

INKOMATI WETLANDS: METHODS

- Desktop assessment
- Wetlands screened at Quaternary and SQ scales.
- Priority wetland/s / catchments based on:
 - Diversity of wetland types
 - Total wetland extent
 - Presence of NFEPA wetlands
 - Presence of NFEPA wetland clusters
 - Occurrence of RAMSAR sites
- Only priority wetlands assessed for PES & EIS





INKOMATI WETLANDS: PES

Wetland PES assessed using Inkomati PES-Ei-ES data and verified with Google Earth.

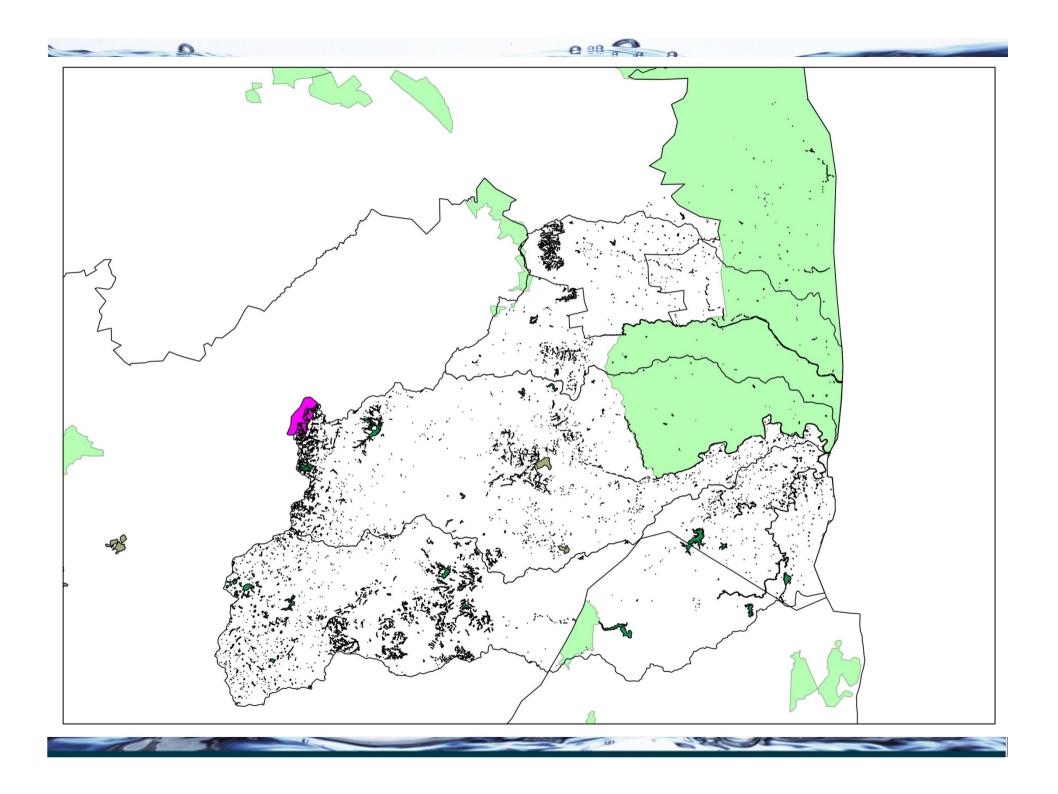
PES based on following metrics:

