

# **ICID Workshop in Montreal**

## *“Benchmarking of Irrigation and Drainage Projects”*

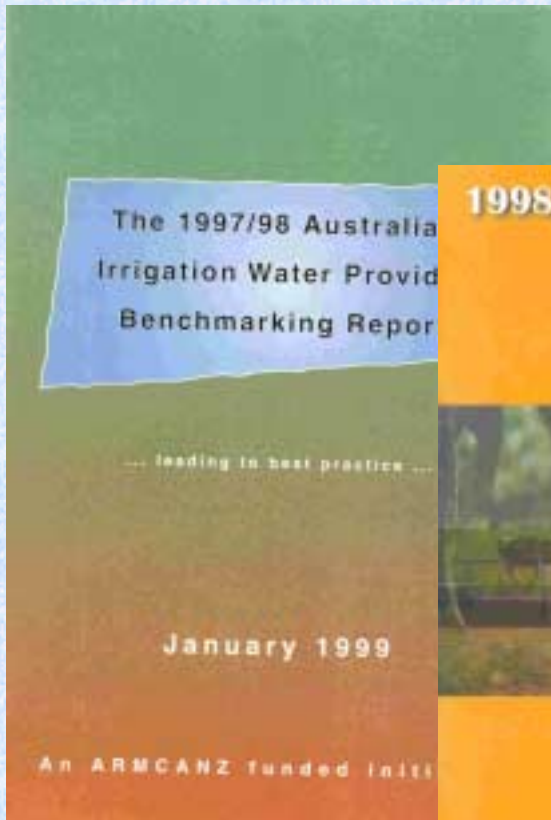


**ANCID**

**22 July 2002**

# The Journey so Far!

## Irrigation Water Provider Benchmarking Reports



1997-1998

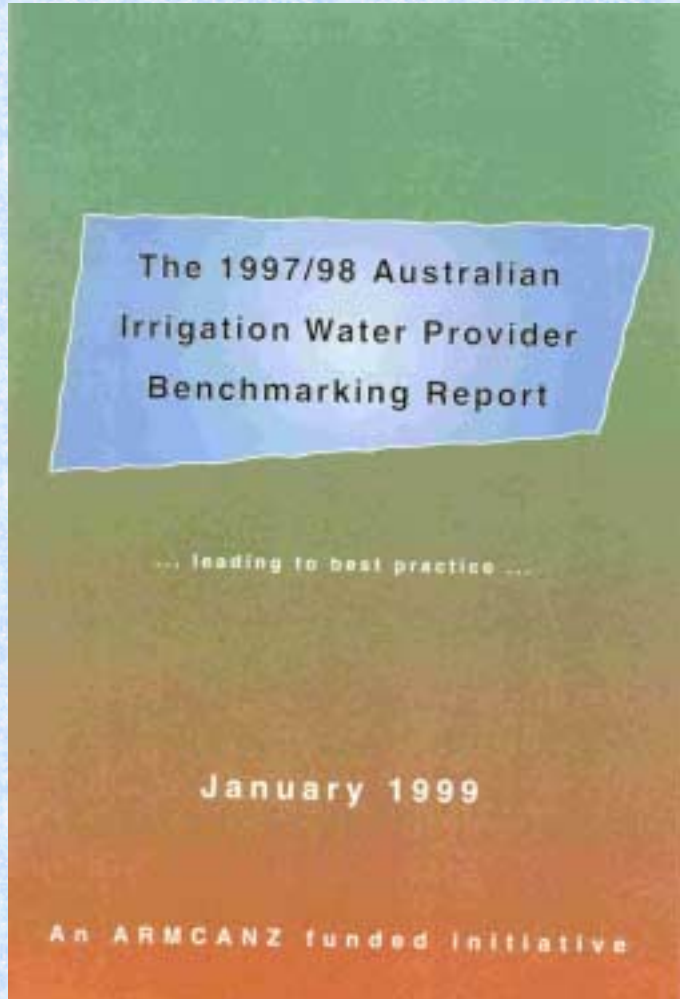


2000 - 2001





# **Initial Irrigation Water Provider Benchmarking Report: 1997/98**



- 33 Irrigation Water Provider
- 15 Performance Indicators
- demonstrate value
- generate ownership
- process to evolve over time
- Booklet Publication

