IRRIGATION AUSTRALIA

Hort Connections 2017

Introduction

ABOUT US

Bryan Ward

- CEO, Irrigation Australia Limited - Australia's Peak National body representing the irrigation industry

Geoff Harvey

- IAL National Training, Certification & Marketing Manager

IRRIGATION AUSTRALIA

- Irrigation Australia was formed in September 2007 with the amalgamation of two well established Australian irrigation groups, the Irrigation Association of Australia (IAA) and the Australian National Committee on Irrigation and Drainage (ANCID).
- The only national body covering the entire value chain of the urban and rural irrigation industry in Australia
- IAL is committed to developing the professionalism, sustainability, profitability and accountability of the irrigation industry
- IAL's primary mission is the delivery of training and Certification programs for industry
- Experienced and capable of delivering large scale conferences

QUOTE

"It is not the quantity of water applied to a crop, it is the quantity of intelligence applied which determines the result – there is more due to intelligence than water in every case"

Alfred Deakin, 1890
Quoted during a speech to a Conference for 'Irrigationists'

Global food security and water challenges

Growing demand for food

By 2050:

+2.4B people (+32%)

Calorie consumption per capita from 2950 to **3130**

Food production will need to **increase by >50%**

Limited resources

By 2050:

20% less arable land per person

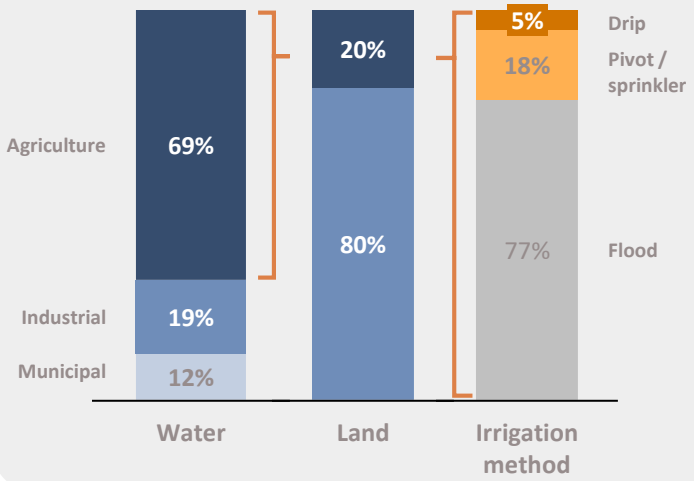
25% water deficit (demand-supply gap)

4 billion people will live under **severe water stress**

Use of water

70% of the water is used to irrigate **20% of the land**

Irrigation is mostly **inefficient**



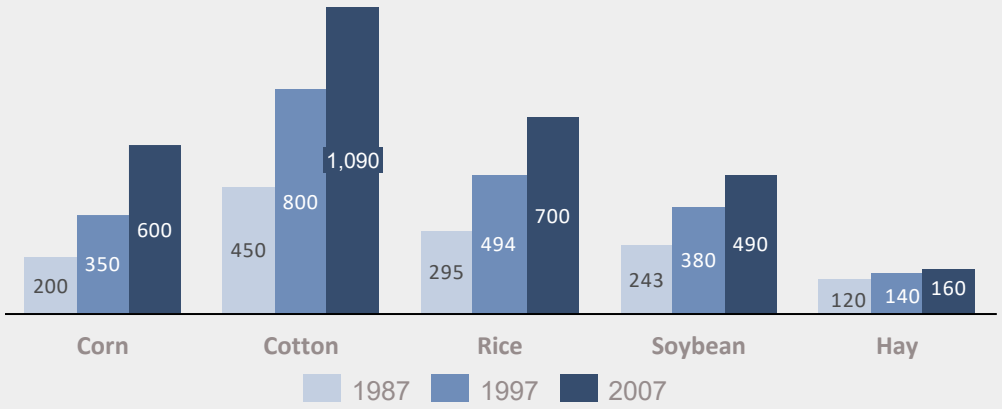
Source: FAO – How to feed the world 2050; 2030 Water Resources Group, OECD outlook

Farm structural changes

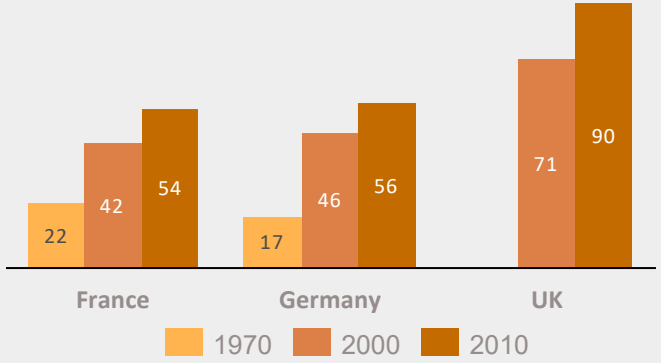
- Growing need for higher yields and adoption of advanced solutions
- Increasing number of farm family members who choose to leave agriculture
  - ➢ Labor Shortage
  - ➢ Retiring farmers are forced to sell their land

