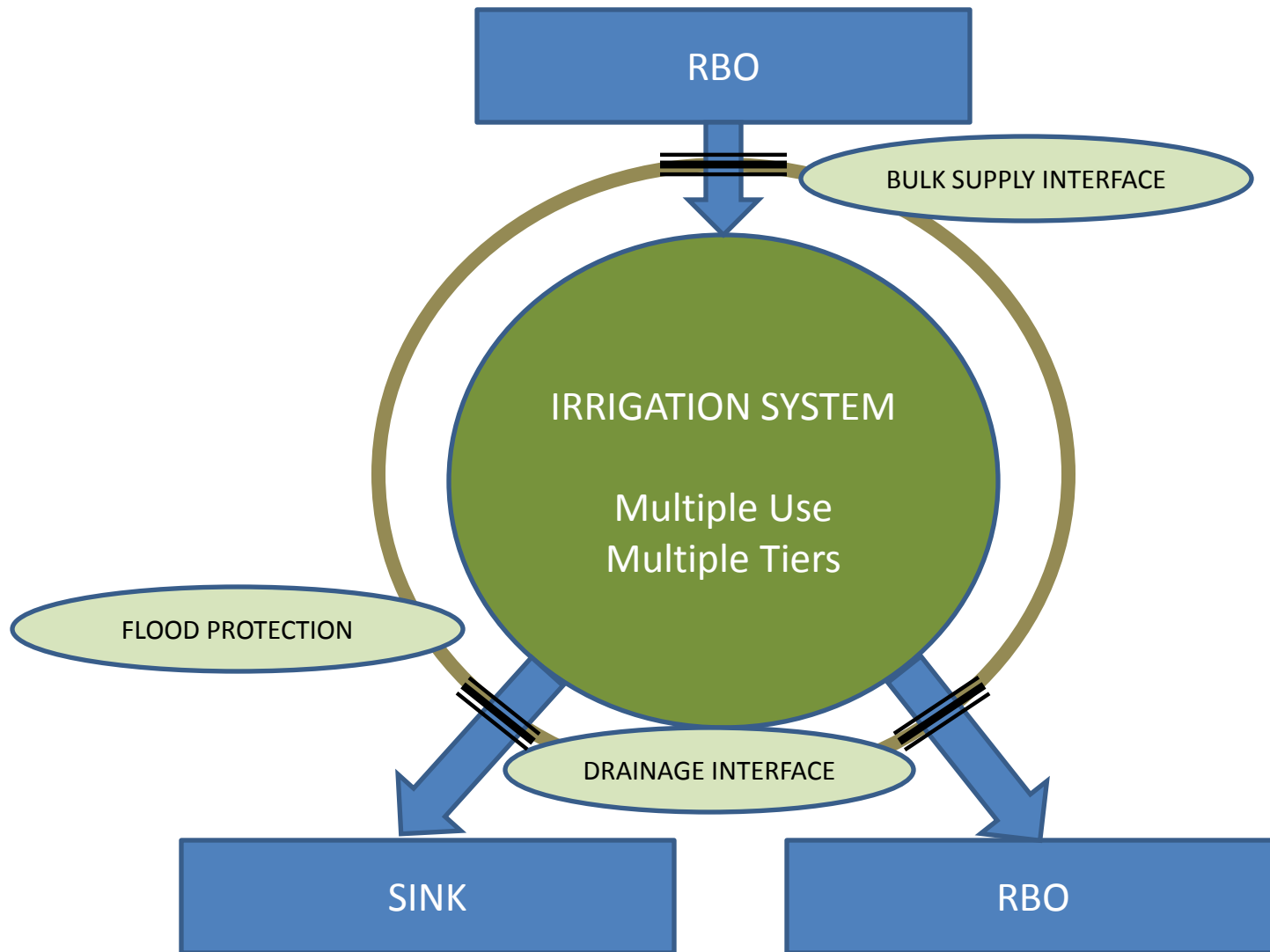


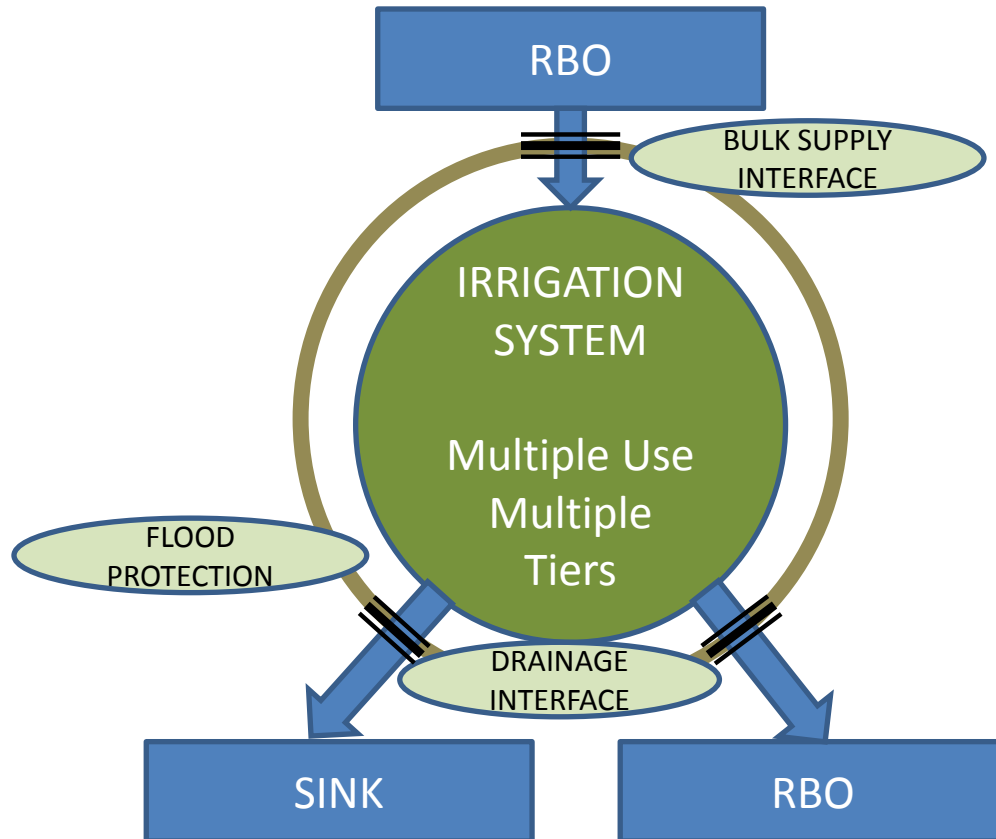
..... and now from bottom up...

Use of ABCDEF to define Irrigation
Management Modernization



Policy Questions

RBO-Irrigation Agency Relation



1. Interfaces

- Where is the interface?
- Who are the parties at either side of the interface?
- What is the forum for decision making?

2. Service Standard

- Delivery rules
 - Water Use Rights
 - Water Ordering Procedures
 - Water quantity-quality
 - Shortage
 - Emergency
- Drainage rules
 - Effluent quality
 - Evacuation capacity
- Flood Protection
 - Security levels
 - Emergency options

