



A new phase of river management - The future of environmental water trading

Monday, 3 September 2007

Dr Mark Siebentritt - CEO, Waterfind Environment Fund (WEF)

Overview

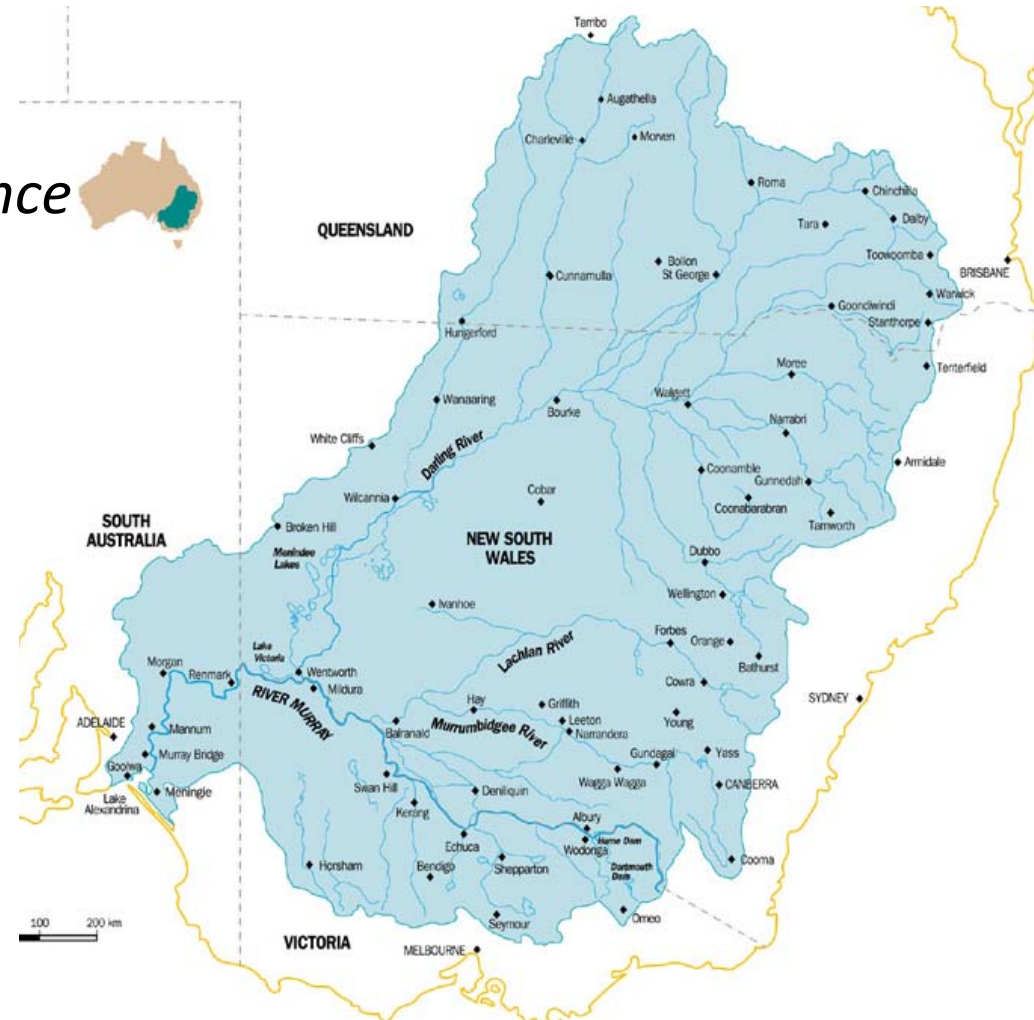
1. Setting the scene
2. Environmental water trading
3. Waterfind Environment Fund
4. Opportunities and challenges

(1) Setting the scene

Setting the scene

Murray-Darling Basin at a glance

- Covers 14% of Australia
- \$23 billion economic output
- 24,300 GL annual run-off
- 11,431GL average diversions
- “Off-stream” e-flow delivery