1. Farm consolidation
2. Entry of Ag Investors
3. Advanced practice adoption

US farm consolidation, midpoint farm size by crop (Acres)



Europe farm consolidation, average farm size (Ha)



Source: USDA, BCG analysis

IRRIGATION AUSTRALIA

Growing demand for food

Global population growth and increasing consumption

+

Limited supply factors

Scarcity of arable land and water

+

Inefficient use of water

In the agriculture sector

=

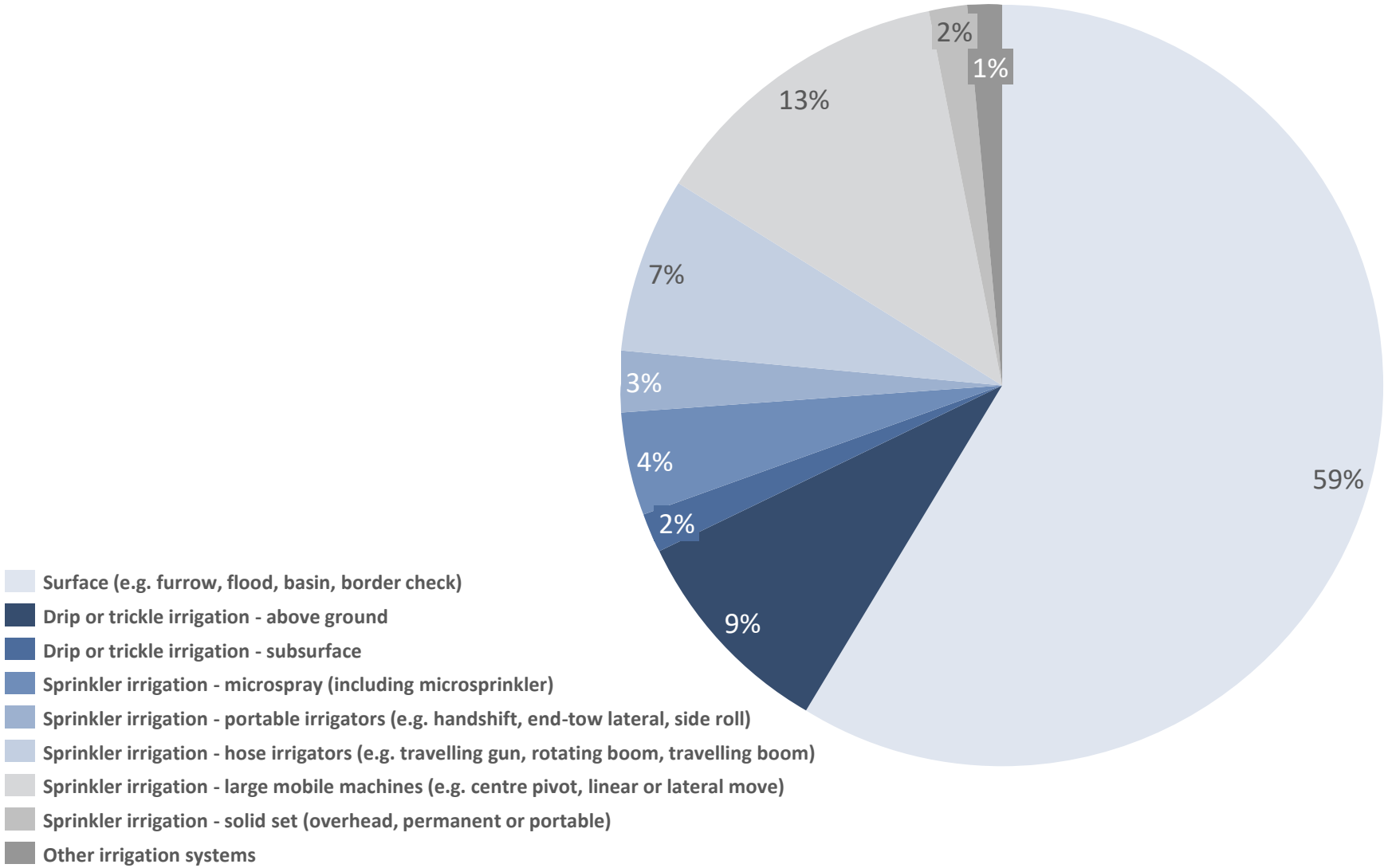
Increased demand for water-efficient solutions and higher food productivity

