



**Environmental
Finance**

Enabling investment into Conservation, the Environment and Communities at scale

Financing Green Infrastructure for Flood Mitigation

Submission to The Lab

Wednesday, 19th December 2018



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Summary of SUDS Mechanism

Status Quo



Traditional grey infrastructure

“India’s largest cities have centralized sewage systems, complete with underground pipes, pumping stations, and treatment plants. However, these systems are expensive to build and to operate, requiring uninterrupted power, skilled operators, and extensive maintenance. As a result, according to India’s Central Pollution Control Board, fewer than half of them work effectively.”

– [Anurag Chaturvedi, 2017](#)

“in Mumbai, there are three different departments within the Bombay Municipal Corporation looking after stormwater drainage, sewerage and solid-waste management. Most of the solid waste is thrown openly into the storm drains, and sewers often overflow into the storm drains.”

– [Kapil Gupta, 2005](#)

Improved Flood Mitigation



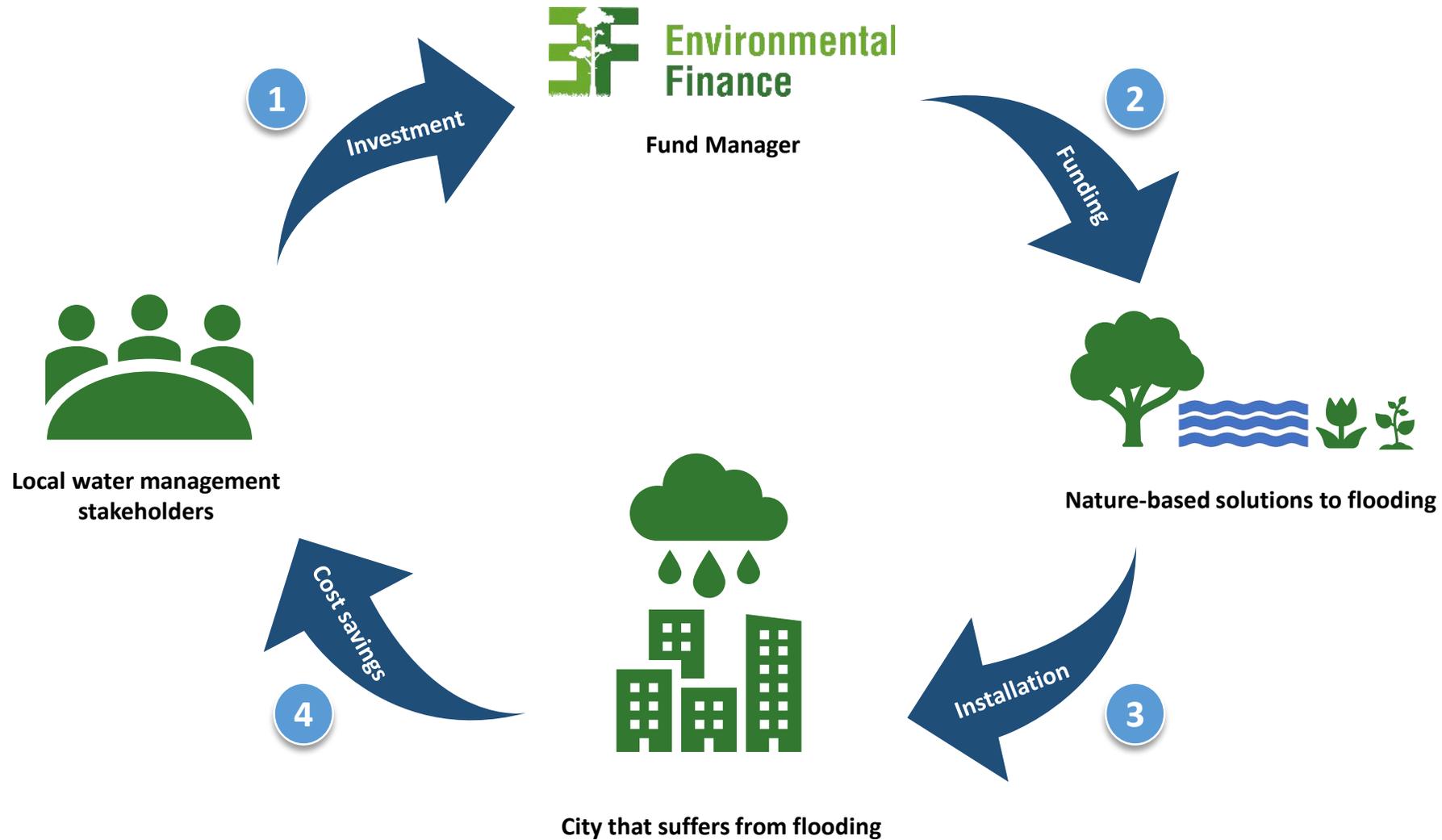
Green and blue infrastructure

“Using natural bacteria, plants and gravity instead of electricity and chemicals, [...] is ideal for India where electricity is not reliably available and skilled manpower is hard to come by. It is also very easy to integrate aesthetically into built environments and is adaptable to a variety of wastewater characteristics.”

