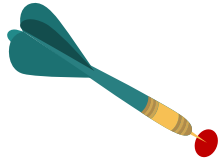


## **Part 3 – Sanitation Solutions in Practice**

### **3.3 Programming Sanitation Interventions**

**Inclusive urban sanitation – Capacity development for consultants**



Match tools and process facilitation activities to different stages of the project cycle

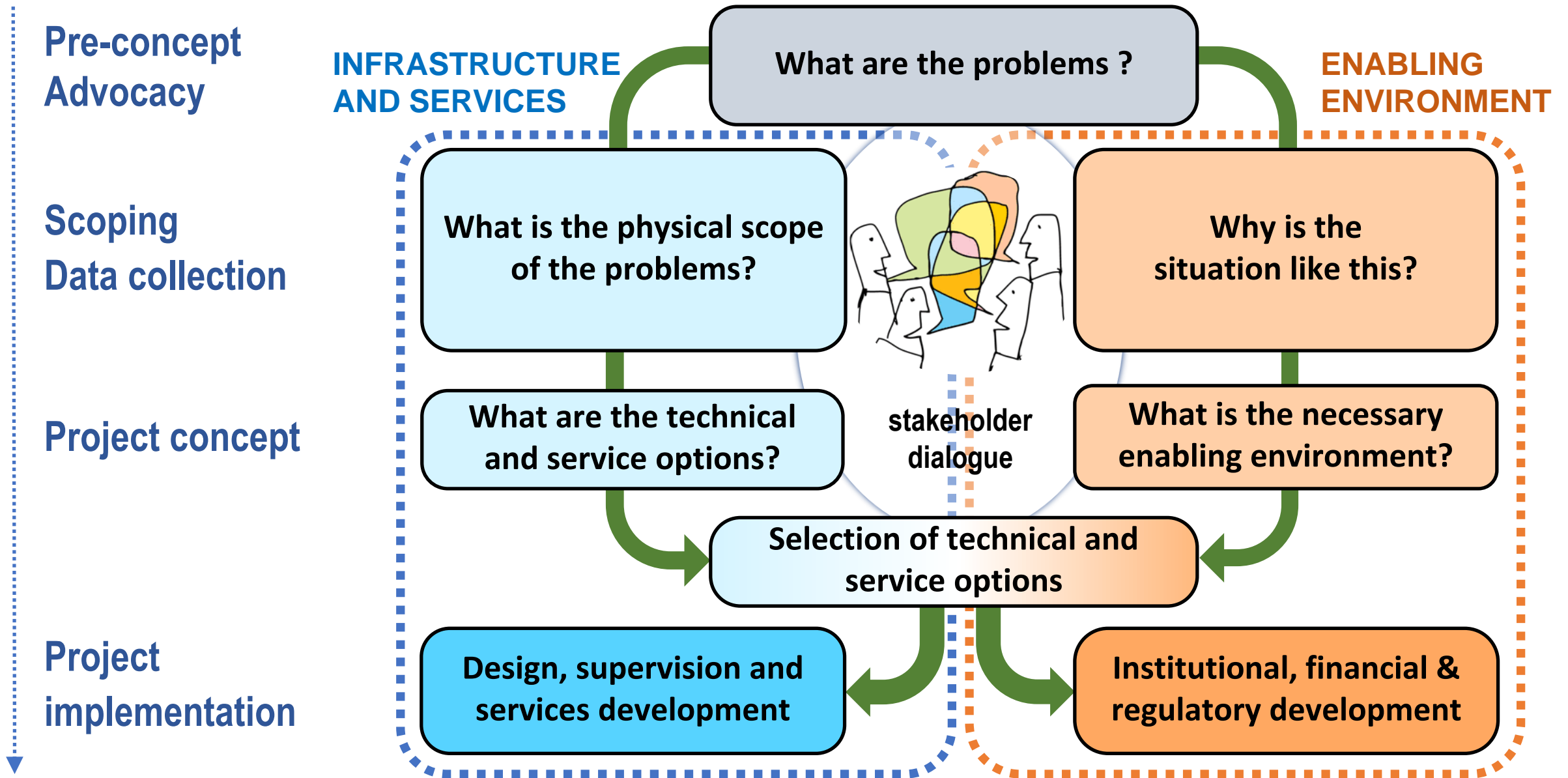
## The project cycle

- Tools to support the project process
- When and how to use the tools

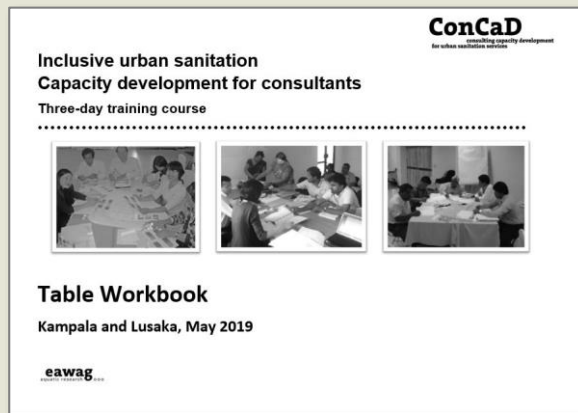
## Planning the sanitation mix over time

- Implementation packages and client support

# The project process



# Tools to support the development process



## Instructions

1. Open the Table Workbook activity 3.3-1 (pages 14 and 15) and follow instructions.
2. Open the envelope that trainer will distribute for a list of tools we've discussed, and identify any other tools you know of.
3. Place the cards where they apply on the project cycle diagram.

10 mins



# Supporting the project process

## Pre-concept, Advocacy

What are the problems ?



