



**water & sanitation**

Department:  
Water and Sanitation  
**REPUBLIC OF SOUTH AFRICA**

# **INKOMATI NWRCS TECHNICAL PROGRESS**

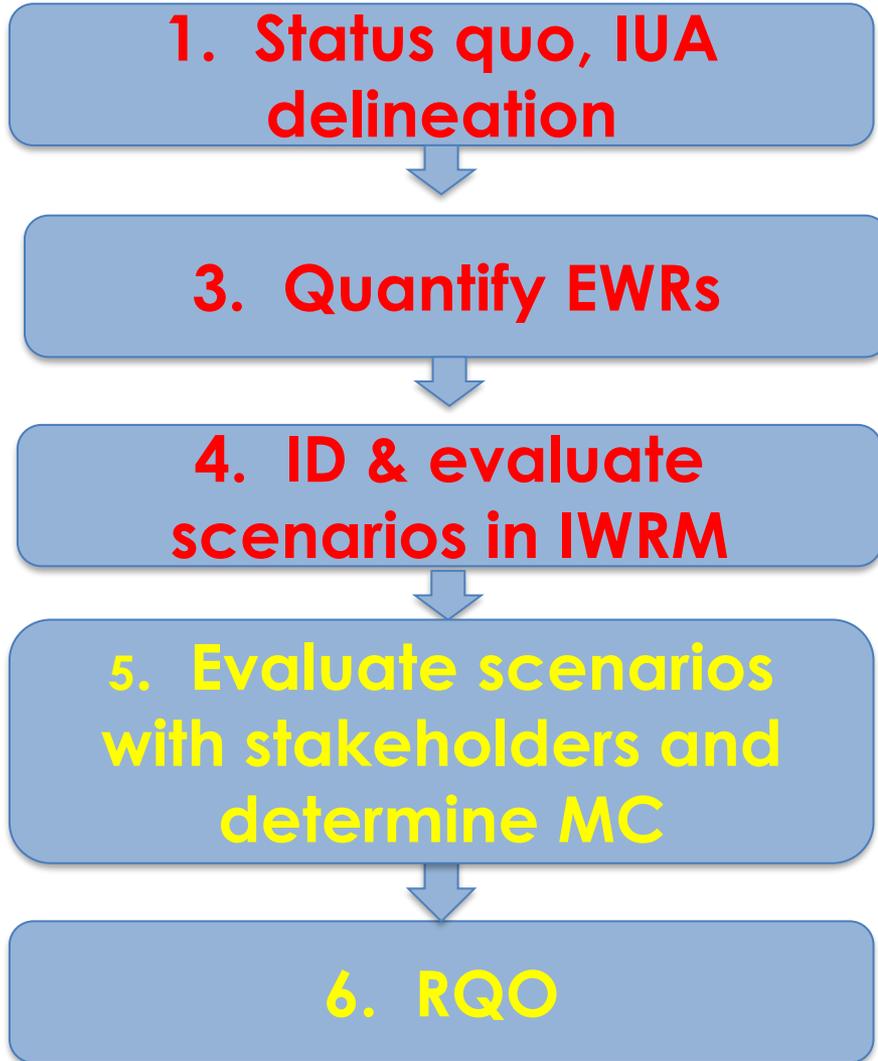
**Delana Louw**  
**Rivers for Africa**  
**24 November 2014**

