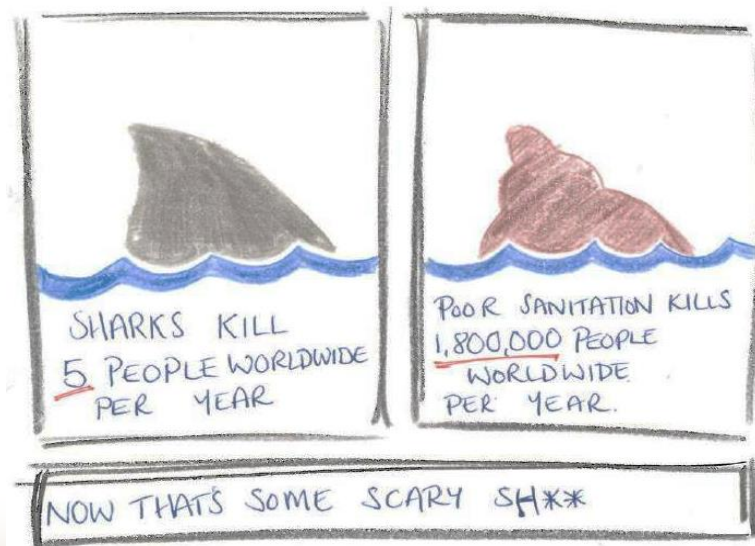




Contributions of SuSanA and the SFD- approach to more sustainable Sanitation

**Dr. Arne Panesar,
Director Sector Programme Sustainable Sanitation, GIZ**





... together, we achieved a lot in the last 15 years!



Source: <https://news.un.org/en/story/2015/11/515832-special-un-event-stresses-key-role-water-management-tackling-challenges-climate>

**e.g. : “Wild ideas” how to support UNSGAB – discussed @ GIZ HQ in 2004
... to bring sanitation up on the political agenda**

We should have a network to speak with one voice on sustainable sanitation!

We should have an International Year of Sanitation!

We should have a global conference focusing on non-sewered sustainable sanitation!

A Bollywood Movie on Toilets would be very cool!