3. Monitoring and water accounting



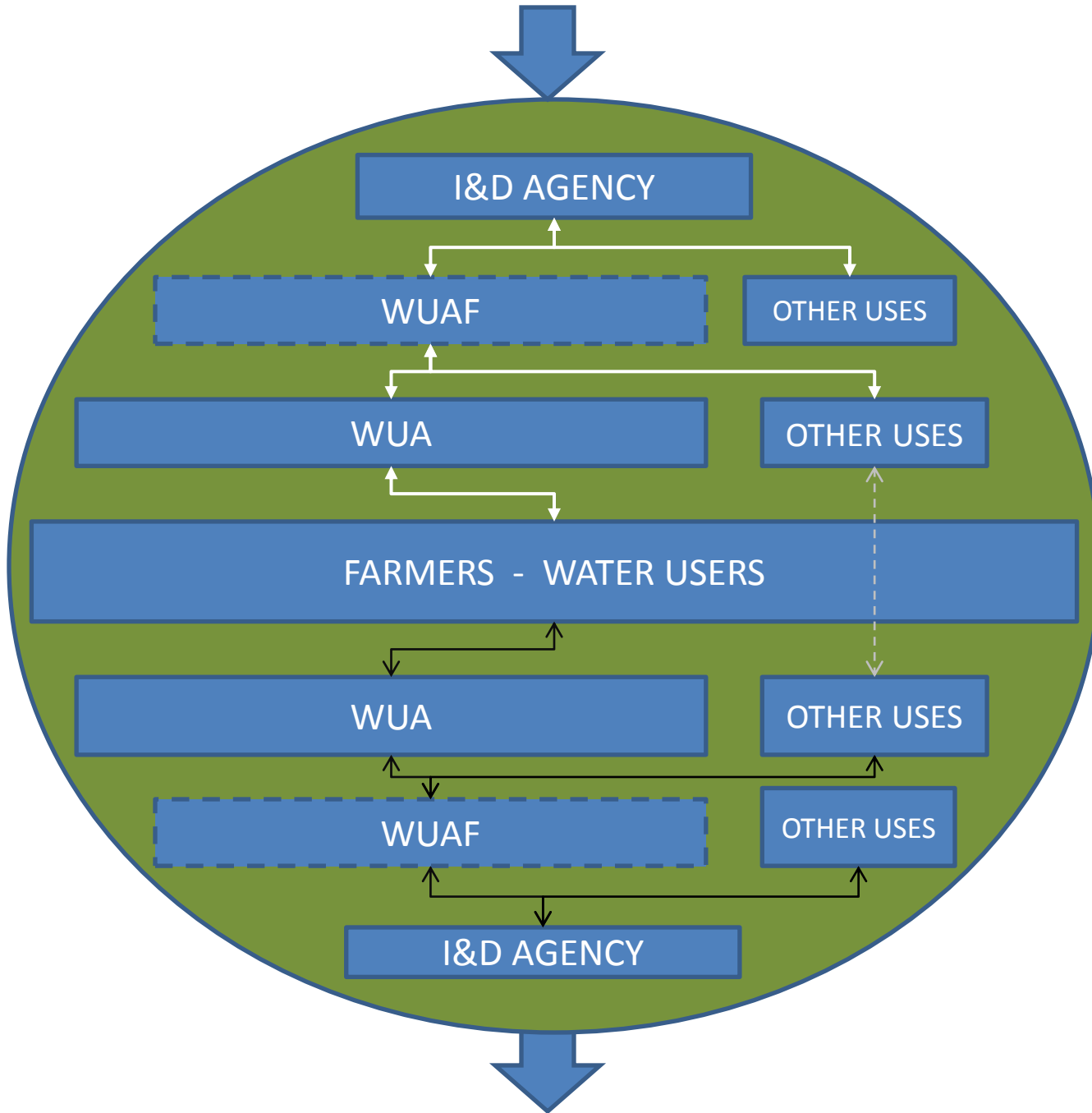
**Service Oriented Management
uncovers
Multiple Uses of Water Services**