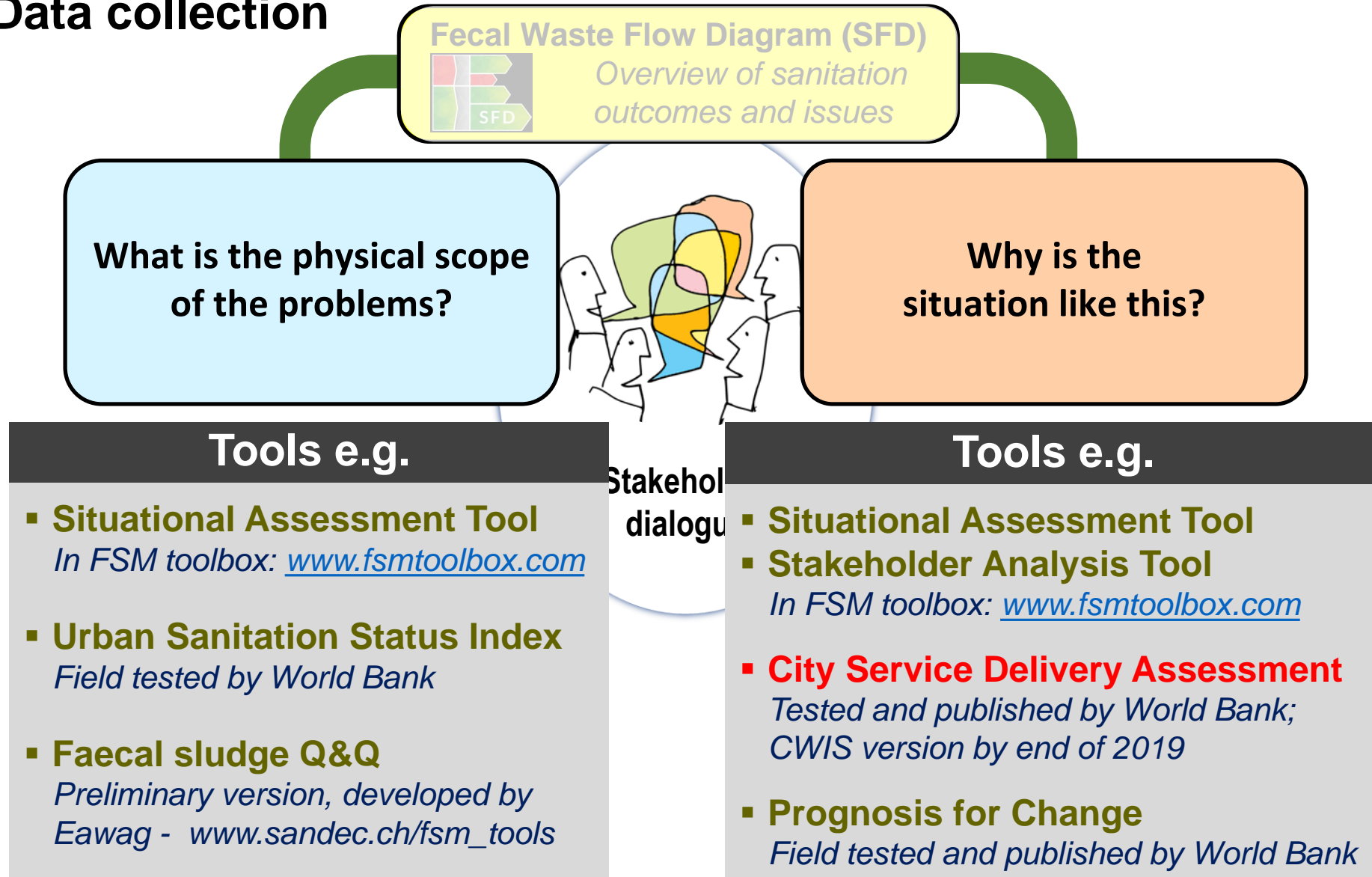
## Tool

### Faecal Waste Flow Diagram (SFD)

*Tried, tested and widely accepted. Resources and support available at: [www.sfd.susana.org](http://www.sfd.susana.org)*