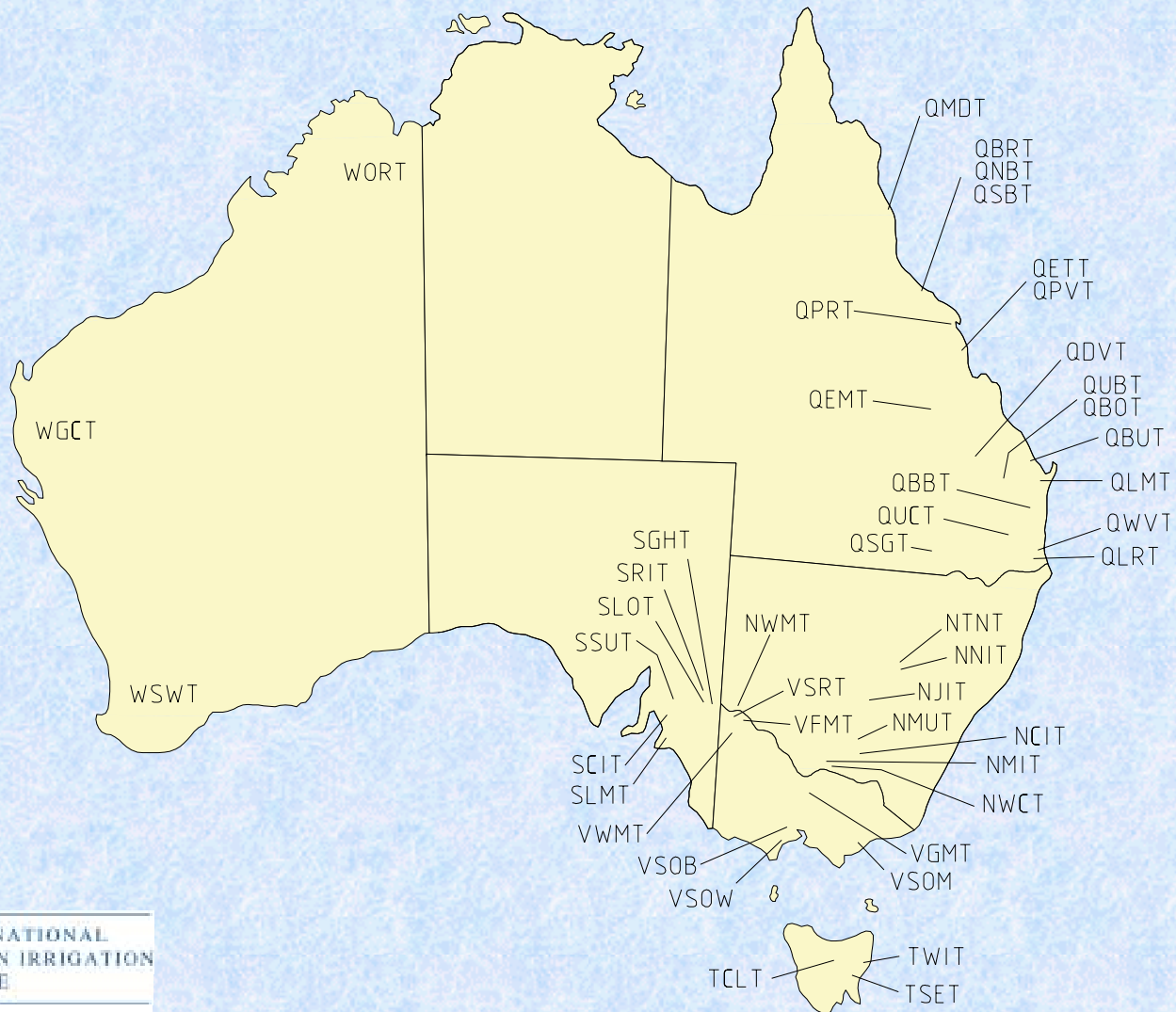
# **Latest Irrigation Water Provider Benchmarking Report: 2000/01**



