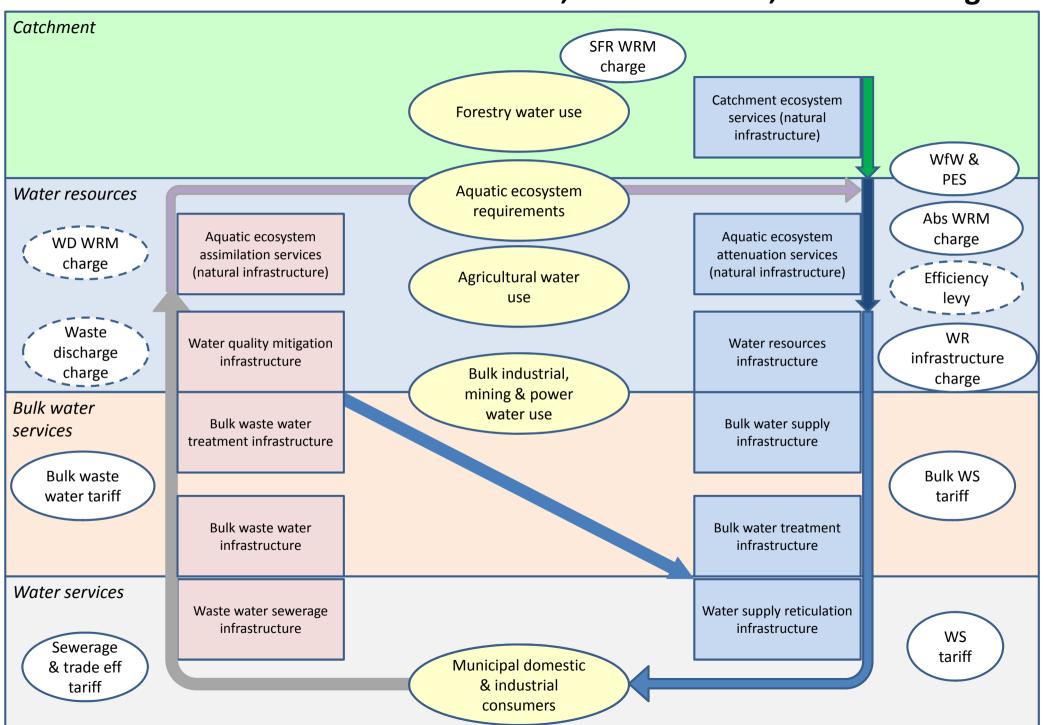
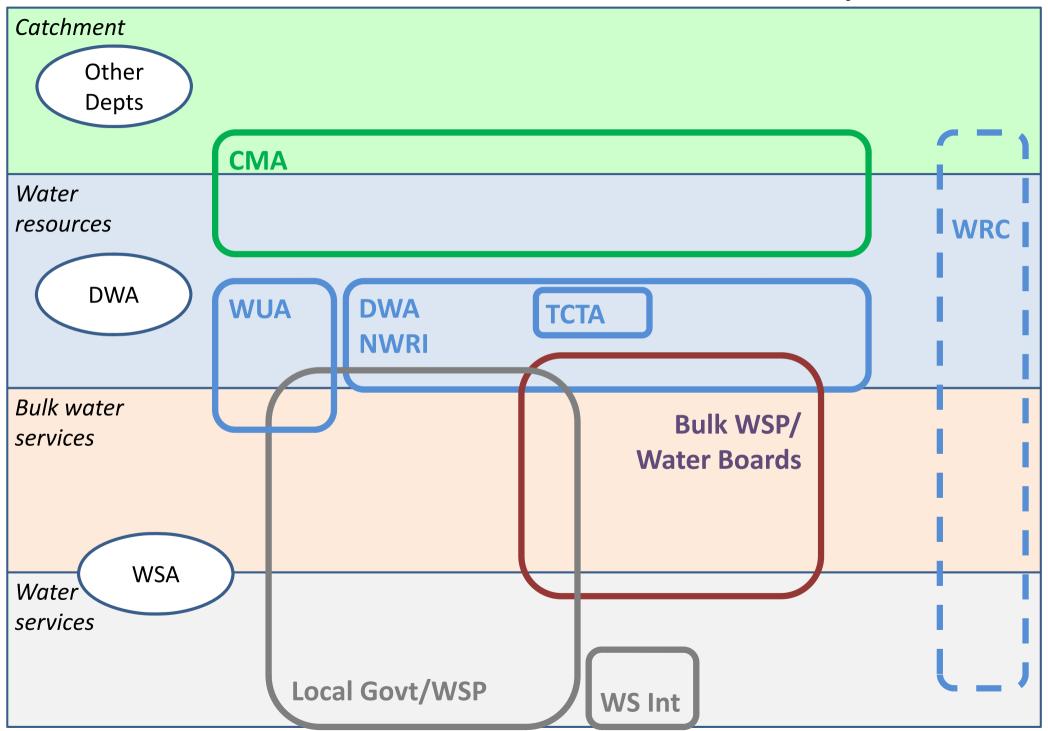
Water Flows, Infrastructure, Users & Charges