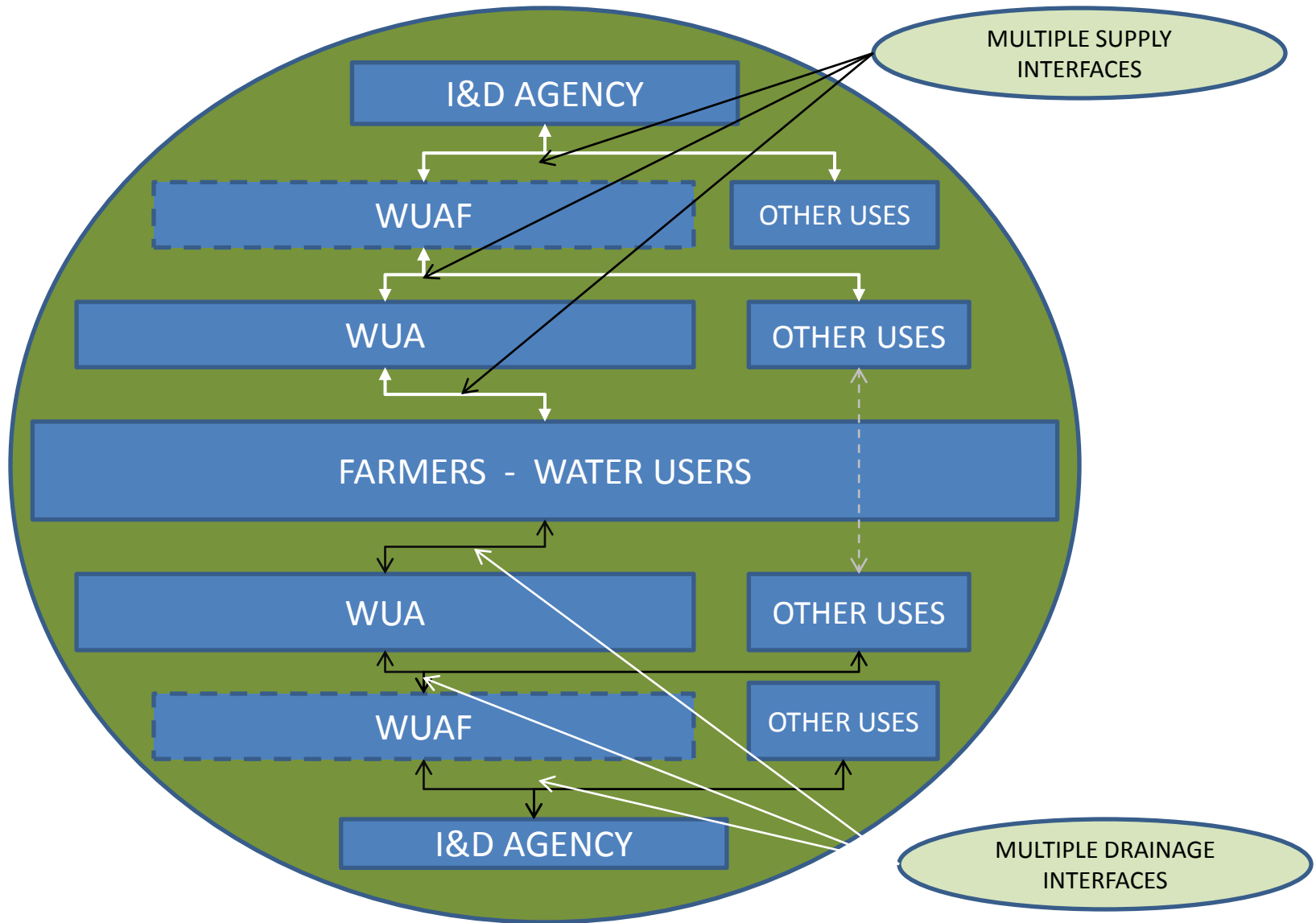
The ABCDEF Framework: Service Interfaces

<i>Level and Typology</i>	<u>A</u> Accounting	<u>B</u> Bargaining	<u>C</u> Codification	<u>D</u> Delegation	<u>E</u> Engineering	<u>F</u> Feedback
Country						
Basin						
<u>Service Interface 1</u> Basin – Main Irrigation System						
Main Irrigation System						
<u>Service Interface 2</u> Irrigation Agency → WUAF						
Sub irrigation systems						
<u>Service interface 3</u> _WUAF - WUA						
WUA-sub system (tertiary units)						
<u>Service interface 4</u> _WUA – Farmer.						

irrigation

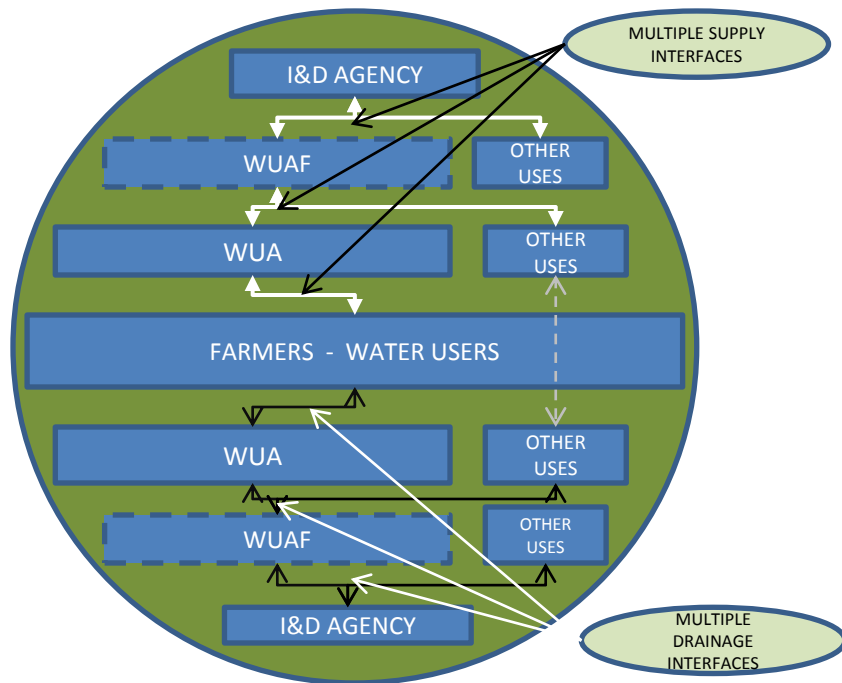
drainage





Policy Questions

Irrigation Agency - WUA(F) – Farmer/water user Relation



1. Interfaces (IA-WUAF-WUA-Farmer)

- Where is the interface?
- Who are the parties at either side of the interface?
- What is the forum for decision making?
- Where does government involvement stop?
- Where does informal water economy take over from formal?

