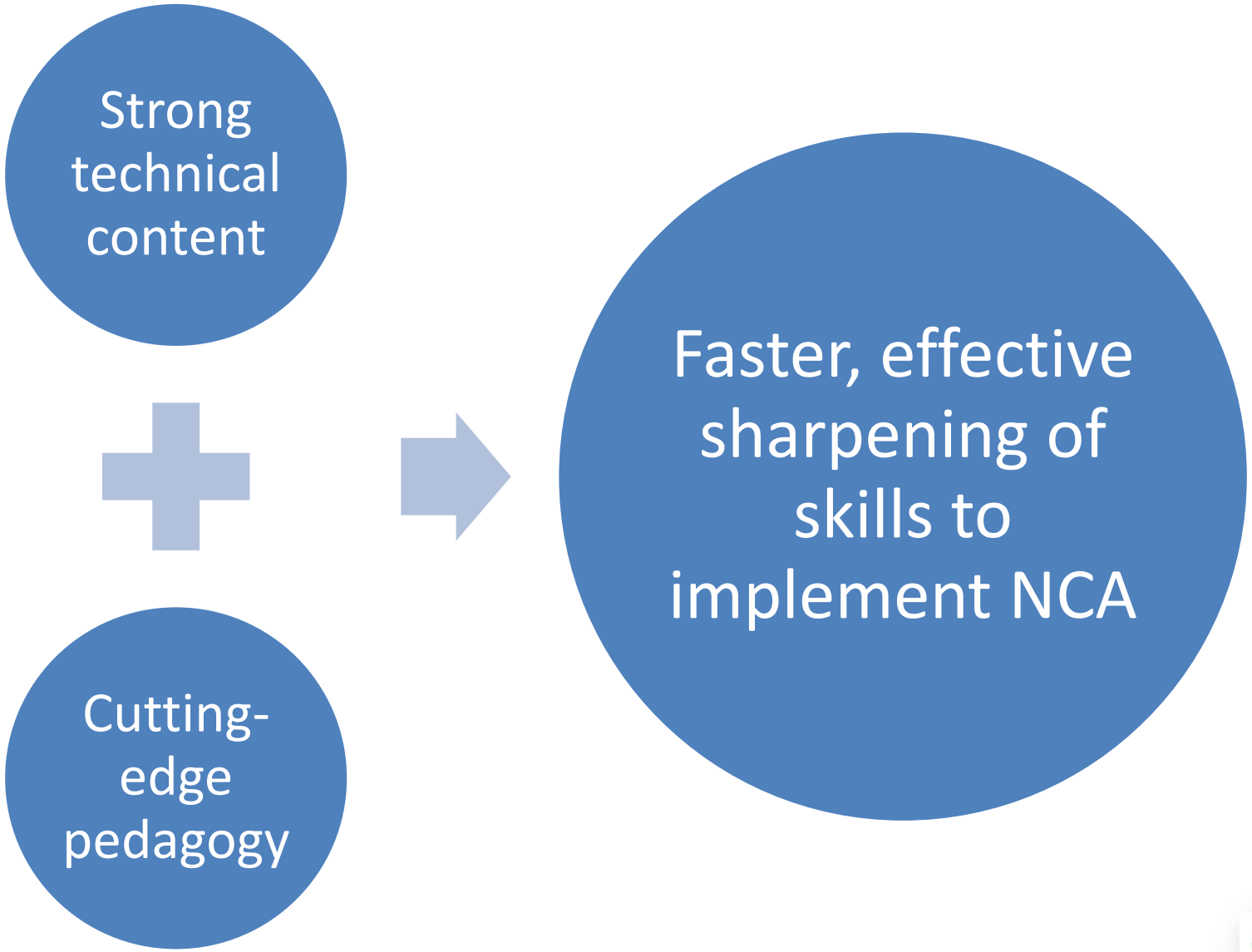
Training Program: A modular approach to water accounting