Institutional responsibilities



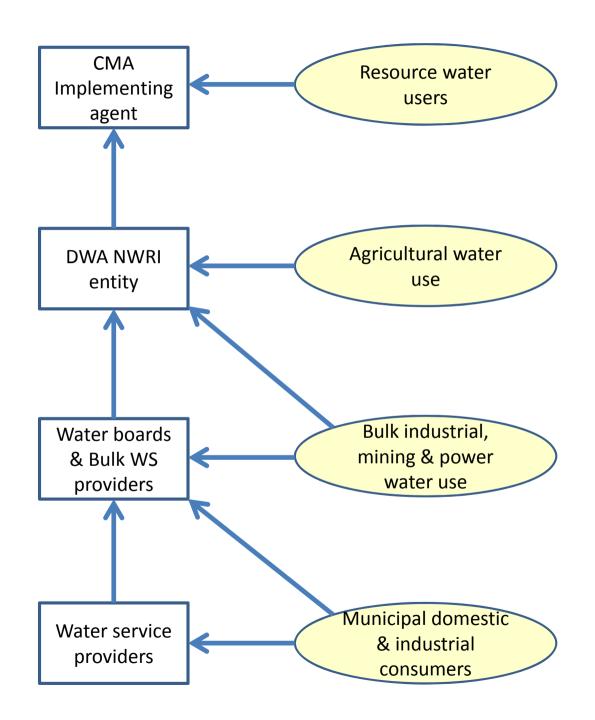
Financial Flows & Infrastructure

Natural infrastructure

Water resources infrastructure

Bulk water services infrastructure

Water services infrastructure



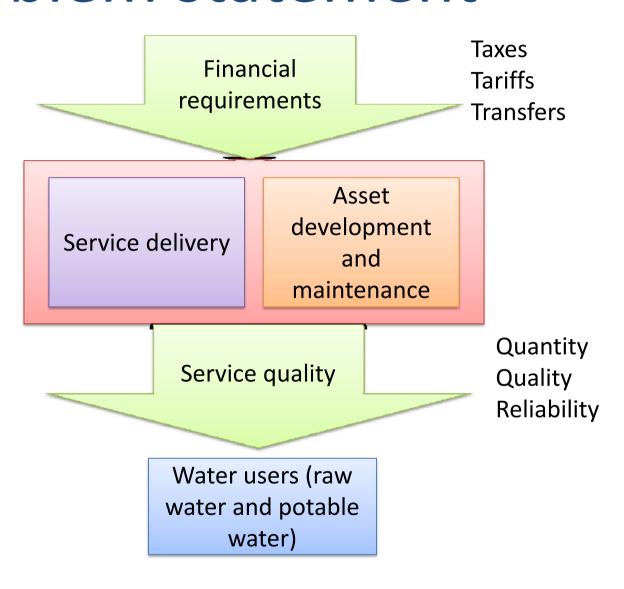
Problem statement

Uncertainty of actual costs; under-recovery; major grant funding;

Inadequate investment in O&M etc; poor service management; unaffordable services; poor billing and revenue collection; value for money

Poor service quality

Impacts on human rights, well being, economic development



Need stronger economic regulation

Challenges

	Service delivery	Infrastructure	Financing
Water resources	 Equity/Redress Beneficial allocation Resource sustainability Quantity/Reliability Water quality 	AssuranceOperationsRefurbishment	CapitalRevenueCharges
Bulk water services	ReliabilityTreatment quality	ExpansionOperational efficiencyRefurbishment	CapitalRevenueTariffs
Water services	AccessReliabilityQuality	ExpansionOperational efficiencyRefurbishment	CapitalRevenueTariffsFree basic

Regulatory environment

Technical Regulation

- Ensure access to adequate quality water poor and the economy
- Ensure robust safe infrastructure in time

Institutional oversight

- Support efficient sustainable institutions (WMI or WSI)
- Ensure effective governance / accountability

Economic regulation

- Finance new and refurbishment infrastructure (off-budget)
- Establish affordable tariffs, with free basic services

