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Asia Water Forum 2022

8–11 August 2022 • Online

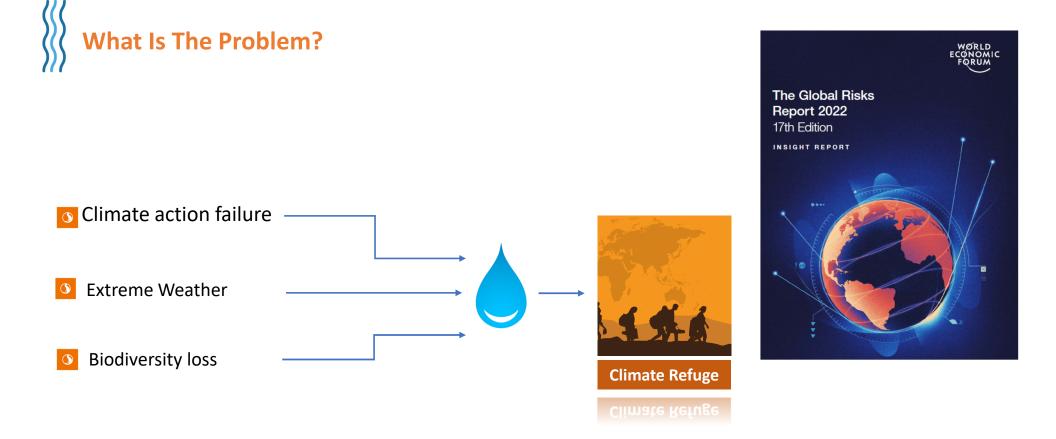
Focus Area: Productive water in agriculture and the economy Session Title: Circular Economy- Asset Management and the Water Sector

Schedule: [10 August 2022 | 11:00 am (GMT+8)]

Neslihan Sönmez Regional Business Development Manager- Stantec UK







WATER CONNECTS, IT DOESN'T SEPARATE.

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WHAT MANIFESTS ITSELF AS A REGIONAL OR LOCAL CRISIS QUICKLY BECOMES A GLOBAL PROBLEM.





Current State

CAPEX

New Build

Designed to Build

Develop Projects to Deliver Outputs

Separate Client and Supply Chain

Own Industry Best Practice

Asset Centric

Linear Delivery Model

Fragmented Data

Multi Stakeholder Relationships

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Future State
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TOTEX

