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Professional Drilling Management

Online Course

MODULE 5: ACTIONS TO RAISE DRILLING PROFESSIONALISM

ORIENTATION VIDEO



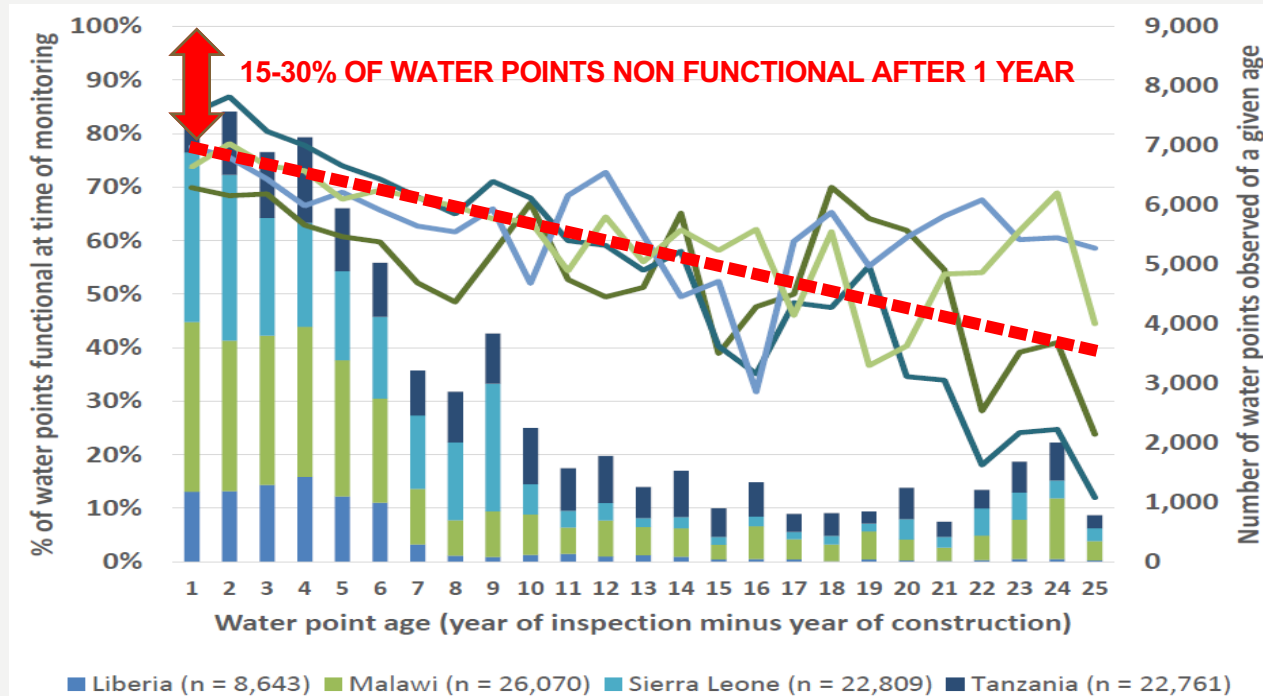
GROUNDWATER DEVELOPMENT

- **Dependence on groundwater for domestic supply:** 50% globally / 75% in Africa
- **Potential of groundwater development for irrigation;** particularly in parts of Africa
- Borehole construction key for achievement of **SDG 6** (and beyond)



