

The Role Standards and Technology Certification Platforms in FSM Application

Mei Yee Chan

WASH Programme Manager

TÜV SÜD Singapore

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Mehr Wert.
Mehr Vertrauen.

Add value.
Inspire trust.

Normal Loading Pattern (Faeces)

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

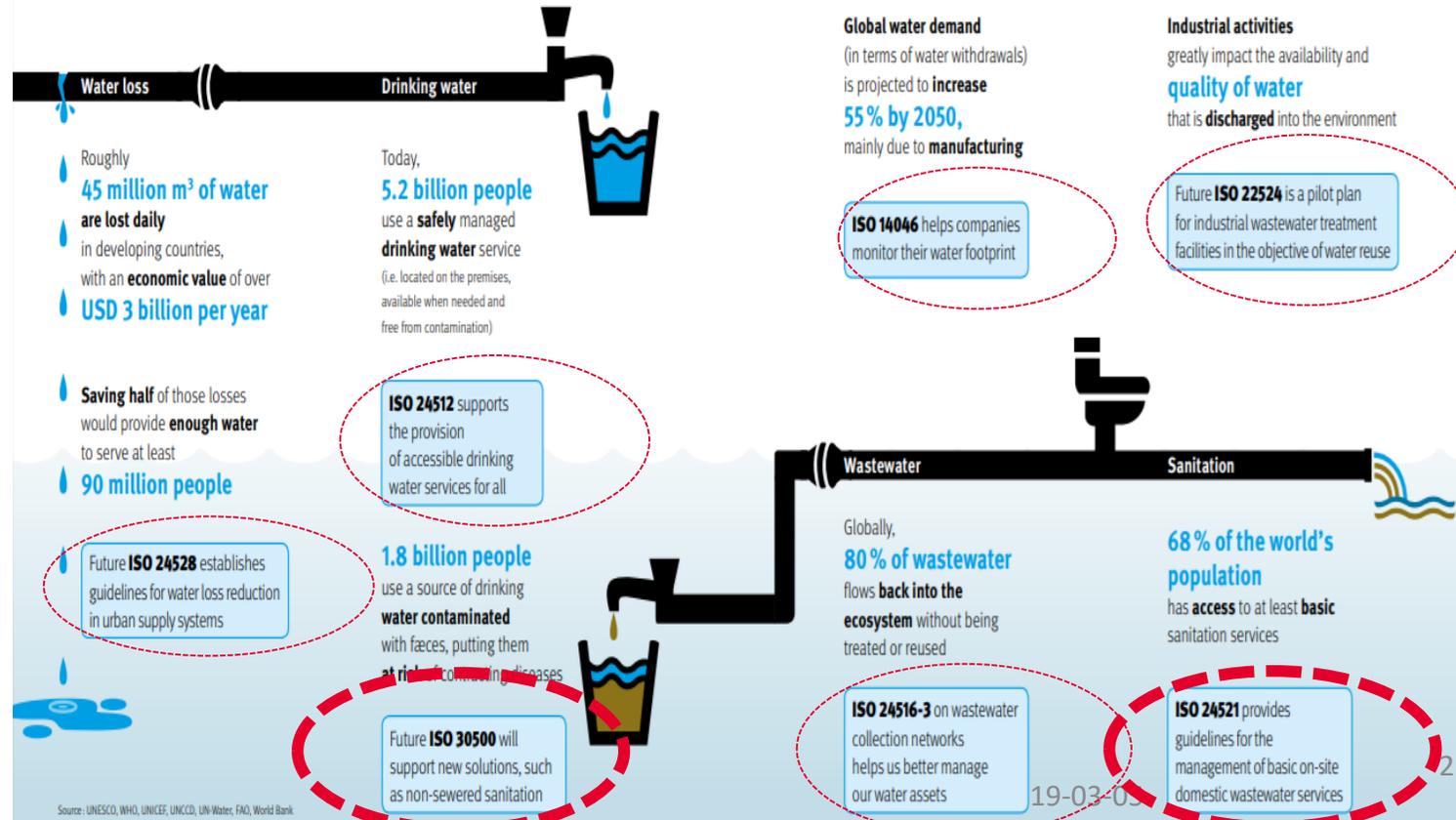
- ✓ ISO/TC 282 series

Sanitation and Treatment

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

Water for development

The United Nations International Decade for Action – “Water for Sustainable Development” (2018-2028) will focus on the sustainable development and integrated management of water resources for the achievement of social, economic and environmental objectives. ISO develops standards that can be used everywhere to improve water quality, implement good management of water services and reduce pollution.