sustainable
sanitation
alliance

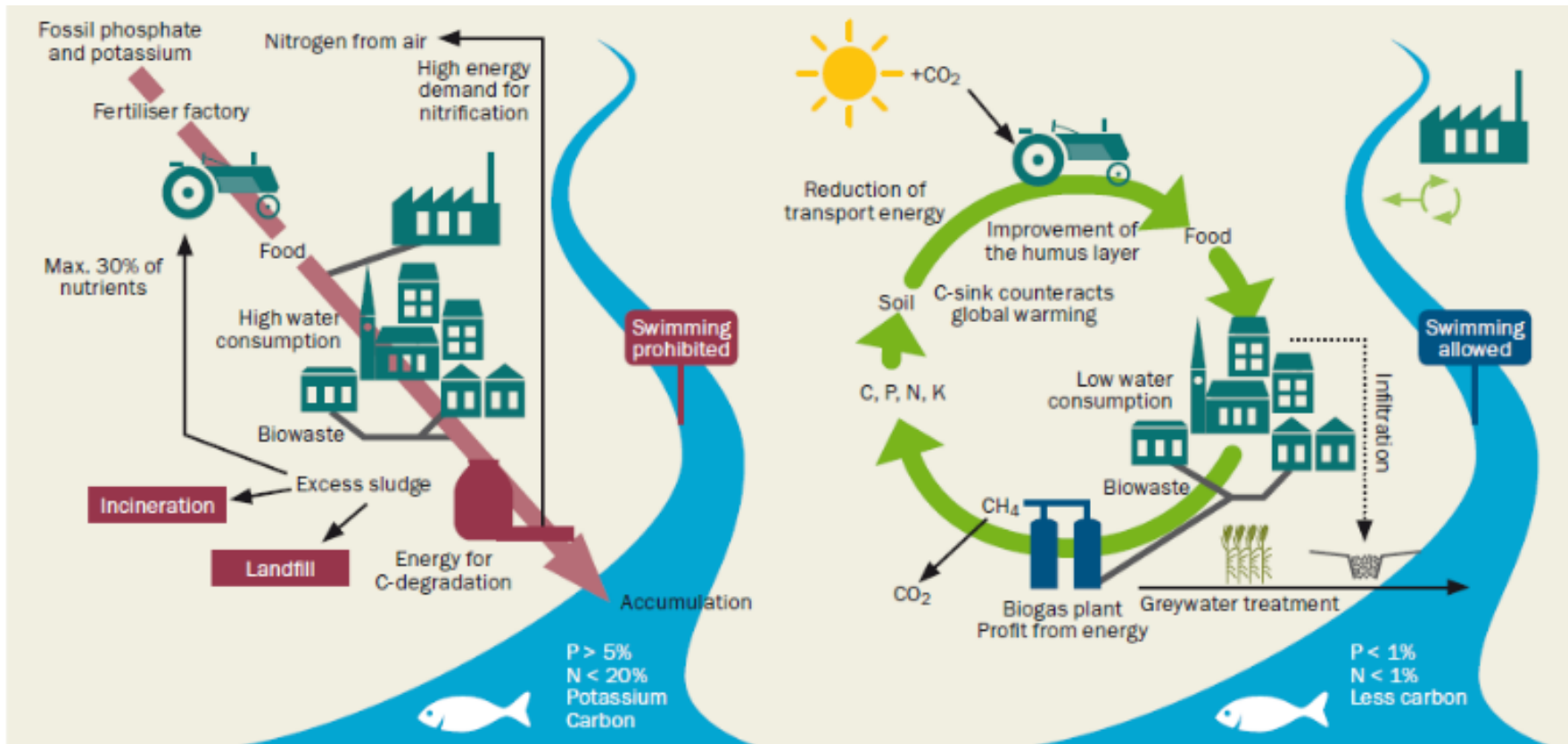
SuSanA
2007-2019

- 10,000 Members from 172 countries
- 350 Partners
- 7,850 Facebook followers
- 4,360 Twitter followers





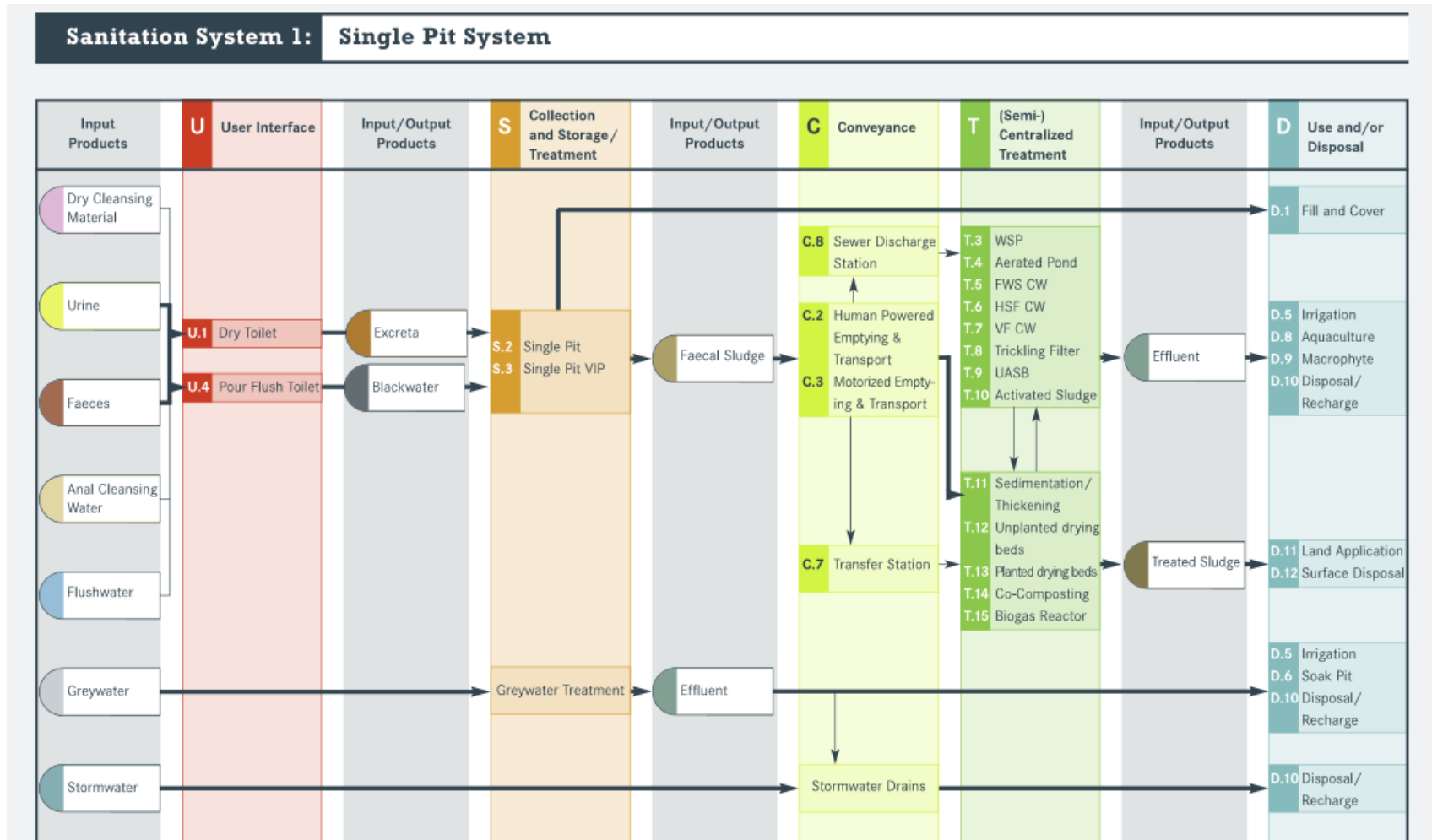
Comparison of linear- and reuse-oriented approaches to sanitation



