



Guidance for Professional Drilling – Overview –

Jose Gesti & Kerstin Danert

UNICEF / Skat Foundation



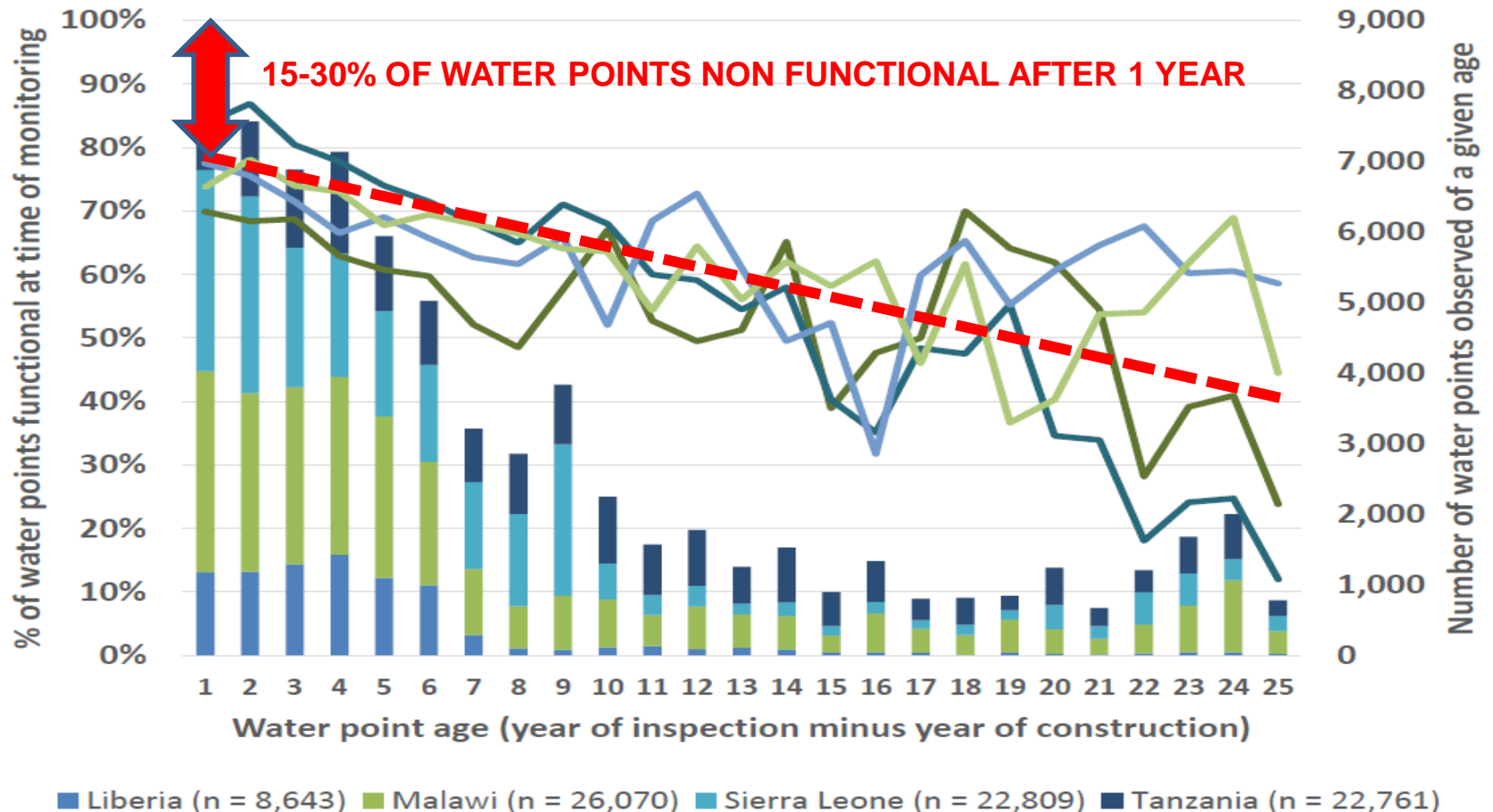
GROUNDWATER DEVELOPMENT

- **Dependence on groundwater for domestic supply: 45% globally / 75% in Africa**
- **Potential of groundwater development for irrigation: additional 20-49% in Africa**
- **Borehole construction key for achievement of **SDG 6** (and beyond)**