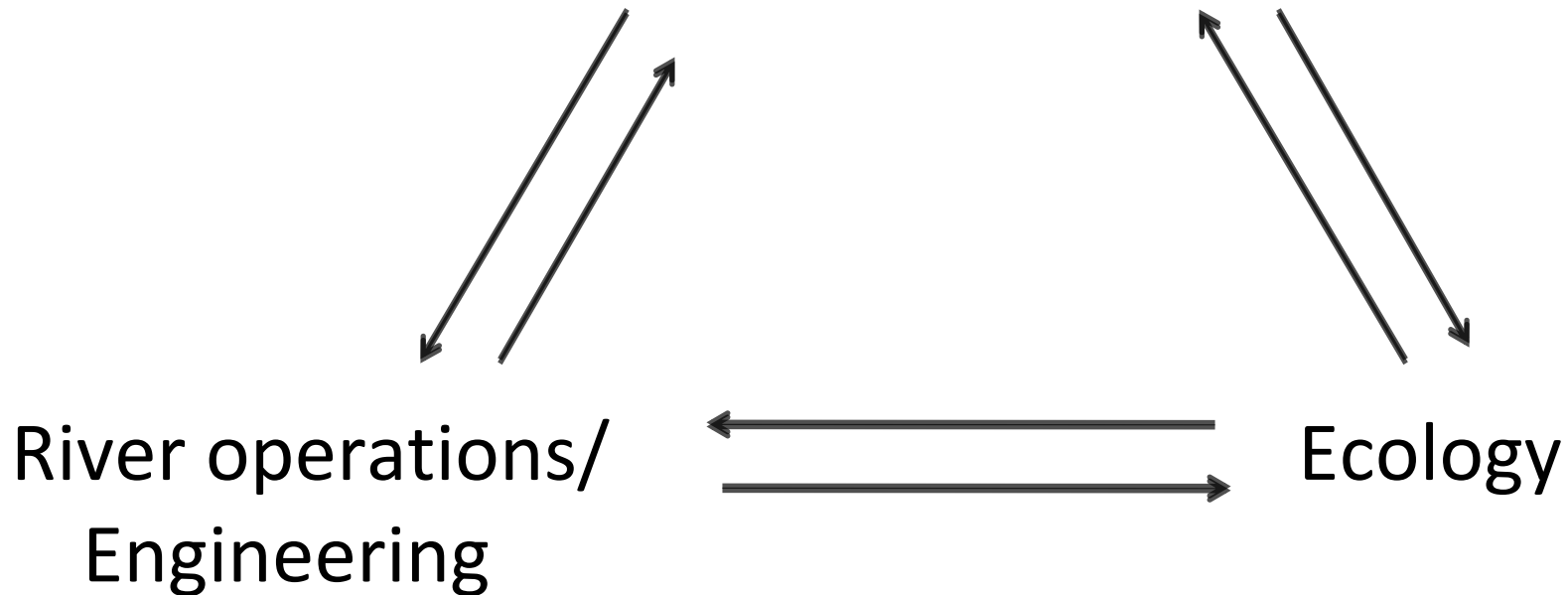
Source: MDBC

Setting the scene

1. History of water resource development and more recently overextraction
2. Environmental degradation
3. Water resources of the MDB were capped
4. Water market development
5. New phase of environmental management

NEW PHASE OF ENVIRONMENTAL MANAGEMENT

Water markets



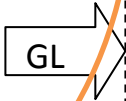
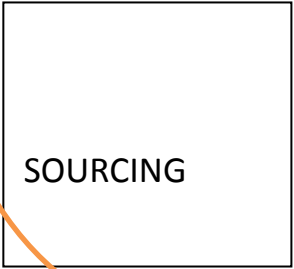
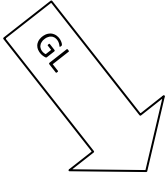
(2) Environmental water trading

1. ACQUIRE WATER
PRODUCTS

1. ACQUIRE WATER

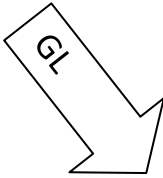
PRODUCTS

Entitlements
transferred from
existing licences

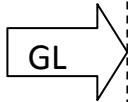


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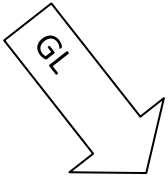
SOURCING



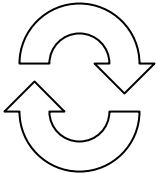
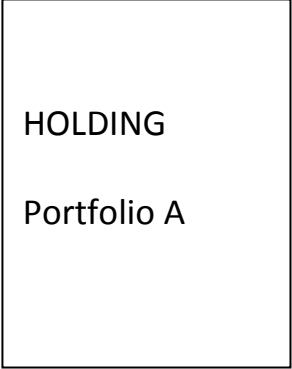
2. DELIVERY AND WATER PORTFOLIO MANAGEMENT