APPLICATION METHODS

Irrigation Method	Efficiency Range
Gravity/Flood	40-80%
Sprinkler – wheel-move	60-85%
Sprinkler - Gun	55-75%
Pivot/Lateral (sprinkler)	75-90%
Microsprinkler	70-95%
Drip	70-95%

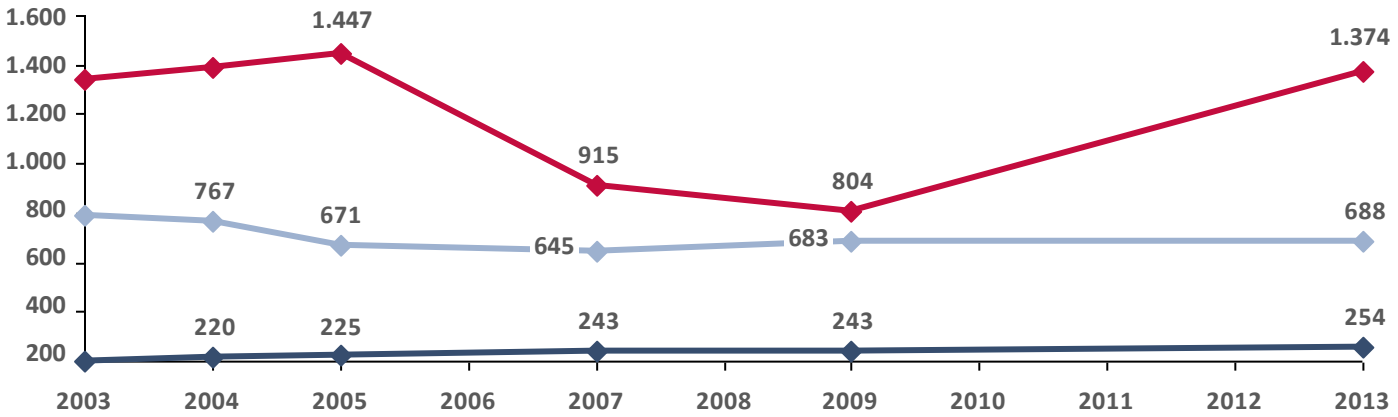
Source: Howell, T.A. 2003. Irrigation Efficiency, in Encyclopedia of Water Science. Marcel Dekker, Inc. New York, New York. 1076 pp