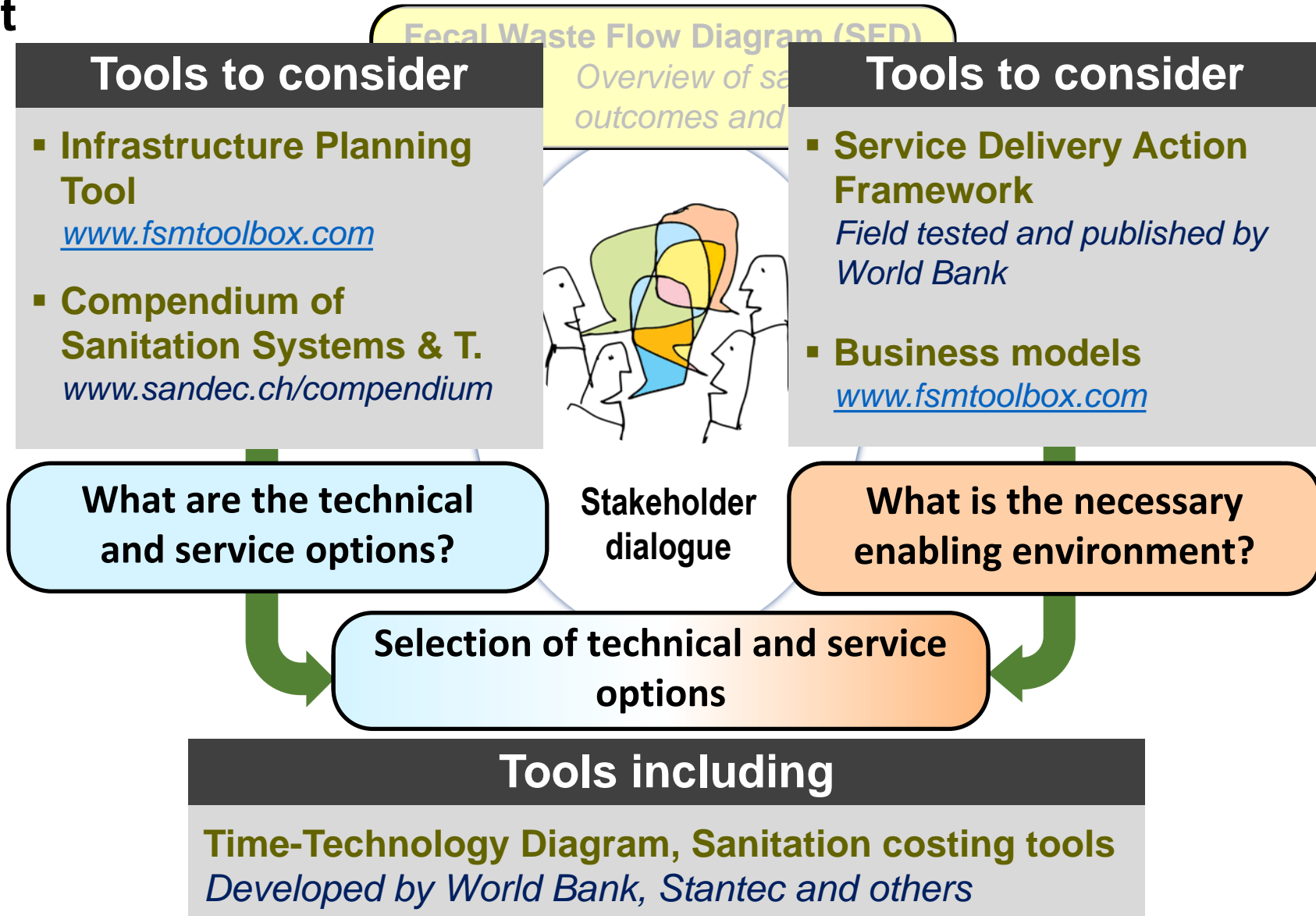
## Scoping & Data collection





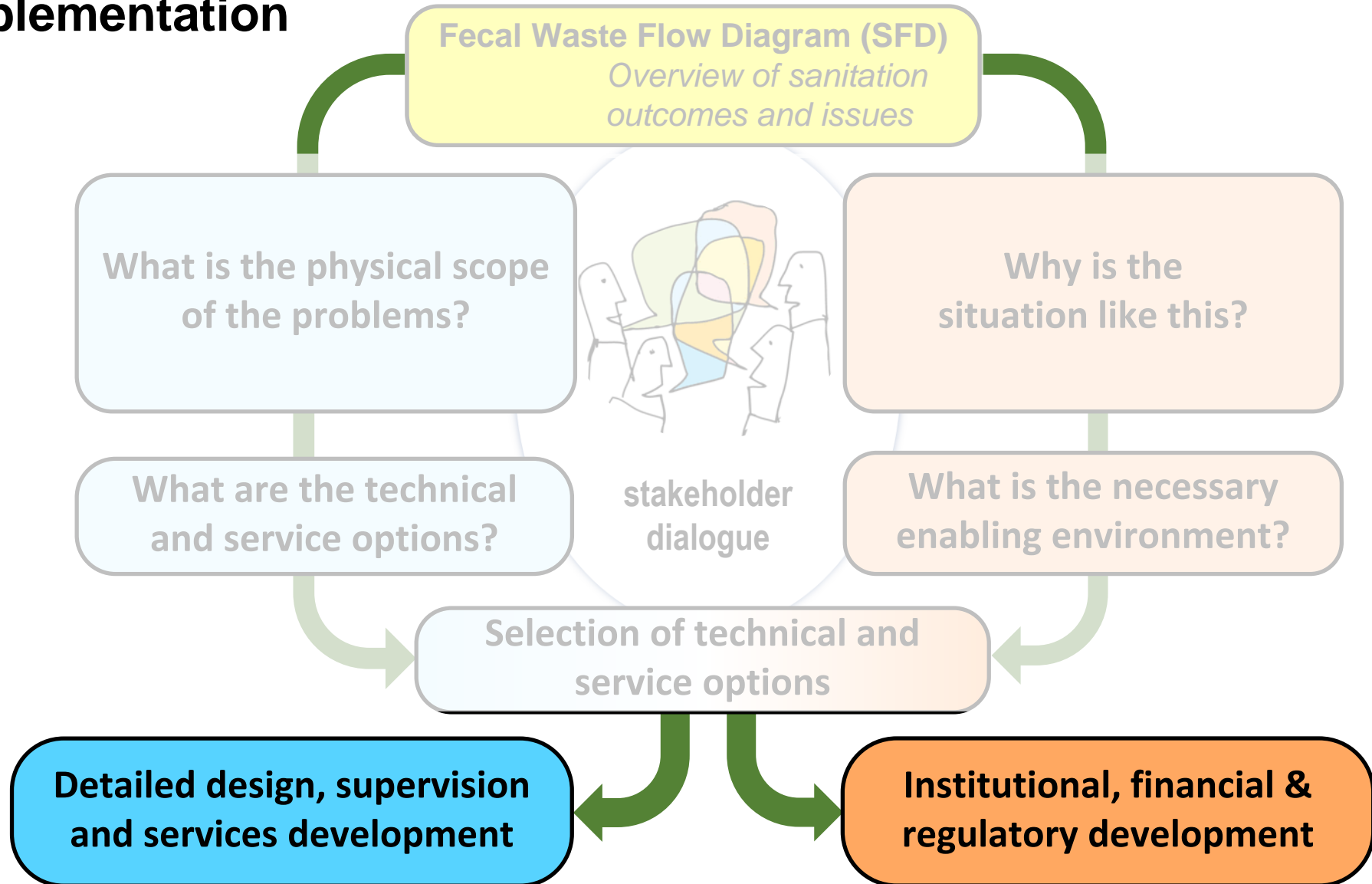
# Supporting the project process

## Project concept



# Supporting the project process..

## Design & Implementation



# Process facilitation...

## Pre-concept Advocacy

- Engage senior decision-makers
- Set up interdisciplinary team

## Scoping Data collection

- Build coalition for improving sanitation
- Build staff skills and knowledge
- Organise stakeholder validation workshop