Standards in Focus

ISO 24521

ISO 30500

ISO/CD 31800

Non-sewered/onsite sanitation systems

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

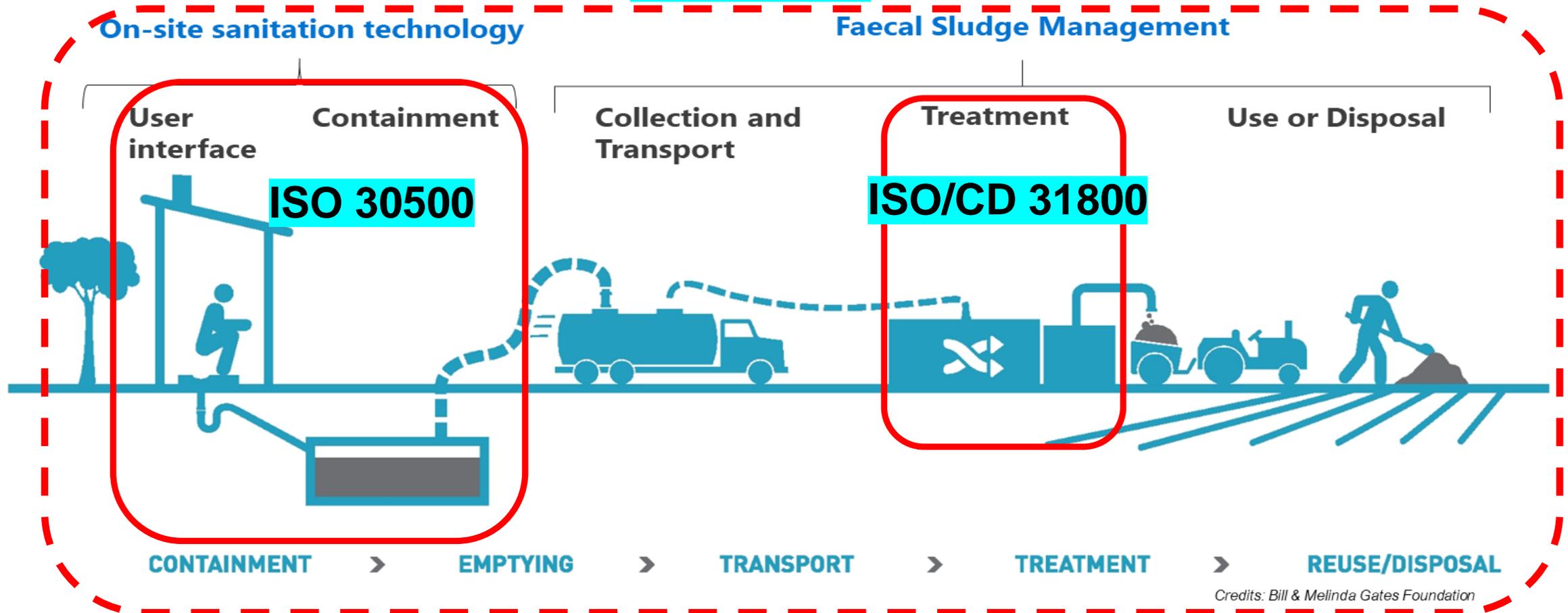


ISO/CD 31800 or ISO/PC 318

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

Sanitation Value Chain & ISO Standards

ISO 24521



Credits: Bill & Melinda Gates Foundation

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



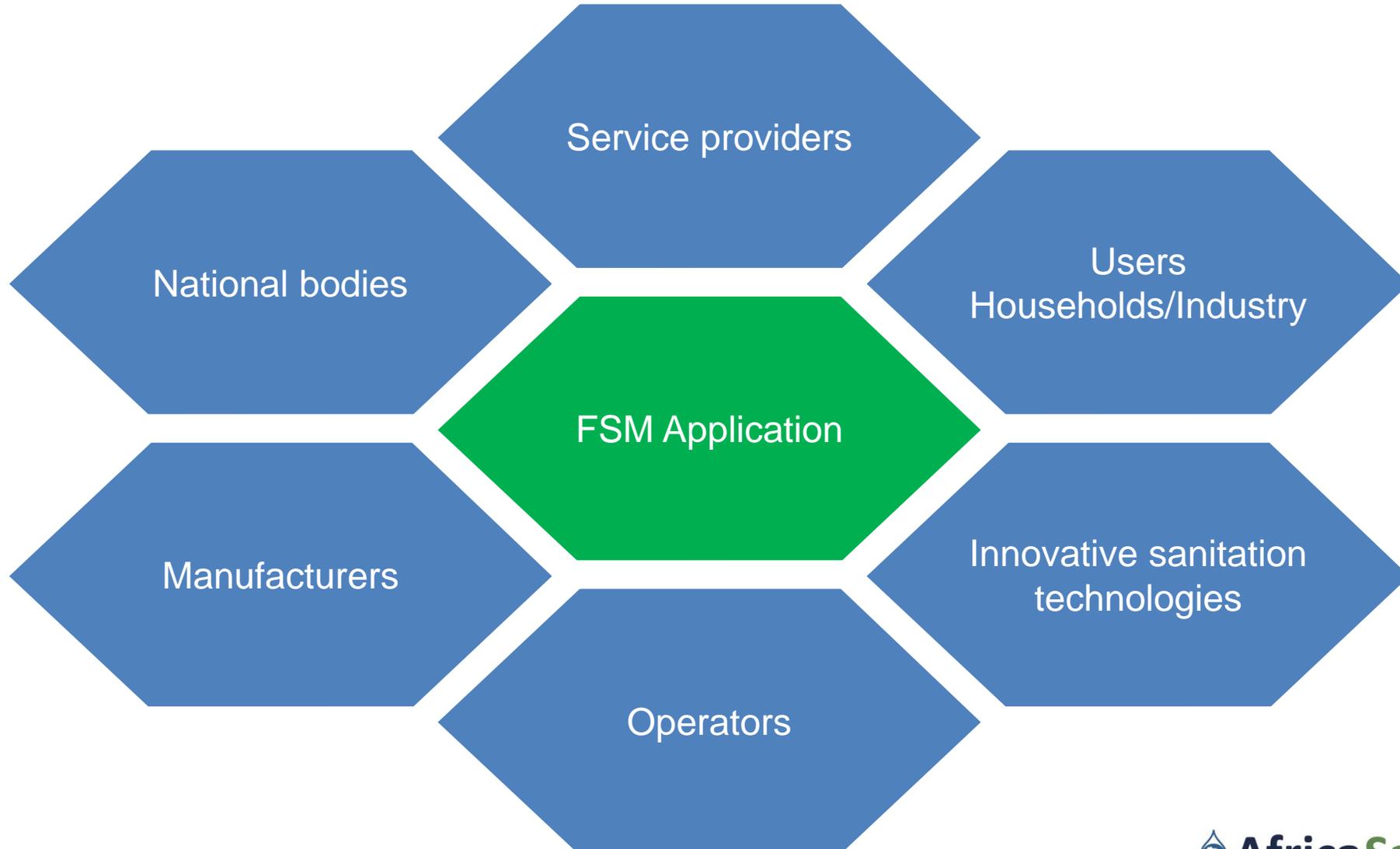
ISO 24521 - Guidelines for the management of basic on-site domestic wastewater services

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



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

WHAT HAPPENS NEXT? STEPS TO TAKE AFTER RECOGNIZING INTERNATIONAL NON-SEWERED SANITATION STANDARDS

FRIDAY, FEBRUARY 22, 2019 · 9:00AM – 12:00PM
THE WESTIN CAPE TOWN, SEAL/ROBBEN ROOM

Space is limited. Seating is available on a first come, first served basis.

THIS HALF-DAY WORKSHOP WILL...

Provide brief, non-technical background on ISO 30500 & ISO 24521

- ISO 30500: Non-sewered sanitation systems – Prefabricated integrated treatment units– General safety and performance requirements for design and testing (Product standard)
- ISO 24521: Activities relating to drinking water and wastewater services—Guidelines for the management of basic on-site domestic wastewater services (Services standard)

Outline a national standards body review process, lab & testing capacity

Describe ISO 30500 testing, conformity assessment & certification

Share insights from a national sanitation implementer

YOU SHOULD ATTEND IF YOU...

