

The Queensland Water Directorate

CQ/NQ IPWEAQ Branch Conference

WINTON

April 2005



The Queensland Water Industry

- **Services over 3 million customers**
- **\$18 Billion in water & wastewater infrastructure**
- **Local Government Water Service Providers(125)**



Queensland Water Directorate – Who are we?

- **LGAQ, IPWEAQ, LGMA, AWA**
- **Management Committee (IPWEAQ,LGAQ,LGMA,AWA)**
- **Technical Reference Group (Elected Council Reps)**
- **Executive Officer – Mark Girard**

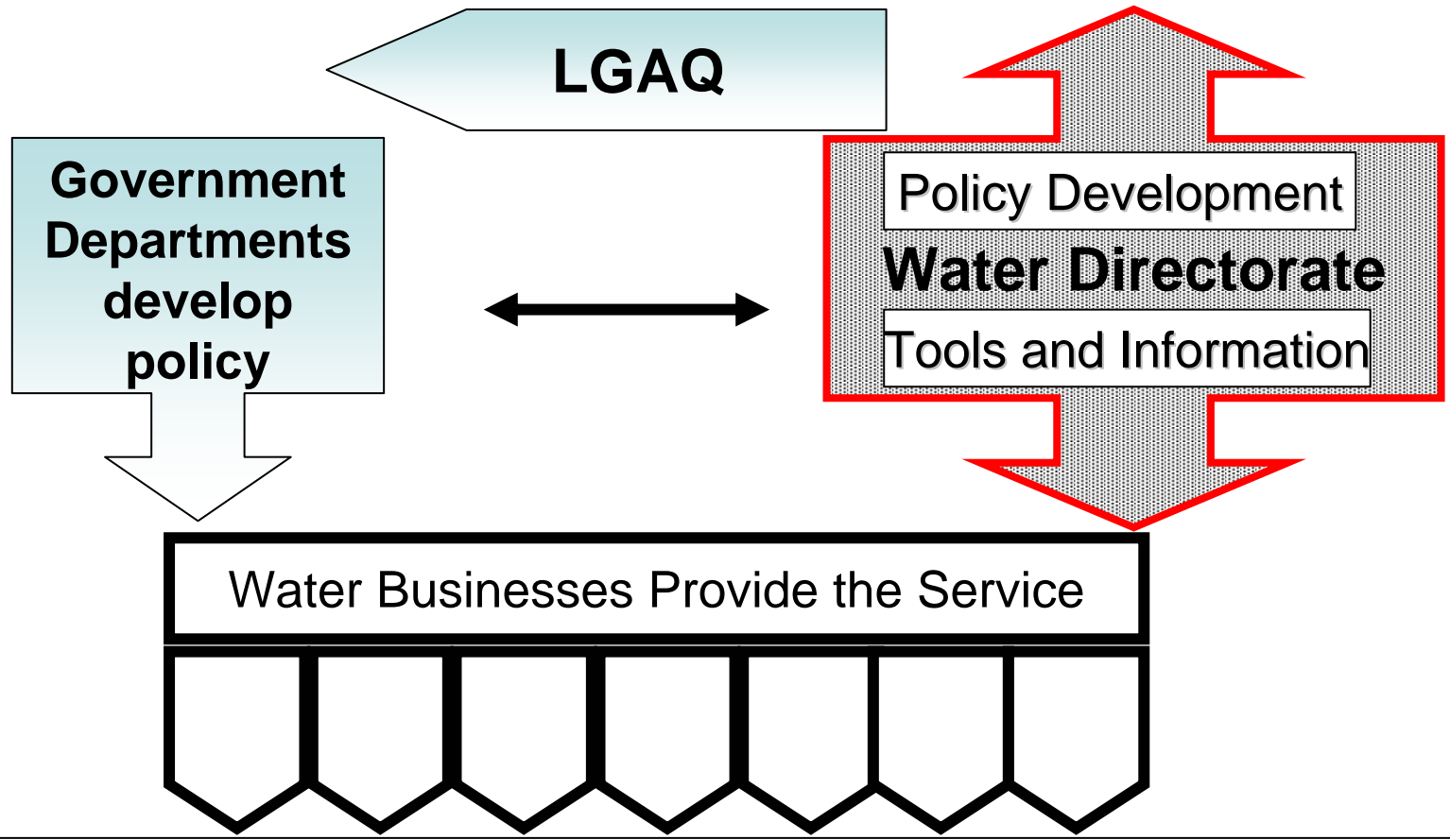


Queensland Water Directorate Objectives

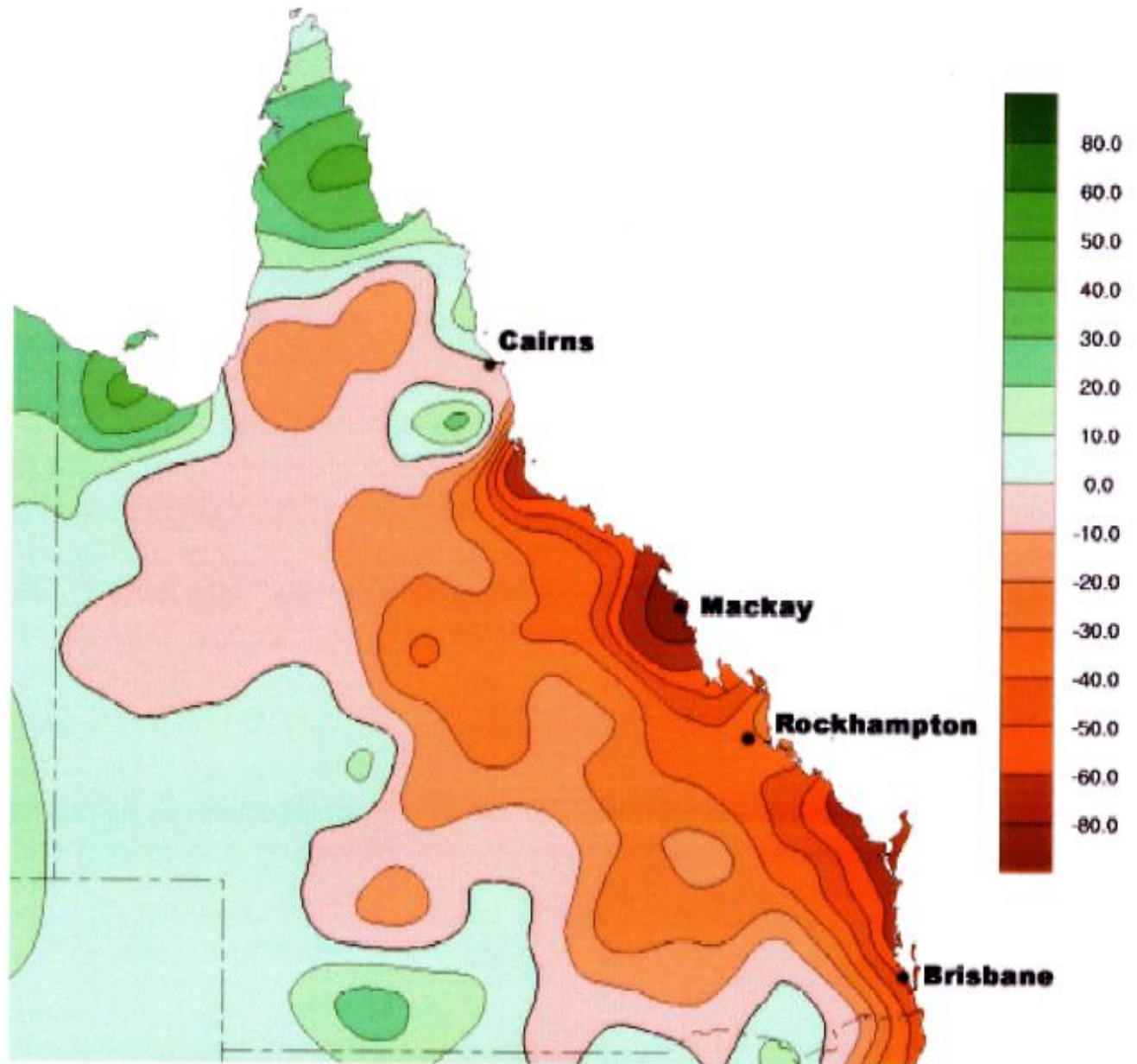
- Provide technical support to members
- Developing sound policy in conjunction with the LGAQ, NRM, EPA and DLGP
- Raise government awareness of QWD position on technical matters
- Develop strategies for increasing industry efficiencies and encouraging long term planning
- Develop guidelines to implement legislation and regulations

