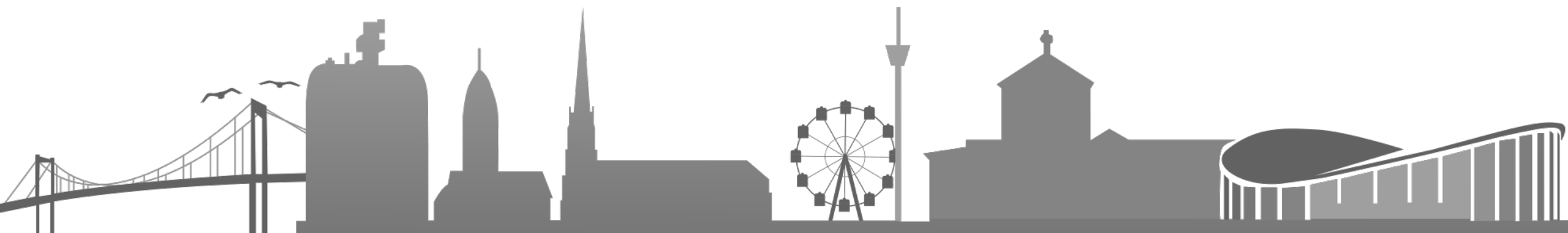




Experiences from the Nile Basin

Louis Hattingh, Hattingh Anderson Associates CC, South Africa

Michael Abebe, Private consultant, ICOLD Honorary Vice-President,
Ethiopia





Acknowledgements

- ENTRO (Eastern Nile Technical Regional Office)
- NELSAP-CU (Nile Equatorial Lakes Subsidiary Action Program – Coordinating Unit)
- Funders of the various initiatives

- Eng. Michael Abebe – ETCOLD chair & ICOLD Honorary Vice President

What does “*capacity building*” mean?

Should the focus only be on technical individuals especially young technical individuals?





United Nations:

Capacity-building is defined as the **process of developing and strengthening the skills, instincts, abilities, processes and resources** that organizations and communities **need to survive, adapt, and thrive in a fast-changing world**. An essential ingredient in capacity-building is transformation that is generated and sustained over time from within; transformation of this kind goes **beyond performing tasks to changing mindsets and attitudes**.