SUSTAINABILITY IS A CONCERN

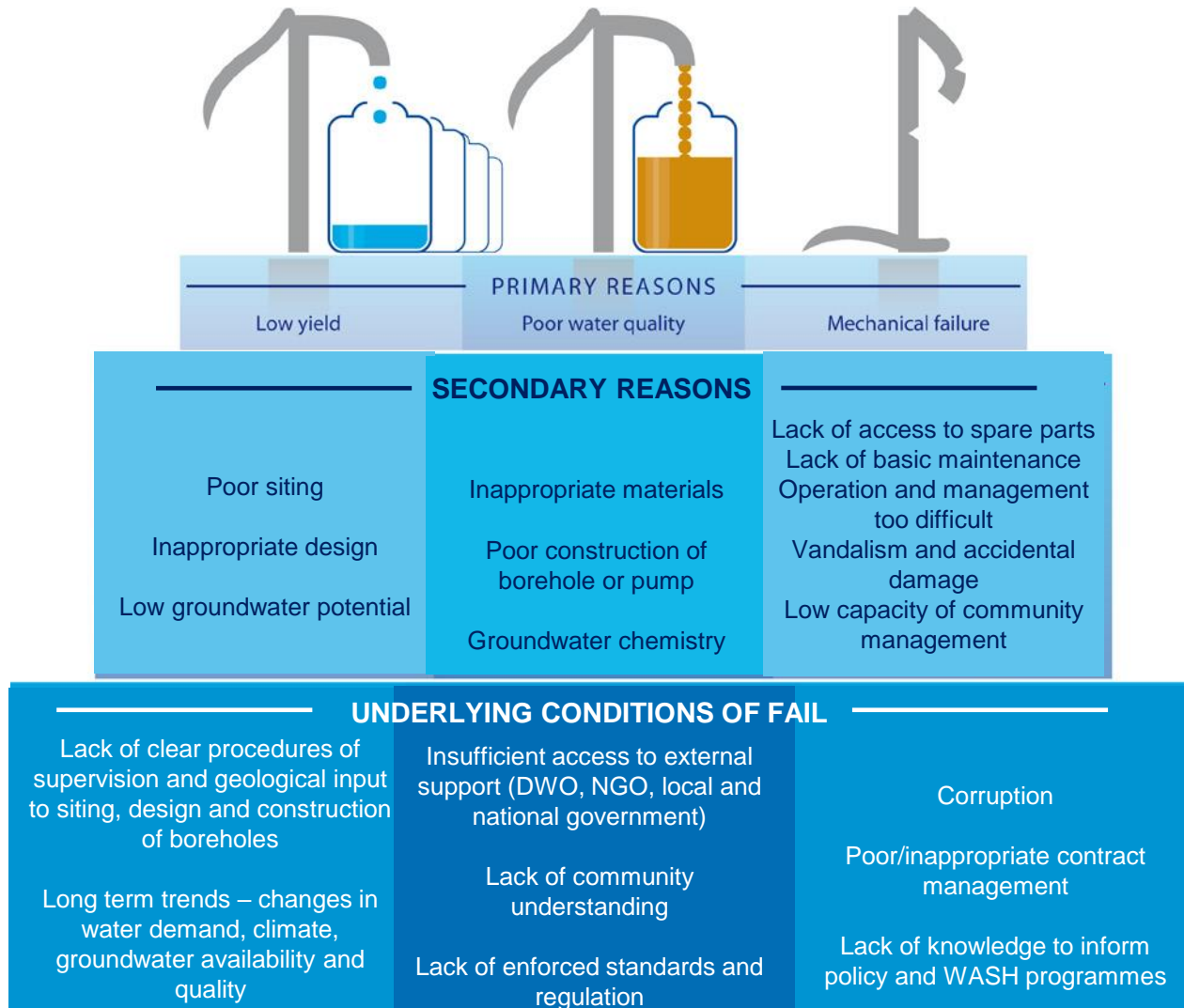
DROP OF FUNCTIONALITY OF WATER POINTS BY AGE



Source: TINCANI ET AL, 2015



UNDERLYING CAUSES OF FAILURE



SOURCE:
BONSOR ET AL
(2015)

RAISING PROFESSIONALISM



Source: UNICEF/Skat Foundation (2016)



AREAS OF ENGAGEMENT (I)

Institutional frameworks

Promote initiatives to:

- Improve national (or state) policies, regulation, standards and procedures of borehole drilling
- Clarify roles and responsibilities

Groundwater information

Promote initiatives to:

- Ensure drilling records are collected, quality-assured and collated
- Make this readily available to inform future borehole siting, design, and groundwater management



AREAS OF ENGAGEMENT (II)

**Project design,
implementation
and monitoring**

Promote initiatives to:

- Improve the design, implementation and monitoring of specific borehole projects
- Ensure that documentation of the process and results is readily available

Capacity

Promote initiatives to:

- Raise the skills and knowledge of groundwater development practitioners
- Encourage the availability of suitable equipment in the country



AREAS OF ENGAGEMENT (III)

Dialogue & awareness

Promote initiatives to:

- Foster dialogue between government agencies, drilling contractors, consultants, NGOs, development partners and civil society
- Raise awareness of decision-makers and the public about groundwater potential management

Investment

Promote initiatives to:

- Invest adequate financial resources to improve and sustain professional groundwater development

– Thank You –

Kerstin Danert Kerstin.Danert@skat.ch

&

Jose Gesti jgesticanuto@unicef.org



QUESTION TO THE AUDIENCE:

What can you share about raising drilling professionalism, including groundwater regulation in your country?

QUESTION À L'AUDIENCE:

Que pouvez-vous partager sur l'amélioration du professionnalisme de la construction des forages, tenant en compte aussi la réglementation des eaux souterraines dans votre pays?