Adapted from Lange, J., & Otterpohl, R. (1996). Abwasser-Handbuch zu einer zukunftsfähigen Wasserwirtschaft



Combining sanitation system components along a sanitation chain

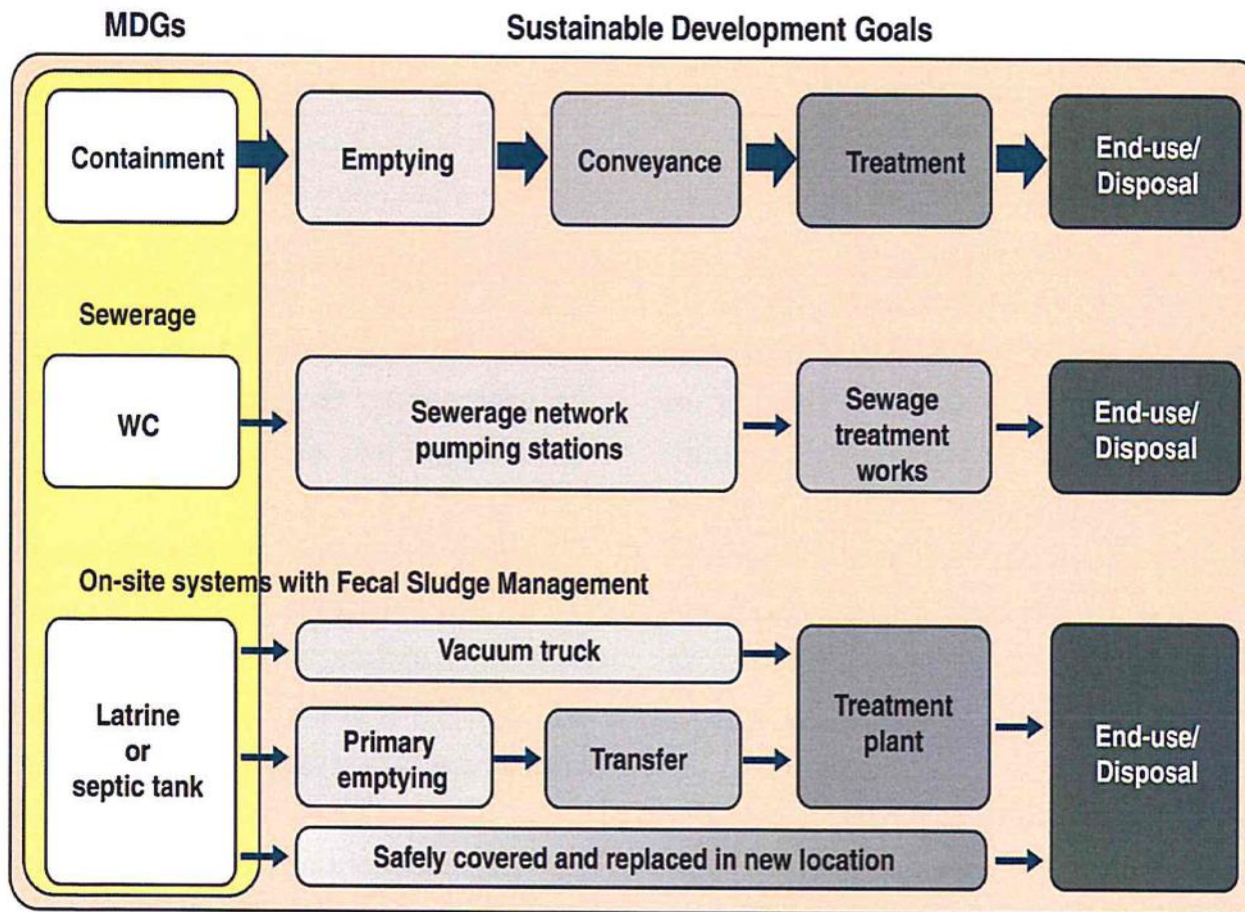


Source: Tilley, E., Lüthi, C., Morel, A., Zurbrügg, C., & Schertenleib, R. (2008). Compendium of Sanitation Systems and Technologies.