1. ACQUIRE WATER

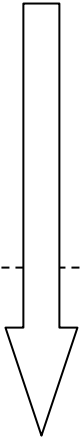
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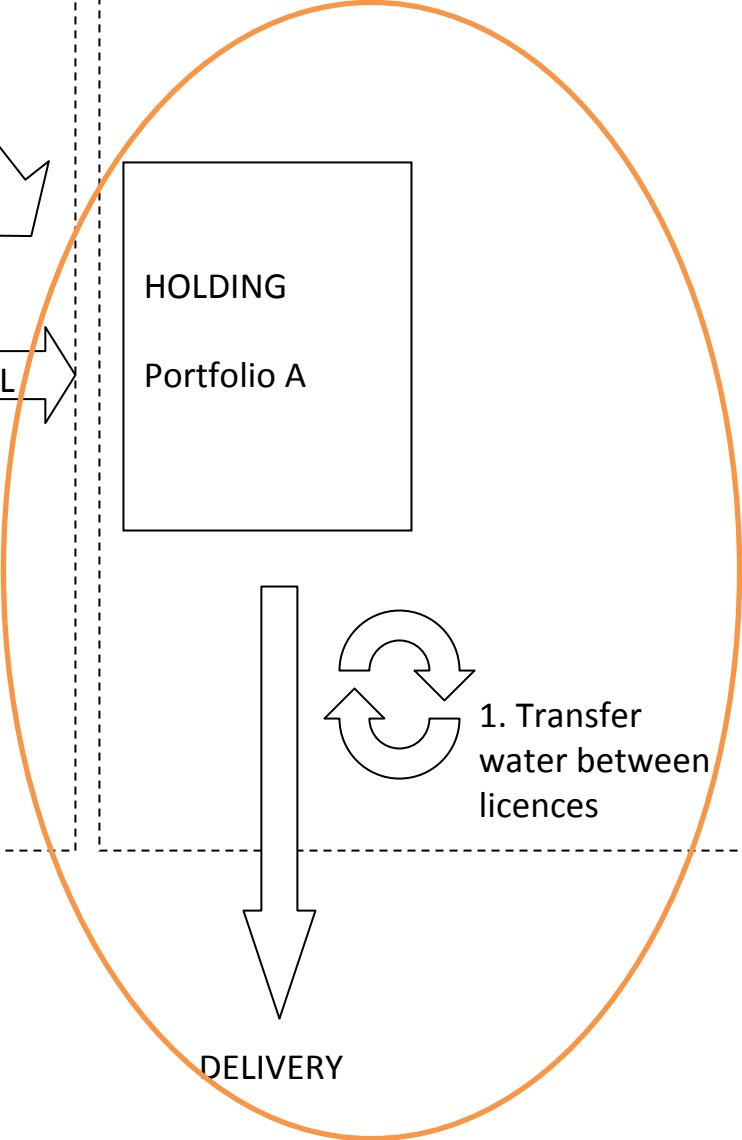
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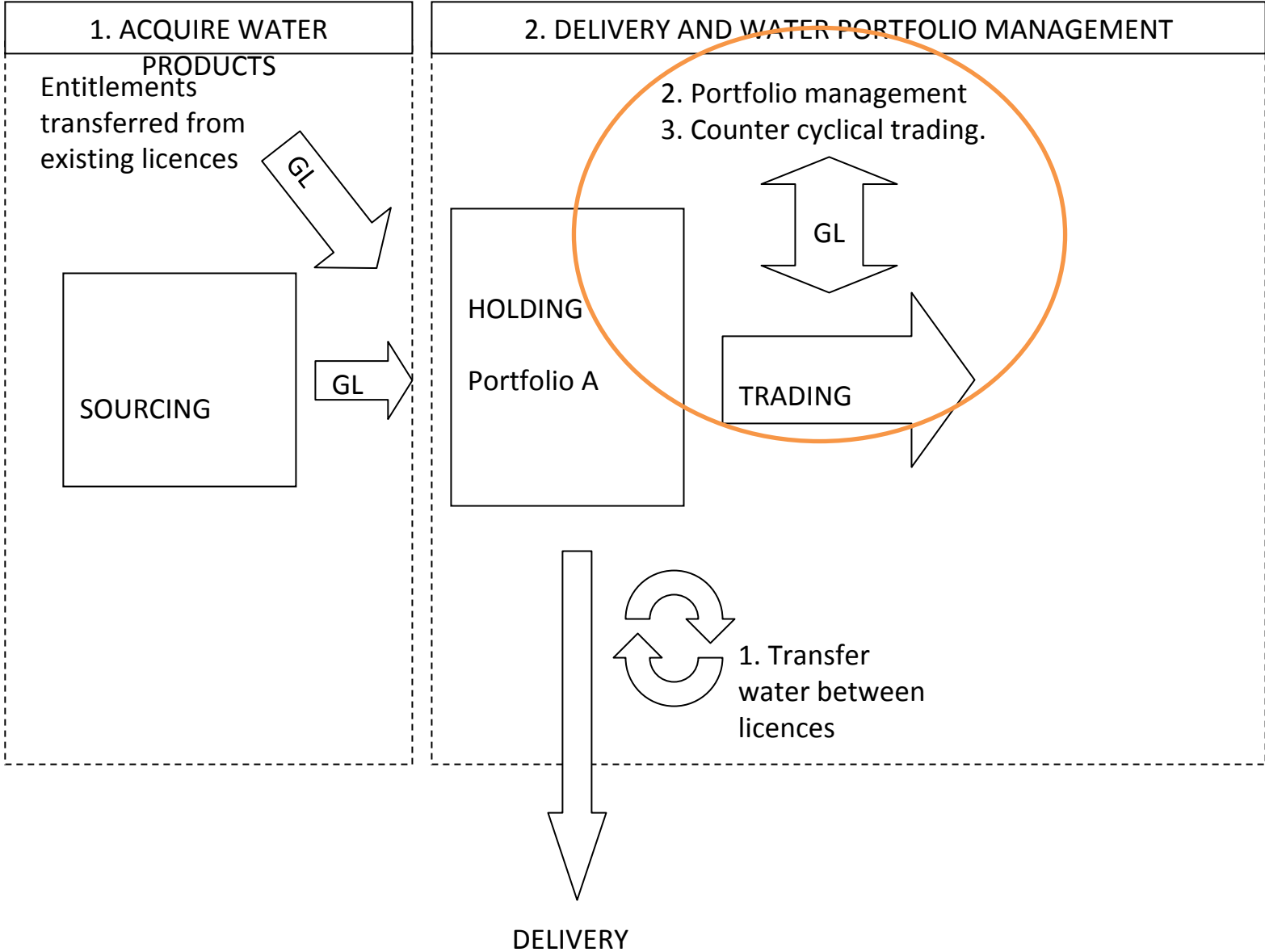