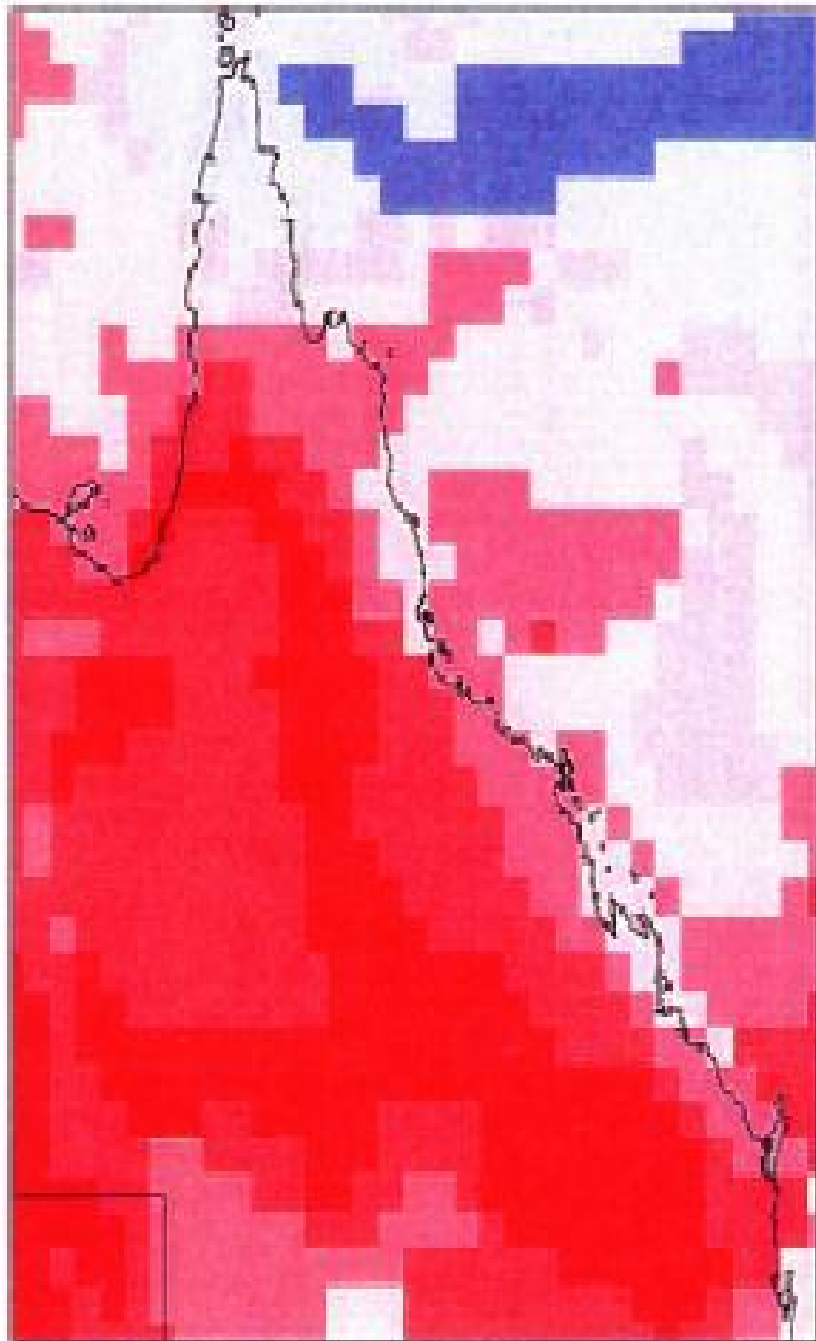


Assisting the Policy Development Cycle



Trends over the past 50 years





**Increasing confidence
in more rain**



**Increasing confidence
in less rain**

Current Water Projects in Queensland - QWD

Department

Project

- DLGPS&R Rationalised Water Industry Reporting System
- DNRM Drought Security Plans & Water Loss Management Plans
- DIR AC Pipe Cutting and Disposal Guidelines
- EPA Load based WWTP license policy and model WWTP licenses
- EPA Biosolids Management Guidelines
- DLGPS&R Capital Works Subsidy Schemes
- DLGPS&R Sustainable Housing Code
- DLGPS&R Grey water reuse policy and guidelines
- DNRM Water and Sewerage Planning Guidelines
- DNRM Proposed Water Charges
- SEQ RWSS Stage 2 (Queensland IUWM Guidelines)
- Q-Health Drinking Water Quality Guidelines



DLGPS&R - Rationalised Water Industry Reporting System



DNRM – Drought Management Plans and System Loss Management Plans



DIR – AC Pipe Cutting and Disposal Guidelines



Queensland Government

AGENCIES

Sustainable Housing Framework
(EPA, Housing, DLGPSR)

Stage 1

- Rainwater Tanks (ability to mandate)
- AAA rated showerheads (mandatory)
- 6.2L dual flush toilets (mandatory)
- Pressure limiting devices (mandatory)
- Housing only