New Build vs. No Build

Designed to Operate

Develop Solutions to Deliver Outcomes

Integrated and co-located Client and Supply Chain

Other Industry Best Practice

Customer Centric

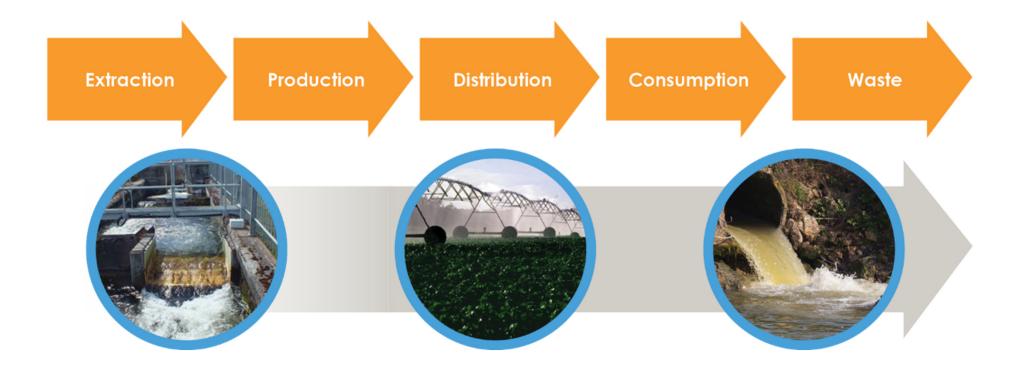
Circular Model

Consolidated Data Management

Multi Stakeholder Partnerships



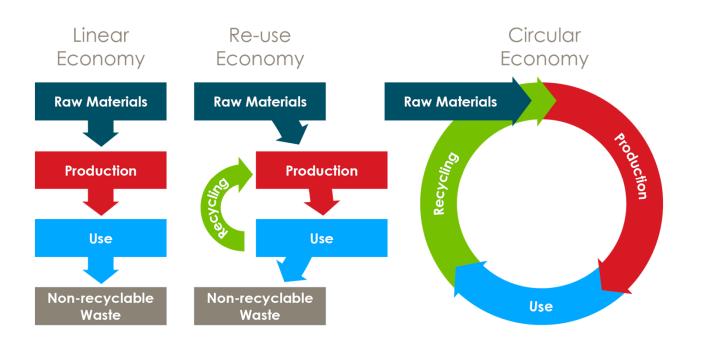






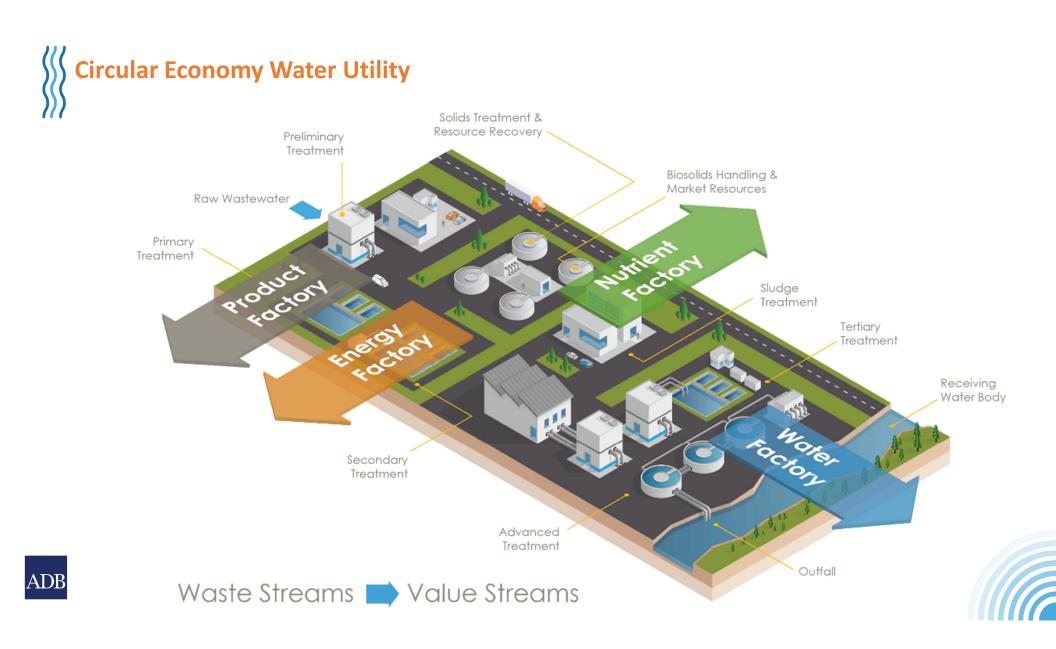


- 1. Circular supplies
- 2. Resource recovery
- 3. Product life extension
- 4. Secondary markets
- 5. Product as service











Treated sewage effluent (TSE):

- Direct use
- Agricultural irrigation
- Urban landscaping

Sewage sludge (biosolids):

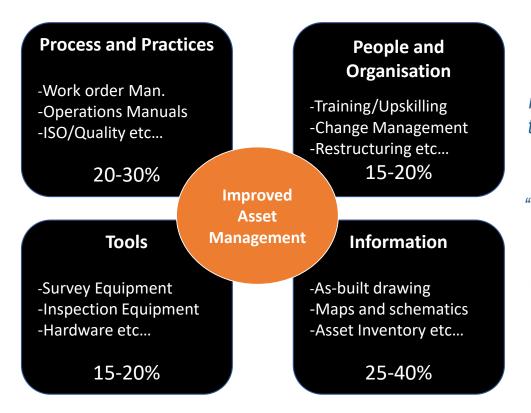
- Agricultural or restorative land improvement product
- Recover energy
- Produce biofuels
- Reclaim nutrients







Asset Management Improvements don't come from Software Alone!



"Systematic and coordinated activities and practices through which an organization optimally and sustainably manages its assets and asset systems, their associated performance, risks and expenditures over their life cycles ..."



PAS55 ISO55000

"... strategic approach to the process of maintaining, upgrading and operating physical assets with the objective of providing the required Level of Service in the most cost-effective manner."



International Infrastructure Management Manual

ADB

ASSET MANAGEMENT IS ABOUT IMPROVING SERVICE DELIVERY



Where are Utilities finding Value from Asset Management?

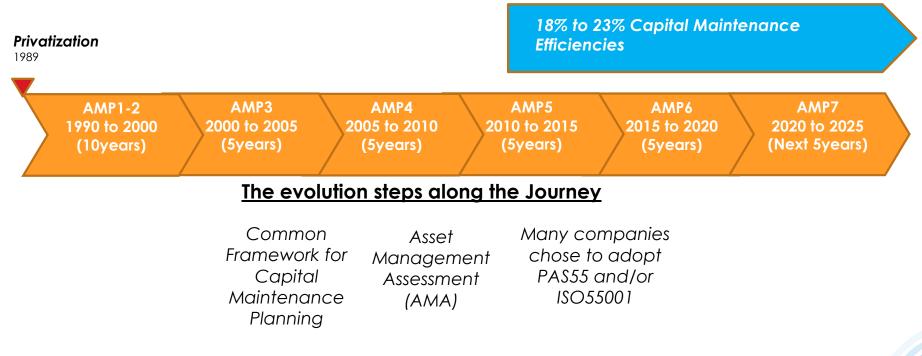


Source: Water Infrastructure Asset Management Study (2012)





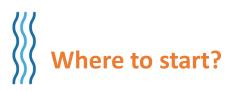




YOU CAN'T ACHIEVE VALUE IN A SINGLE STEP









"Introduction to Asset Management" scope can be included to consulting services under water/ wastewater infrastructure projects.



Pilot project can be implemented.



Capacity building and awareness raising activities can be delivered.



Asset Management Programme can be developed.



ASSET MANAGEMENT IS A BUSINESS TRANSFORMATION APPROACH