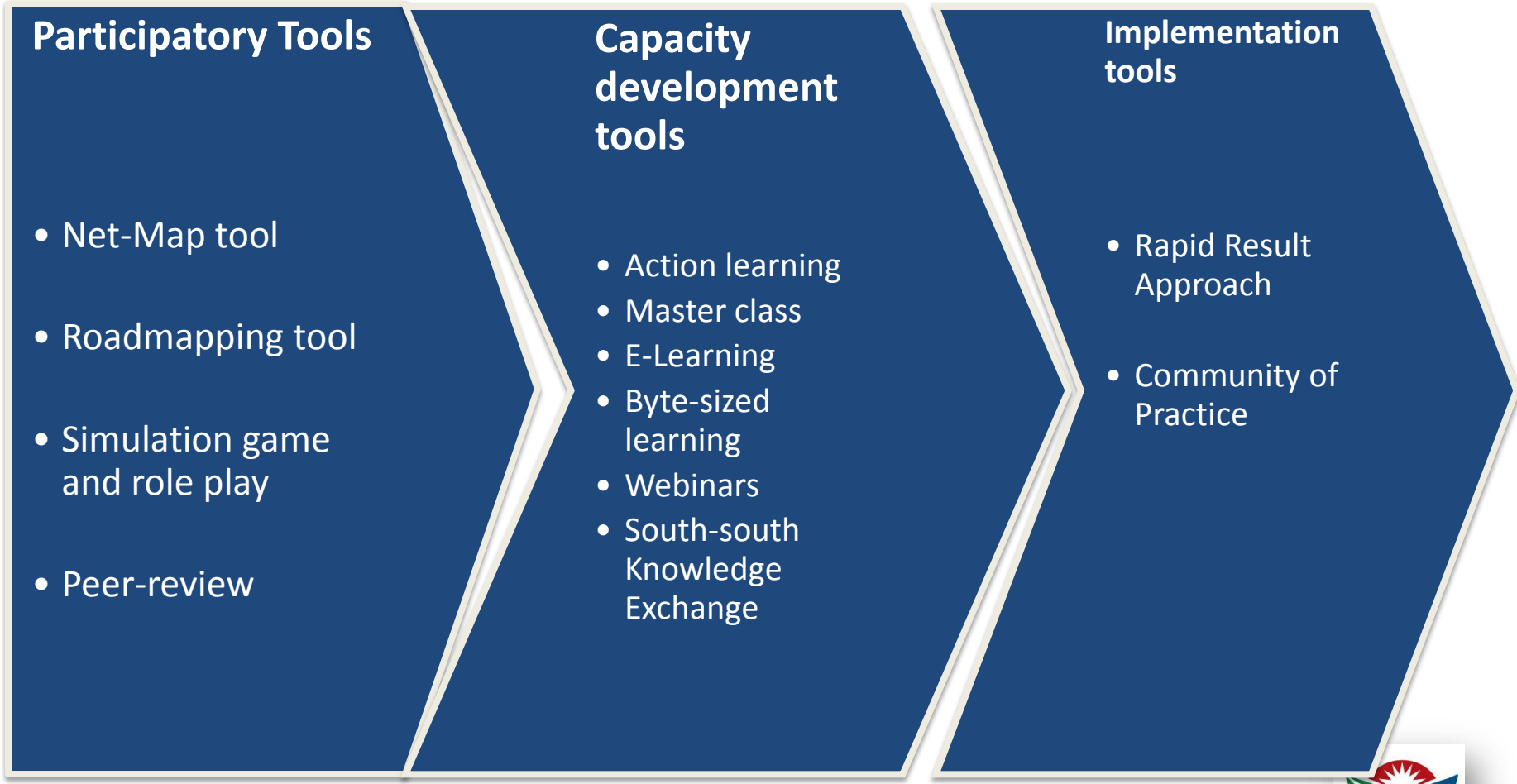
Why?