## Project concept

- Provide Decision-support on technical options and institutional actions
- Coordinate sanitation plans with other urban services
- Organise stakeholder validation workshop(s)

## Project implementation

- Involve municipal/utility staff in design decisions
- Build institutional and regulatory capacity
- Strengthen private sector involvement

# ... for sustainable services



# When and how to use tools

## Tools help to

- guide a systematic approach
- inform dialogue with technical and non-technical stakeholders
- provide data used later for design

## Use tools thoughtfully

- when stakeholders already understand the issue
- when the process is already well underway
- adapt tools to local circumstance

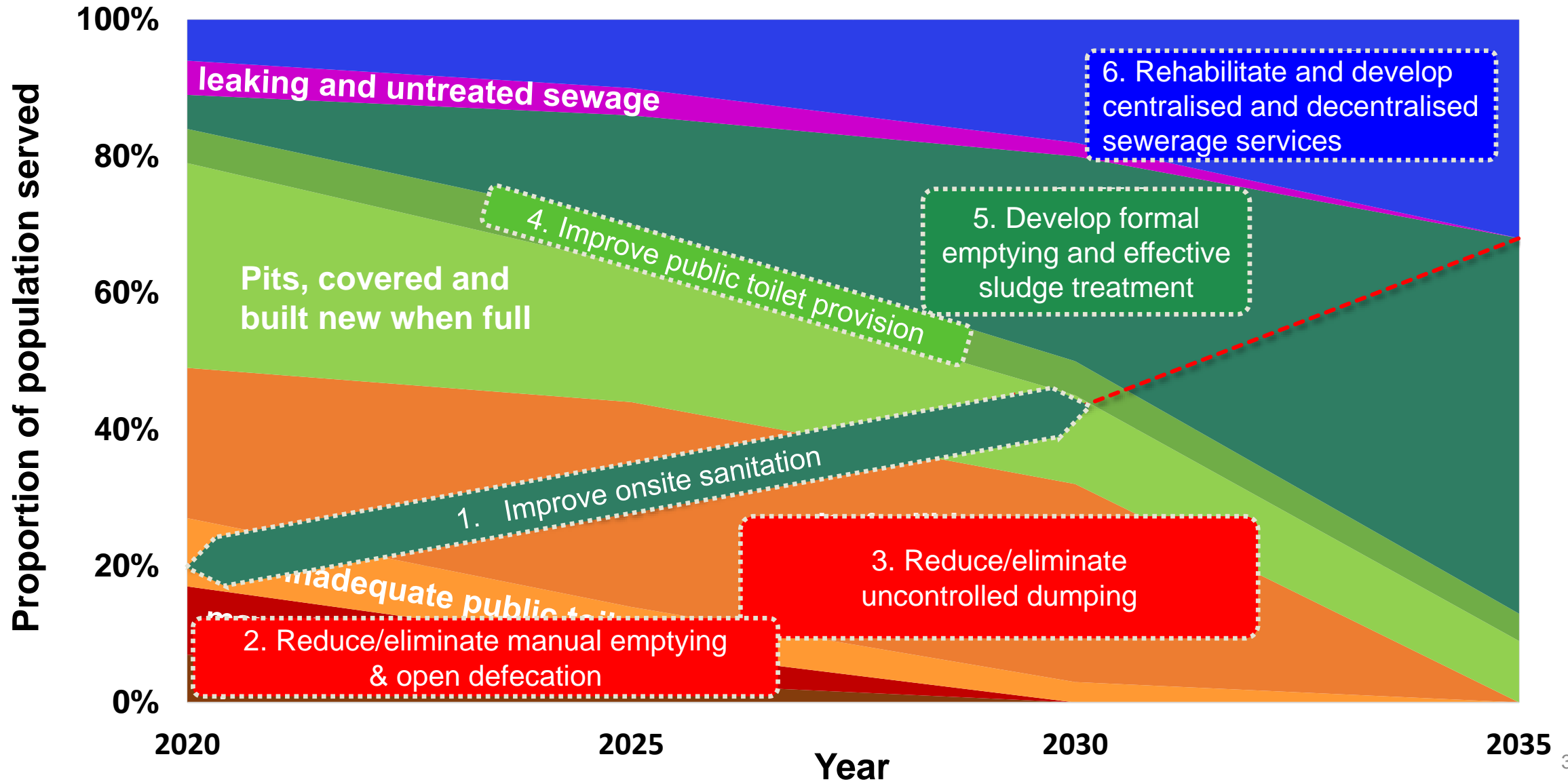
## Tools can NOT

- guarantee results
- substitute institutional and engineering judgement
- produce detailed designs