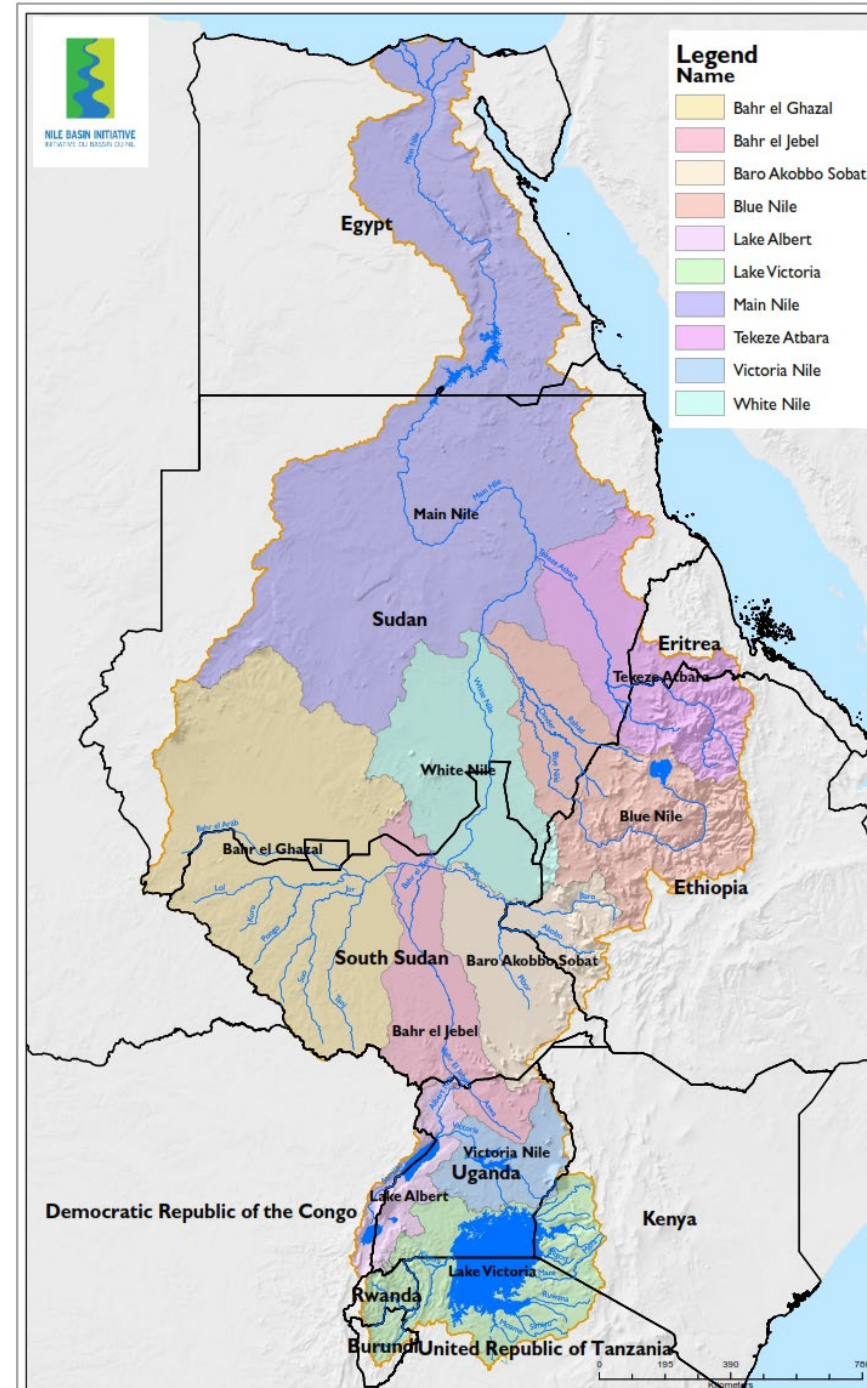


Nile Basin experience

- Started in 2013 in Eastern Nile countries
 - Egypt
 - Ethiopia
 - South Sudan
 - Sudan
- Continues since 2021 in the whole Nile Basin

Nile Basin

- Area = 10 % of Africa
- River length = 6 695 km
- Population > 270 million
- MAR = 84 billion m³
 - 86 % Ethiopian highlands
 - 14 % Nile Equatorial Lakes
- 11 countries
 - All except Eritrea members of Nile Basin Initiative
 - More than 600 dams
 - Cumulative capacity > 250 billion m³





Important aspects In Easter Nile until 2021

- **Situation assessment**
 - A comprehensive review of existing legal, institutional framework, technical and human capacity
- **Road map of interventions**
 - **Creating awareness** on risks associated with dams: during construction, operation and maintenance phases ⇒ **political decision makers**
 - **Establishing dam safety units** at national and regional level
 - **Conducting training program** for dam owners and operators, technical experts, academia, journalists and civil societies (more than 400 individuals)
 - **Internship program** (15 young professionals)
 - **Developing reference dam safety guidelines & training modules**
 - **Developing reference regulatory framework**



Initiative since 2021

- (Nile Cooperation for Climate Resilience (NCCR), Dam safety capacity building for Nile Basin Countries, (2021-2025)
 - All Nile Basin countries
 - **Conducting training program** on various dam safety related topics
 - **Establishing national dam safety units** in the NEL region
 - **Strengthen national dam safety units** at basin level
 - **Develop** a geo-referenced **inventory of dams**
 - **Development** of a **tiered risk management framework** for dams
 - Assessment of legal and institutional frameworks for dam safety
 - **Development** of a model **national regulatory framework** (covers standards for new dam development and safety of existing dams)
 - Establishment of a **regional dam safety training center**
- ⇒ Building of institutional capacity and not just individual capacity is of paramount importance for sustaining and ensuring safety of dams



Concluding remarks

- Building of institutional capacity and not just individual capacity is of paramount importance for sustaining and ensuring safety of dams
- Importance of awareness of decision makers of important aspects (continuous)
- Appropriate subject matter at tertiary education institutions
- Continuous human development (not only just professionals)
 - Continuous training program
 - Guidelines
 - Dedicated training centre
 - Appropriate curriculum
 - Subject matter
 - Funding
- Mentorship across the spectrum