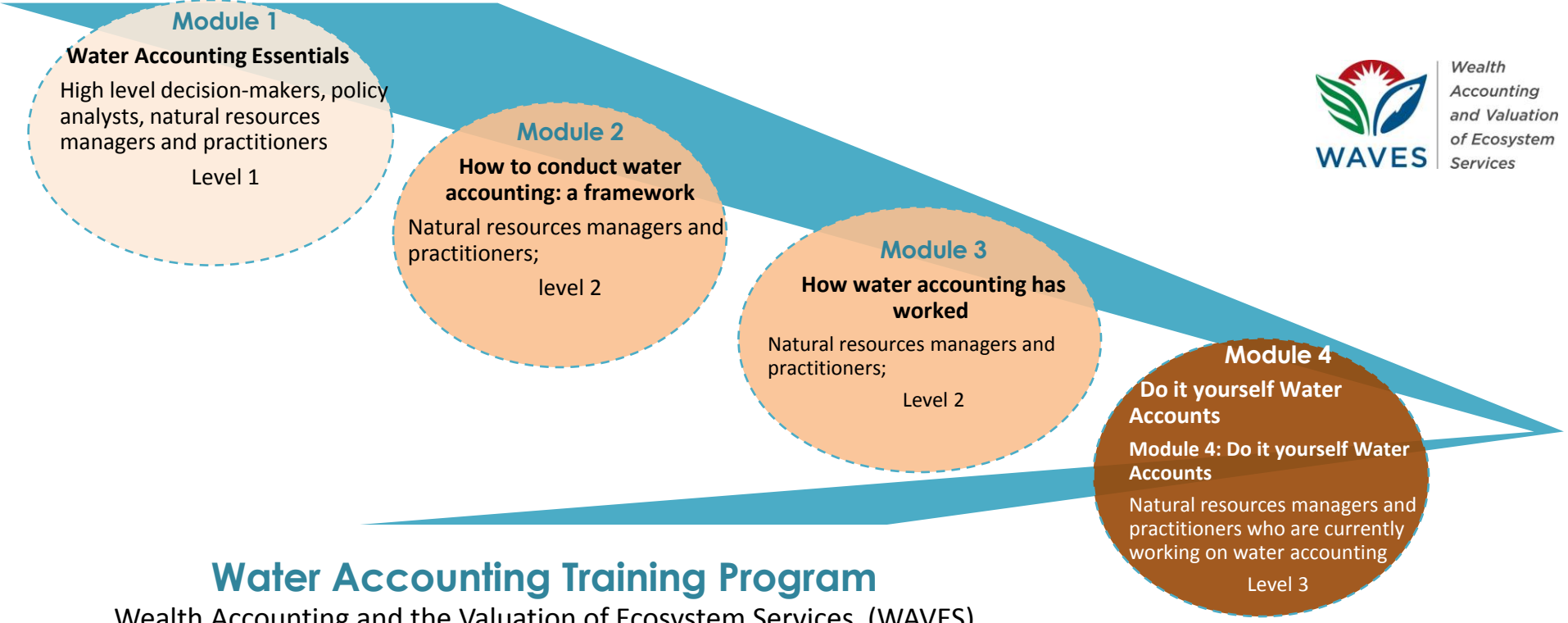
- Urgent demand from WAVES countries
- A lot available but need to be tailored to WAVES countries' needs
- Break down disciplinary boundaries and develop a common language
- Starting with water as pilot to test approach for more complex ecosystem accounting

Approach


Strong technical content
Cutting-edge pedagogy
Faster, effective sharpening of skills to implement NCA

A menu of tools





WAVES Wealth Accounting and Valuation of Ecosystem Services

Water Accounting Training Program

Wealth Accounting and the Valuation of Ecosystem Services (WAVES)

2014

- Each module has 4 sessions and each session is about 90 minutes.
- The target audience and learning objectives are specific to each module
- Common language, common framework, common process, and work beyond their own disciplinary boundary
- Accessible and engaging: power dynamics, reduce the technicality, participatory approach, include validation into learning
- Peer-assist learning and alumni of this program will continue knowledge sharing through a number of instruments

Our Approach in this Training Program

WAVES Wealth Accounting and Valuation of Ecosystem Services

Barriers for effective capacity support on cross cutting issues in developing countries

- No relevance, no time, no incentive
- Concepts are explained using context and concepts which are foreign to the participants
- One dimensional approach doesn't provide recognition of learners' knowledge and contribution
- No evidence for success and not sure how to apply the knowledge learned in a real-world situation
- How to is being introduced in steps but without supporting tools to make each step works

How do we plan to address these challenges in this program?

- Modular approach and action learning pedagogy to meet specific learning need of specific groups in a problem solving environment
- Concept-map, real-time feedback mechanism, Back-to-the-context design
- Learner centered pedagogy puts learner in the center, encourage in-class peer-learning experience, pair work and group work;
- Include a in-class validation process, situate learning in a real problem solving environment, includes a on-the-job support module
- Include tools, knowledge sharing and peer-assist learning in the "how to" process

Module 1 Water Accounting Essentials- Level 1

WAVES Wealth Accounting and Valuation of Ecosystem Services

Module Learning Objectives are to understand

- The potential of water accounting for policy makers and other stakeholders;
- The basic concepts of environmental accounting and how they are applied to water
- The links between different accounts with water account
- What is needed for implementing of water accounting at a national level