# Planning the sanitation mix over time

# Program design: Improving the sanitation mix over time





# Example of entry matrix for TTD tool

Enter projected numbers in yellow cells

## Mix of systems (stacked areas)

	2020	2025	2030	2035
Open defecation	7%	3%	0%	0%
Manual emptying	10%	5%	0%	0%
Inadequate public toilets	10%	6%	3%	0%
Onsite + dumping	22%	30%	29%	0%
Cover and rebuild	30%	20%	13%	9%
Adequate public toilets	5%	6%	5%	4%
Onsite + adequate treatment	5%	16%	30%	55%
Dysfunctional sewerage	5%	4%	2%	0%
Centralised & decentralised sewerage	6%	10%	18%	32%
<b>TOTAL</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Targets are entered in the yellow cells

Check that totals are all 100%

Enter projected numbers in pink cells

## Improved on-site toilets (line)

	2020	2025	2030	2035
Improved/emptiable onsite sanitation	19%	26%	39%	64%

Targets are entered in the pale red cells

# Time-Technology Diagram (TTD) practice



## Instructions

- On your pen drive under:
  - > Session materials, open the TTD matrix file  
*3.3 Time-Technology Diagram.xlsx*  
Adjust the terminology for your client
- Estimate the sanitation services in your city or use SFD numbers
- Make a 15 year sanitation plan – or just play with the numbers and the graph to see how it works

