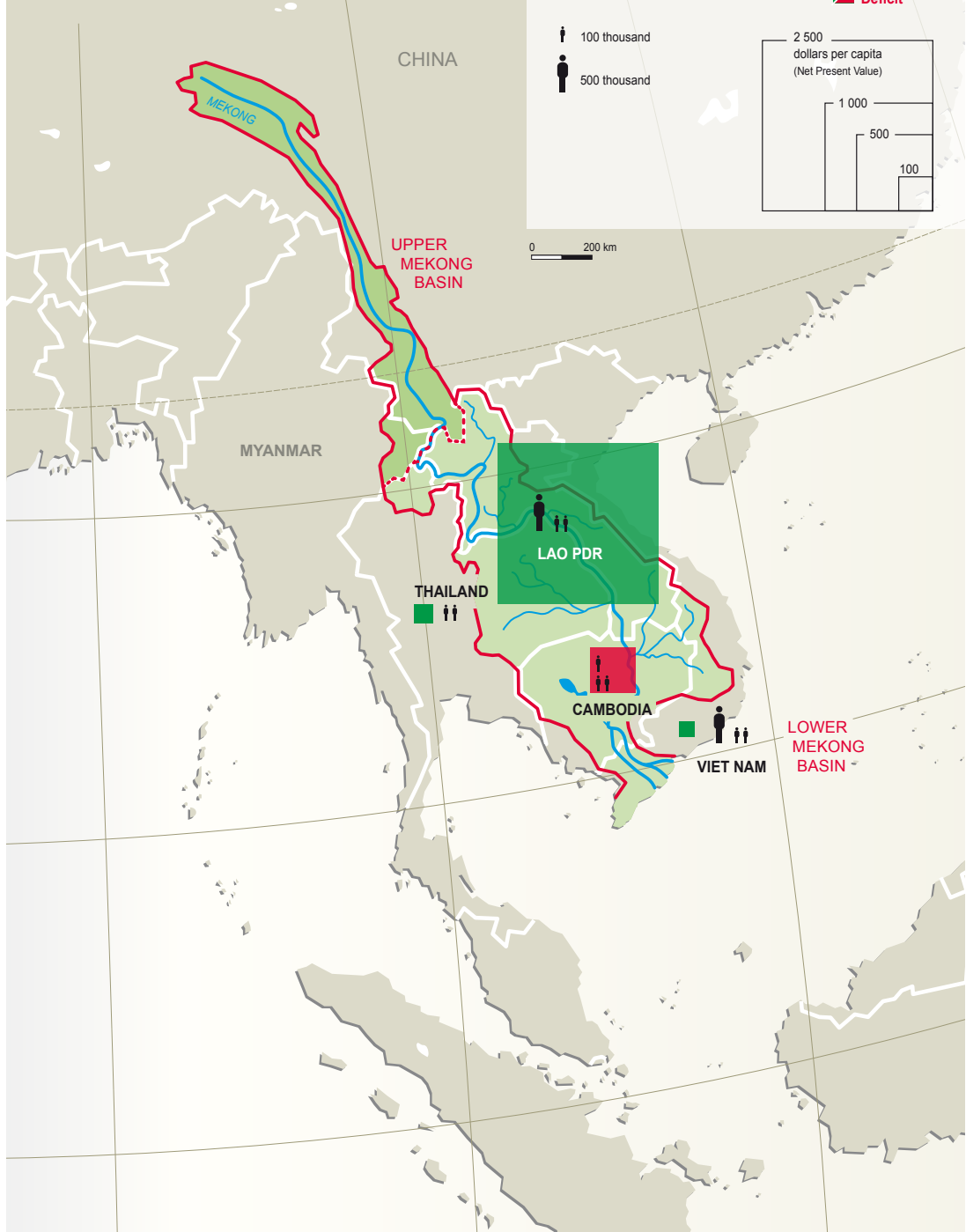
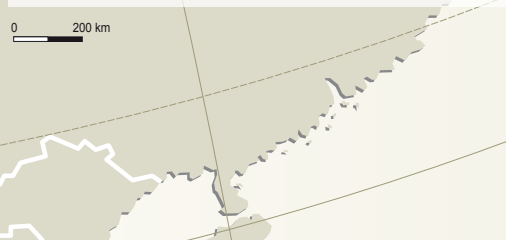
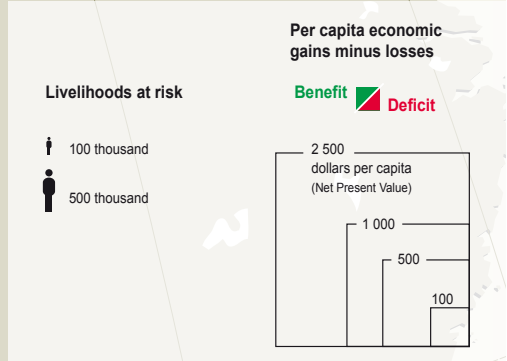