# PROJECT PLAN & STUDY TASKS

## TECHNICAL STEPS

Complete

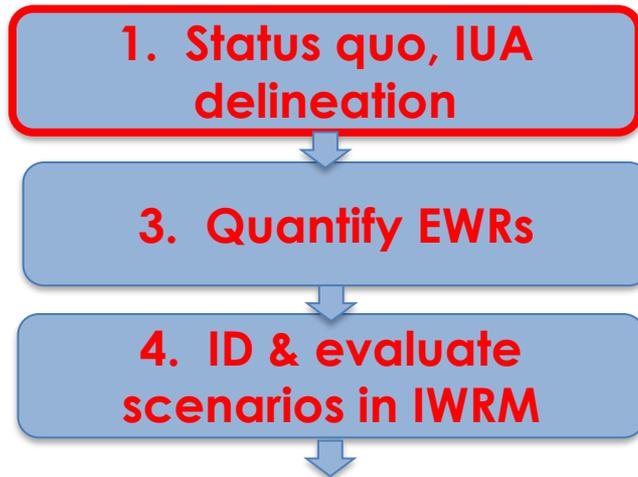
In process



## OTHER STEPS



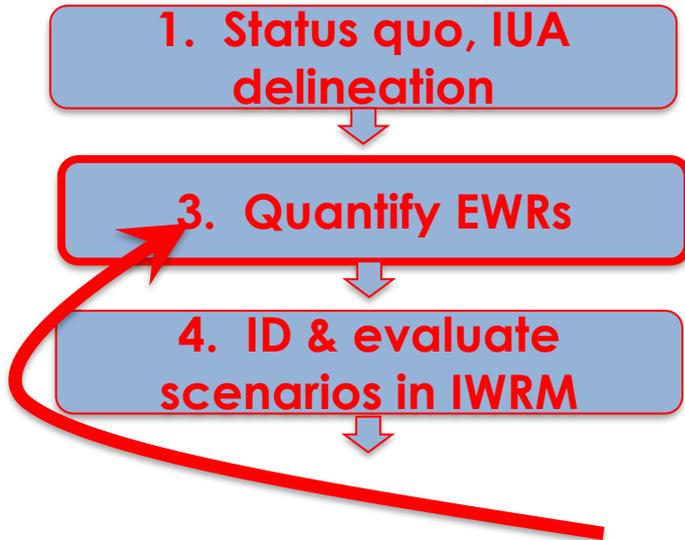
# STEP 1: STATUS QUO & IUA DELINEATION



- Task completed.
- Purpose of task is to select homogenous areas that can be managed as an entity (IUA),
- to determine the status quo of the IUAs, and

- to determine hotspots to prioritise the RUs for RQOs amongst others.
- The output in essence is a sustainable base configuration that equates to the present state.
- **Changes in this status are measured when evaluating operational scenarios within IWRM (Step 4).**
- 34 IUAs identified, each with nodes.

# STEP 3: QUANTIFY EWRs



- Purpose of task is to determine EWRs at each biophysical node.
- Output is EWRs as flow duration tables for each node
- EWRs were determined for PES, REC and other categories for main rivers during 2009 and 2004 at key biophysical nodes
- EWRs were estimated at 120 desktop biophysical nodes.
- Results were document in a report.

# STEP 4 & 5: ID & EVALUATE SCs WITHIN IWRM

1. Status quo, IUA delineation



3. Quantify EWRs



4. ID & evaluate scenarios in IWRM



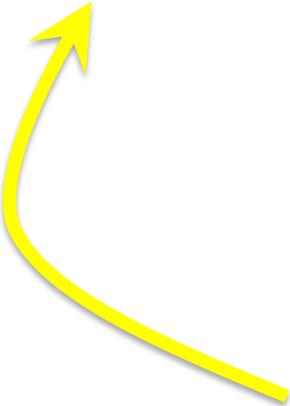
5. Evaluate scenarios with stakeholders and determine MC



- Determined preliminary operational scenarios and test with stakeholders.
- Determined consequences of scenarios: River, wetlands, economics, ecosystem services, yield. Ranking scenarios
- Make study team recommendation,
- Take consequences and draft MC to stakeholders (November 2014)

