Local-level investments in water: Multiple use water services (MUS)

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IFAD
Enabling poor rural people to overcome poverty

IWMI
International Water Management Institute

IRC

RiPPLE

Universidad de Valle

Cinara

WINROCK INTERNATIONAL
Putting Ideas to Work

Lessons learnt by the MUS Group
Barbara van Koppen

RAIN

WEDC

odi
Overseas Development Institute

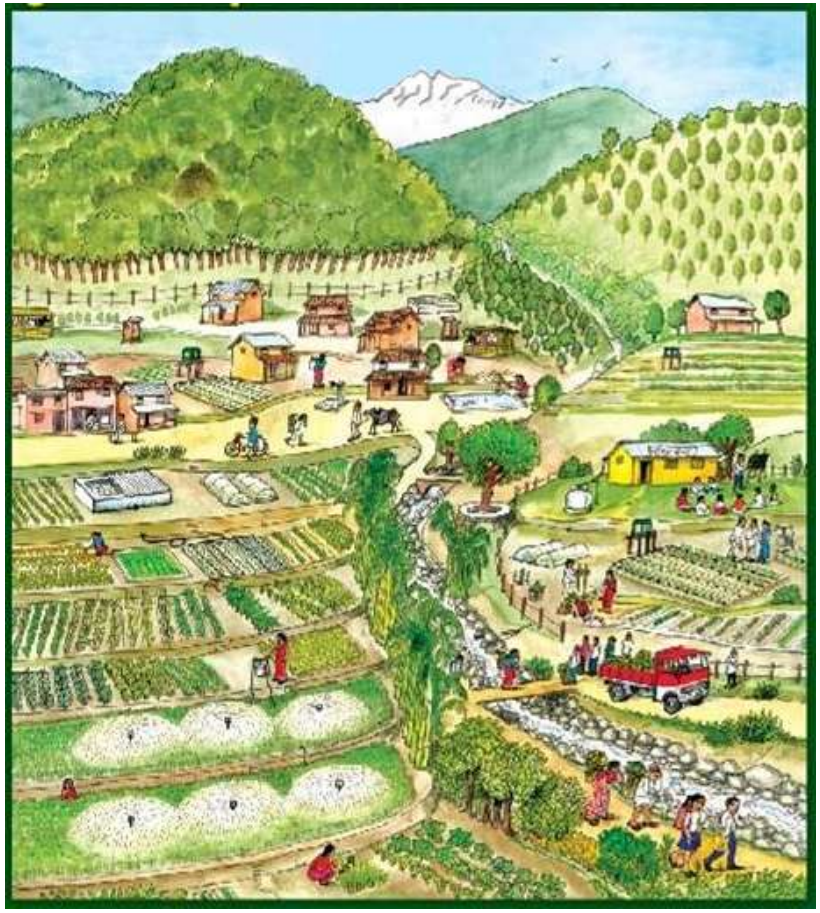
Plan
Be a part of it.

Pump Aid
'Water for Life'

CGIAR Challenge Program on WATER & FOOD

SEI STOCKHOLM ENVIRONMENT INSTITUTE

The local realities behind MUS



Rural and peri-urban communities construct **multi-purpose water infrastructure**
> *for **multiple livelihood benefits** and better **cost-recovery***

Communities use and re-use **multiple sources** for multiple uses
> *for **holistic, efficient and sustainable water resource management***

Communities turn single-use designed systems into ***de facto* multiple use systems**
> *may cause damage, as it is unplanned*

What is MUS ?

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A water services approach that takes people's multiple water needs as starting point of planning infrastructure construction or rehabilitation and management.

So an approach for :

1. Designing cost-effective multi-purpose infrastructure for health, food security, income, labor-saving, etc.
2. Anchoring services in the use and re-use of the multiple sources in the local water cycle, bottom-up
3. Facilitating community-driven planning for sustainable development

MUS in the water sector's landscape
(adapted from: Pacific Institute)

