

National Workshop on Small-Scale Sanitation Systems

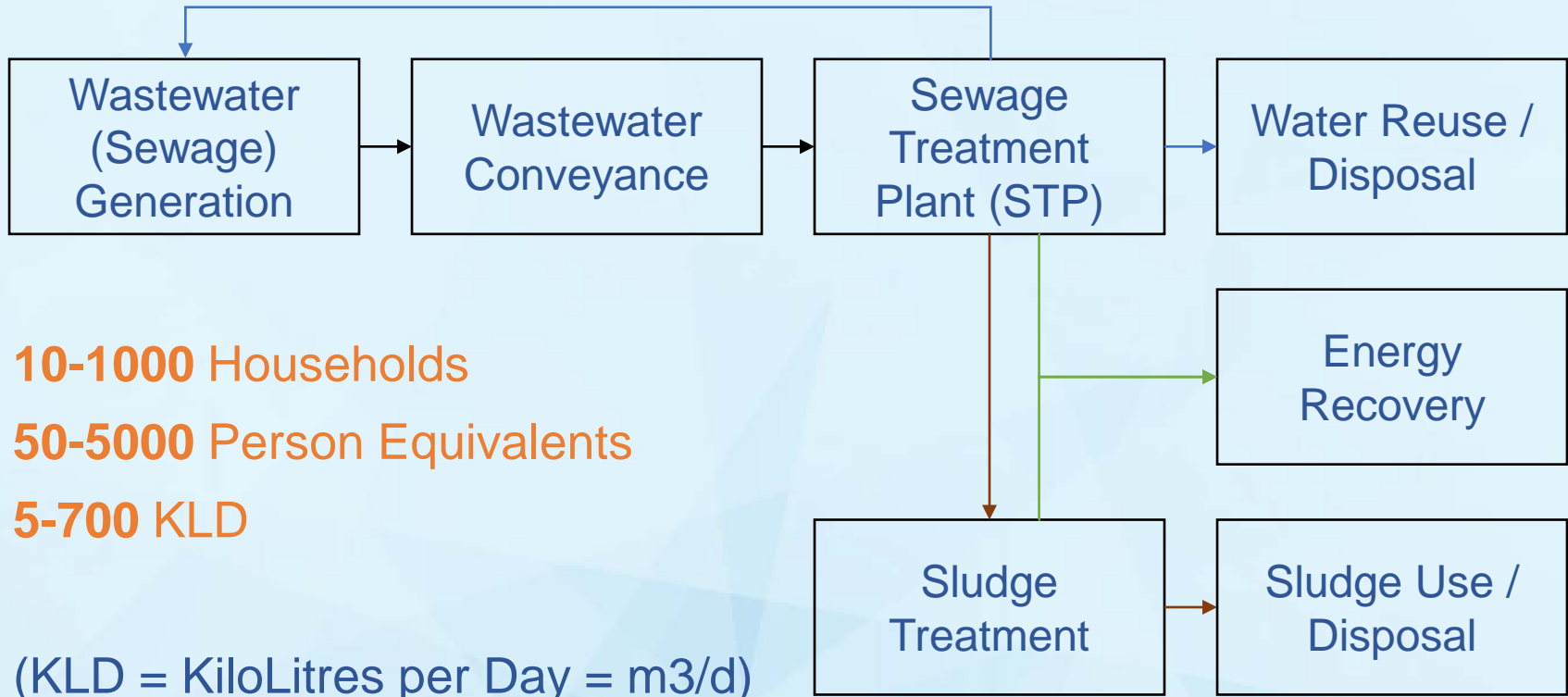
**A Roadmap for Small-Scale STPs in India:
Fulfilling their Potential for Healthy and Water-Secure Cities**