- CD ROM in folder
- 40 Irrigation Water Providers
- 65 Performance Indicators



# Location of Reported Irrigation Water Providers in Australia (2000/01)



# ANCID 2000/01 Irrigation Water Provider Benchmarking Report

Indicators are grouped into 4 Industry Business Drivers:

1 - Operational Performance (12 Indicators)

2 - Financial Performance (14 Indicators)

3 - Environmental Performance (25 indicators)

4 - Business Performance (14 indicators)



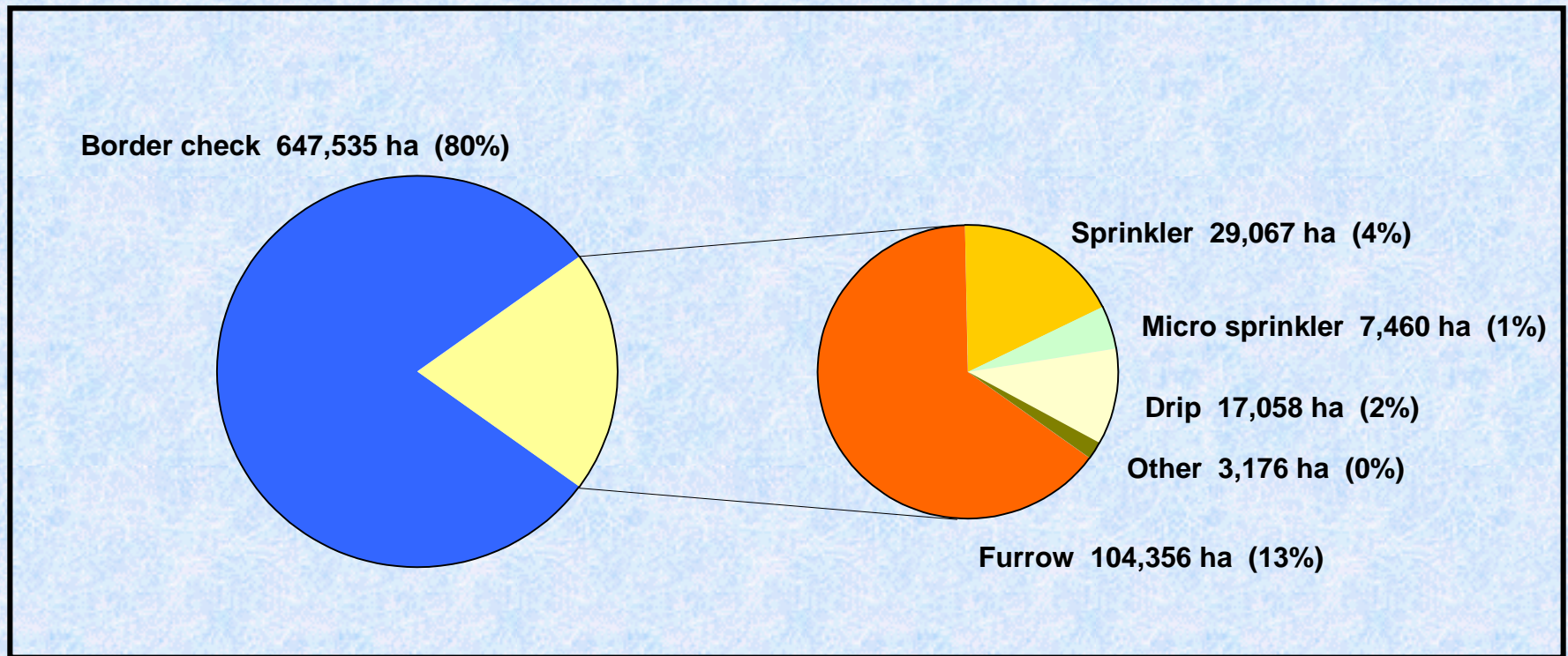
# **Key Facts Reported in ANCID 2000/01 Benchmarking Report**