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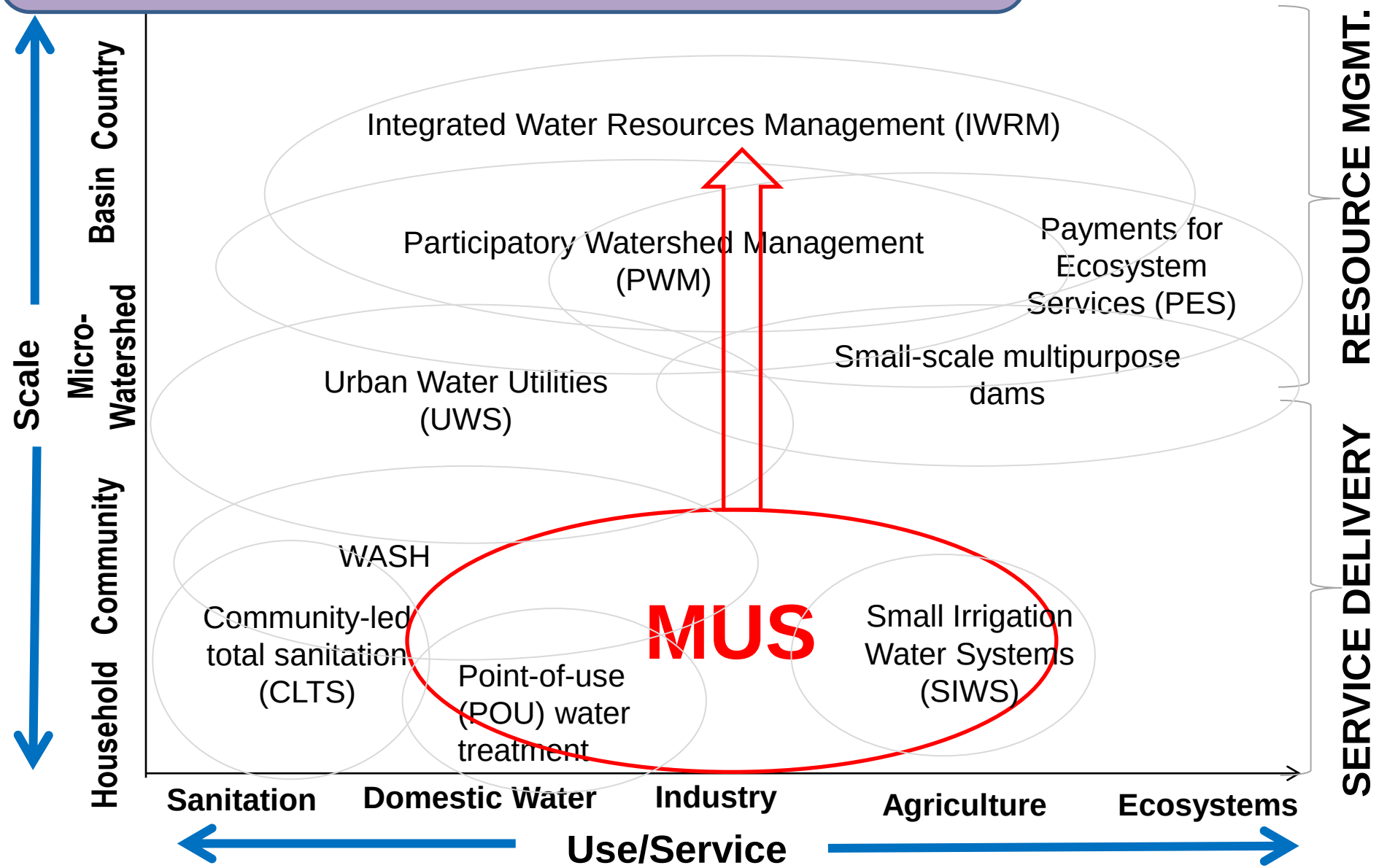