## STEP 6: RQO

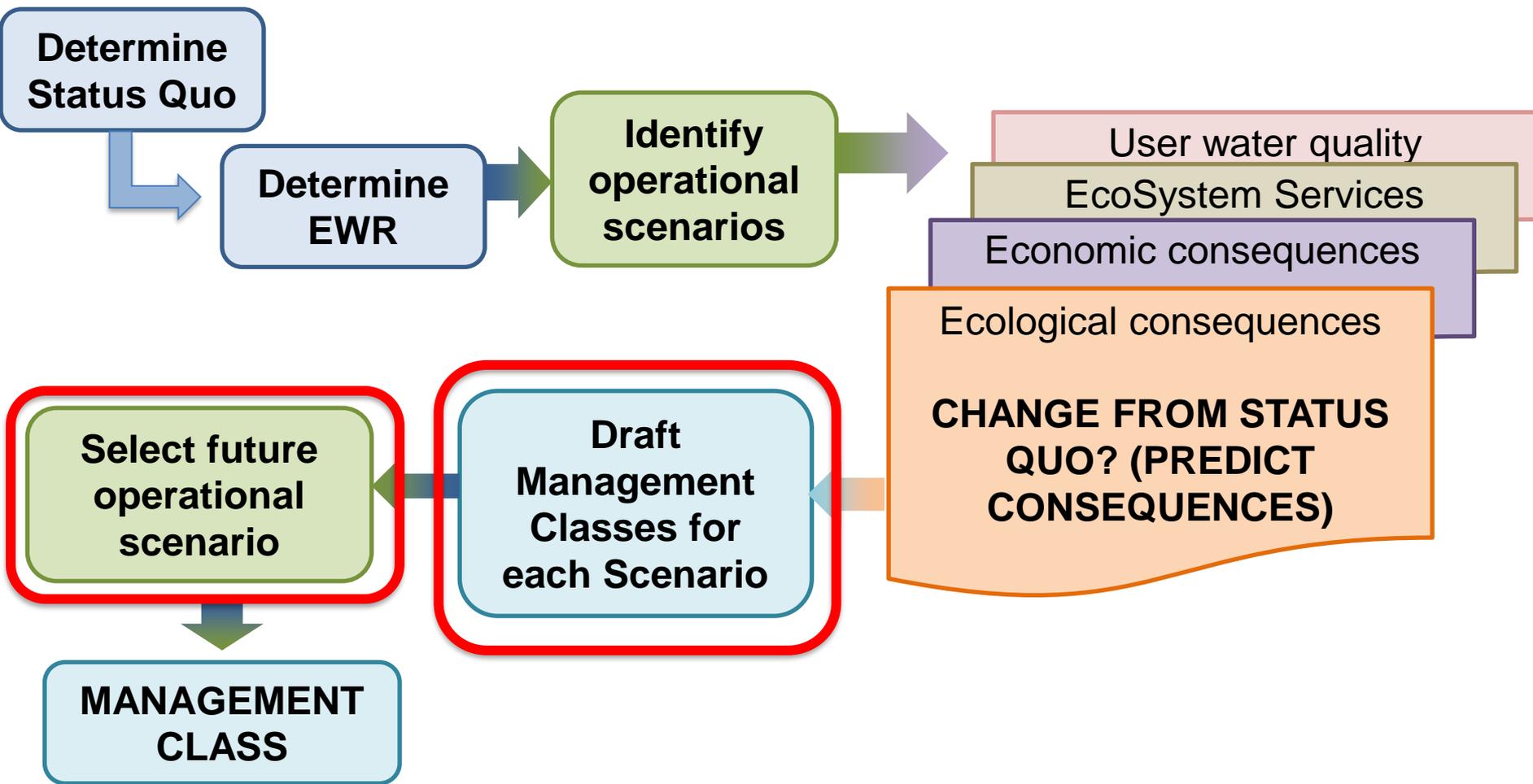
### 6. RQOs



- Purpose of task is to determine RQOs for each moderate and priority RUs.
- Provided for rivers, wetlands, groundwater.
- Level of detail & indicator components determined and differ between moderate and high priority RUs.

- Information provided as narratives and quantitative where appropriate.
- Preliminary results provided in an information pack.

# RECAP OF PROCESS TO DETERMINE MC



# RECAP OF PROCESS TO DETERMINE MC

Test scenarios and associated MC with stakeholders

Consider trade-offs

Select scenario and draft MC

DWA decision

Recommended RQOs for MC

Recommended MC

Gazetting proposed classes and RQO

Gazetting final classes and RQO

MC (& CATCHMENT CONFIGURATION) & RQOs GAZETTED



# **QUESTIONS FOR CLARIFICATION**