Report covers 50% - 60% of the total irrigation water use in Australia

• <b>Total Area of Systems</b>	<b>- 3.1 million hectares</b>
• <b>Total Area Irrigated</b>	<b>- 1.2 million hectares</b>
• <b>Annual Irrigation Water Entitlement</b>	<b>- 8 million megalitres</b>
• <b>Total Volume of Irrigation Water Delivered</b>	<b>- 6.5 million megalitres</b>
• <b>Total No. of Irrigation Customers</b>	<b>- 36,045 entities</b>
• <b>Total No. of Towns Supplied</b>	<b>- 90 towns</b>
• <b>Natural water courses used for Water Distribution</b>	<b>- 2,425 km</b>
• <b>Total Length of Irrigation Supply Channel</b>	<b>- 16,862 km</b>
• <b>Total Length of Irrigation Supply Pipeline</b>	<b>- 3,345 km</b>
• <b>Total No. of Persons Employed</b>	<b>- 1,491 people</b>
• <b>Gross Value of Production</b>	<b>- \$5,056 million</b>
• <b>Gross Revenue</b>	<b>- \$201 million</b>
• <b>Current Replacement Value of Assets</b>	<b>- \$3,461 million</b>

# Indicator Reported (2000/01)

## *Irrigation Water Application Methods*





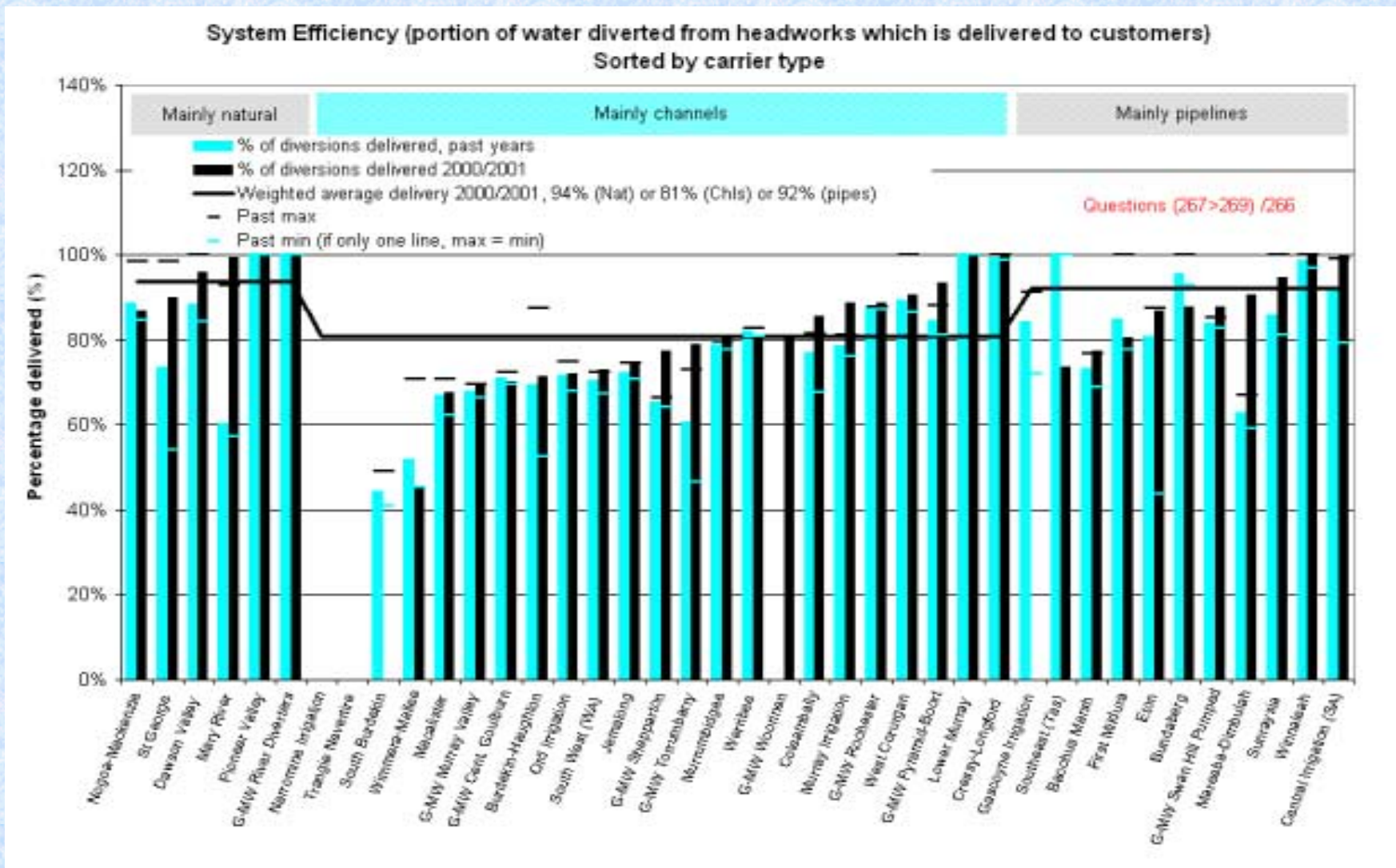
# ANCID 2000/01 Benchmarking Report

## *Key Conclusions*

- Water deliveries are up by 27% to 6.5 million megalitres
- Reported on-farm water reuse has increased to 89,000 ML/yr
- Average operating cost is reduced to \$790/km
- Around 85% of businesses have prepared Environmental Management Plans
- 35% of businesses use the Internet as part of their customer management system
- Increased focus on natural resource management, water trading and delivery efficiency
- Delivery efficiencies have increased from 77% to 82%

# Indicator Reported (2000/01)

## System Efficiency





# **ANCID Participation in IPTRID Benchmarking Pilot Project**

- Indicators and Descriptor data submitted for 28 systems in May 2002