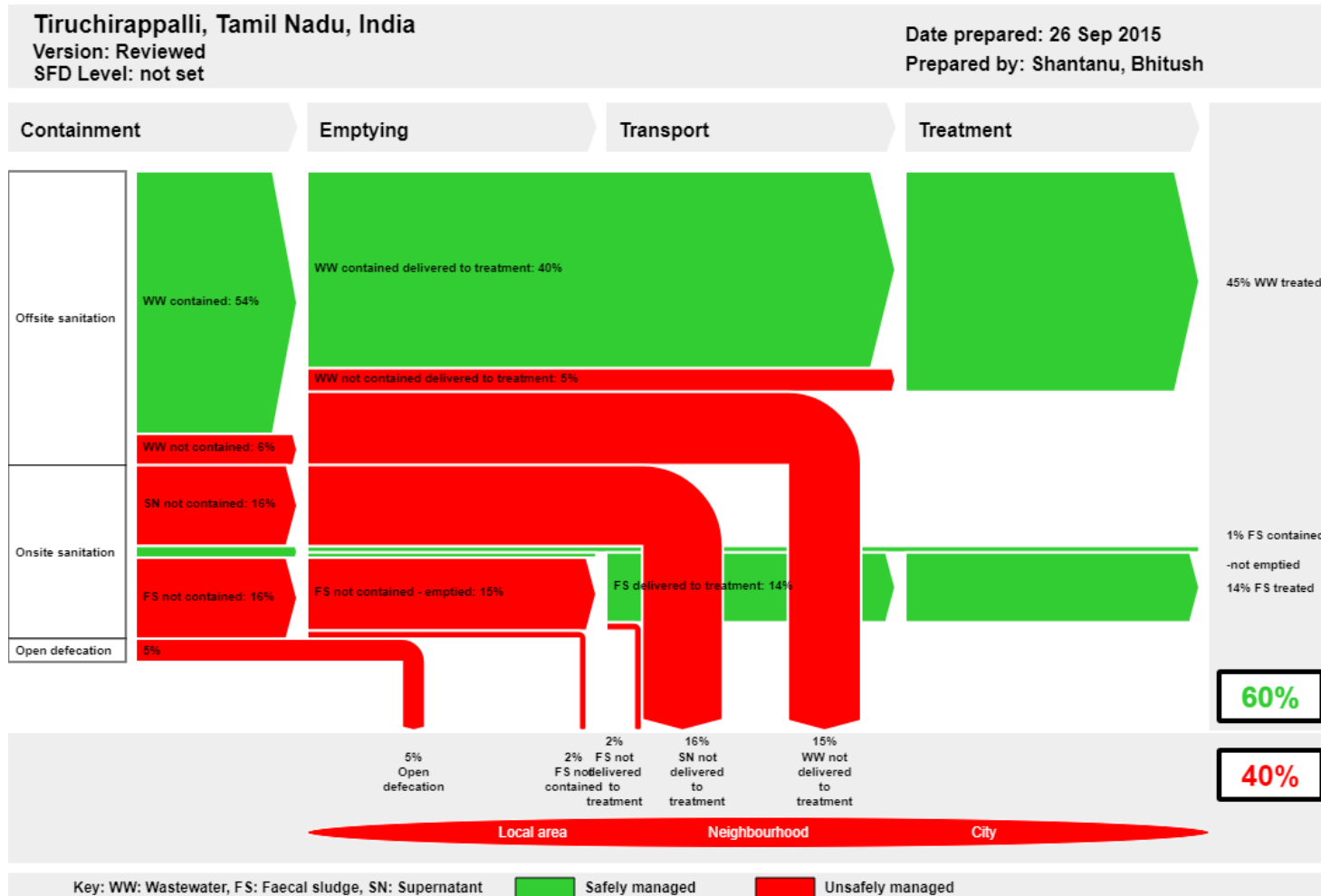
The SDGs are catching up with SuSanA...

... to go from ODF to ODF++ in India is a similar move...





The Shit Flow Diagram (SFD) helps to ...



Source: SFD Promotion Initiative



... gain support for more sustainable sanitation...