The 4S Project – Objectives and Approach

Lukas Ulrich, Eawag

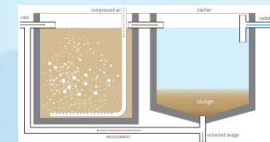
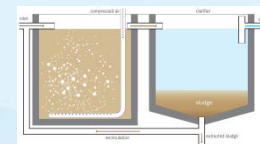
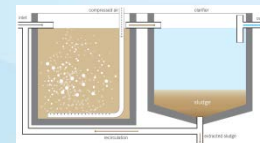
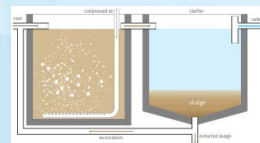
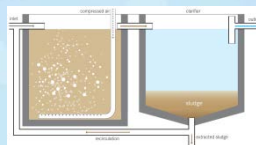
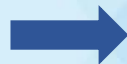
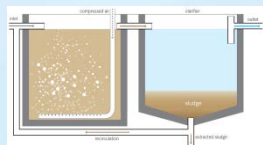
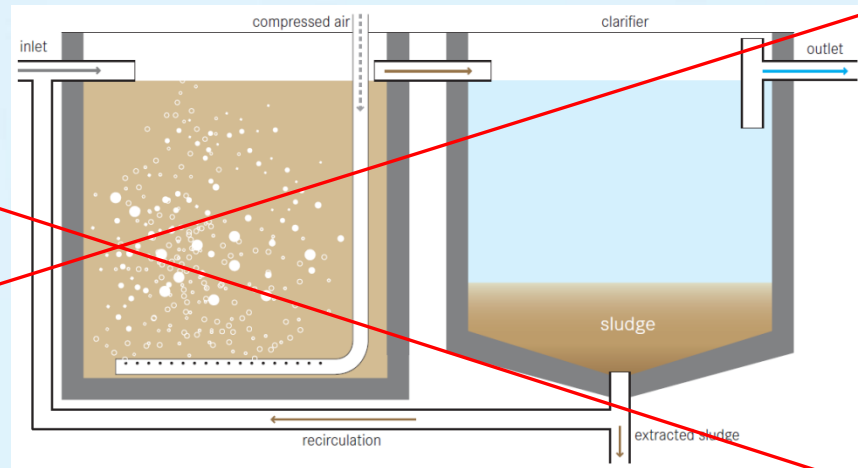
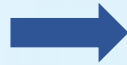
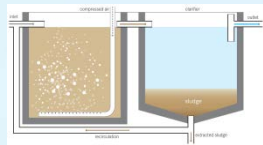
Small-Scale Sanitation Scaling-Up

Small-Scale Sanitation...

