Australia – water partners for development

HELPING to MANAGE WATER SCARCITY in the INDO-PACIFIC

Understanding the water resource base

River basin planning & water allocations framework

Governance reforms & institutional strengthening

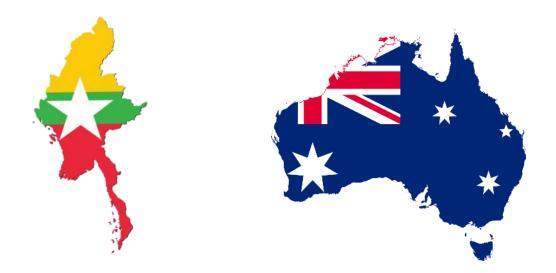
Managing demand & improving efficiency

Australian Aid 🔶

An initiative of the Australian Government.

THE AUSTRALIAN WATER PARTNERSHIP

Image by Dave Kan Sunshine Coast, Queensland Australia



Ayeyarwady – Murray Darling Basin twinning relationship

Prof. Dr. Khin Ni Ni Thein, Secretary NWRC Advisory Group Tarek Ketelsen, Myanmar Coordinator, Australia Water Partnership

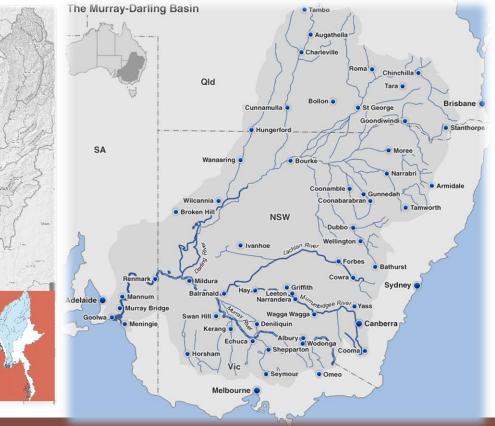
The Ayeyarwady – Murray Darling twinning relationship

- A strategic, basin-to-basin partnership, to support sustainable management of the Ayeyarwady River Basin.
- Share experiences from our processes of planning, utilizing, conserving and managing our national rivers.
 - Science
 - Policy
 - Consultations
- A program of capacity building and institutional strengthening



Our national rivers

	MDB	АВ
Area (mil.km2)	1.1	0.41
Length (km)	2,740	2,170
Population (millions)	~ 2	35
Average Rainfall (mm/yr)	300–1,500 (average 470)	~600 - >3,000
Discharge (km3/yr)	24.3	400



- Two very different basins
- United by a common vision for IWRM reform



waterpartnership.org.au

A snap shot of water management in the MDB

A snap shot of water management in Myanmar



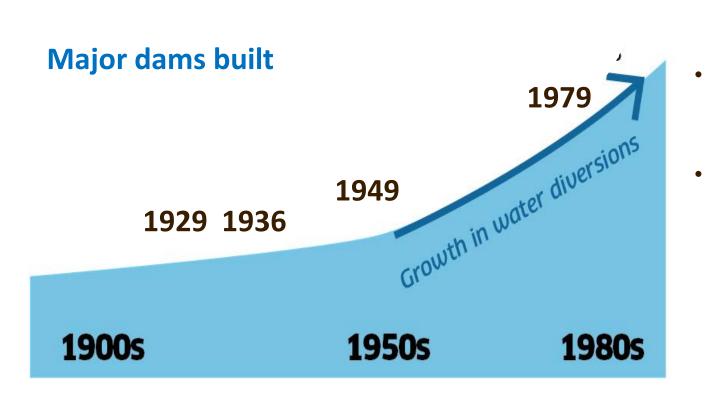


1915 River Murray Waters Agreement



waterpartnership.org.au

The Australian story... Rapid growth in water extraction



- \$6.7 billion annual irrigated agricultural production
- Australia's major foodbowl
- Many thriving rural cities and towns built around irrigation farming and services



waterpartnership.org.au

The Australian story... but at a big cost to the Murray-Darling system

- Land clearing and salinity
- Erosion
- River mouth sedimentation & closure
- Toxic algal blooms
- Loss of biodiversity

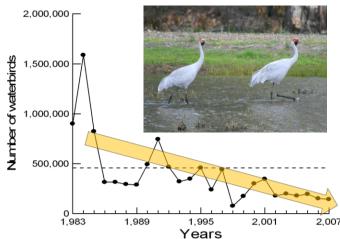












The Australian story... Development decades – before 1990's

- Didn't know who was entitled to what water
- Unmeasured water use
- Inefficient water use
- Fully or over-allocated many river systems
- Difficulties in moving water to higher value uses
- Poor pricing policy
- Inefficient institutional structures
- Poor return to economy from water use
- Environmental degradation
- Environmental, social and economic costs of exceeding resource use limits