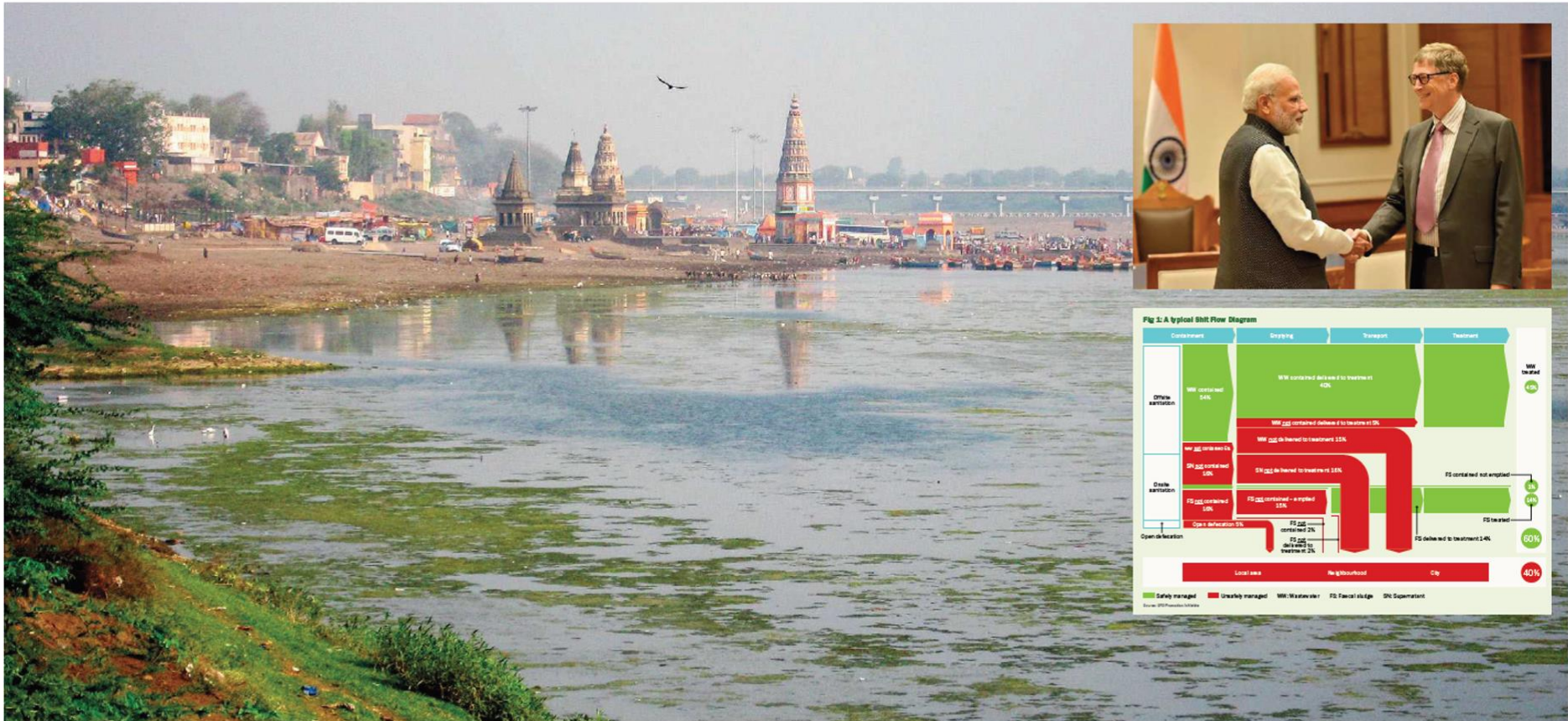


Image: Press Trust of India (PTI)