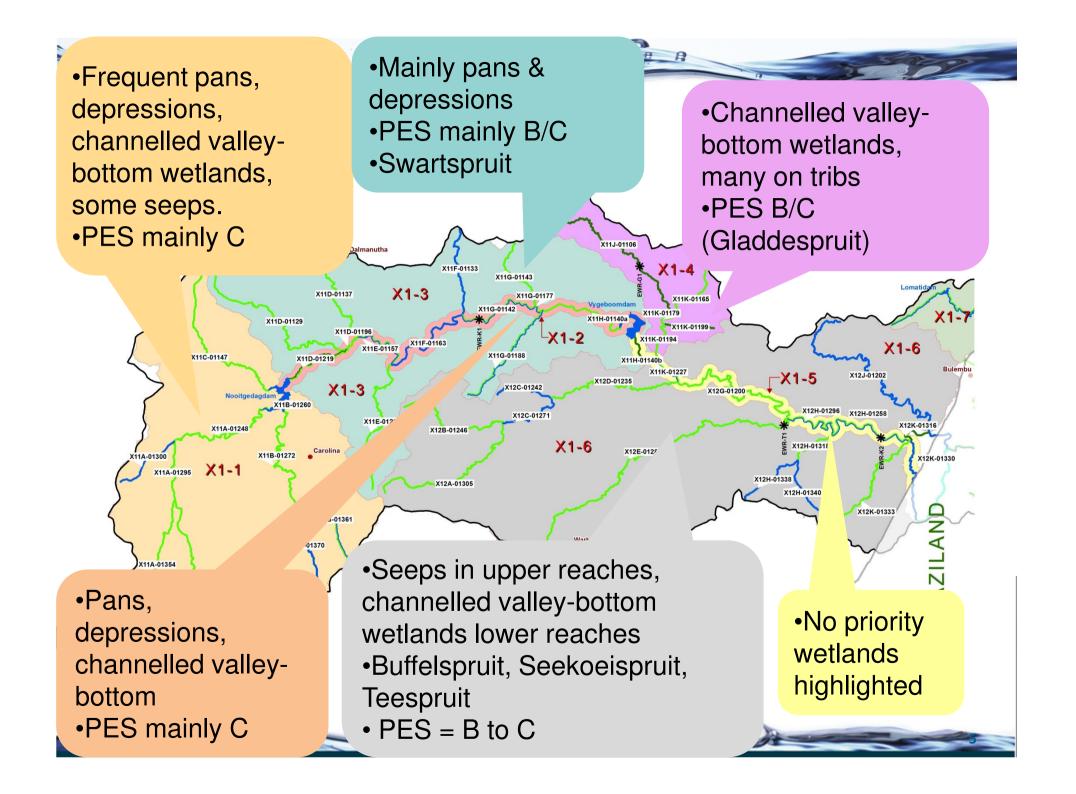
- Afforestation/Invasive plants
- Dams, irrigation, other flow reduction activities
- Extent of Urbanisation/catchment hardening
- Landuse activities (mining, agriculture, over grazing)
- Flow Modification
- Erosion of wetlands
- Sedimentation
- Potential Physico-chemical modification
- Bed and Channel disturbance
- Vegetation removal