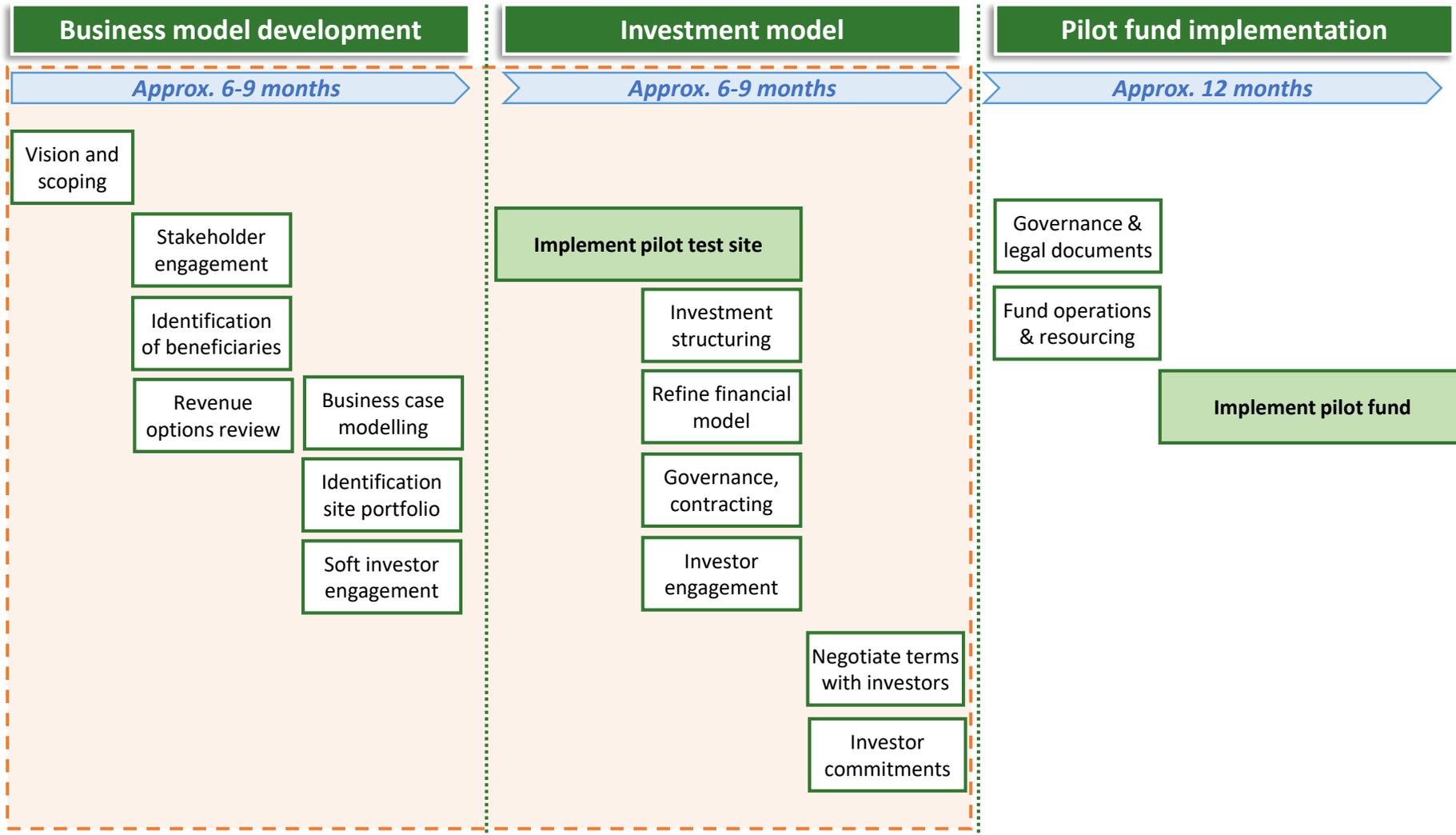
– [CDD website](#), on the function of DEWATS™

- 80% Lower O&M costs than comparable technologies
- No electricity required
- No chemicals added
- Integrated with landscaping
- Produces biogas and nutrient-rich water that are re-usable
- Capacity 1,000 - 1 Million liters per day (1-1,000 KLPD)

SUDS Financing Model



SUDS Pilot Fund Timeline





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