



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

1. Status quo, IUA
delineation

3. Quantify EWRs

4. ID & evaluate
scenarios in IWRM

5. Evaluate scenarios
with stakeholders and
determine MC

6. RQO

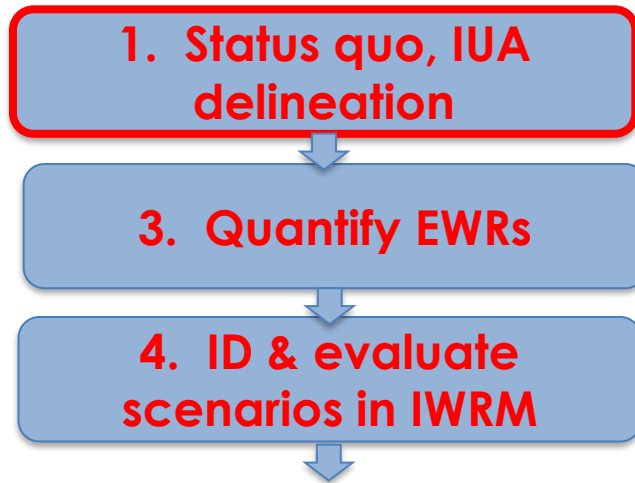
OTHER STEPS

2a Visioning
2b Stakeholder process

8. Gazetting

8. Capacity Building

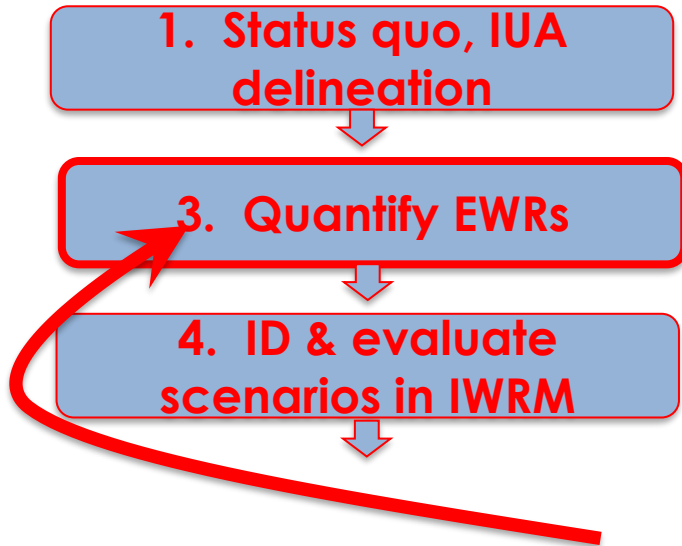
STEP 1: STATUS QUO & IUA DELINEATION



- 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

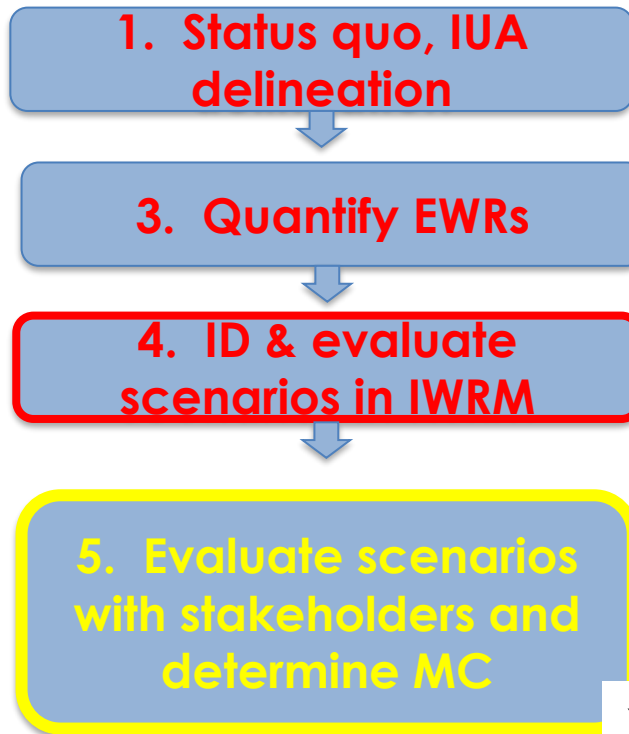
- to determine hotspots to prioritise the RUs for RQOs amongst others.
- The output in essence is a sustainable base configuration that equates to the present state.
- **Changes in this status are measured when evaluating operational scenarios within IWRM (Step 4).**
- 34 IUAs identified, each with nodes.