Scenario 1 by 2015 Basin system:



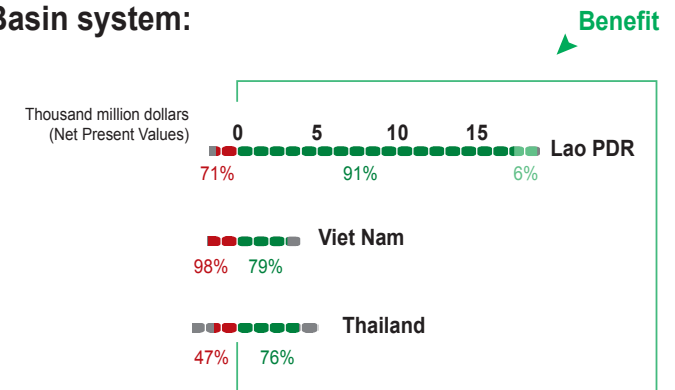
Scenario 2 by 2030

Sources: Mekong River Commission, 2011; United States Agency for International Development (USAID), 2012; World Bank database, 2011.



Scenario 2 by 2030

Basin system:

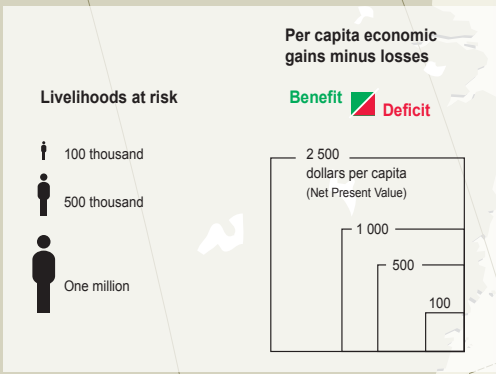


- % of reservoir fisheries gains (among all gains)
- % of hydropower gains (among all gains)
- % of capture fisheries losses (among all losses)