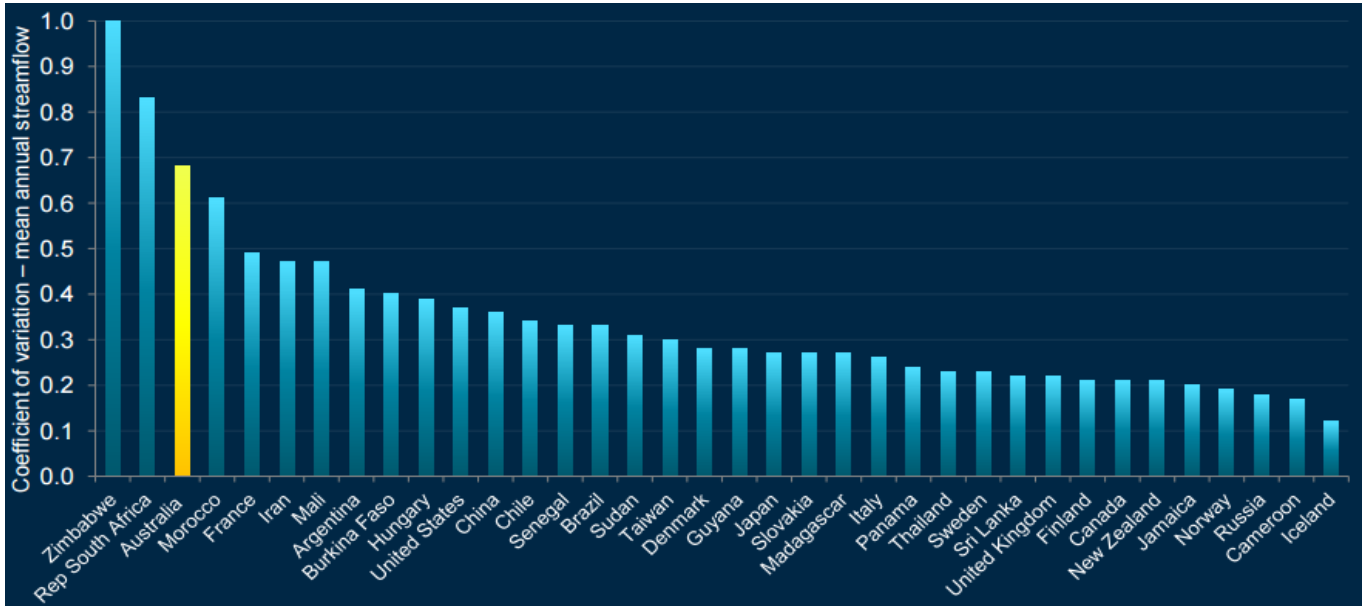
Irrigation methods



Source: ABS – Agricultural Water Use in Australia – 2013/2014

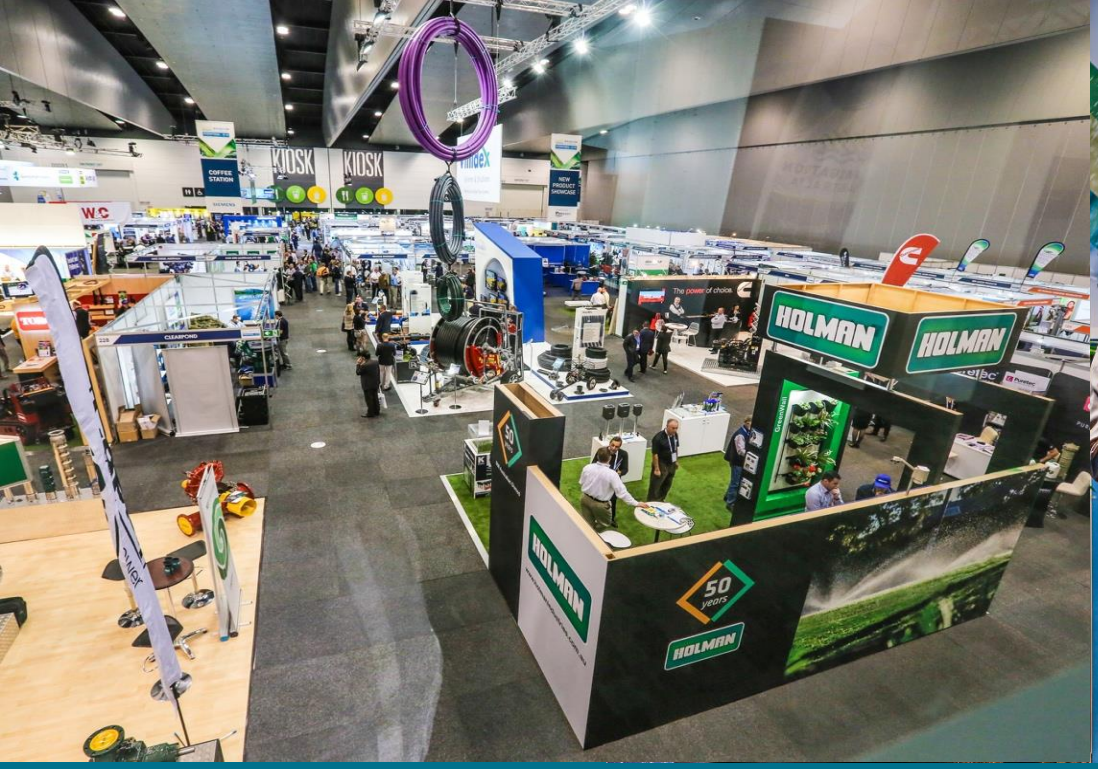
Irrigation methods in Australia





YOY Rainfall is highly variable (3rd in the world). This affects water availability and the grower's decisions on permanent irrigation methods such as drip and sprinkler

Source – #Australian Bureau of Statistics – Water Use in Australian Agriculture
*Bureau of Meteorology