Customer protection

Sustainable financing

Reliable quality service

Affordable Charges/Tariffs

Infrastructure management

User/consumer cost recovery

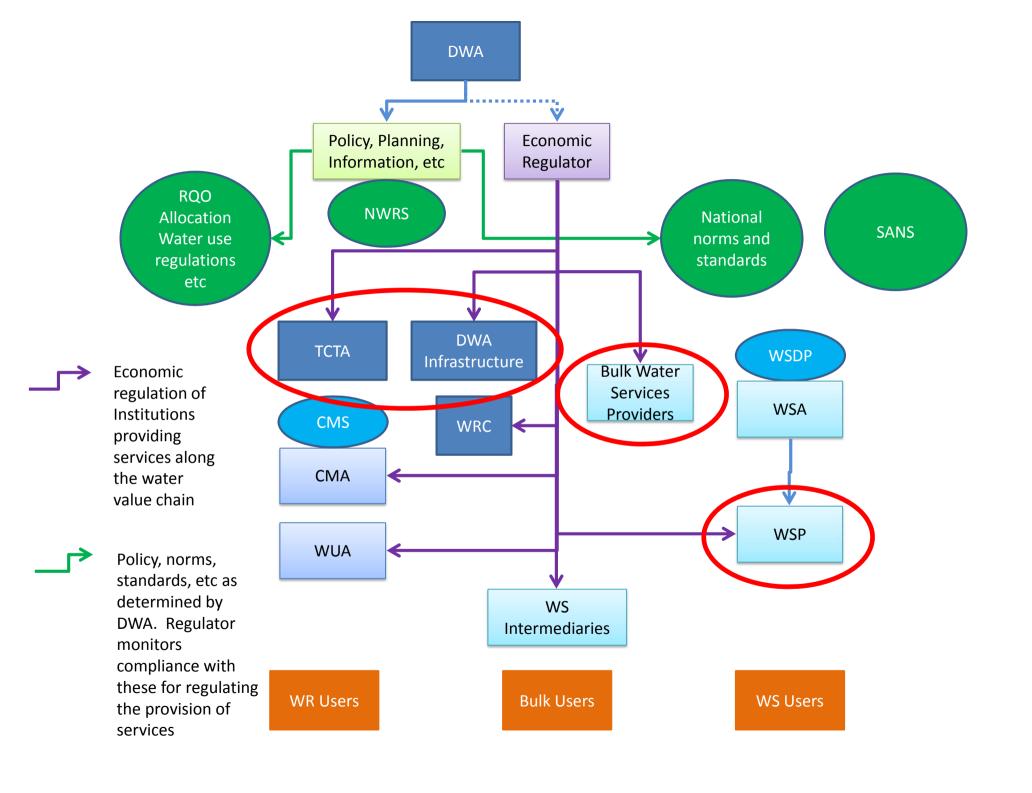
Capital funding (commercial)

Assured robust development

Maintenance of public assets

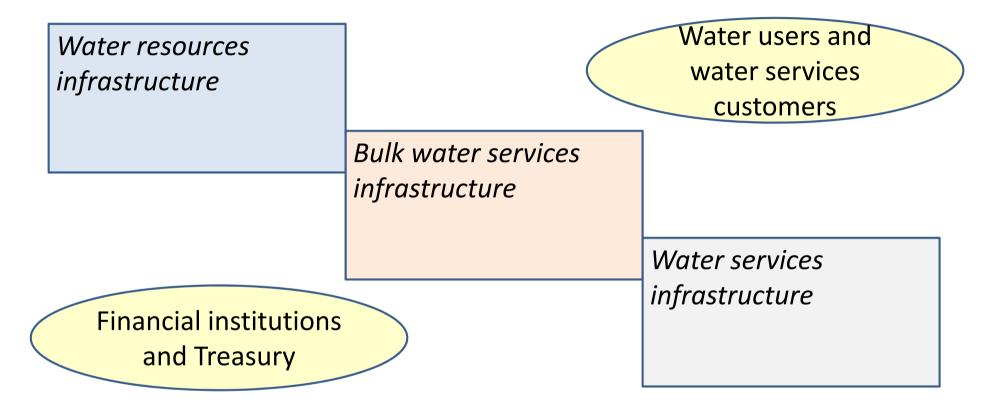
Regulatory authorities and instruments

	Institutions Authority - Provider	Service Instruments	Financial Instruments
Water resources	Minister/DWA • CMA • WUA	NWRSCMSWR Authorisation	 Pricing strategy Business Plans Raw water charge gazette
WR infrastructure	Minister/DWA CMA (authorisation) NWRI/TCTA WUA	NWRS , Recon, etcMinisterialinstruction	 Pricing strategy Business Plans Raw water charge gazette Project financing
Bulk water services	Minister/DWA WSA (contract) • Water Boards	Service contracts	Business PlansTariff determinationnegotiation
Water services	WSA Minister (norms)	• WSDP	LG RegulationsBusiness PlansCouncil tariff approval
	• WSP	• Service contracts?	



Priority economic regulatory issues

Three distinct levels / institutions for economic regulation, with distinct instruments



- Engage transfer of costs to users/customers and institutions
- Engage infrastructure development decisions
- Engage infrastructure maintenance priorities
- Engage sources of infrastructure finance
- Engage the value of the water service