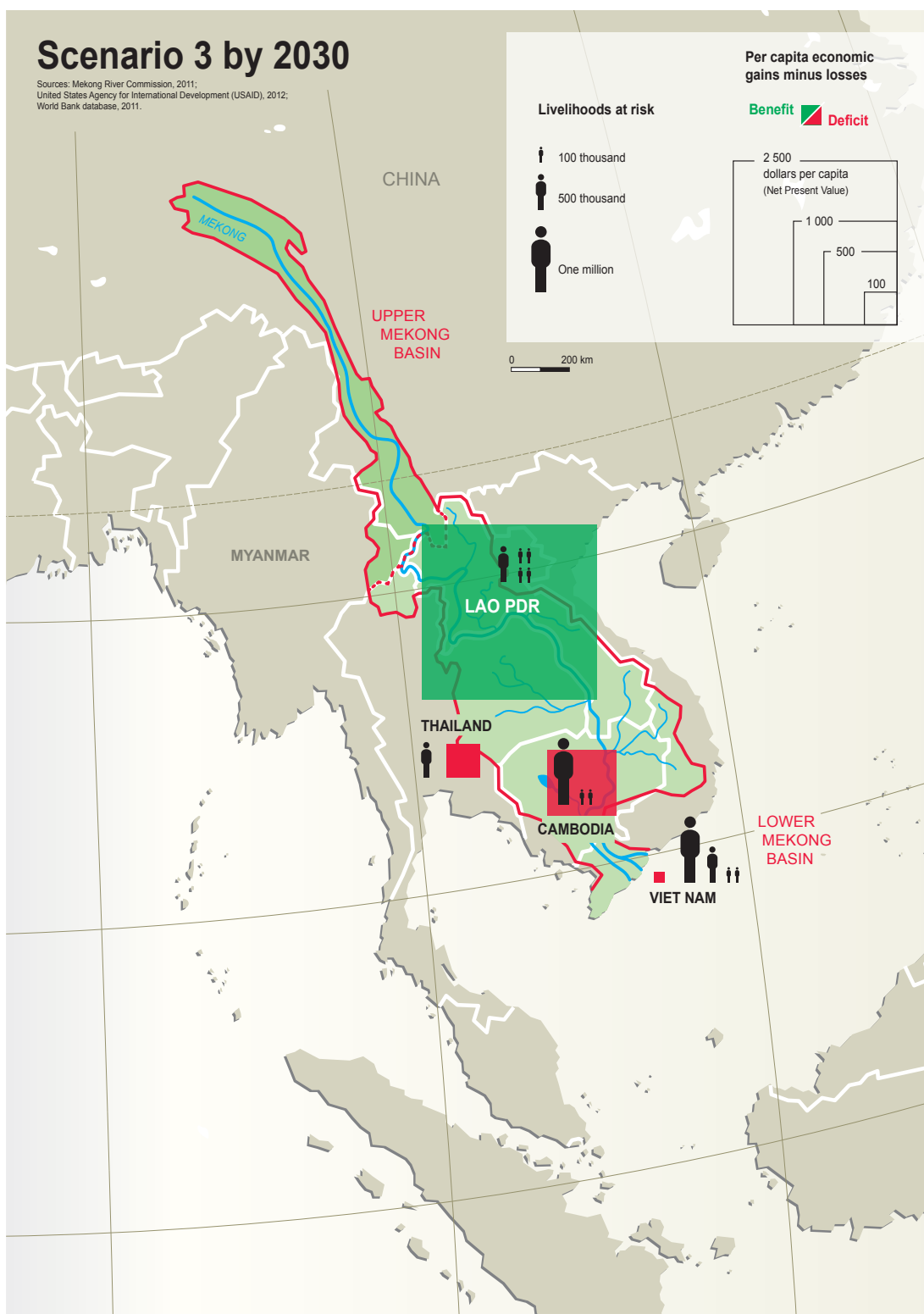
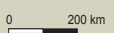
Deficit

Scenario 3 by 2030

Sources: Mekong River Commission, 2011; United States Agency for International Development (USAID), 2012; World Bank database, 2011.

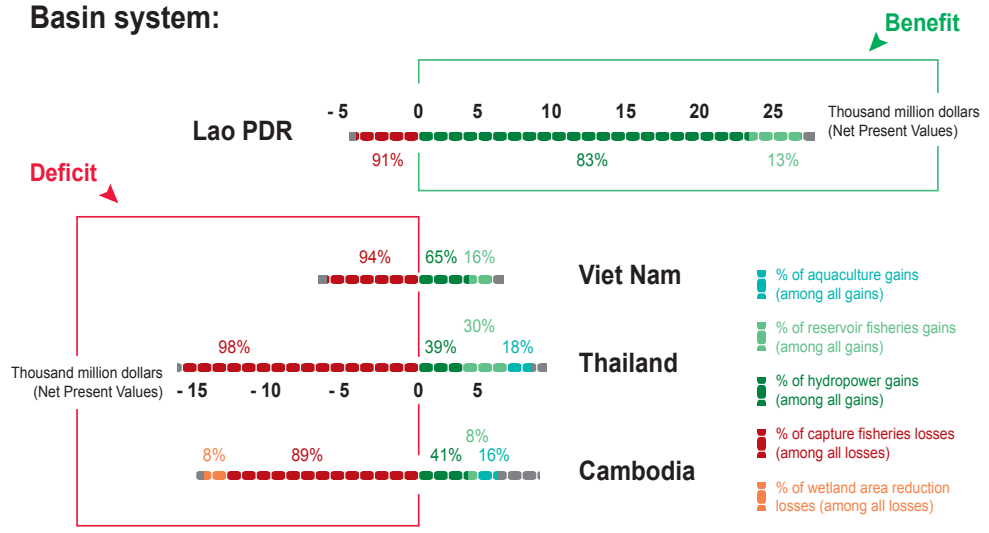


Livelihoods at risk



Scenario 3 by 2030

Basin system:





3. PARTICIPATORY MAPPING

→ support to processes "on the ground"



4. FACILITATION & MAPPING MEETINGS

→ support to peer review

• policy
Elve P.

