FLOOD & DROUGHT MANAGEMENT TOOLS



Per B. Hansen, DHI pbh@dhigroup.com Strategic recommendations on how the planning tools can support the TDA/SAP process

HE A REAL

IWC9, Marrakesh, 5-8 November 2018





Output 2.2.1 of the Flood & Drought Project:

"Strategic recommendations for inclusion of flood and drought considerations in IWRM, TDA, Water-Safety and other basin land and water planning tools in the three selected pilot basins".

....also inspire other basins to apply the F&D tools in their TDA/SAP updates.

Starting Point



A well functioning and well establish TDA/SAP process recognised by the basin countries and basin organisations!!

Incl. guidelines and training courses prepared by IW:Learn!!

New opportunities



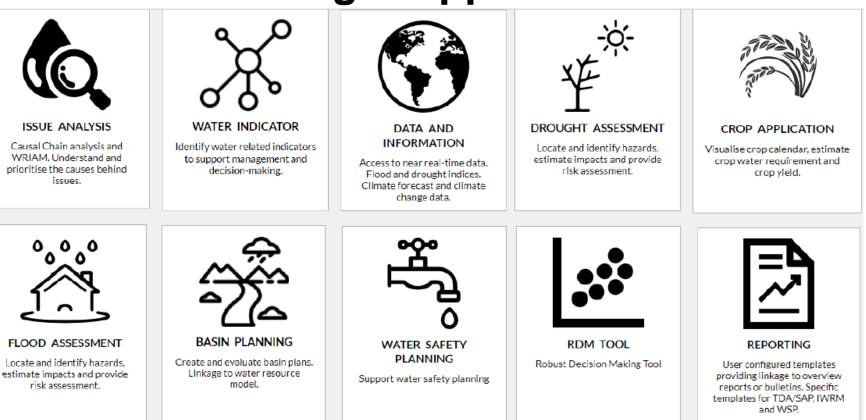
• Frequently updated and freely available global datasets (e.g. hydro-met data, land use, elevation, riverflows, population data, socio-economy, health, etc.).

• Internet is getting more reliable and fast.

- Workshops/meetings via the internet.
- Freely available predictive models and tools via web portal