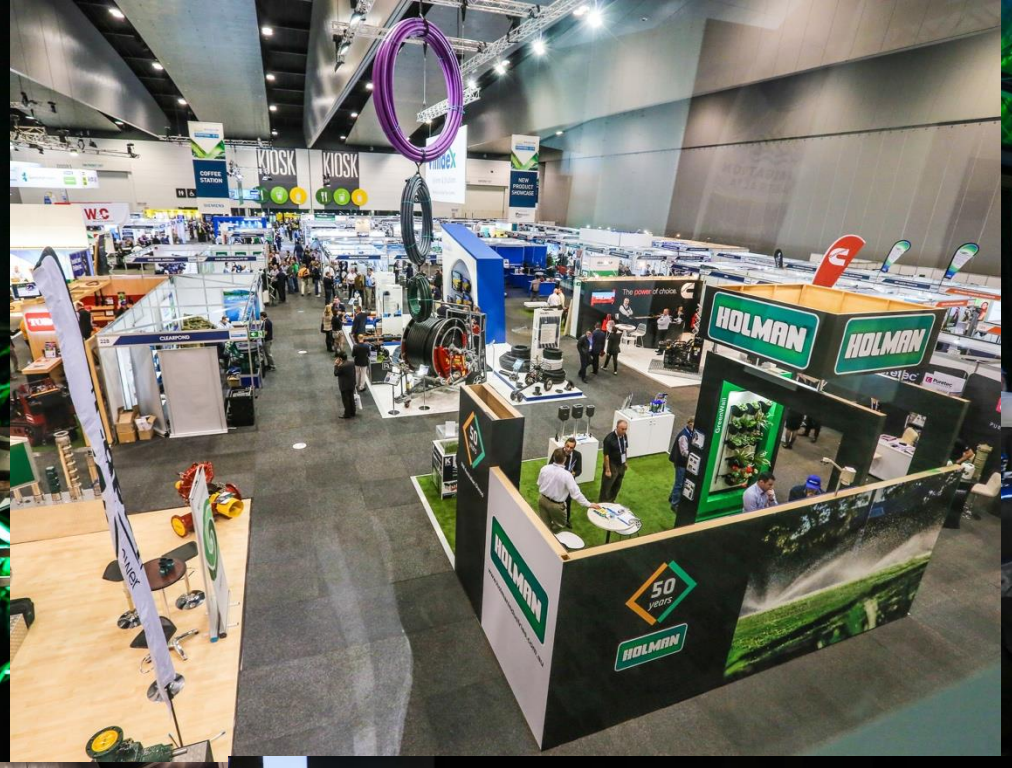
IRRIGATION AUSTRALIA CONFERENCE

Sydney June 2018

ICID 71st World Congress – Sep 2020 Sydney

IRRIGATION AUSTRALIA
INTERNATIONAL CONFERENCE • EXHIBITION 24-26 MAY 2016
MELBOURNE CONVENTION AND EXHIBITION CENTRE

IRRIGATION
AUSTRALIA
INTERNATIONAL
CONFERENCE + EXHIBITION
24-26
MAY 2016
MELBOURNE CONVENTION AND EXHIBITION CENTRE
IRRIGATION -
PROSPERITY
WELLBEIN


KIOSK
KIOSK
HOLMAN
HOLMAN
50 years
HOLMAN

IRRIGATION AUSTRALIA
2016
GALA
DINNER

skydrop
Philmac
SMART
IRRIGATION
RAIN BIRD
Weathermatic
reece
irrigation
Grow your business
with Smart Irrigation.

1939
MURRAY–
DARLING
IRRIGATION
AUSTRALIA
INTERNATIONAL
CONFERENCE + EXHIBITION
24-26
MAY 2016
MELBOURNE CONVENTION AND EXHIBITION CENTRE
IRRIGATION - FOR
PROSPERITY AND
WELLBEING

IRRIGATION
AUSTRALIA
Moving
Water
is Our
Business
Vinidex

2016 IRRIGATION AUSTRALIA INTERNATIONAL CONFERENCE AND EXHIBITION - RESULTS

3,177
TOTAL VISITORS

2,250
UNIQUE VISITORS

1,150
TRADESHOW VISITORS

138
EXHIBITORS

7%
INT'L VISITORS

99%
SATISFACTION

Skilled staff shortages affect your bottom line

IAL's mission is to get you thinking about training and certification as a key ingredient to your future business success

Training can improve business performance, profit and staff morale.

Because they're being trained on your time, employees see that you value them enough to invest in them.

- A good company is seen as one that retrains rather than churns.

IRRIGATION AUSTRALIA

INDUSTRY TRAINING

- **IRRIGATION AUSTRALIA LIMITED (IAL) RTO:**

  - ✓ **IAL's has been a registered RTO under "Irrigation Training Australia (ITA) " since 2007.**
  - ✓ **IAL has been developing training courses and delivering those training courses for over 32 years, initially through IAA.**
  - ✓ **IAL works closely with other training providers including RTO's, TAFE's, Universities, CSIRO and has strong links with Industry (including Councils & Governments)**

CENTRE PIVOT & LATERAL MOVE

TRAINING OVERVIEW

- 2 Day training
- Teaching the latest techniques and innovations of CPLM systems.

KEY TRAINING TOPICS

- Components of CPLM system
- Planning to install CPLM
- Comparing sprinkler and wheel options
- Using CPLM systems effectively
- Basic maintenance requirements of CPLM systems.