- Key facts on the 28 systems:
  - drawn from all six States in Australia
  - vary in size from 7,000 ha to 800,000 ha
  - includes pumped (high and low pressure), gravity, open channel and piped systems
- ANCID is committed to continue to provide data in the future

# Definitions

## What is the difference between a Descriptor and an Indicator?

### Descriptor/Statistic

#### *Definition:*

- Statistic which outlines a characteristic of the system

#### *Use:*

- Provides information on key elements of a system
- Enables normalisation of indicators between different systems

### Indicator

#### *Definition:*

- Measure of the performance of an irrigation water providers business

#### *Use:*

- Enables comparisons within and between irrigation water provider businesses



# ANCID Irrigation Water Provider Benchmarking

## Concerns Raised by Participants:

- Are we collecting and reporting the right data?
- Are the indicators reported accurate?
- How can ANCID maintain interest in Benchmarking?
- How is the benchmarking process to be funded in the future?

## OUTCOME:

ANCID convened a two-day workshop to address concerns

# ANCID Irrigation Water Provider Workshop

24 and 25 June 2002 in Melbourne, Australia

- Attended by 28 people, including:
  - System Managers
  - Catchment Managers
  - Consultants
  - ANCID Executive
- Resulted in a fundamental shift in the way that ANCID is to approach irrigation water provider benchmarking in the future





# ANCID Irrigation Water Provider Workshop (Cont.)

## Issues addressed over the course of the workshop:

- Accuracy of Information
- Control over who has access to the data and information



- What is a Benchmarking Indicator?
- Facilitating increased participation
- Consistency in data and results

***Future Benchmarking must lead to improvements in the Performance of Irrigation Water Provider Businesses***

# ANCID Irrigation Water Provider Workshop

## (Cont.)

### Quotes from attendees relating to workshop outcomes:

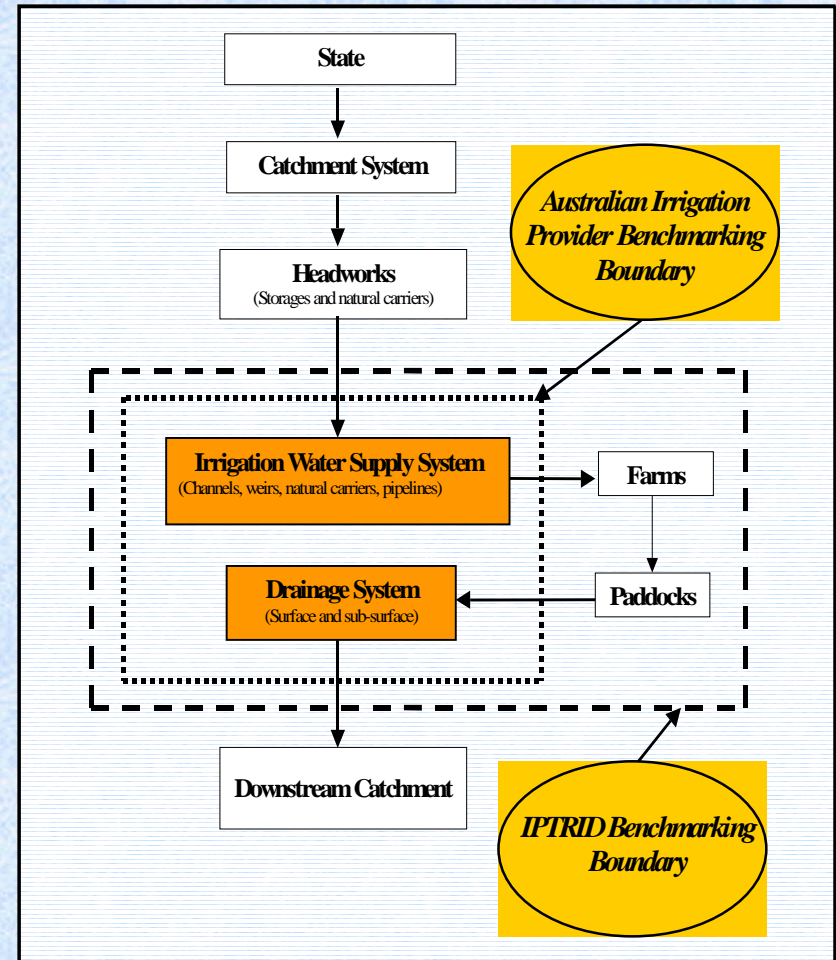
- *‘Became aware of a range of issues’*
- *‘It has been a major achievement to get where we have’*
- *‘Very beneficial for the industry - Plenty to do in the future’*
- *‘Some excellent outcomes have been achieved’*
- *‘Challenge to ANCID is how to move forward’*



# ANCID Irrigation Water Provider Workshop (Cont.)

## Key Workshop Outcomes:

1. Benchmarking of Irrigation Water Providers should continue
2. ANCID should facilitate the benchmarking process
3. Benchmarking should focus on the water supply and drainage system components of businesses
4. ANCID is to continue to support pilot international benchmarking program (IPTRID/ICID)



# ANCID Irrigation Water Provider Workshop

## (Cont.)

### Key Workshop Outcomes (Cont.):

5. Recommended that there are three levels of reporting:

- General Irrigation Water Provider Statistics (*Who are we?*)
- Performance Reporting Indicators (*How we interact?*)
- Confidential Internal Performance Benchmarking Indicators (*How we improve?*)

6. Data should be collected and reported annually

7. Confidence levels should be indicated against reported data

8. Combined report for Category 1 and 2 reporting

9. Preference for a hardcopy published document (*including tables, graphs and definitions*)



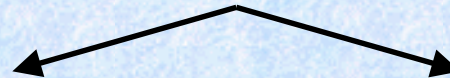
# ANCID

## Looking Ahead!

### Entering into a Consolidation Phase (2002 - 2003)

2002 - 2003 Planning Horizon

- Promotion of the Outcomes of the Workshop



- Agree on the **Statistics** and **Performance Indicators** to be reported

(Characteristics, system reporting, supporting indicators and data needs)



- Agree on cost-shares (e.g. data users, advertisers and Government)



- Agree on **Internal Confidential Business Performance Benchmarking Indicators** to be reported

(Business drivers, indicators, supporting characteristics and data needs)



