The Role Standards and Technology Certification Platforms in FSM Application

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Mehr Wert.
Mehr Vertrauen.

Add value.
Inspire trust.

Normal Loading Pattern (Faeces)

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ISO Standards for Water and Sanitation

Drinking water supply, wastewater and storm water systems

- ✓ ISO/TC 224
  - ➢ ISO 245-XX series

Sludge management

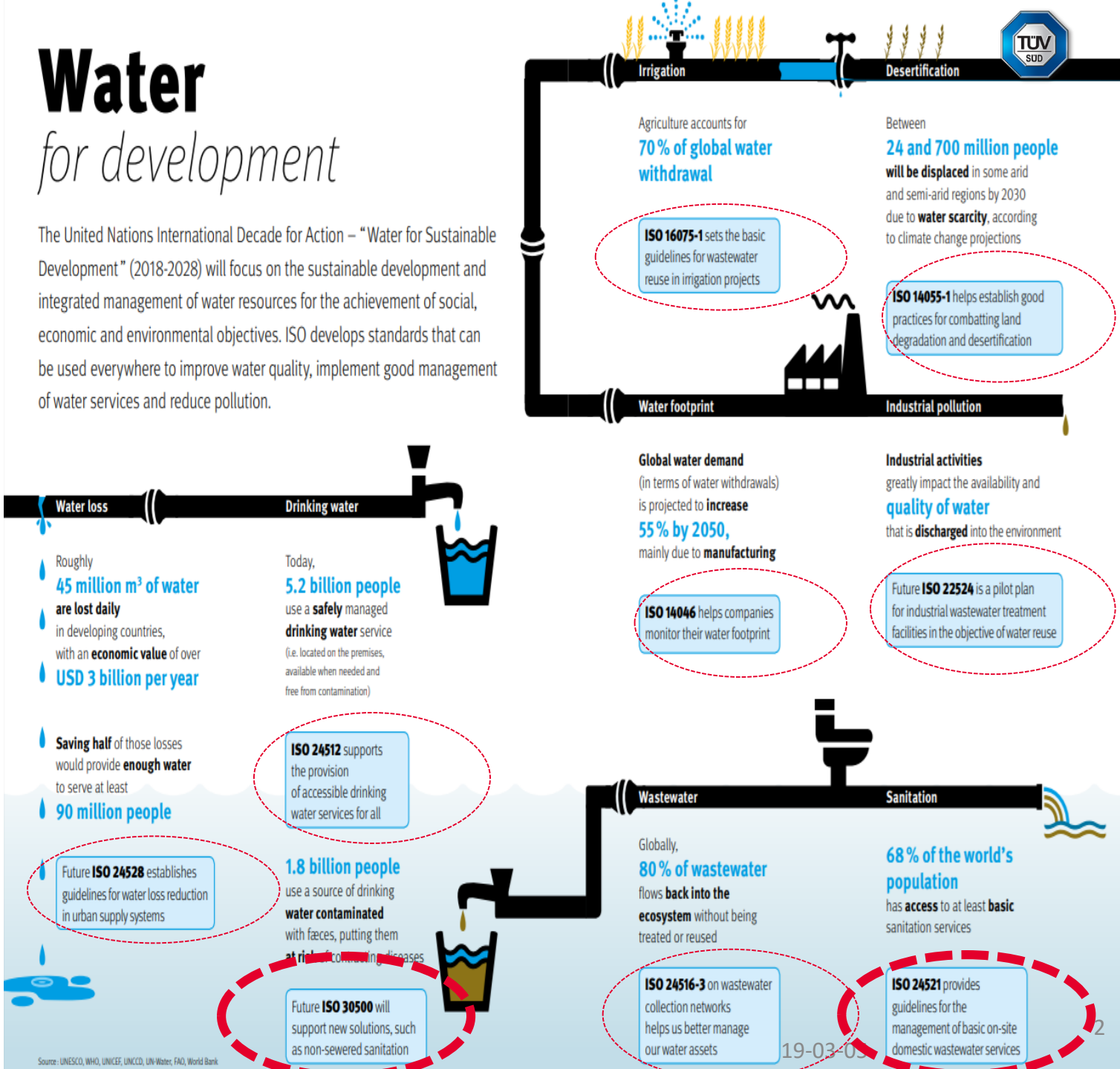
- ✓ ISO/TC 275

Water reuse

- ✓ ISO/TC 282 series

Sanitation and Treatment

- ✓ ISO 30500
- ✓ ISO/PC 318 (mid 2020)