IRRIGATION AUSTRALIA

IRRIGATION ESSENTIALS SCHOOL

TRAINING OVERVIEW

- 6 Day residential training school
- Assessed against nationally recognised Cert III in Irrigation.

KEY TRAINING TOPICS

- Irrigation design, installation and troubleshooting
- Latest irrigation technology
- Installing irrigation pumps
- Implementing irrigation schedule
- Measuring irrigation system performance

IRRIGATION AUSTRALIA

TOWARDS A CERT III IN ITTIGATION

2 COMPULSORY UNITS OF COMPETENCIES

To be completed online prior to the course

9 UNITS OF COMPETENCIES

To be completed over the 6 days training

3 FURTHER UNITS OF COMPETENCIES

To be complete after (20 electives)

METER VALIDATION & INSTALLATION

TRAINING OVERVIEW

- Provide students with the knowledge required to install water meters.
- Prepares students to complete site preparations, commissioning, and field assessments for meter installations.

KEY TRAINING TOPICS

- WHS relevant to operators in the water industry
- Requirements for site preparation
- Component installation
- Field assessment of meter installations

IRRIGATION AUSTRALIA

TOWARDS A CERTIFIED METER INSTALLER & VALIDATOR

Option One: 2 Day Training

Theoretical Part for 2 Units of Competency

Option Two: 3 Day Training

Theoretical & Practical components for 6 units of competency

One Day Training (Refresher)

Provides 10 CPD points required to renew your certification

IRRIGATION PUMPS & SYSTEMS

TRAINING OVERVIEW

- 2 Day training
- Covers the process of operating & maintaining irrigation pumping systems

KEY TRAINING TOPICS

- Determining system requirements
- Types of irrigation systems
- Hydraulics of irrigation systems
- Pump selection, Installation and commissioning
- Maintenance and troubleshooting

IRRIGATION AUSTRALIA

Provides a Statement of Attainment For The Nationally Recognised Competency AHCIRG410 Select & Manage Pumping Systems For Irrigation

INTRODUCTION TO IRRIGATION

INTRO TO IRRIGATION AGRICULTURE

- 2 Day training
- Basic understanding of the of irrigation in the agriculture & horticulture industry.
- Awareness of the main types of agriculture irrigation systems used in Australia and their advantages and disadvantage

INTRO TO IRRIGATION URBAN

- 2 day training
- Basic understanding of irrigation in the urban sector including planning, procuring and supplying water to households and commercial users.

IRRIGATION EFFICIENCY

TRAINING OVERVIEW

- 2 Day training
- knowledge to design, operate & maintain an efficient irrigation system

KEY TRAINING TOPICS

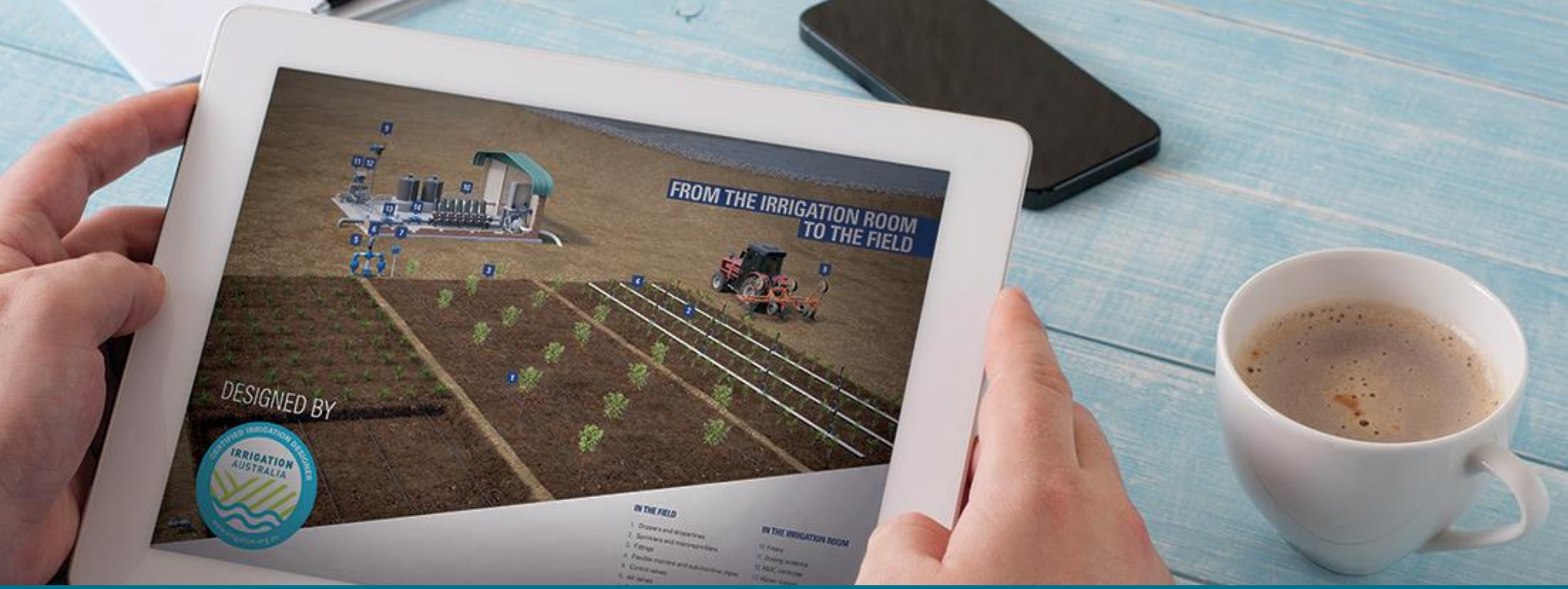
- Irrigation water-use data
- Testing irrigation systems
- Irrigation scheduling
- Determining water requirements
- Checking pressure and flow rates