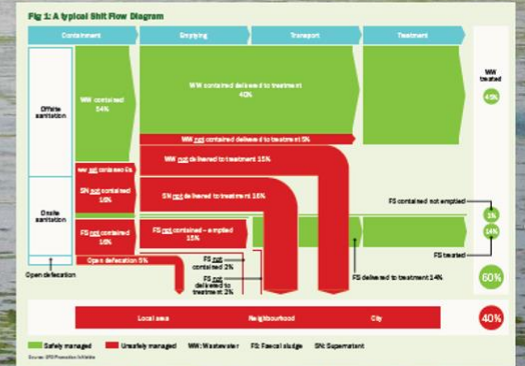


Image: Arne Panesar

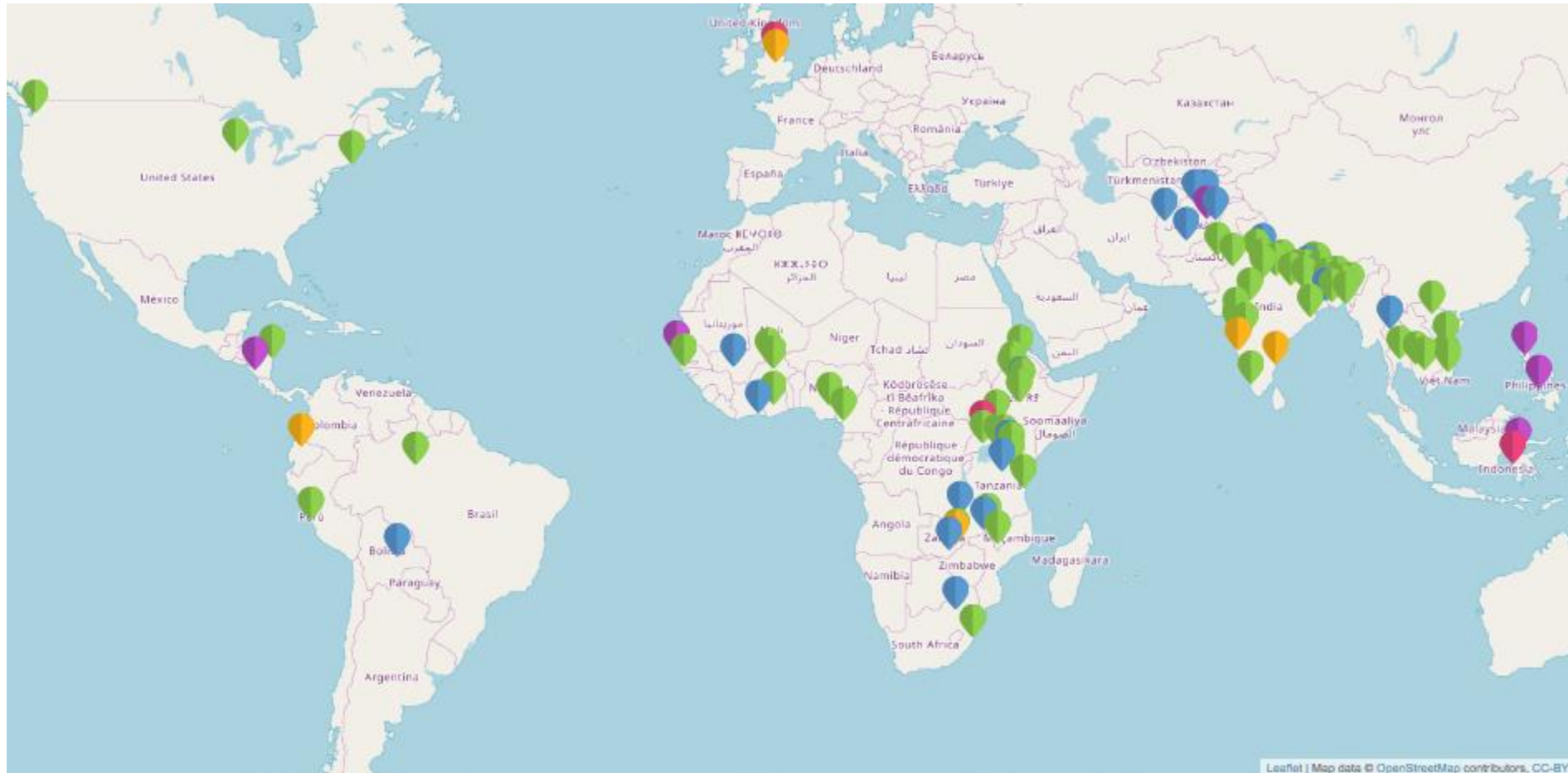


... around the globe!





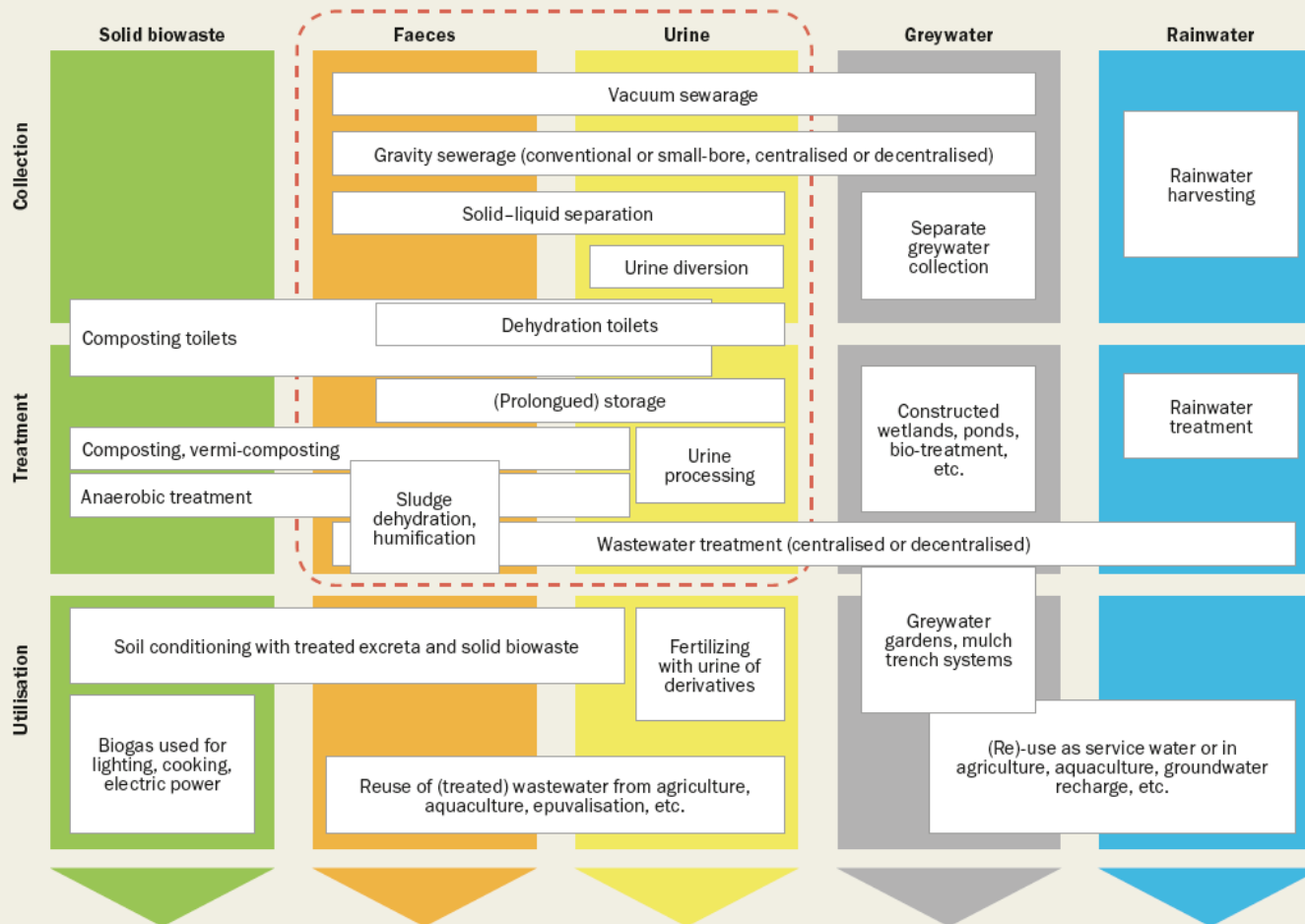
SFDs worldwide:



- Reviewed SFD
- Draft version available
- Under preparation
- Thinking
- News & Events



Fig 4: Essential technological components used in reuse-oriented sanitation systems

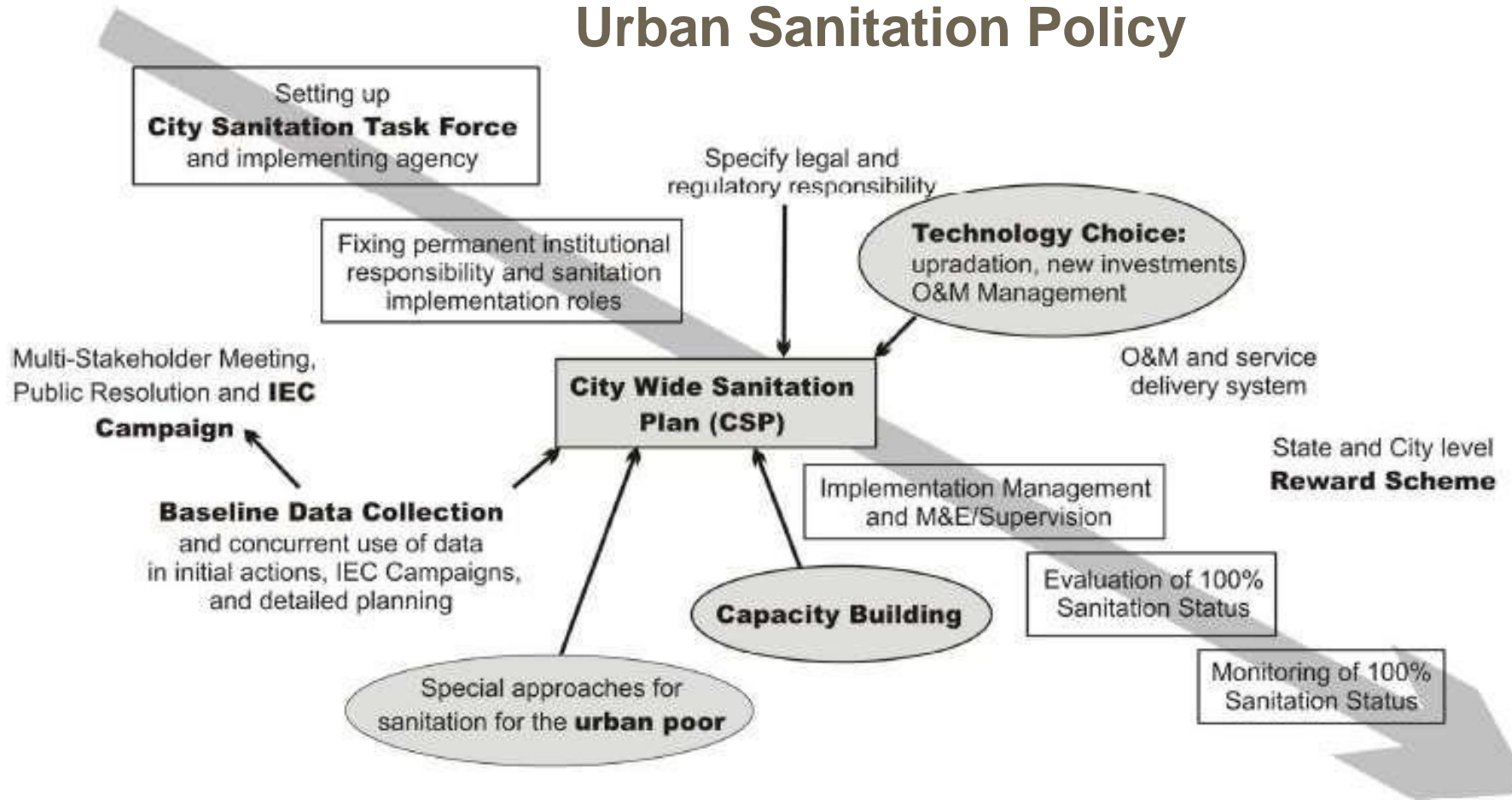


Source: adapted from reference 16: UNESCO/IHP & GTZ (2006). Capacity Building for Ecological Sanitation – Concepts for ecologically sustainable sanitation in formal and continuing education