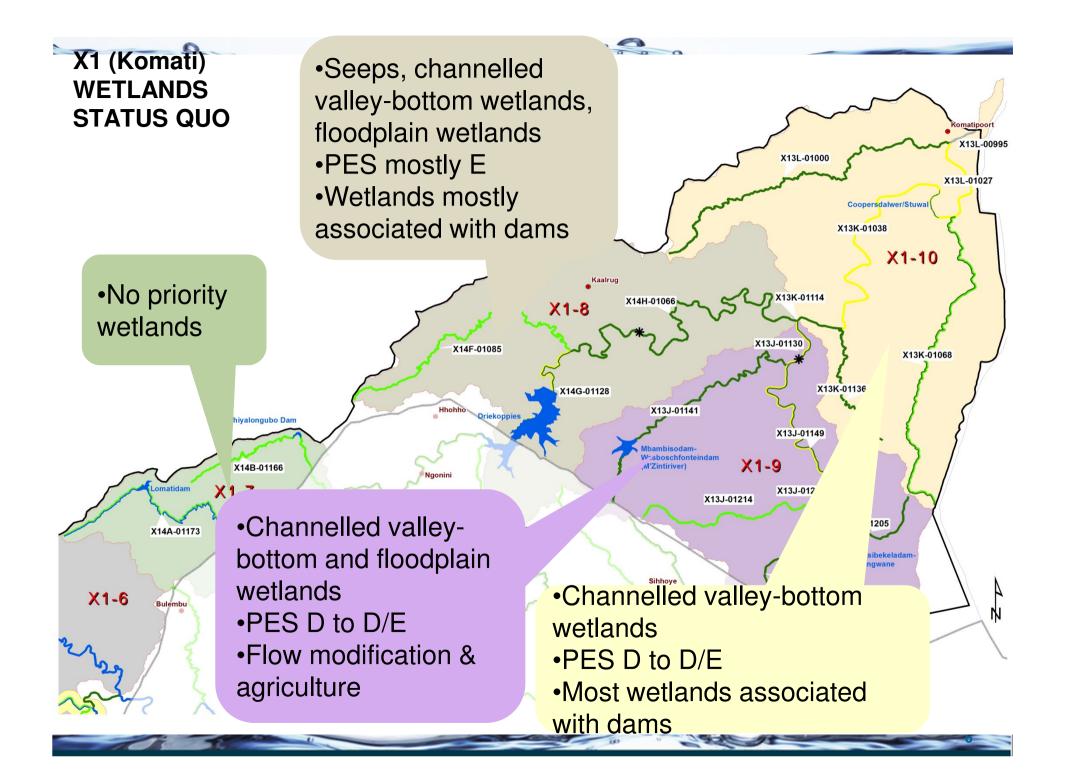


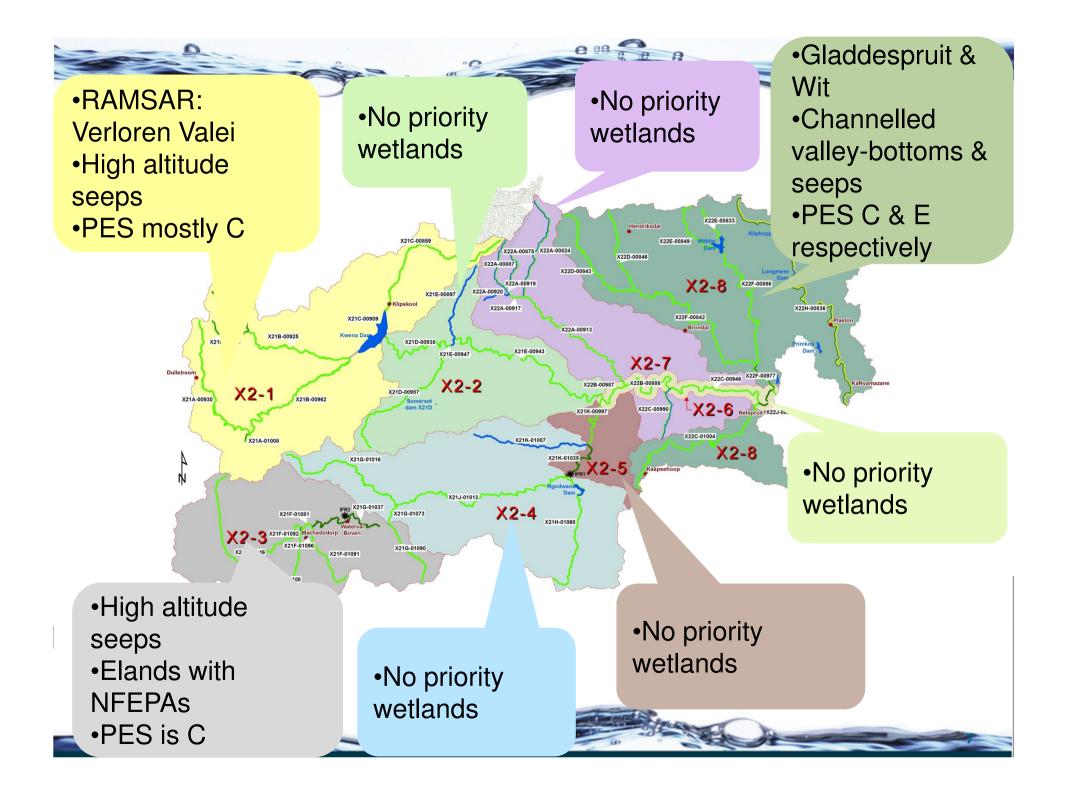
INKOMATI WETLANDS: EIS

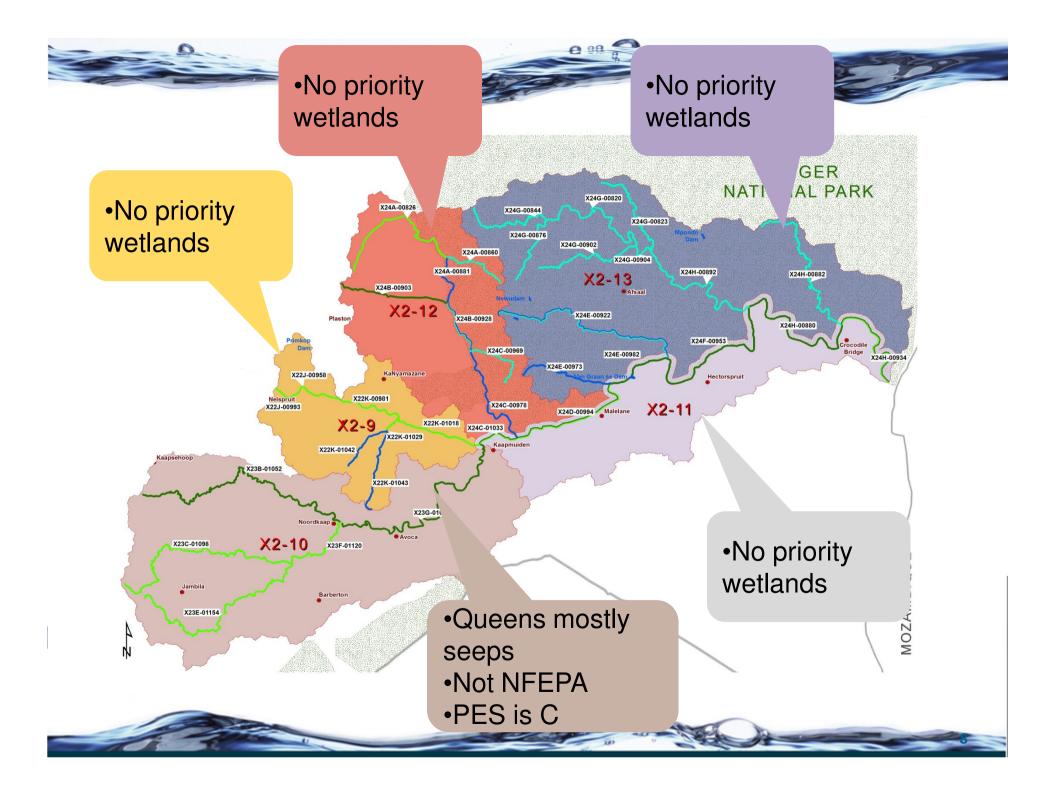
- Integrated wetland EIS assessed using Inkomati PES-Ei-ES data, SANBI data, NFEPA data
- EIS based on following metrics:
 - Diversity of wetland types
 - Density / extent of wetlands
 - Unique wetlands
 - Wetland species richness (plant based)
 - Importance of conservation & natural areas
 - Migration corridor/s (links to other systems)
 - Rare/endangered/unique/threatened species/populations
 - Sensitivity to upstream flow changes