2. Level of Service at each interface

- Delivery rules
 - Water Use Rights
 - Water ordering procedures
 - Water delivery : quantity-quality
 - Shortage
 - Emergency
- Drainage rules
 - Effluent quality
 - Evacuation capacity/water levels
- Flood Protection
 - Security levels
 - Emergency options

3. Monitoring and water accounting

<u>Level and Typology</u>	<u>Accounting</u>	<u>Bargaining</u>	<u>Codification</u>	<u>Delegation</u>	<u>Engineering</u>	<u>Feedback</u>
	Knowing, either precisely or in statistical terms, the quantity and quality of water available and used.	Having a process to decide on priorities for allocation of the available water in specific hydrological conditions	Translating the priorities into rules, regulations and procedures for water allocation	Having the institutions in place to implement the agreed rules and procedures on delivery of service (incl. HR and fiscal arrangements)	Having the physical infrastructure in place to deliver the agreed allocations	
<u>Country</u> climate, demography, economy, trade policy: food security, water security, role agriculture in economic development decentralization/ <u>govt</u> levels management culture and planning system, including planning horizons	National overview of water balance in all river basins. Prioritization of water use	Stakeholder platforms: National water council or higher in case of international rivers/aquifers	Water laws and implementing regulations Incl. Water (use) rights	Institutional structures Unbundling of roles – legislator, regulator, operator Fiscal arrangements		
<u>Basin</u> Open, closed Seasons, storage CC Vulnerability Competition Management	Water accounting systems	MIS and Planning systems, Stakeholder platforms: Basin water council	Basin water management, conservation and allocation plans Service agreements and charges for all uses and users	RBO Revenues Governance Service standard Accountability mechanisms	Hydro-meteo networks, MIS Bulk water management infrastructure i.e. storage, conveyance, diversion flood protection and works,	
<u>Service Interface</u> <u>Basin – Main Irrigation System</u>	Water Account	Irrigation representation in bulk water allocation negotiations	Bulk water service standards and agreements Bulk water allocations	Accountability Mechanism Payments for bulk water delivery	Data Sharing system Discharge Measuring and control Device	

<u>Main Irrigation System</u> Rice, non-rice Surface, ground, conjunctive Gravity, pumped Collective, individual users Other uses	Water accounting systems	MIS and planning systems Stakeholder platforms: Irrigation Committee Other uses	Water allocation and delivery plans Operating strategy Service agreements and charges Cropping plans/schedules	Irrigation service Revenues Governance Service standards Partnership with WUA/WUAF Accountability mechanisms	Storage; Abstraction, conveyance, distribution and delivery ; drainage; Recharge Flow control, regulating, monitoring and measuring	
<u>Service Interface Main Irrigation – Sub-Irrigation System</u> (e.g. Irrigation Agency - (Federated) WUAs)	Water account	WUAF (and possible other users) representation in water allocation negotiations	WUA(F) water use rights	Service standards Role sharing, Governance Partnership Revenues	Data Sharing Measuring and control Device	
Sub irrigation systems Intermediate delivery (e.g. secondary systems under different management as the "upstream system".	Water accounting systems	MIS and planning systems Stakeholder platforms:	Water allocation and delivery plans Operating strategy Service agreements and charges Cropping plans/schedules	WUAF organization – staff , capacity Irrigation service Service standards Accountability mechanisms Formalization WUA, rights and obligations, revenue and charges	Storage Abstraction, conveyance, distribution and delivery – Drainage Recharge Flow control, Monitoring and measuring Distribution and farm gate delivery	
<u>Service interface WUAF - WUA</u>	Water account	WUA (and possible other users) representation in water allocation planning and distribution schedules			Data Sharing Measuring and control Device Payment mechanism	