A decade of MUS innovation

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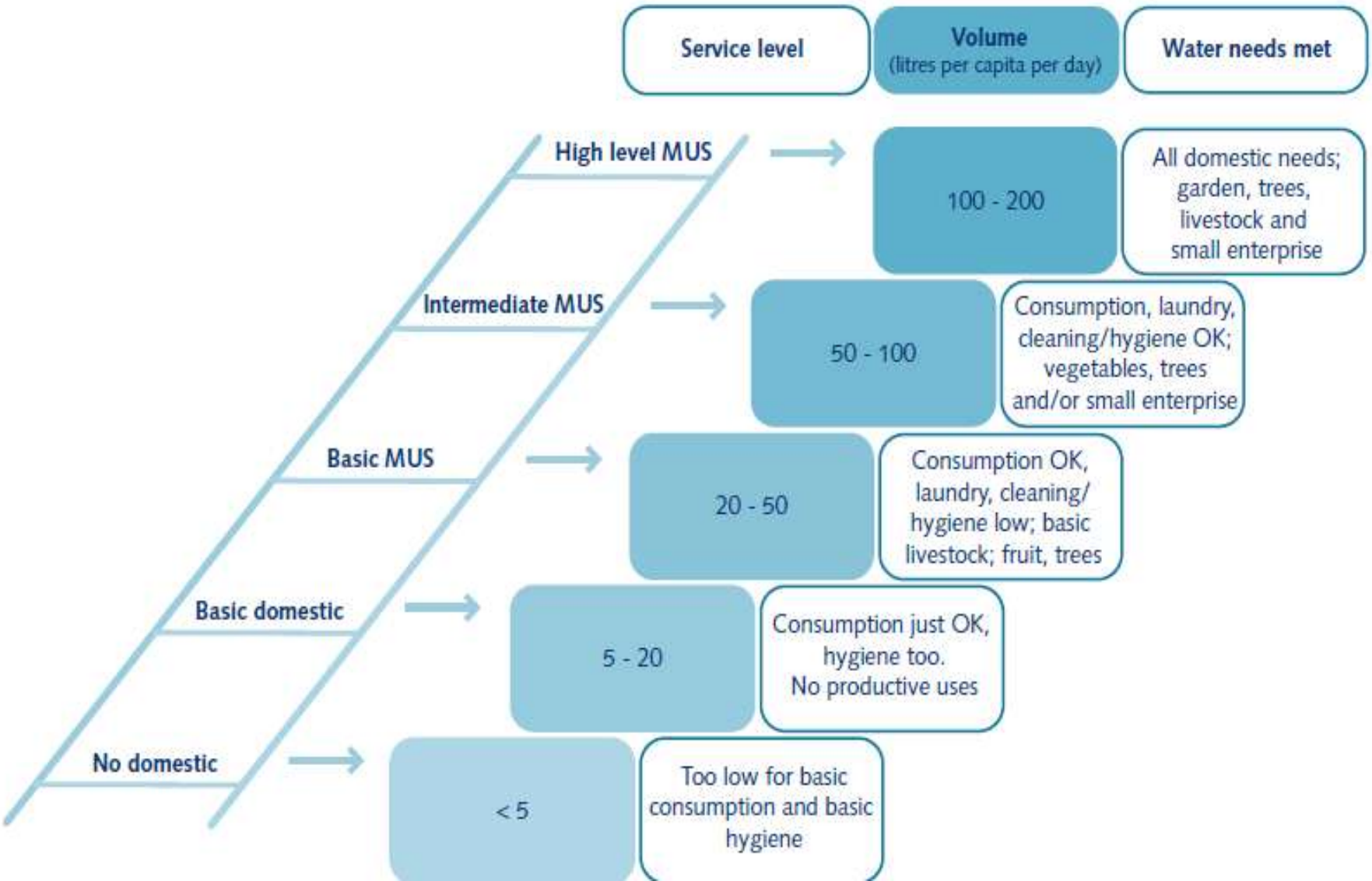
Innovating MUS	Activities
Innovating MUS models, e.g., • **domestic-plus** • **irrigation-plus** • **MUS by design**	• **MUS learning alliances with global MUS Group** • **Pilot testing for models** • **Synthesis, tools and guidelines**
Scaling MUS in policy and large programs	• **Advocacy, capacity building** • **Monitoring and synthesizing implementation at scale**

Domestic Plus

- Priority for domestic water uses, at/near homesteads
- At least 5 lpcd safe for drinking; more water for productive uses

Climbing the water ladder for higher service levels



Irrigation Plus

- Priority for crops in fields
- Multi-purpose technology (e.g. add-on cattle ramps, washing places)
- Supplying (bulk) municipal supplies
- Combining conjunctive surface/ groundwater sources

Example: FAO Mapping of Systems and Services for Multiple Uses (MASSMUS): methodology for management reforms of large canal irrigation schemes

3. MUS by design - 1

- Participatory planning for communities' informed infrastructure choice
- Both within the water sector and as prioritized water component in participatory programs
- By implementing agents and/or local government

3. MUS by design - 2

Examples within water sector:

- SADC/Danida IWRM Demonstration Projects in Malawi, Mozambique, Namibia, Swaziland, and Zambia; GIZ tender
- Upcoming: Mvula-led AfDB MUS project in South Africa and Burkina Faso

3. MUS by design - 3

Examples of water assets in participatory approaches:

- India National Rural Employment Guarantee Act 55 million households ! Two-third of works are water assets
- South Africa Community Work Program

Changing investments in plus-approaches

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- Widening up mandates and financing earmarks

But **barriers** among professionals:

- ‘more work’
- ‘competing with own mandate and expertise’
- ‘no recognition’ in upward accountability
- lack of capacity to facilitate participatory planning and technical design for multiple uses from multiple sources

Changing investments in MUS by design

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- Within the water sector: holistic funding earmarks
- Outside the water sector: water components in:
  - Community-driven employment programs
  - Community-driven development (CDD) programs
  - Local government planning and financing reform

But **barriers** among professionals:

- lack of capacity to facilitate participatory planning and technical design for multiple uses from multiple sources

Thank you for your attention -

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