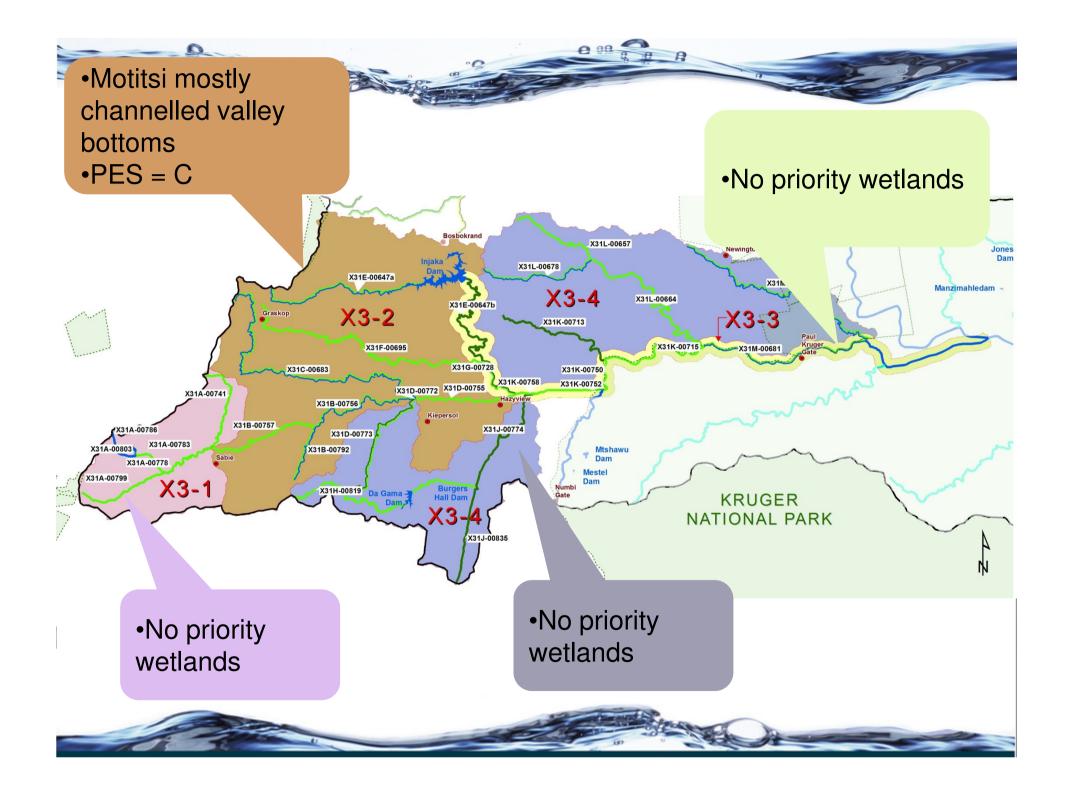


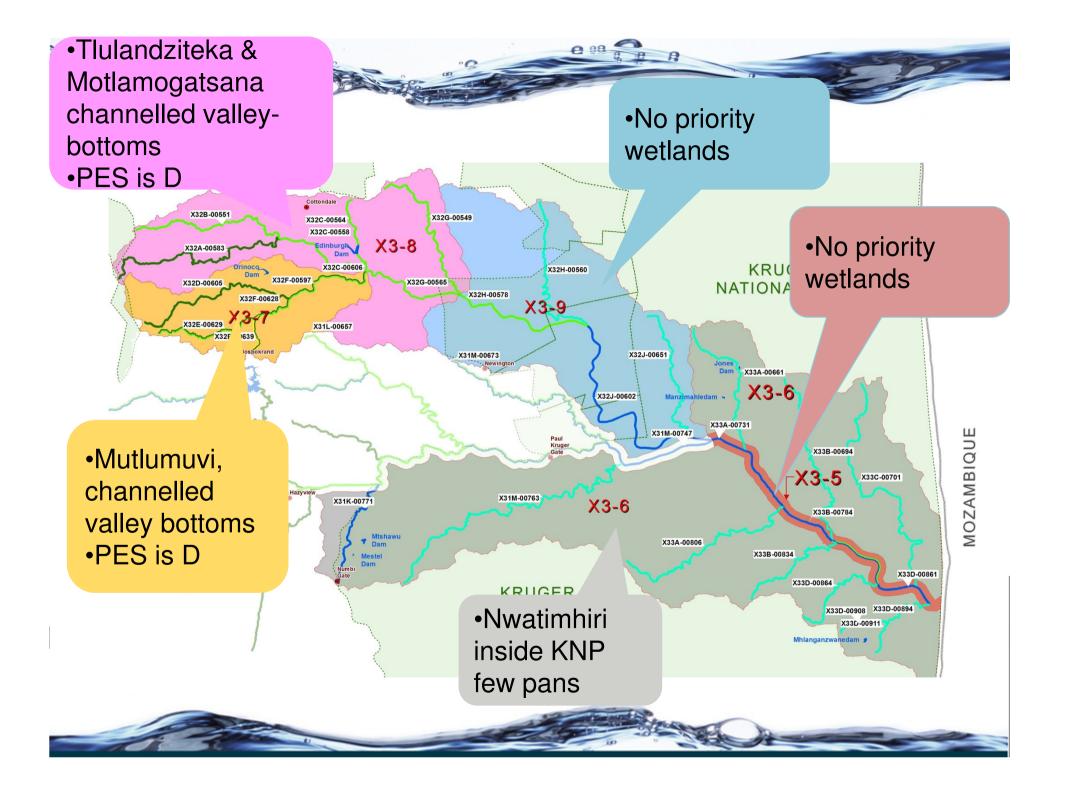














Thank You