1. Transfer
water between
licences



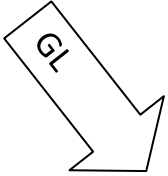
DELIVERY





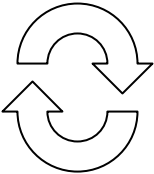
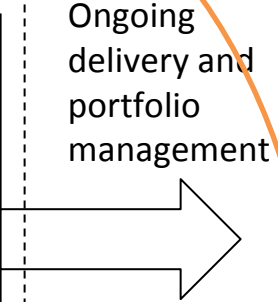
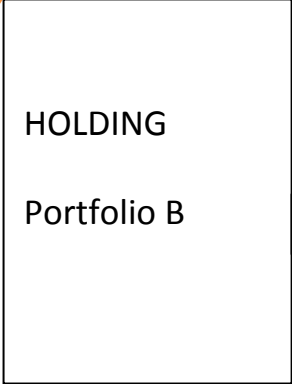
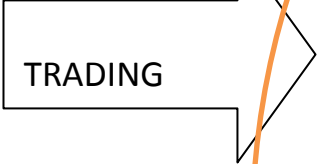
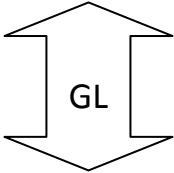
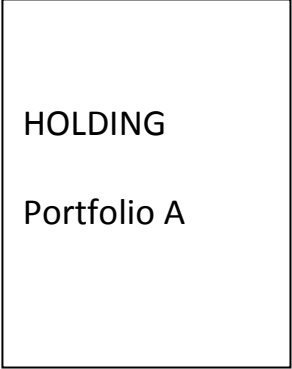
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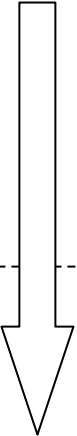