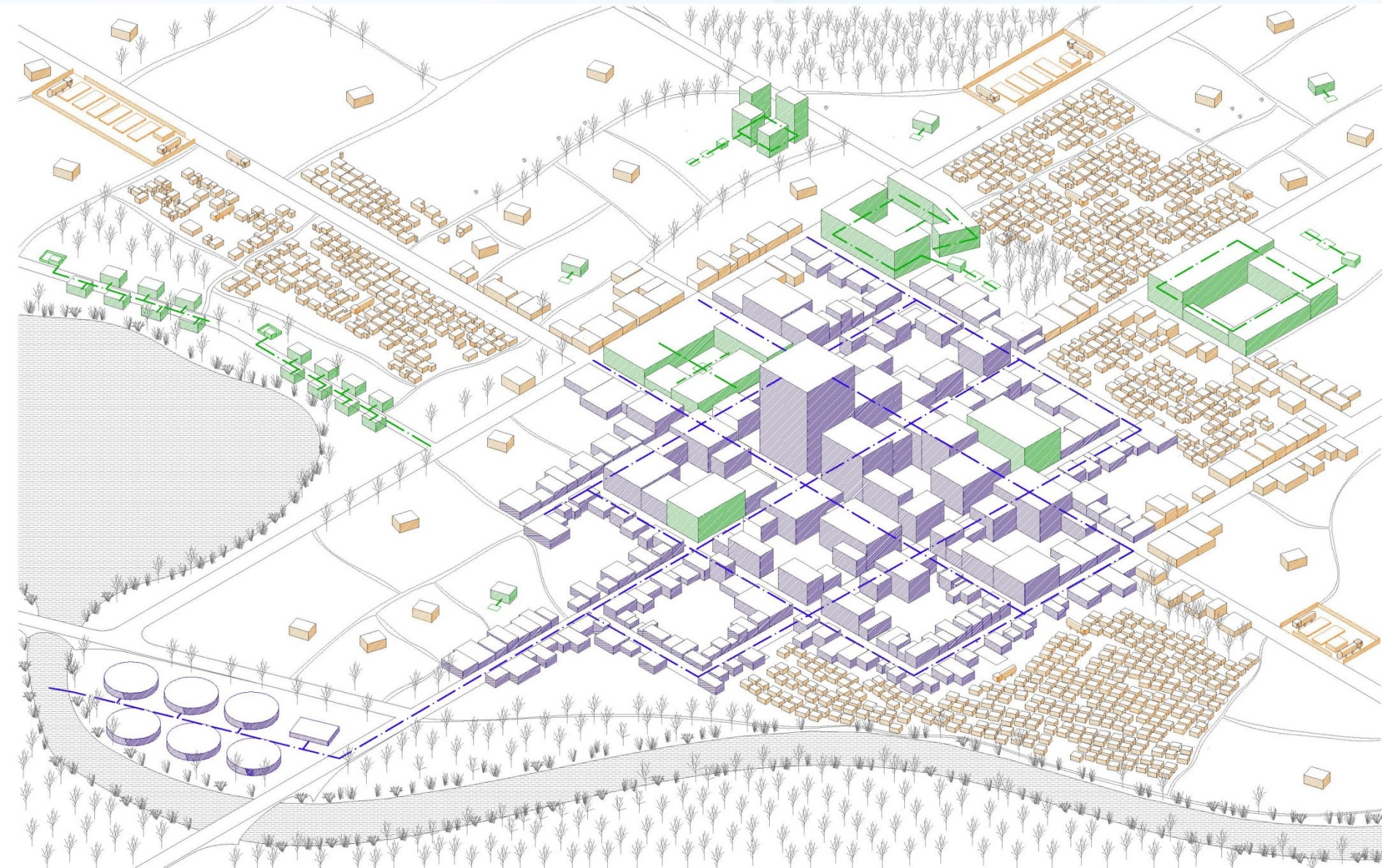




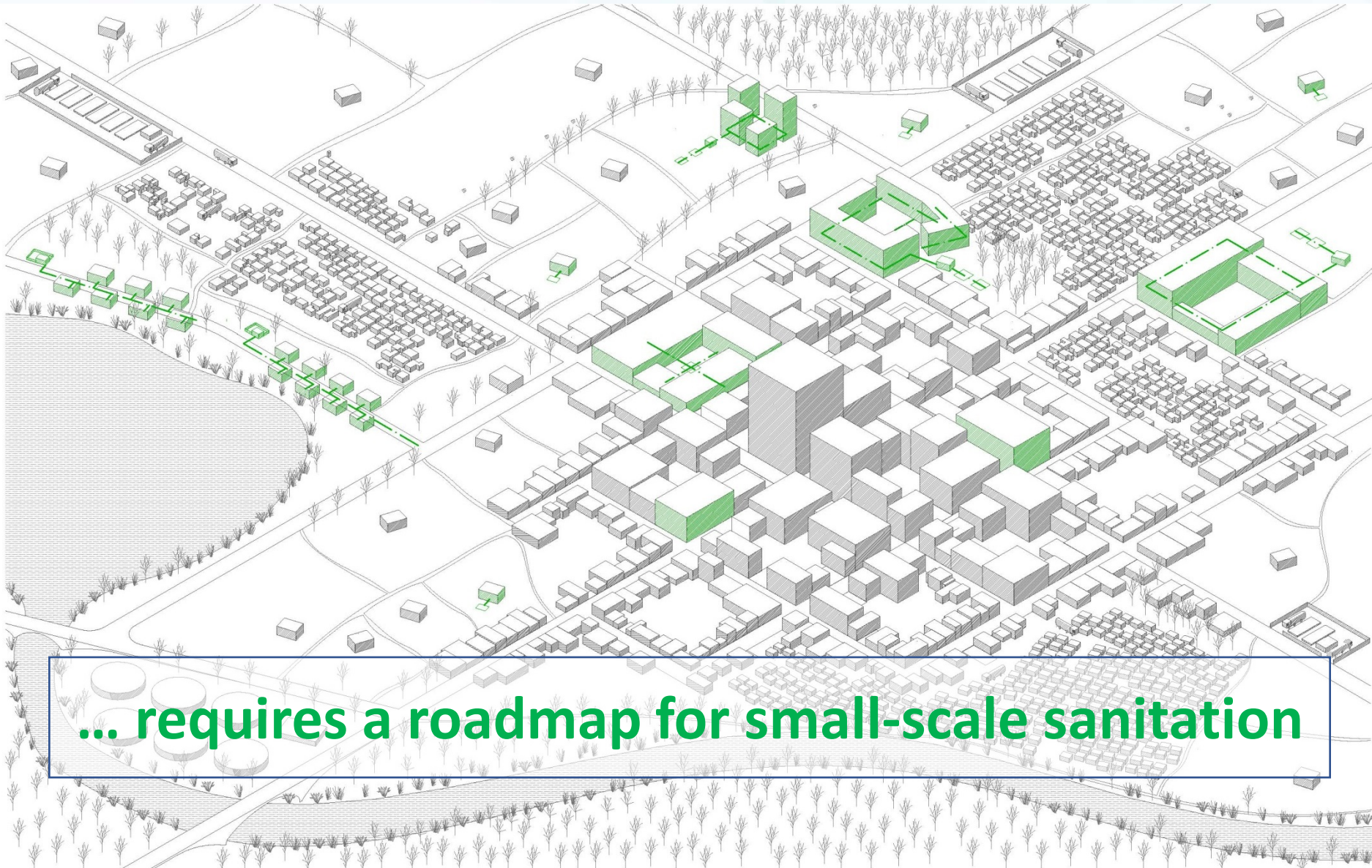
... Scaling-Up



Scaled-Up Urban Sanitation



Scaled-Up Urban Sanitation



... requires a roadmap for small-scale sanitation

Why this Project?

- ✓ Previous research focused mostly on technology, not management
- ✓ Continuously increasing numbers of small systems
- ✓ Sanitation as policy priority of government
- ✓ Expressed need by the Indian Government
- ✓ Interest in viability of small-scale systems in comparison with conventional approaches