Have questions about nationally adopting non-sewered sanitation (NSS) standards in your country

Want to understand challenges and ways forward with NSS implementation

Want to learn how to certify a product

Want to learn how ANSI and partners can assist with your sanitation needs

Are interested in being an ANSI partner

Presenting organizations:

American National Standards Institute (ANSI) · TÜV SÜD · South African Bureau of Standards (SABS) · National Sanitation Office of Senegal (ONAS)

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

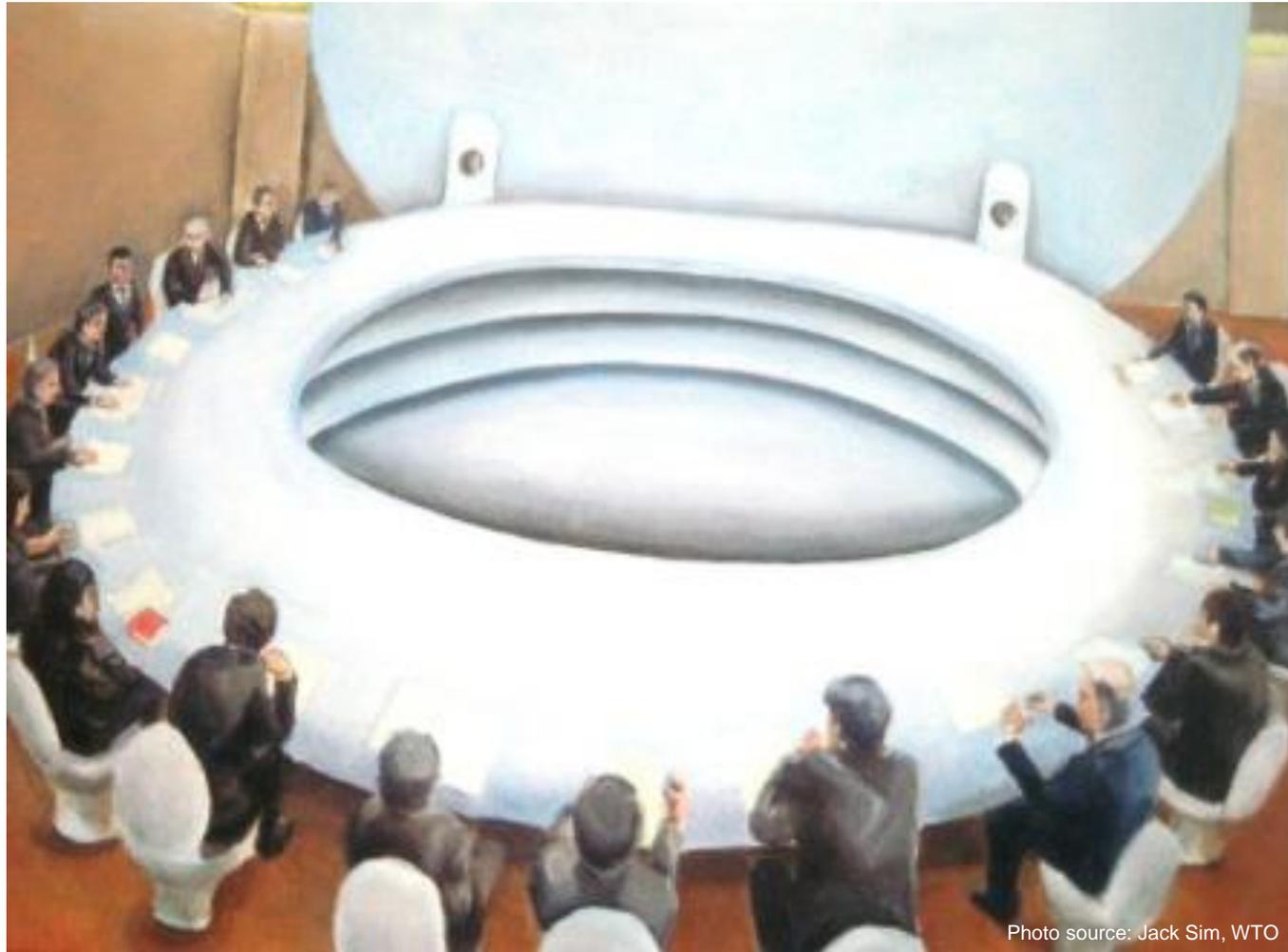


Photo source: Jack Sim, WTO

Thank you



Chan Mei Yee
Programme Manager,
Water Sanitation and
Hygiene
TÜV SÜD Water Services
Mei-Yee.CHAN@tuv-sud.sg