UNESCO

IMCN

COE

Forest
Land

FISIC

Quonhs

IMSTAC

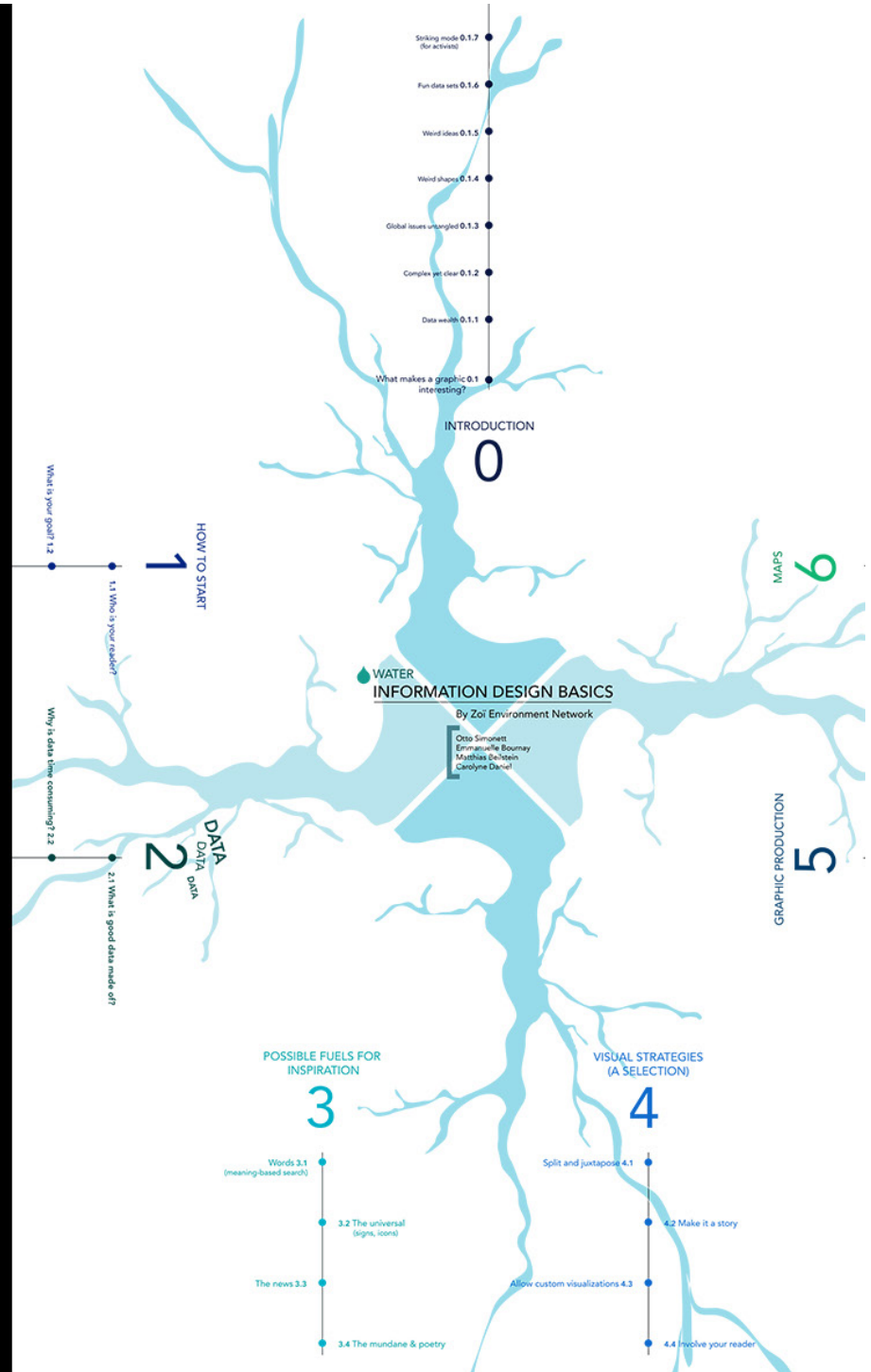
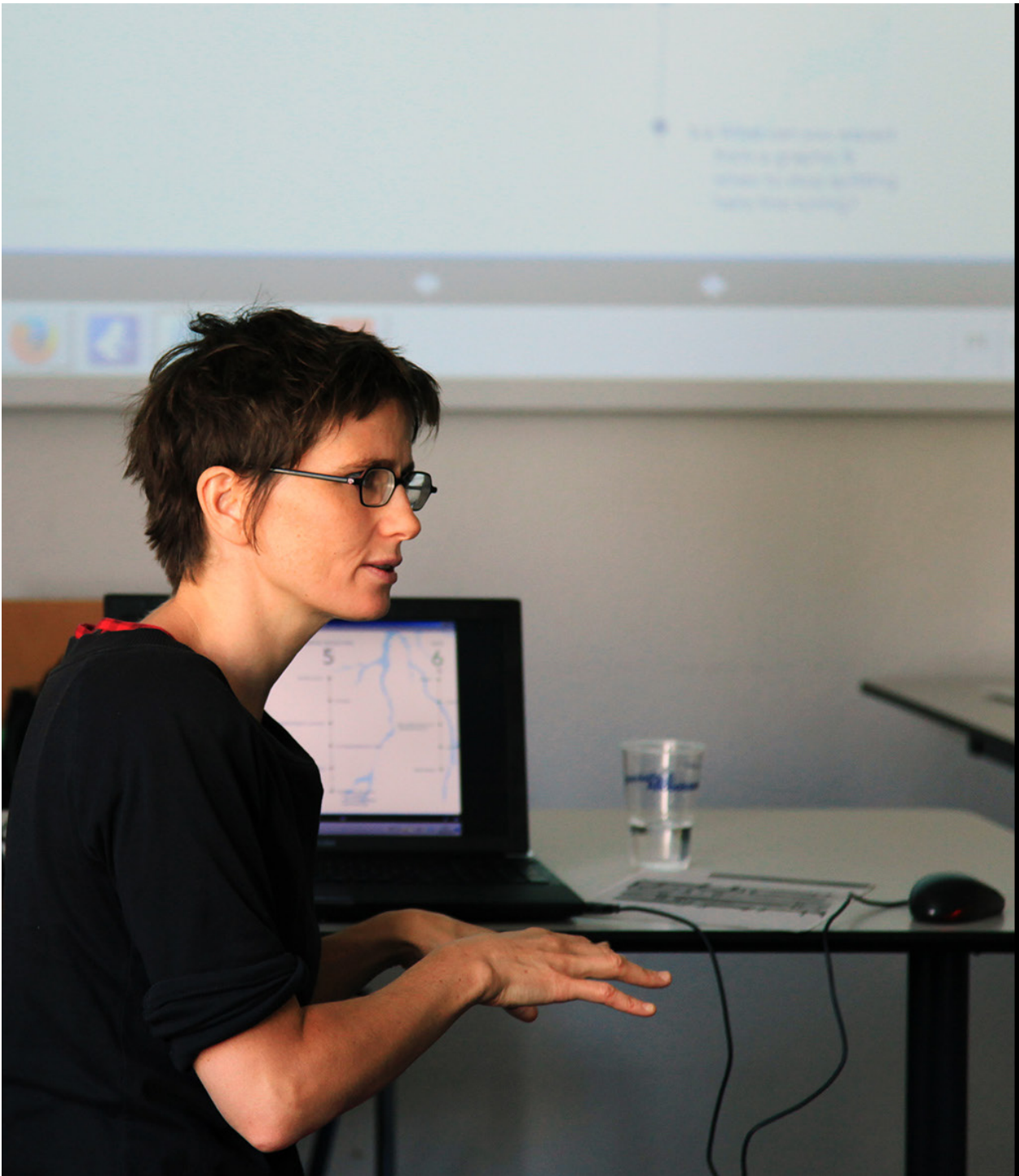
• technology

• economy




5. TRAINING BASIC CONCEPTS & REGIONAL FACILITATORS

→ support to SDC and the field



HANDMADE *environmental* INFORMATION



 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC