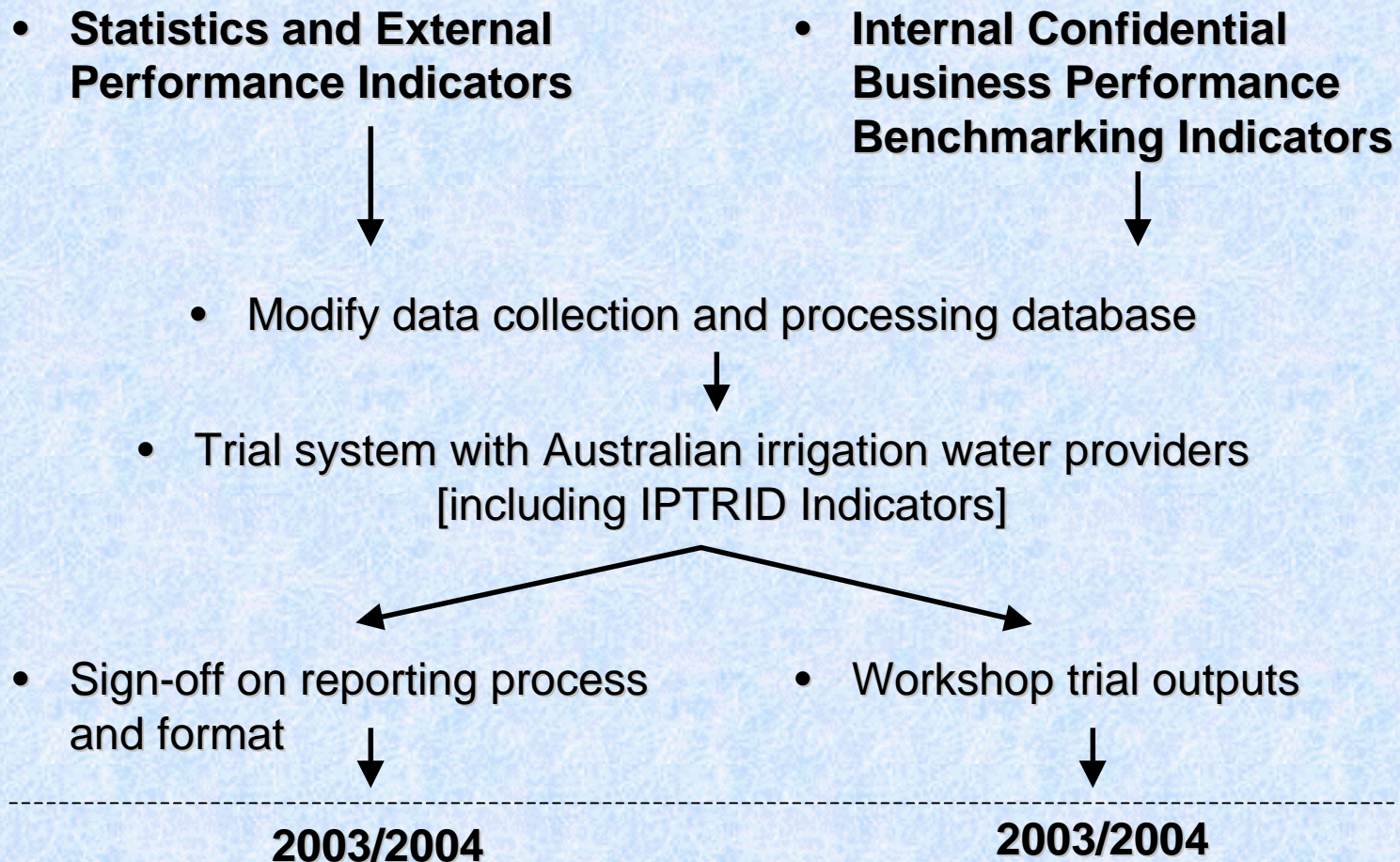
- Agree on cost shares (e.g. Data providers 'Fee for Service')



# ANCID

## Looking Ahead!

2002 - 2003 Planning Horizon







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AUSTRALIAN NATIONAL  
COMMITTEE ON IRRIGATION  
AND DRAINAGE

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