SUSTAINABILITY IS A CONCERN

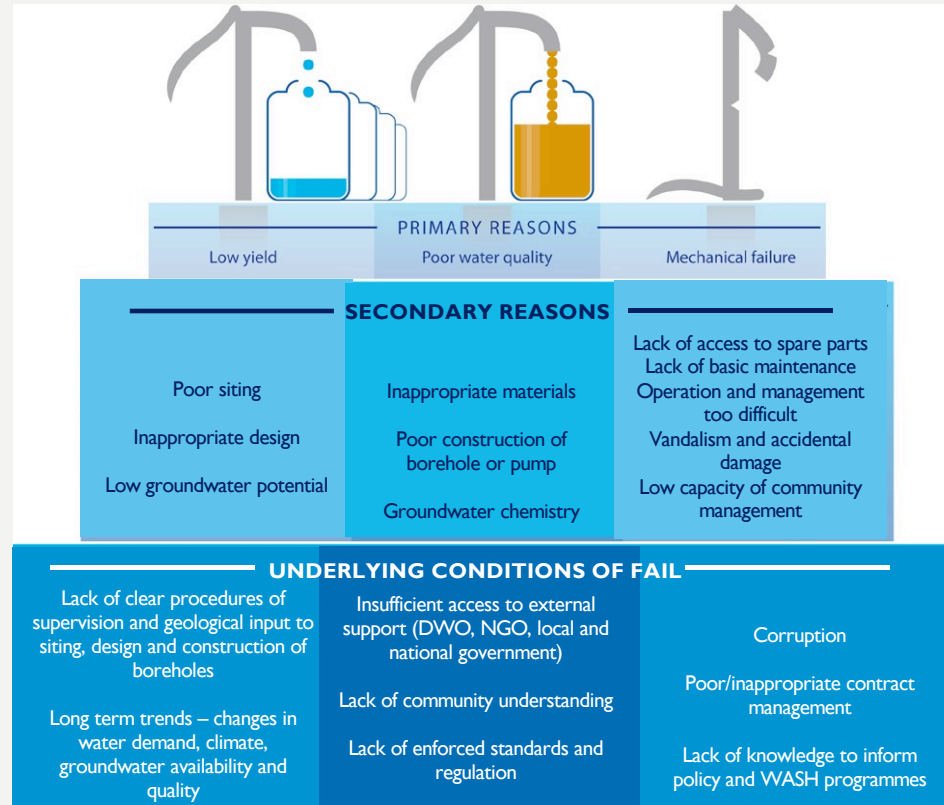
DROP OF FUNCTIONALITY OF WATER POINTS BY AGE



Source: TINCANI ET AL, 2015



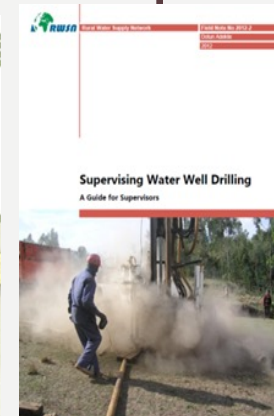
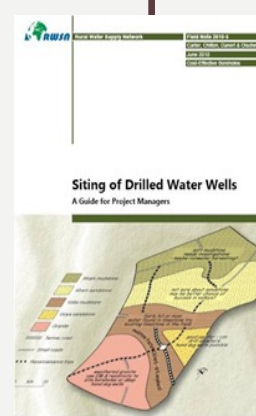
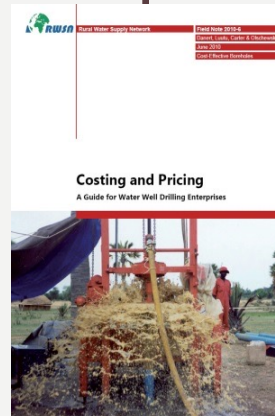
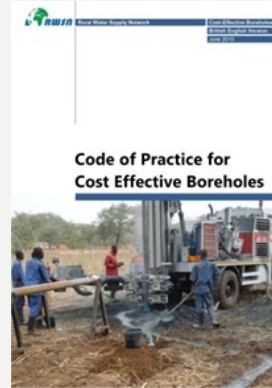
UNDERLYING CAUSES OF FAILURE



SOURCE:
BONSOR ET
AL (2015)



RAISING PROFESSIONALISM: WHAT



RAISING PROFESSIONALISM: HOW



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



STARTING POINTS

GUIDANCE NOTE

DOWNLOAD FROM:

[HTTP://WWW.RURAL-WATER-SUPPLY.NET/EN/RESOURCES/DETAILS/775](http://www.rural-water-supply.net/en/resources/details/775)

FRENCH VERSION –

[HTTPS://WWW.RURAL-WATER-SUPPLY.NET/EN/RESOURCES/DETAILS/796](https://www.rural-water-supply.net/en/resources/details/796)

GROUNDWATER AND DRILLING: EXPERIENCES FROM OVER 50 COUNTRIES:

[HTTPS://WWW.RURAL-WATER-SUPPLY.NET/EN/RESOURCES/DETAILS/880](https://www.rural-water-supply.net/en/resources/details/880)

– THANK YOU –



JOIN HANDS WITH OTHERS

- **RWSN Professional Water Well Drilling website** – a collation of resources and reports, some of which have been used in this course <https://www.rural-water-supply.net/en/sustainable-groundwater-management/professionnal-water-well-drilling>
- **RWSN Sustainable Groundwater Development community** – online community of practice on groundwater, including drilling practices https://dgroups.org/rwsn/groundwater_rwsn
- **Africa Groundwater Network (AGW-Net)** – membership of over 300 groundwater professionals in Africa. AGW-Net has training materials and run courses (<http://www.agw-net.org/>).
- **International Association of Hydrogeologists (IAH)** – raising awareness of groundwater issues and working with national and international agencies (<https://iah.org/>)