10 mins



# Implementation packages and client support

# Implementation packages and client support

## Infrastructure Development

OSS\* construction and upgrading

FSTP\* design and supervision

FSTP\* construction

Sewerage design and supervision

Sewerage rehab, expand, construct

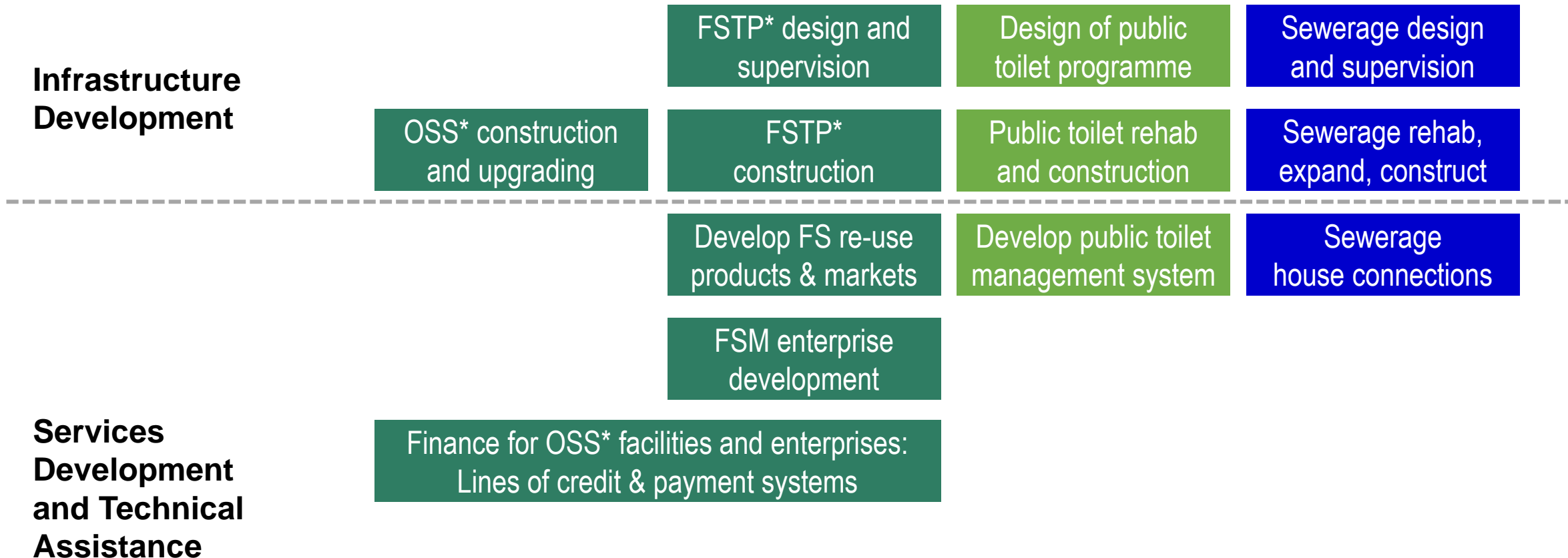
Sewerage house connections

## Services Development and Technical Assistance

\* OSS: On-site sanitation

FSTP: Faecal sludge treatment plant

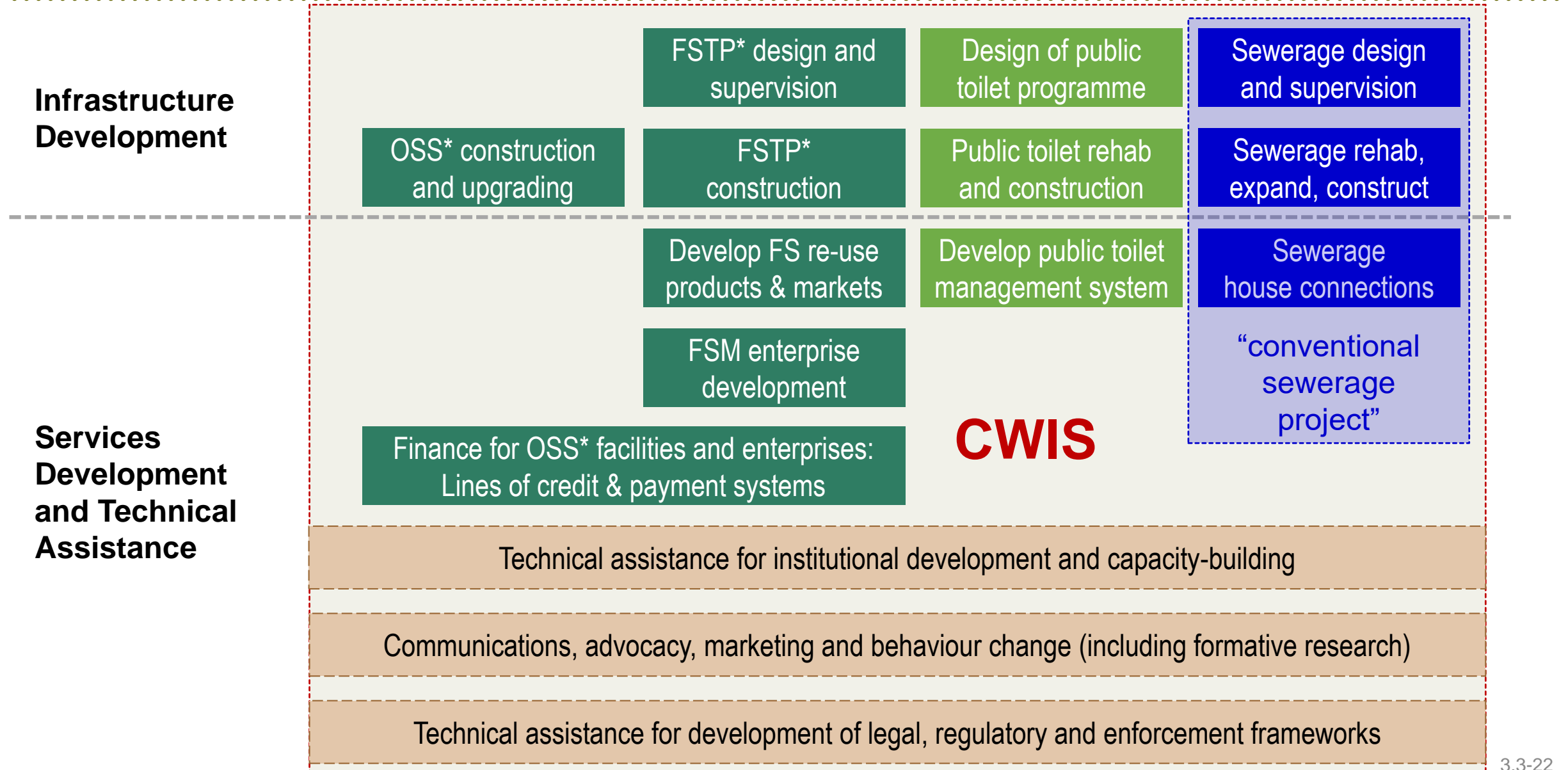
# Implementation packages and client support