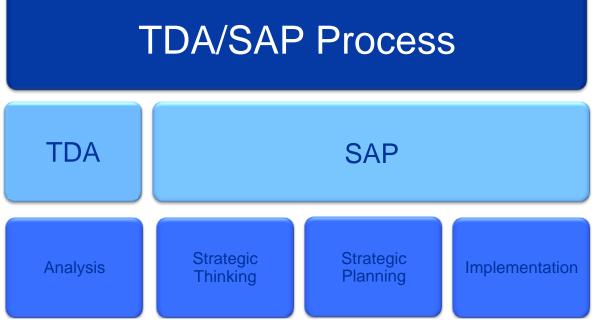
Flood & Drought Applications





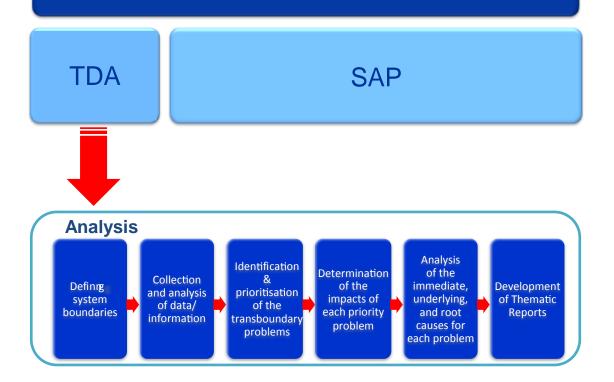




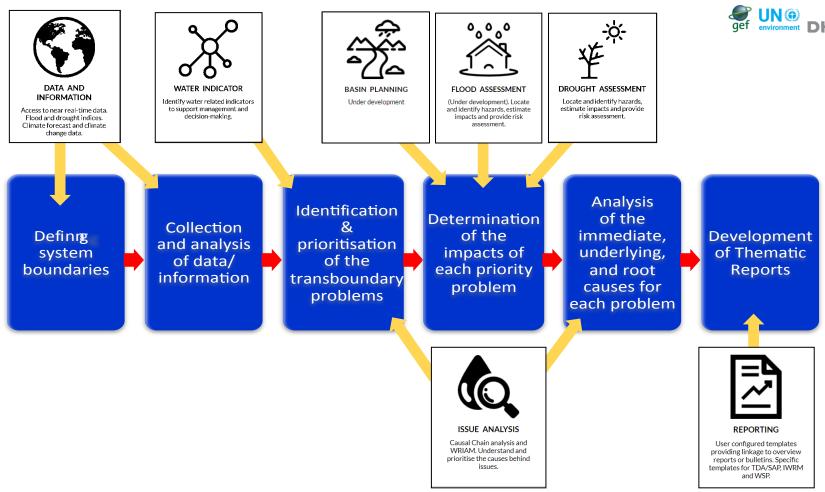


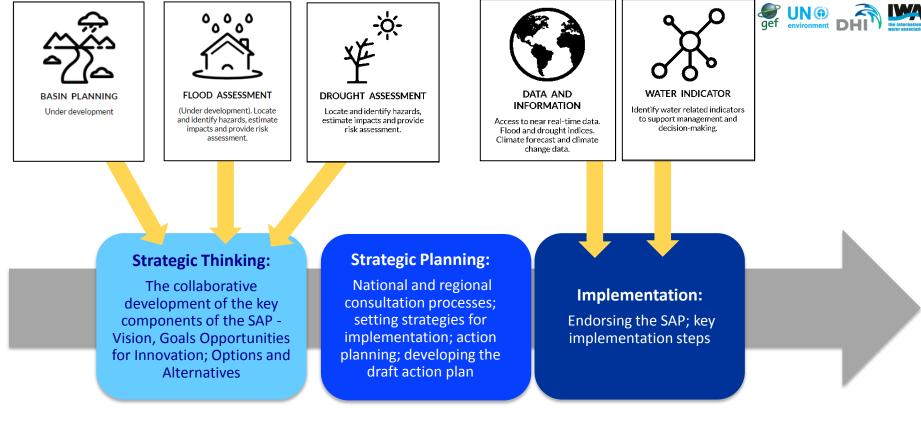






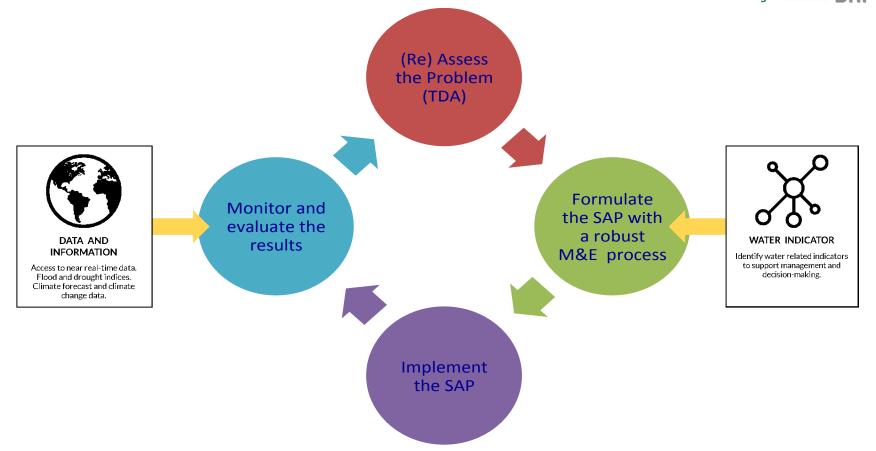


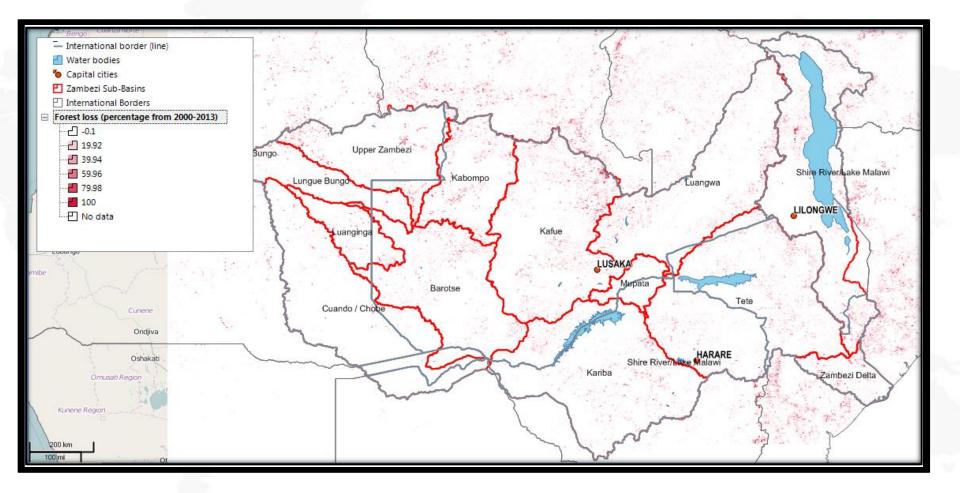


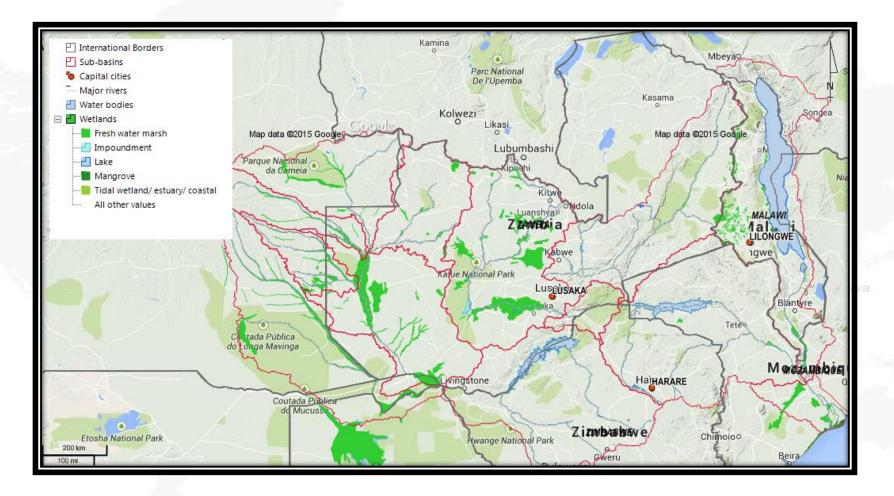


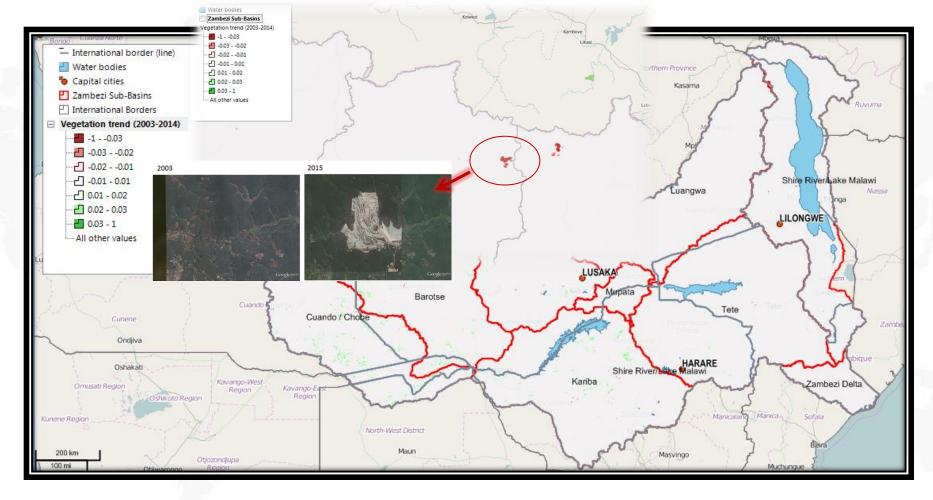
The SAP Process

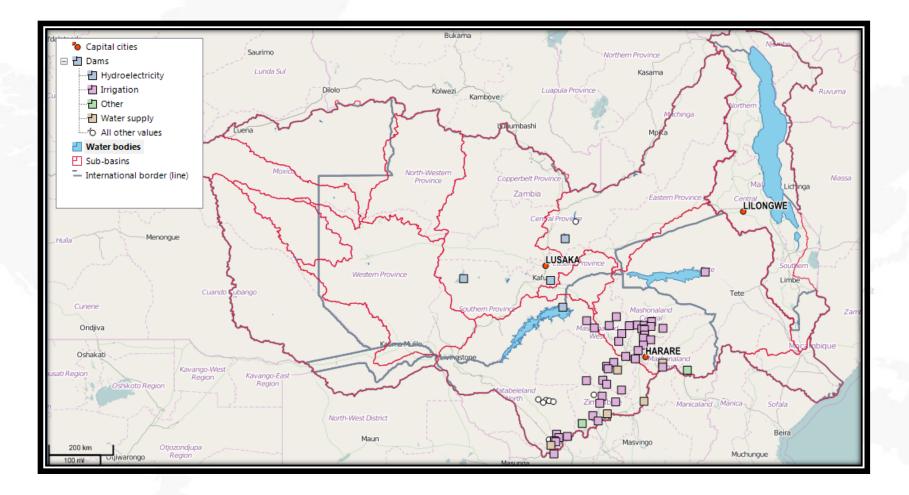












Advantages 1/2



- Involving more stakeholders for no or limited additional costs.
- Provide timely and reliable/objetive information.
- Provide results/impacts of various development scenarios based on indicators decided by (groups of) the stakeholders.
- Potential for frequent virtual meetings by specialised group of stakeholders.

Advantages 2/2



 Potential for reducing the number of physical meetings/workshops = reduced costs

• Ensure that meetings participants are all well informed prior to the actual meetings / decision making.

• Monitor the basin wide impact of the actual implementation of SAP via global data sets (e.g. change in agricultural practices, protection of forests and wetlands, dam construction and operation, location and size of irrigation schemes, etc.).

Examples of recent GEF projects that may contribute to the TDA/SAP process.



 "Transboundary Waters Assessment Programme (TWAP)"

 "Development of tools to incorporate impacts of climate variability and change, in particular floods and droughts, into basin planning processes (F&D)".





- Identify priority tools that are most relevant for the TDA/SAP process (first batch).
- Priority tools to be introduced to the stakeholders as part of TDA/SAP training.
- On line training courses shall be available for stakeholders with relevant background.
- Training in "internet meetings".



Thank you!

pbh@dhigroup.com

To get started with the tools right now, register for free by visiting

www.flooddroughtmonitor.com

Learn more at fdmt.iwlearn.org



For more information contact:

Oluf Zeilund Jessen – DHI: ozj@dhigroup.com Katharine Cross – IWA: katharine.cross@iwahq.org

Design: www.chris-wells.com