4S Objectives

Project partners



eawag
aquatic research ooo



Funding

**BILL & MELINDA
GATES foundation**



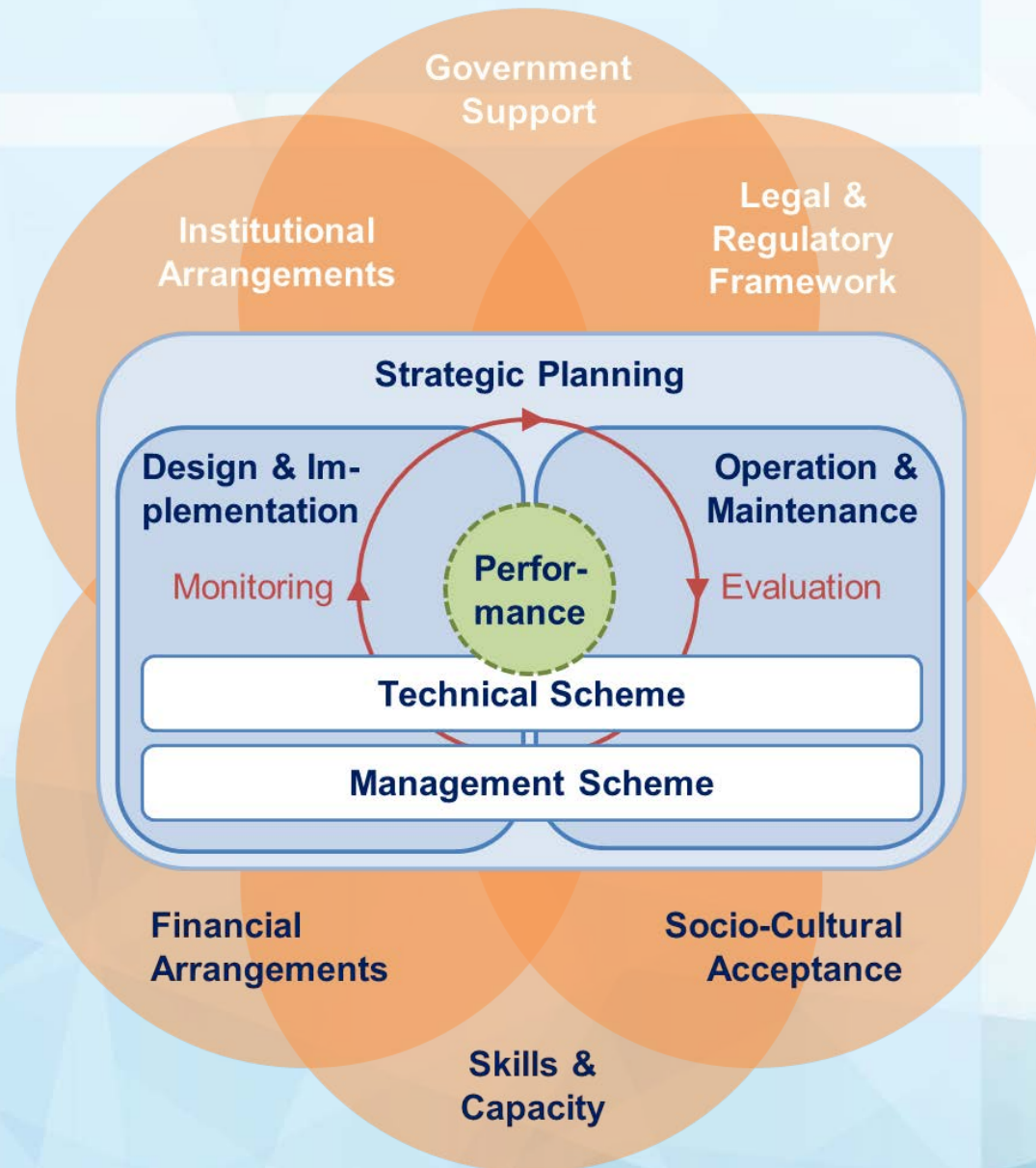
- Investigate technical, financial and management **performance of existing small-scale sanitation systems**
- Develop a **cause-impact framework** for the success and failure of small-scale sanitation systems
- Investigate the **management and institutional schemes** required for effectiveness, and how to include the private sector
- Carry out a simplified comparative **cost-benefit analysis**, incl. capital, operational and asset maintenance requirements for varying scales of operation
- Determine in which contexts a small-scale approach is **optimal** and **sustainable**.
- Develop **policy recommendations** for scaling-up

4S Approach

- Landscape Study
- Basic Assessment of Systems
- In-Depth Analysis of Performance
- Policy, Institutional and Governance Analysis
- Financial Analysis

Governance Level

Sanitation System Level



Main Project Outputs

- **Project report** summarizing the main findings (technical, financial and institutional)
- Small-scale sanitation **technology factsheets** with key information
- **Policy brief** with recommendations for sustainable scaling-up of SSS sector



Thank you!

www.sandec.ch/4S