2. DELIVERY AND WATER PORTFOLIO MANAGEMENT

- 2. Portfolio management
- 3. Counter cyclical trading



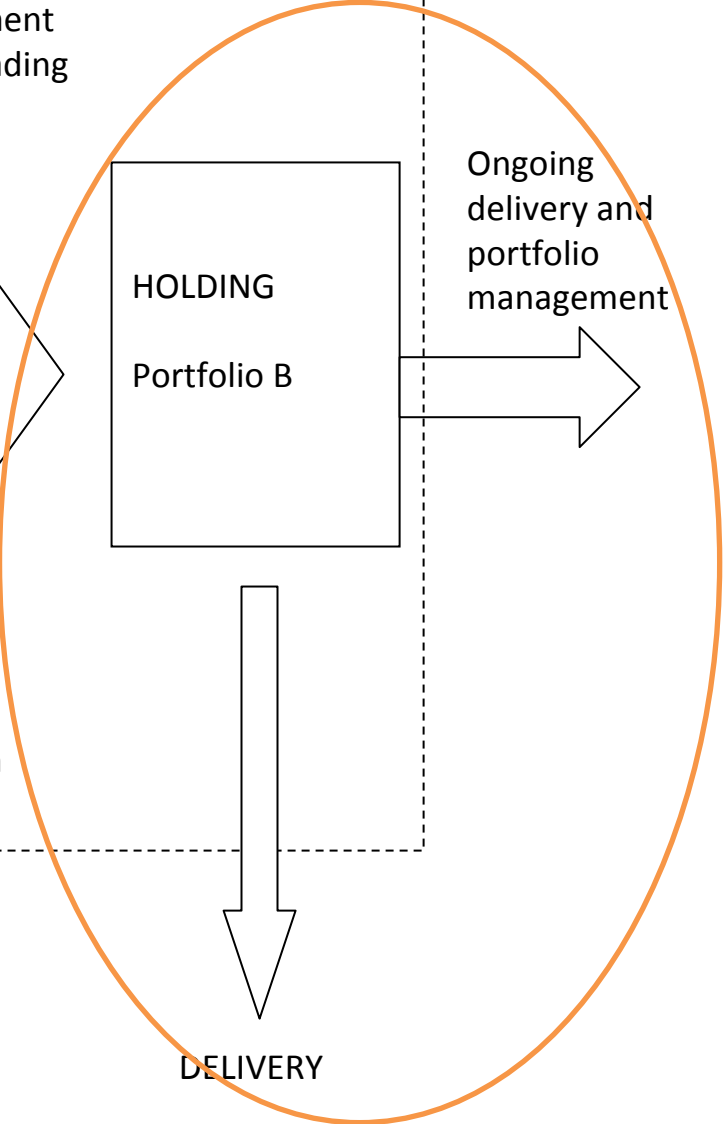
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DELIVERY

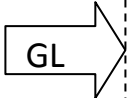
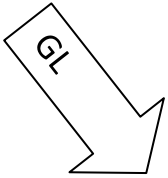


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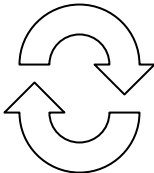
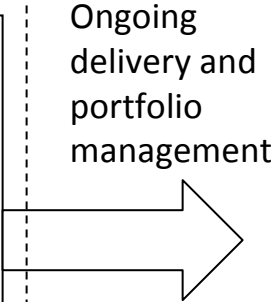
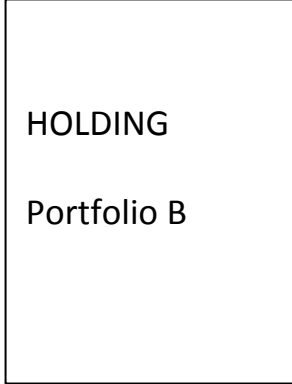
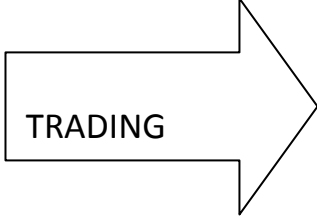
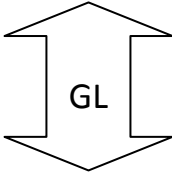
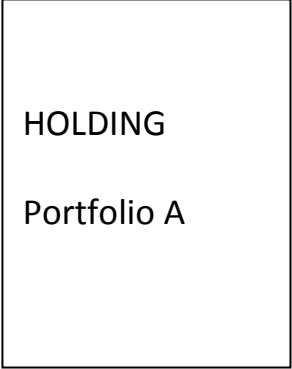
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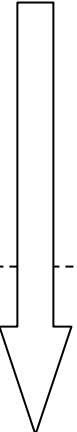