Standards in Focus

ISO 24521
ISO 30500
ISO/CD 31800

Non-sewered/onsite sanitation systems

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ISO Standards in Focus

ISO 24521:2016

Activities relating to drinking water and wastewater services -- Guidelines for the management of basic on-site domestic wastewater services

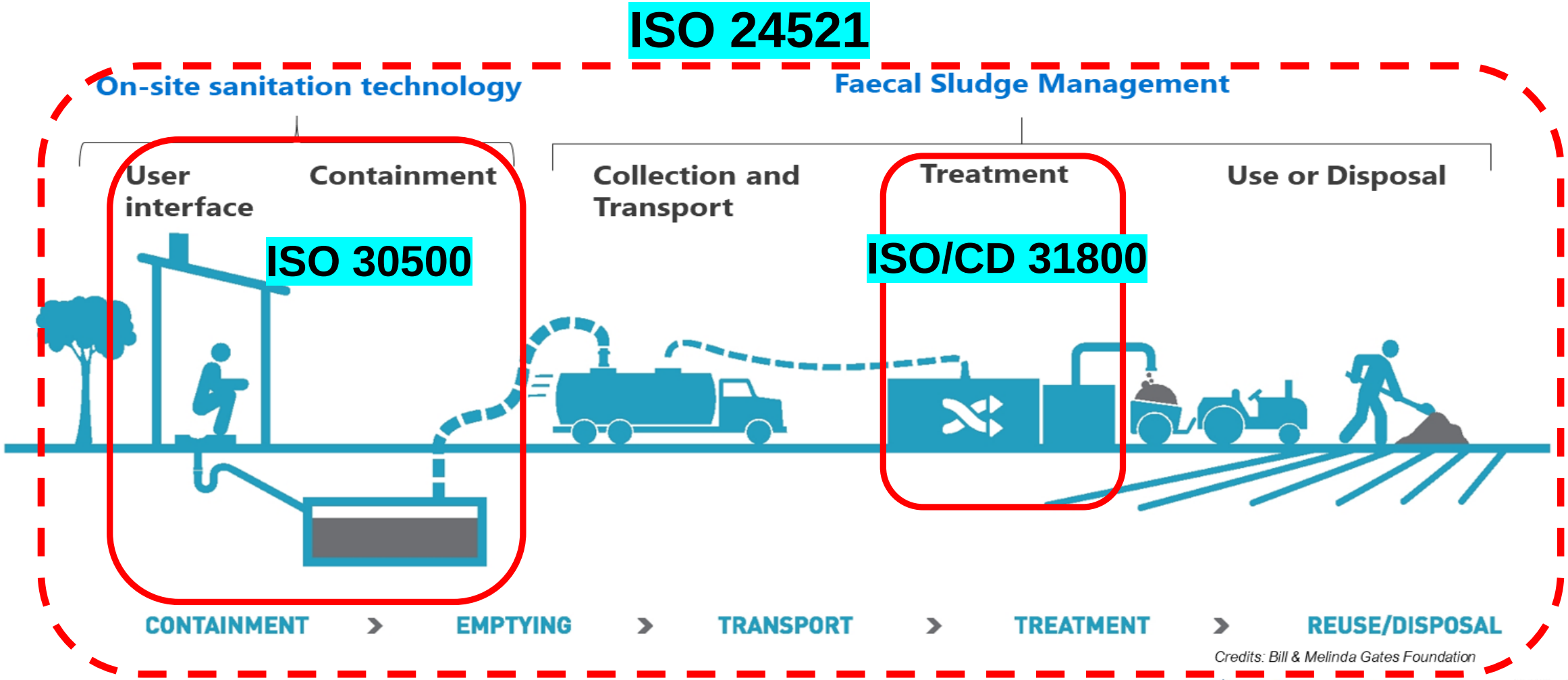
ISO 30500:2018

Non-sewered sanitation systems — Prefabricated integrated treatment units — General safety and performance requirements for design and testing

ISO/CD 31800 or ISO/PC 318

Faecal sludge treatment units – Energy independent, prefabricated, community-scale, resource recovery units – Safety and performance requirements (mid-2020 publication)

Sanitation Value Chain & ISO Standards



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ISO 30500 & ISO/CD 31800 - Safety and performance requirements

Performance requirements of the system are given for:

- Solid discharges
- Liquid discharges
- Odour
- Air emissions
- Noise emissions

And contains criteria for:

- Safety
- Functionality
- Usability
- Reliability
- Resource recovery
- Energy independent
- Pre-fabricated

ISO 24521 - Guidelines for the management of basic on-site domestic wastewater services

Guidelines are given for requirements of the system are given for:

- Protection of users and operators
  - Collection
  - Transport
  - Treatment
  - Disposal/Reuse