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



➤ **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

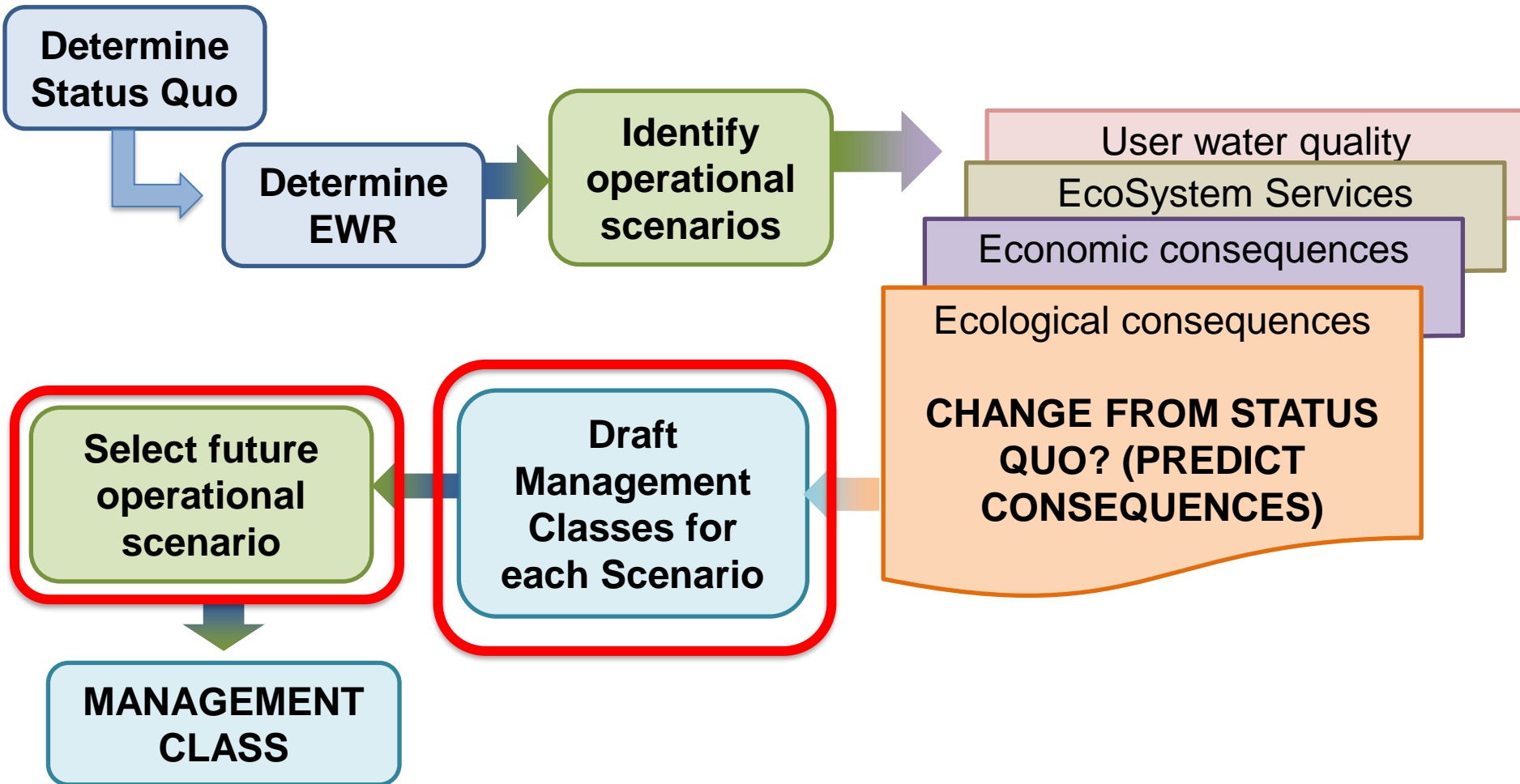
6. RQOs



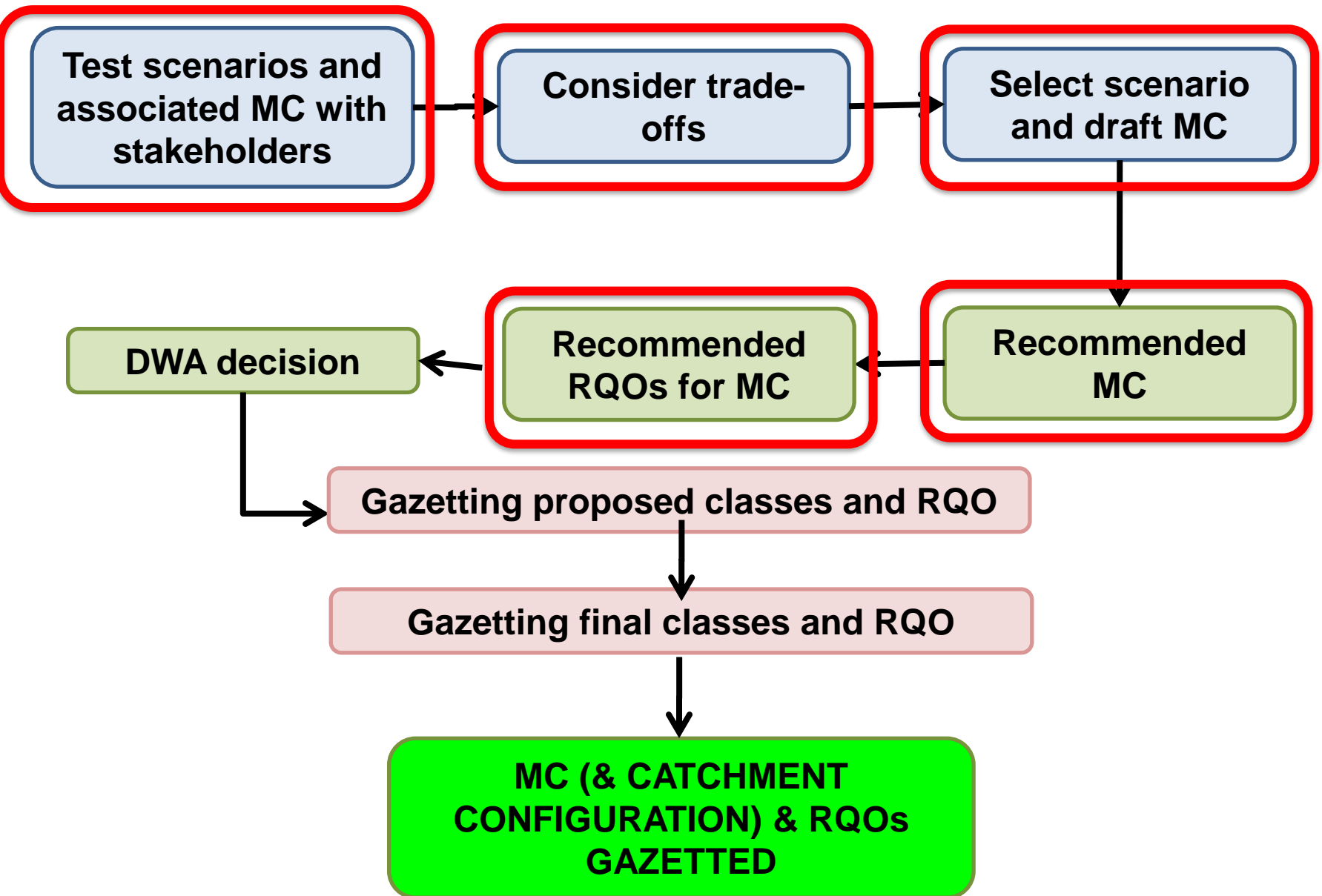
- Purpose of task is to determine RQOs for each moderate and priority RUs.
- Provided for rivers, wetlands, groundwater.
- Level of detail & indicator components determined and differ between moderate and high priority RUs.

- 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





QUESTIONS FOR CLARIFICATION