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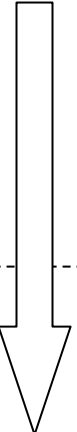
2. Portfolio management
3. Counter cyclical trading



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DELIVERY

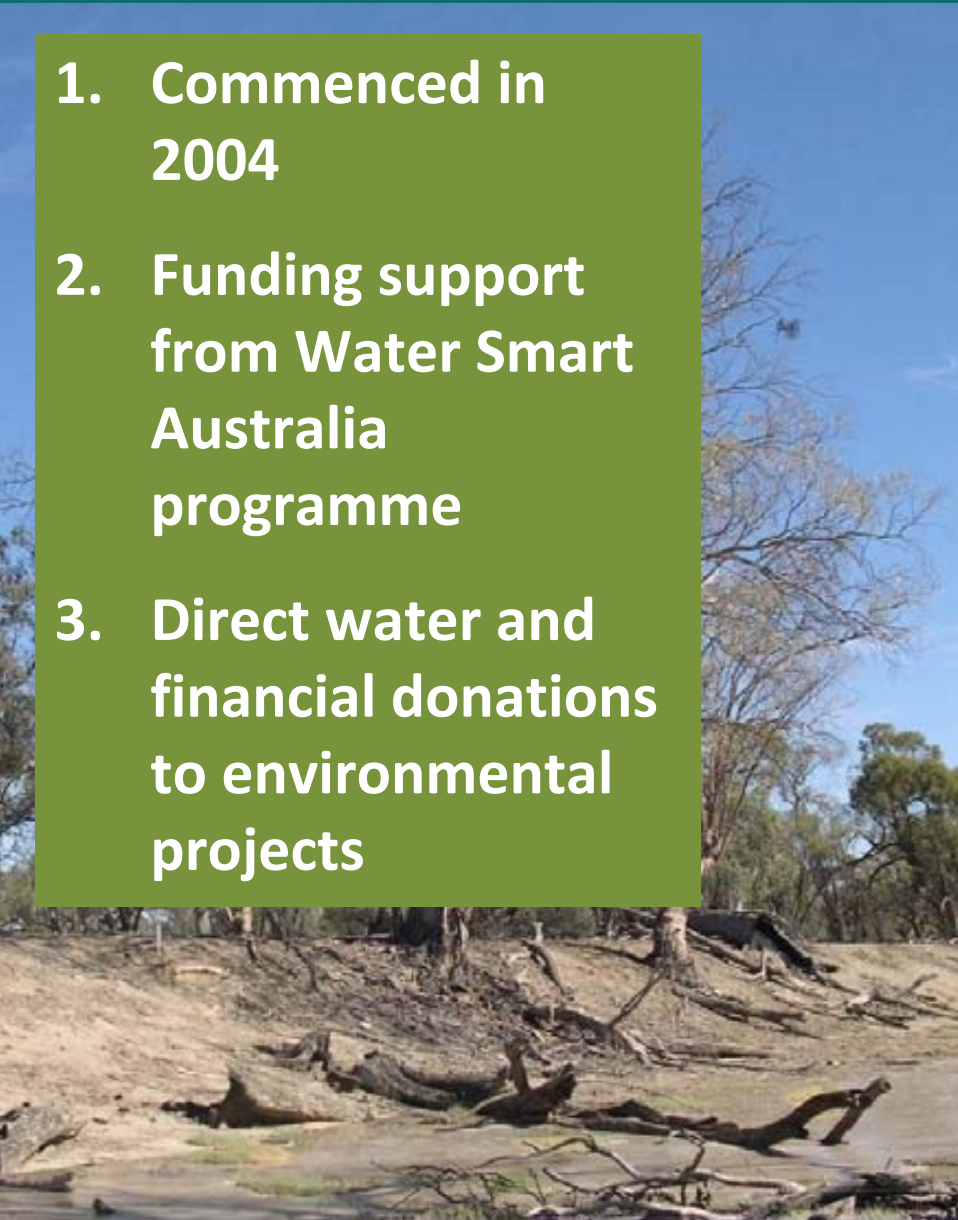


DELIVERY

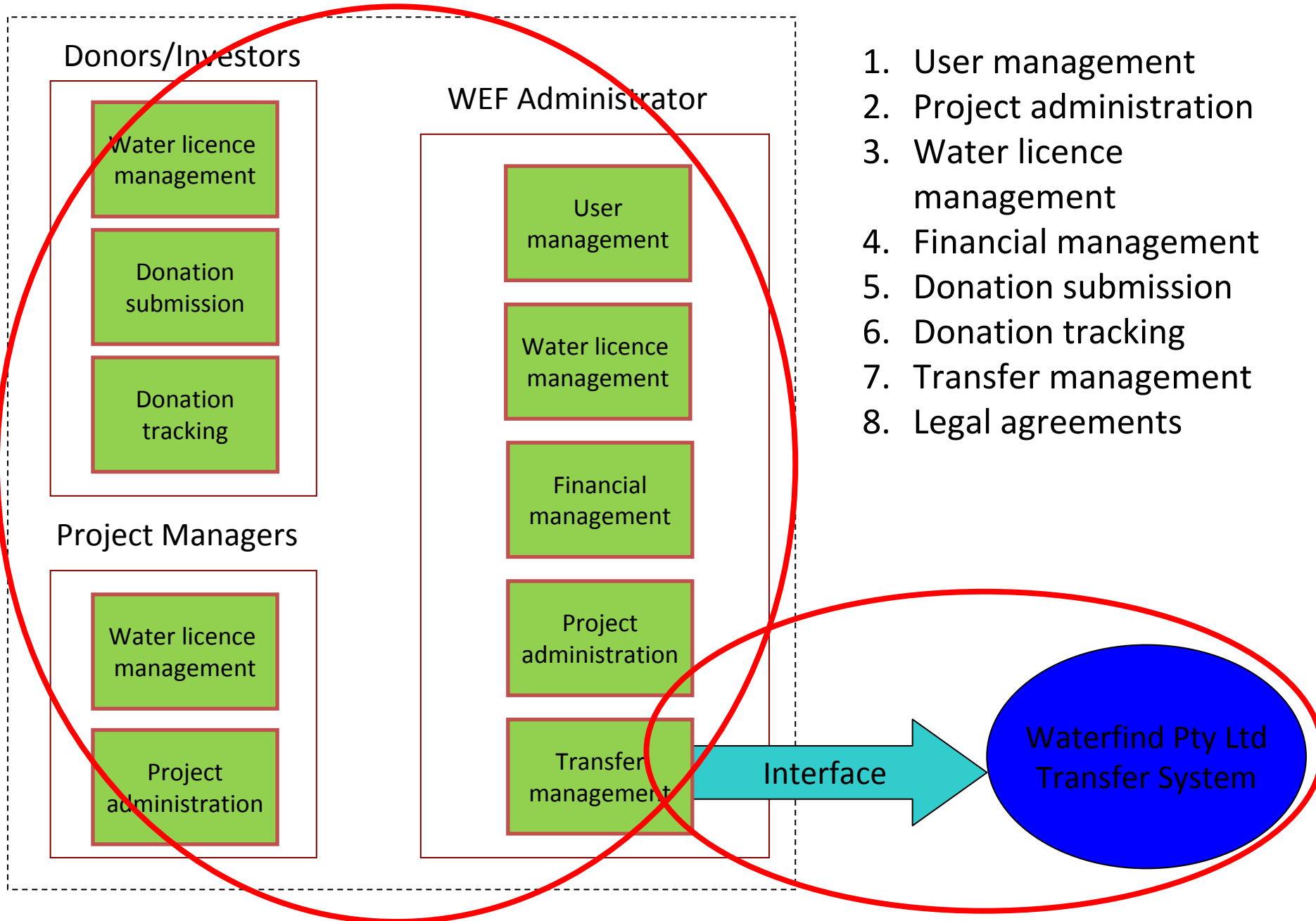
(3) Waterfind Environment Fund *views from a not-for-profit*

Waterfind Environment Fund

1. Commenced in 2004
2. Funding support from Water Smart Australia programme
3. Direct water and financial donations to environmental projects



WEF Overview



1. User management
2. Project administration
3. Water licence management
4. Financial management
5. Donation submission
6. Donation tracking
7. Transfer management
8. Legal agreements