- Operation and Maintenance
  - Development of plans and instructions

- Management of onsite systems
  - Financial & assets sustainability
  - Environmental management
  - Risk management

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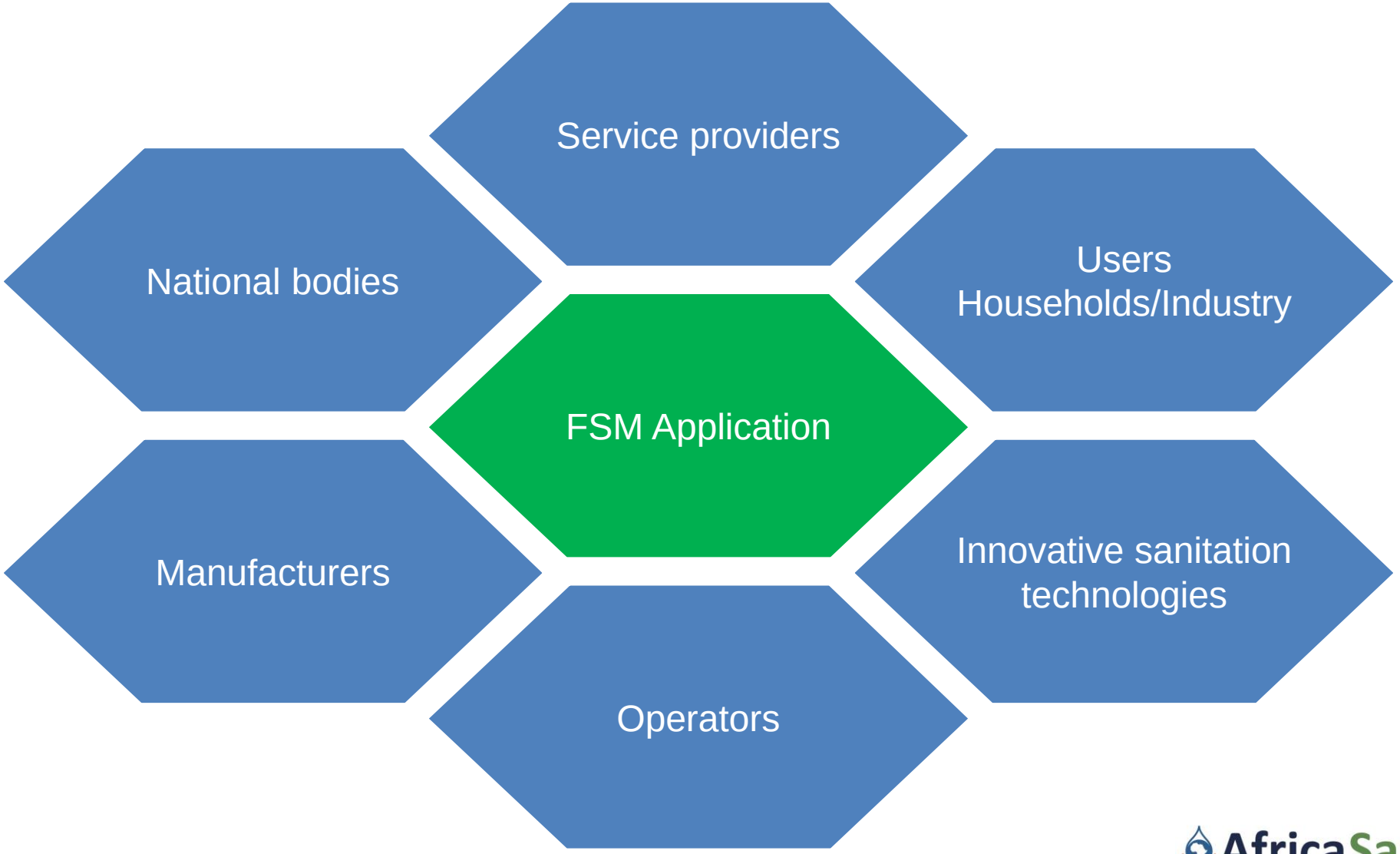
The Role of Standards



Certification Testing Centers

- Durban, South Africa
- China
- India
- Singapore

What's Next?

- Speak to local national body or
- Come to the standards workshop tomorrow from 9 -12pm (free admittance and lunch!)
- Set up a sub-group within the FSM Alliance for standards

Conclusion

- Save time and $$

- Awareness raising, capacity building, and partly local adaptation is still required

- Adoption of non-traditional sanitation technologies, with their risk of human, environmental impact, could benefit from a standards driven approach

Thank you

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