Setting the Scene for Integrated Business Models throughout the Sanitation Value Chain with Safe Resource Recovery and Reuse

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Resources are getting scarce

e.g. Water, Fossil fuels, Phosphorus

Phosphorus runs out and contributes to...

...unstable food prizes

Source: World Bank Commodity Price Data
In Sanitation the way we waste resources sometimes spoils remaining resources (e.g. by contaminating the urban environment and water resources)
Informal reuse of wastewater and excreta is a large scale reality today…

… and this seminar responds in two ways to this:
Reuse of wastewater/excreta is a large scale reality

... so let us make it safe!

It is about relative risk!
Reuse of wastewater/excreta is a large scale reality
... so let us understand the business case!
following the fate of excreta

Containment → Emptying → Transport → Treatment → Reuse/disposal

- WC to sewer
- On-site facility
- Open defecation

Leakage

Not effectively treated → Effectively treated

Legally dumped → Illegally dumped

Safely emptied → Unsafely emptied → Safely abandoned when full

Residential environment → Drainage system → Receiving waters

Treatment

Reuse/disposal
Thank you!