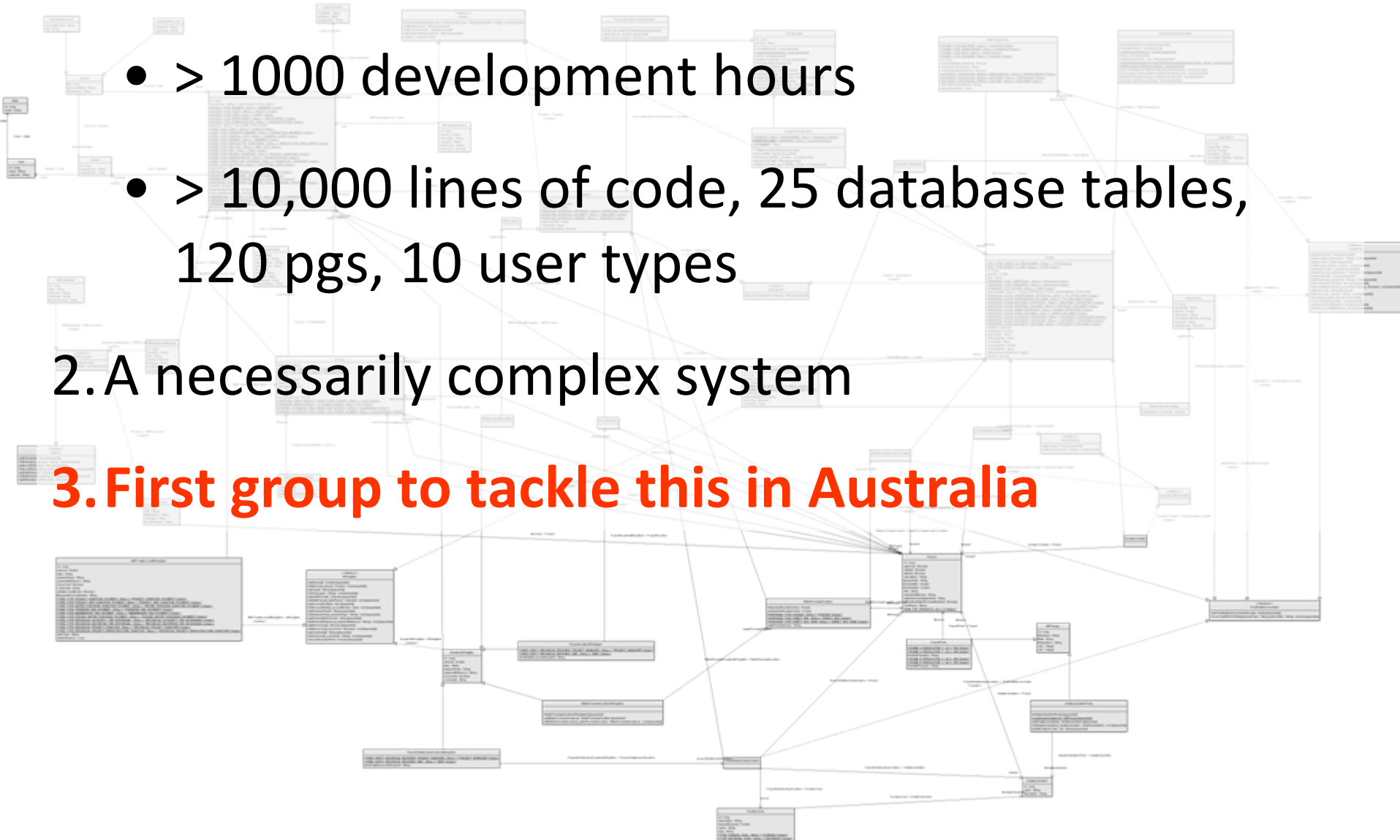
Software architecture

1. Basic stats

- > 1000 development hours
- > 10,000 lines of code, 25 database tables, 120 pgs, 10 user types

2. A necessarily complex system

3. First group to tackle this in Australia



(4) Challenges

Challenges

1. Drought
2. Financial management
3. Role of public versus private sector
 - a) Roles
 - b) Private sector investment
4. Supporting infrastructure is complex – perhaps prohibitively

(5) Summary

Summary

1. A new phase of river management – environmental water trading a core part
2. Sourcing, holding and trading
3. Supporting infrastructure is complex
4. Unique opportunities and challenges – public and private sector

Waterfind
Environment Fund



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FEATURE PROJECTS



This is a River Red Gum Rescue re-water site under the South Aust...

Read more about [Akuna Station](#)



This is a River Red Gum Rescue re-water site under the South Aust...

Waterfind Environment Fund commenced in 2004 and provides communities and businesses an easy way to help Australia's river systems. We provide a not-for-profit service to direct water and financial donations to projects that are helping to improve the health of Australia's river systems.



Holding (1)

- Managing water licenses
- Active environmental water management
- Communications
- WEF's holding licence