\* OSS: On-site sanitation

FSTP: Faecal sludge treatment plant

# Implementation packages and client support



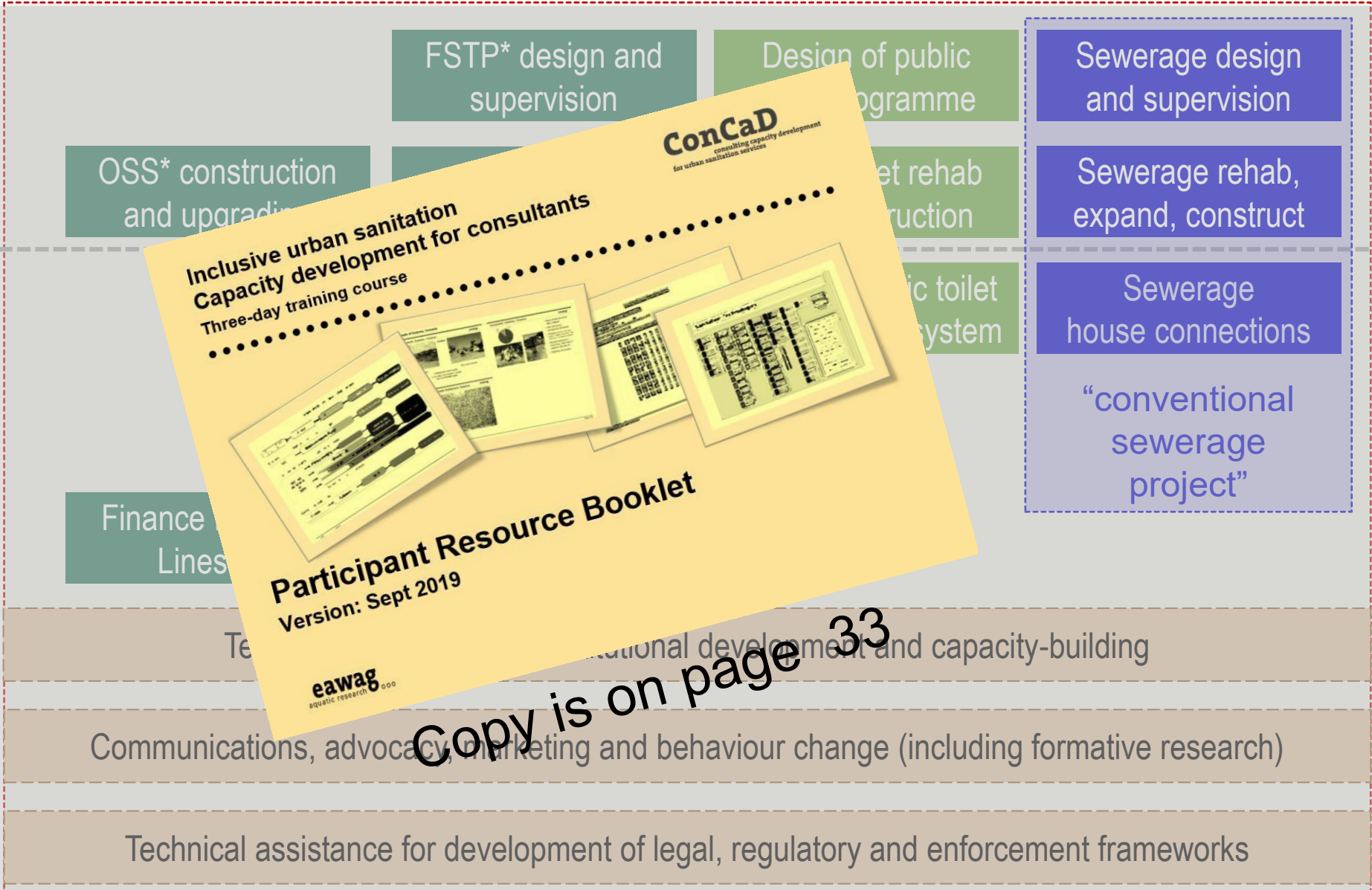
\* OSS: On-site sanitation

FSTP: Faecal sludge treatment plant

# Implementation packages and client support

**Infrastructure Development**

**Services Development and Technical Assistance**



\* OSS: On-site sanitation

FSTP: Faecal sludge treatment plant

- **Infrastructure** and an **enabling environment** are the two strands of CWIS
- Specific **facilitation** and **client support activities** are needed at each stage, and a range of tools to support them
- **Tools** can be very useful, but need adaptation and thoughtful use in local circumstances
- Use a **Time-Technology Diagram** to show how different components work together to improve sanitation city-wide
- CWIS demands many more **components, skills** and **client support** than a sewerage project





*Faecal Sludge Management ToolBox*  
<http://www.fsmttoolbox.com>



*Faecal Sludge Management Tools*  
New World Bank website (not yet on-line)

*Time-Technology Diagram:* On your pendrive under workshop materials