In 2004, Florian Klingel, as advisor in the GTZ Ecosan Programme, developed an iconography to describe matter fluxes and technologies relevant to closing-the-loop sanitation approaches. The system's borders are broad and include many sectors. The SFD however, restricts its focus to the area outlined in red above



Process orientation of the Indian National Urban Sanitation Policy



(Source: National Urban Sanitation Policy MoUD 2008)

IEC= information, education, communication



City Sanitation Plan for Kochi – Strategies and Action Plan

The city sanitation plan recommends an action plan in two time horizons **Planning Horizon** spanning 30 years (2012-2041) and action horizon spanning 10 years (2012-21)



Planning Horizon (30 years: 2012-2041)

The Planning Horizon considers a period of 30 years from 2012 to 2041, and involves planning for an Intermediate Stage (2021 or 10 years) and an Ultimate Stage (2041 or 30 years). This Time Horizon is consistent with typical timeframes for planning infrastructure asset creation, and preparation of detailed project reports.

Action Horizon (10 years 2012-21)

The Action Horizon considers a period of 10 years from 2012 to 2021 and is the time frame for the actions recommended. This Action Time Horizon is further divided into actions along Short Term – (3 years) Medium Term - (5 years) and Long Term - (10 years).



This document indicates time frame for action plans in the following sectors, which will collectively help Kochi in becoming a fully sanitised city.



Access to Toilets



WasteWater Management



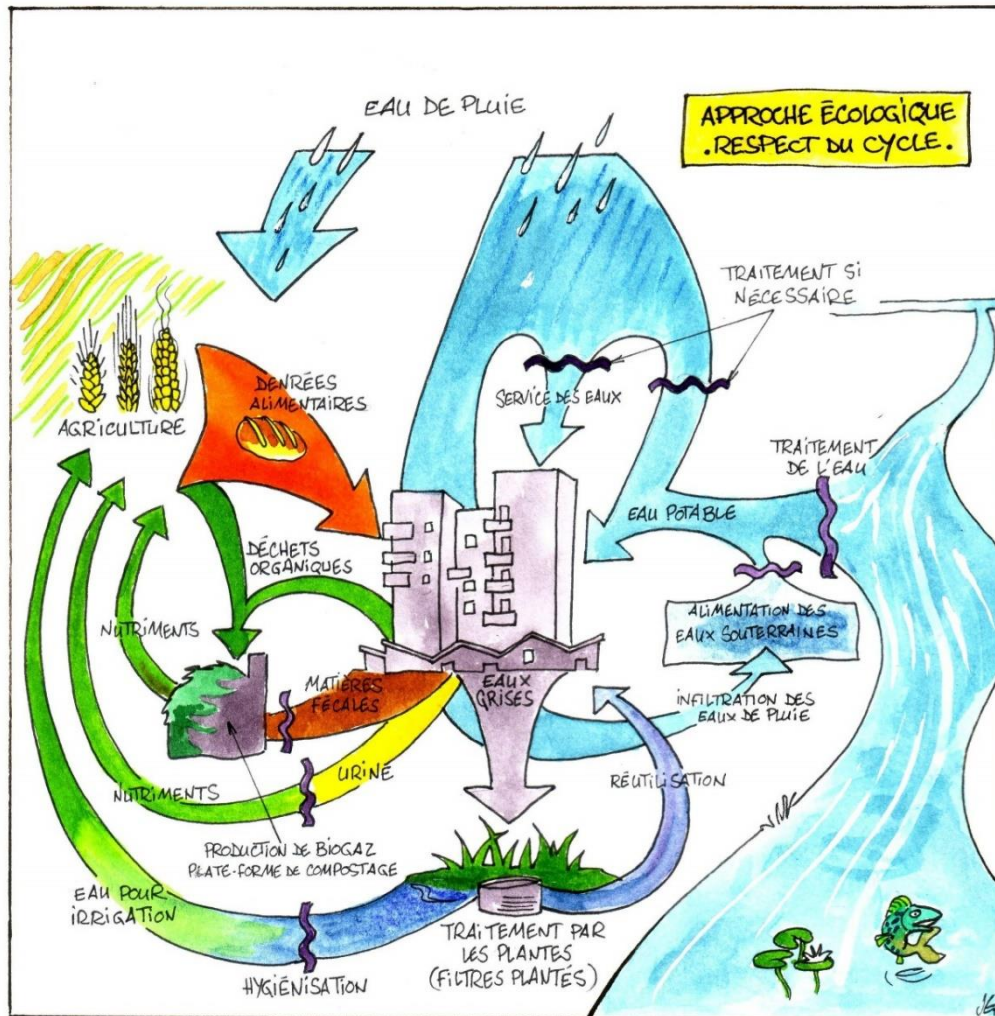
Drainage network and natural drainage



Water Supply



Solid Waste Management



- Put SFDs and FSM into the broader picture...
- ... to understand the sanitation ecosystem in the context of the 2030 Agenda
- Create and define the set of tasks and jobs along the mosaic of sanitation chains...and ... provide capacity building and funding-mechanisms for workers, planners, consultings, banks and policy makers for the whole picture