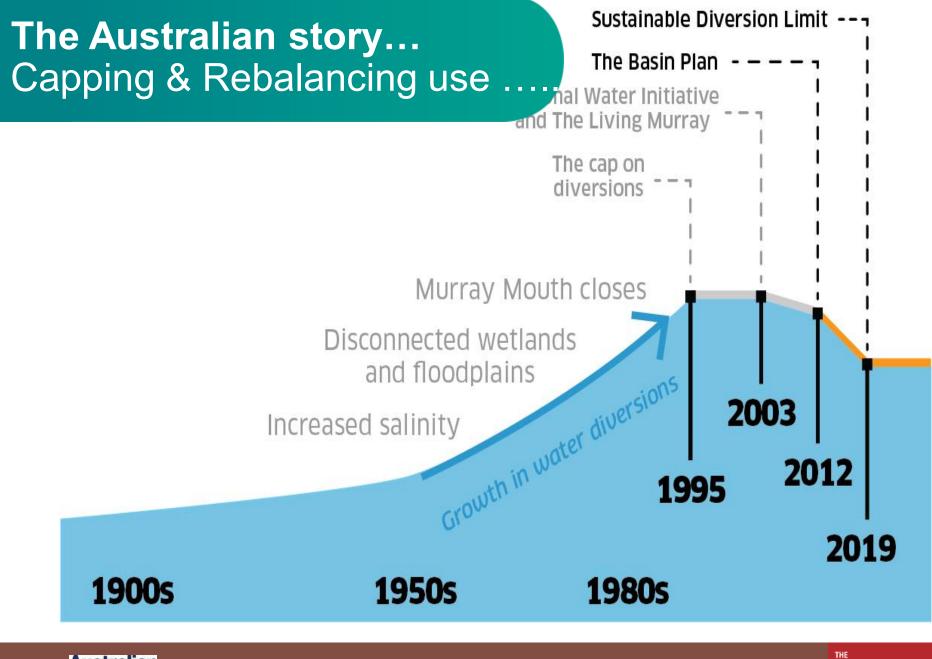
Ackn: Prof. Jane Doolan

waterpartnership.org.au

THE AUSTRALIAN WATER PARTNERSHIP



8



waterpartnership.org.au

AUSTRALIAN

PARTNERSHIP

WATER



9

Key Elements of Water Reform in MDB (1)

- Integrated water planning to provide
 - Clear, secure water entitlements for all users
 - Environmental entitlements and provisions
 - Improved participatory decision making
- Functioning water markets (ability to redistribute water use for higher economic return)
- Improved information base monitoring, metering and <u>water accounting</u>
- Focus on efficiency
 - Irrigation High value crops, sustainable irrigation industry
 - Urban security of supply and liveability
- Rebalancing human and environmental use of water

Ackn: Prof. Jane Doolan

USTRALIAN

PARTNERSHIP



waterpartnership.org.au

Overview of the twinning relationship

providing opportunity for MDB water managers, scientists and engineers to support, contribute and partner with the Government of Myanmar during the development of the first Ayeyarwady River Basin Master Plan.

- 1. build capacity of the Government of Myanmar through the NWRC Hydro-Informatics Centre staff and related technical staff from DWIR, DMH and concerned Departments;
- 2. Partner Australian and Myanmar technical staff for the development of key Ayeyarwady basin planning products such as
 - the State of Basin Assessment (SOBA) Report
 - Basin Development and Conservation Scoping Study,
 - River Basin Master plan



USTRALIAN

PARTNERSHIP

Twinning partners... so far





waterpartnership.org.au

Nature of the twinning

Nature of support	Expertise required	Level of effort
Strategic advisory support : basin planning formulation, trade-off analysis and stakeholder consultations and conflict resolution.	High-level MDB managers with experience in developing and implementing water policy and plans in the MDB	Short duration, focussed inputs 2-3 times per year
Technical mentoring : technical input, mentoring and support to HIC for SOBA Report & BMP	Senior water specialists with experience in developing substantive components of river basin plans, (water engineering, environmental science, resource economics, GIS etc).	Short duration, focussed inputs 4 times per year.
Peer-review: peer-review of the SOBA Report and the BMP, including leading a multi-disciplinary, independent peer review panel.	Senior MDB planning specialist to co-chair the review panel and MDB technical specialists as members.	Short duration, focussed inputs 1-2 times per year.
Capacity-building: Institutional strengthening of the HIC and other committees and organisations engaged in the implementation of the AIRBM Project.	Key personnel at government institutions and other organisations involved in the MDB (e.g. the MDBA, BOM, Irrigators associations etc).	1-2 Study tours per year for selected delegations of GOM water managers or technical specialists.



Launch of the twinning , August 2017

- Press launch
- MDBA launch mission





waterpartnership.org.au

Highlights of the twinning to date

- 1. River basin modelling with SOURCE (Dec 2016)
- 2. Hydraulic modelling training (Jan 2017)















waterpartnership.org.au

Highlights of the twinning to date

- Hydrographic field survey training and rating curve review (Feb – March 2017)
- Ayeyarwady State of the Basin Assessment (SOBA) (Jan 2016 Sept 2017)



waterpartnership.org.au

WATER PARTNERSHIP





Thank you for your attention



waterpartnership.org.au