Learning Outcome focus on:
Common language, common rational, common process

Target audience
High level decision-makers, policy analysts, natural resources managers and practitioners

Why water accounting: a story which yet to be told

Video story (policy makers, beneficiaries, development agencies, and investment communities)

Participatory approach: why water accounting for the role which they are assigned

Key Concepts in Water Accounting

Water Accounting concept map; cases and examples;

Participatory approach: Real-time feedback on concept map;

Use a case to validate their understanding

What are the links between water account and other accounts

Definition and examples of different accounts;

Why is water accounting important for my ministry discussion

Participatory approach: real-time feedback;

Use a group discussion to validate the learning

What is needed for the implementation of water accounting at a national level?

Net-map for water accounting implementation

Map out key actors, links, influences of each actor for the implementation of water accounting

Module 2 Getting started on water accounting-Level 2

WAVES Wealth Accounting and Valuation of Ecosystem Services

Module Learning Objectives

- Build on understanding from Module 1, this module aims to provide leaners with increased knowledge of concepts, data sources and methods used to construct accounts with country examples

Target audience

Natural resources managers and practitioners

Learning Outcome Focus on:

Common language, common process (technical contents and key steps of implementing water accounting)

Getting started on water accounting

Types of data needed, typical sources of this data and the agencies that processes the data

Presentation+ participatory approach:

Color code, shape code and discuss agencies

Putting the hydrology into a water accounts

Use a concept map to explain the physical asset accounts and water supply and use tables ; Use graphics to illustrate the linkage between concepts ; Pair work to

Participatory approach: pair work and group work to fill the missing information and discuss results

Putting the economics into the water accounts

Water pricing, environmental protection expenditure, combined physical and monetary presentations and indicators

Participatory approach:

The exercise is to show how to put the economics into the water accounts.

Water in ecosystem accounting

Key concepts of ecosystem accounting ; How can water accounts contribute to the ecosystem management in my country?

Participatory approach: concept map, real-time feedback, matching exercise, and group disussion

Module 3 How water accounting has worked -Level 2

Wealth Accounting and Valuation of Ecosystem Services

Module Learning Objectives are to

- Enhance understanding or the production and use of accounts in countries where water accounting has been implemented, e.g. Australia, the Netherlands and Mexico or Botswana;
- Understand and gain insights in applying and integrating water in policy and decision making in developing countries

Target audience

Natural resources managers and practitioners

Learning Outcome Focus on:

Learning how to from existing experiences (Common language, process, and work beyond discipline)

Water Accounting in Australia

Why water accounting?

Who produce water accounts?

How have water accounts been used?

What have been learnt?

Participatory approach: facilitated discussions (challenges, producers list, user list)

Water Accounting in Mexico

Why water accounting?

Who produce water accounts?

How have water accounts been used?

What have been learnt?

Participatory approach: Group work, participants work in groups reading the case study and complete the work sheet with the above 4 questions;

Water Accounting in the Netherlands

1. Netherlands's dataset for key accounts;
2. Key tables and accounts of Netherlands;
3. Fill the tables with missing information together with participants

Participatory approach: step-by-step fill the missing information together with the participants

Water Accounting in Botswana

1. Botswana's dataset for water accounts;
2. Key tables and accounts of Botswana;
3. Work in group to complete the tables and accounts;

Participatory approach: to fill the missing information in the group

Module 4 Do it yourself Water Accounts-Level 3

WAVES Wealth Accounting and Valuation of Ecosystem Services

Module Learning Objectives

- To connect issues of public policy to particular water accounts
- To connect examine the data available and use it to construct water accounts
- To learn of how to identify and solve common problems in water accounting
- Cover the basics of data dissemination and understand the different types of publications that can be produced for different audiences.

Target audience

Natural resources managers and practitioners who are currently working on water accounting

Learning Outcome Focus on:

How to do it yourself and on the job support

Define your challenges

Water issues; identify water accounts , complete the forms

Participatory approach: individual work, peer review and group validation

Create your water accounts with your data

Participant use their own data to create a set of water accounts

Participatory approach: Individual work, Peer-review

Implement water accounting in your country

Identify implementation problems, complete an action plan

Participatory approach: individual work, peer review and group validation

Putting it all together

Net-map to validate the action plan; complete a M&E plan for your work;

Participatory approach: individual work, peer review and group validation