IRRIGATION AUSTRALIA

Provides 3 Nationally Recognised Units of Competency after completing the workbook activities outside of the workshop

IRRIGATION AUSTRALIA TRAINING RUNS NATIONALLY

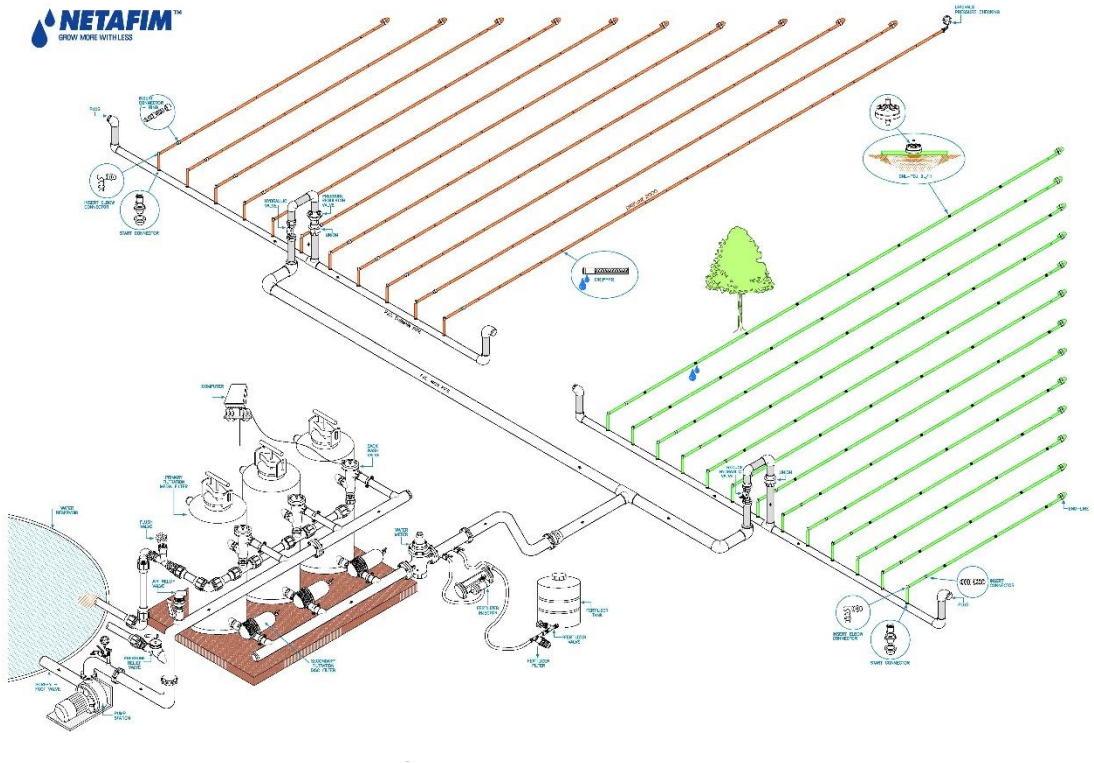
For a list of upcoming training visit our website irrigationaustralia.com.au



IRRIGATION AUSTRALIA CERTIFICATIONS

If you or your staff are currently designing irrigation systems that are efficient and sustainable then you may wish to become a **Certified Irrigation Designer**