Stage 2

- Other water efficient devices
- All housing and renovations

SEQ Regional Plan (OUM)

Water consumption targets for SEQ
Infrastructure Plans
Institutional Arrangements
SEQ Recycled Water Action Plan

Queensland Water Efficiency Taskforce
QWET

Minister Boyle
Minister Robertson

Dual Reticulation Working Group
(NR&M)

- Policy and legislative framework
- Standards - O&M and design
- Community perception (includes fire-fighters and recycled water, community title, aquifer storage recycled water)

Rainwater Tank Working Group
(EPA)

- Policy and legislative framework
- Model code
- Sustainable Housing

Queensland Water Recycling Strategy
(EPA) Steering Committee

- Review of current strategy
- Draft Queensland guidelines for the safe use of recycled water

Making Better Use of Water in Our Urban Communities
Possible Projects (NR&M lead)

- Targets for water consumption based on population growth rates
- Mandatory installation of water efficient devices in all buildings
- Water efficiency certificate at point of sale for all houses
- Provision of water use information on customer's water bills
- Implementation of water sensitive urban design
- Water tariff structures
- Water pricing to allow for conservation
- Permanent low level water restrictions

Water Information Reporting
(DLGPSR, LGAQ)

- Streamlining reporting of water information to Queensland Government agencies by water service providers

SEQ QRWSS Stage 2

Queensland Government
SEQROC

- Information, Communication, Co-ordination
- Water Needs and Accounting
- Water Availability
- Water Balance
- Water Infrastructure
- Water Recycling, IUWM, Demand Management
 - Potable water, substitution opportunities report
 - SEQ Water Use Efficiency Report
 - Report on constraints and proposed means of resolving those constraints to IUWM and water use efficiency
 - SEQ assessment framework for IUWM and water use efficiency projects
 - IUWM and Water Use Efficiency Guidelines for SEQ
 - Implement of IUWM and water use efficiency

Central RWSS
Centred on Rockhampton

North RWSS
Centred on Cairns

Healthy Waterways
Moreton Bay Waterways
and Catchments Partnership

Federal Government
Queensland Government
Policy Board (Minister Boyle)

- **Water Sensitive Design Project**
 - Water sensitive design strategy for SEQ
 - Water sensitive design policy for SEQ
 - Planning Guidelines for WISD
 - Technical design guidelines for WISD

Queensland Urban Drainage Manual
(NR&M, Stormwater Institute, IPWEA)

Best practice engineering guidelines for stormwater management

National Water Initiative
(NR&M Lead)

Federal Government
Queensland Government

- Pricing review - recycled water, stormwater, trade wastes
- National water accounting, performance monitoring and benchmarking systems
- Water efficiency labelling scheme
- Smart water mark
- Review of effectiveness of temporary water restrictions
- System losses
- National guidelines for water sensitive urban design (design elements and evaluating options)
- Evaluate icon urban water sensitive development
- Review institutional and regulatory models for achieving integrated urban water cycle management and prepare best practice guidelines
- Review incentives to stimulate innovation

EXTERNAL ORGANISATIONS

UDIA
Enviro development

AWA

WSAA
Smart water mark
National guidelines on recycled water

Water Directorate
(LGAQ, IPWEA, AWA)

- Technical guidelines and water related advice
- System Leakage Management Plans
- Drought Management Strategies

Local Governments

- Studies
- Incentives/rebates
- Pricing
- Infrastructure
- Waterwise

Planning Guidelines for Water Supply and Sewerage
(NR&M)

Integrated planning guidelines for water, sewerage and stormwater.

Greywater
(DLGPSR)

Legislation for greywater use in sewer areas.

Urban Price Elasticity
(NR&M)

QUT research project

System Leakage Management Plans
(NR&M)

Legislation and regulatory guidelines
Water Directorate - "Howto Guidelines"

Waterwise
(EPA)

Water Resource Planning
(NR&M)

Developing Water Resource Plans etc.

Local Governing Bodies Capital Works Subsidy Scheme
(DLGPSR)

Under Review

Plumbing and Drainage Regulation 2003
(DLGPSR)

Being amended to bring up to current version of AS3500
On premises plumbing

ECO BIZ
(EPA)

Subsidies for water efficiency projects

WELS
(EPA)

Water Efficiency Labeling Scheme - National

Drought Management Strategies
(NR&M)

Legislation and regulatory guidelines
Water Directorate - "Howto Guidelines"

Queensland Urban Water Policy Projects

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