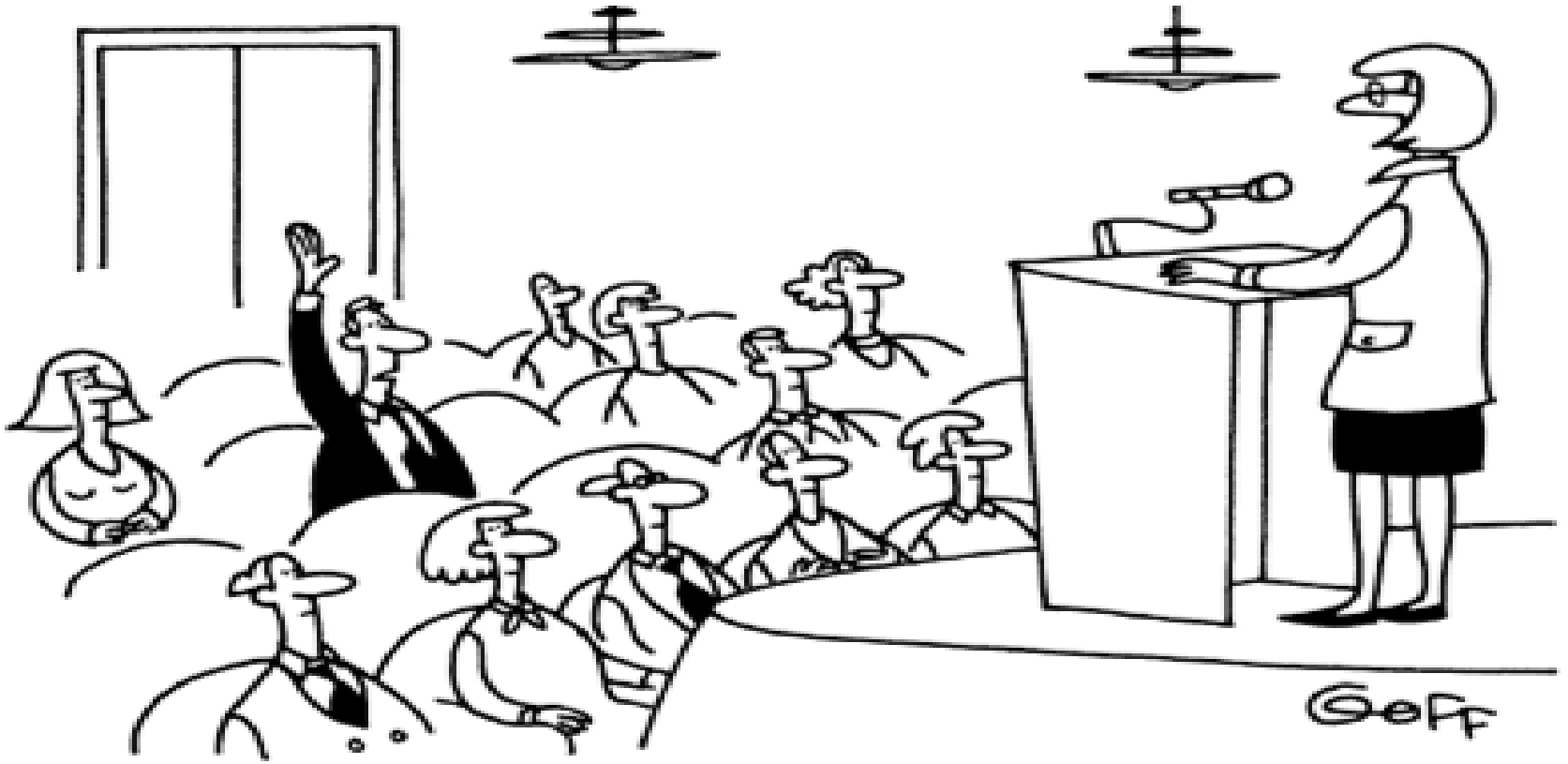
- Agriculture
  - Drip Micro
  - Surface Irrigation
  - Sprinkler Irrigation
- Landscape / Turf
  - Commercial Irrigation
  - Golf Course Irrigation



A Certified Irrigation Professional provides a Customer Service Point Of Difference

- Certified Irrigation Designer
- Certified Irrigation Installer
- Certified Irrigation Operator
- Certified Irrigation Contractor
- Certified Irrigation Retailer
- Certified Irrigation Manager
- Certified Meter Installers
- Certified Irrigation Agronomist

QUESTIONS?



"Did you skip over the interesting parts of your talk on purpose?"

IRRIGATION AUSTRALIA

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