

# GRAINS INDUSTRY



## Capacity Audit 2012

NATIONAL RESEARCH, DEVELOPMENT  
AND EXTENSION STRATEGY



## Grains Industry Capacity Audit

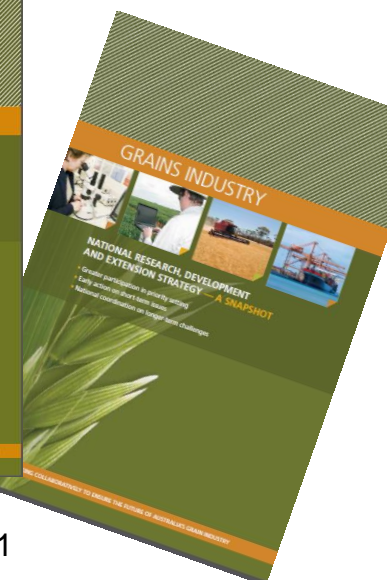
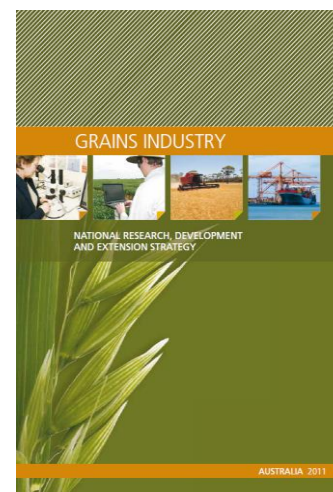
- What is the Grains Industry National RD&E Strategy?
- Audit objectives, data and contributors
- Snapshot of 2011/12 capacity
- Trends since 2007/08
- Future priorities





# Grain Industry National RD&E Strategy

- Avoid unnecessary duplication and fragmentation
- Improved coordination, collaboration and priority setting
- Increased operational efficiencies
- Research, development and extension:
  - Research – National
  - Development – Regional
  - Extension – Local



Released May, 2011



## Objectives and contributors

- Why do an audit?
- Data
- Contributors
- Considerations





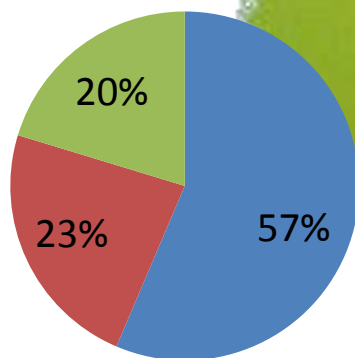
## National human resource capacity

- 1800 FTE (2400 people)

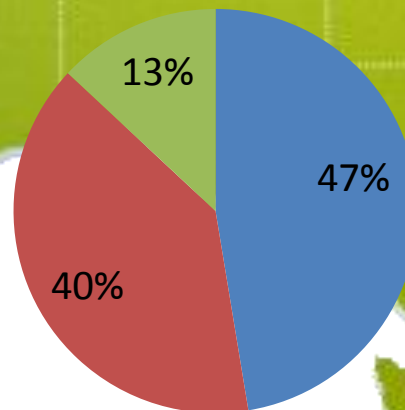
- 53% professional
- 33% technical
- 14% students

■ Professional  
■ Technical  
■ Post-graduate student

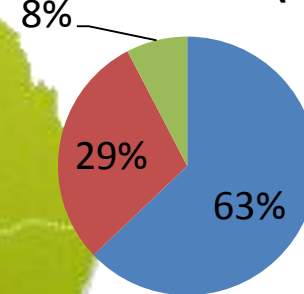
**Western (467 FTE)**



**Southern (980 FTE)**



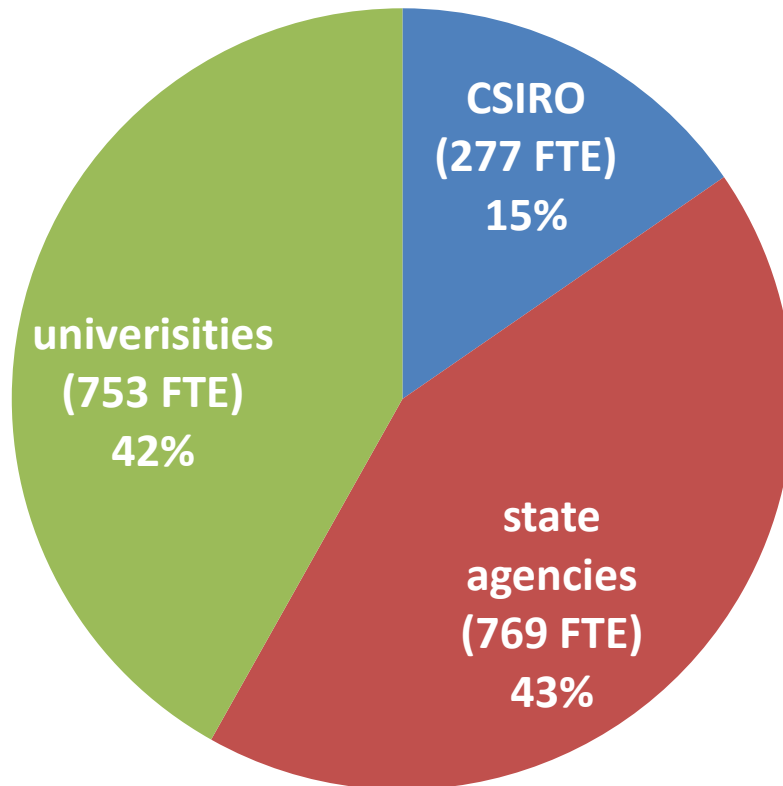
**Northern (352 FTE)**





## Human capacity (FTE) in organisations

**2011/12**

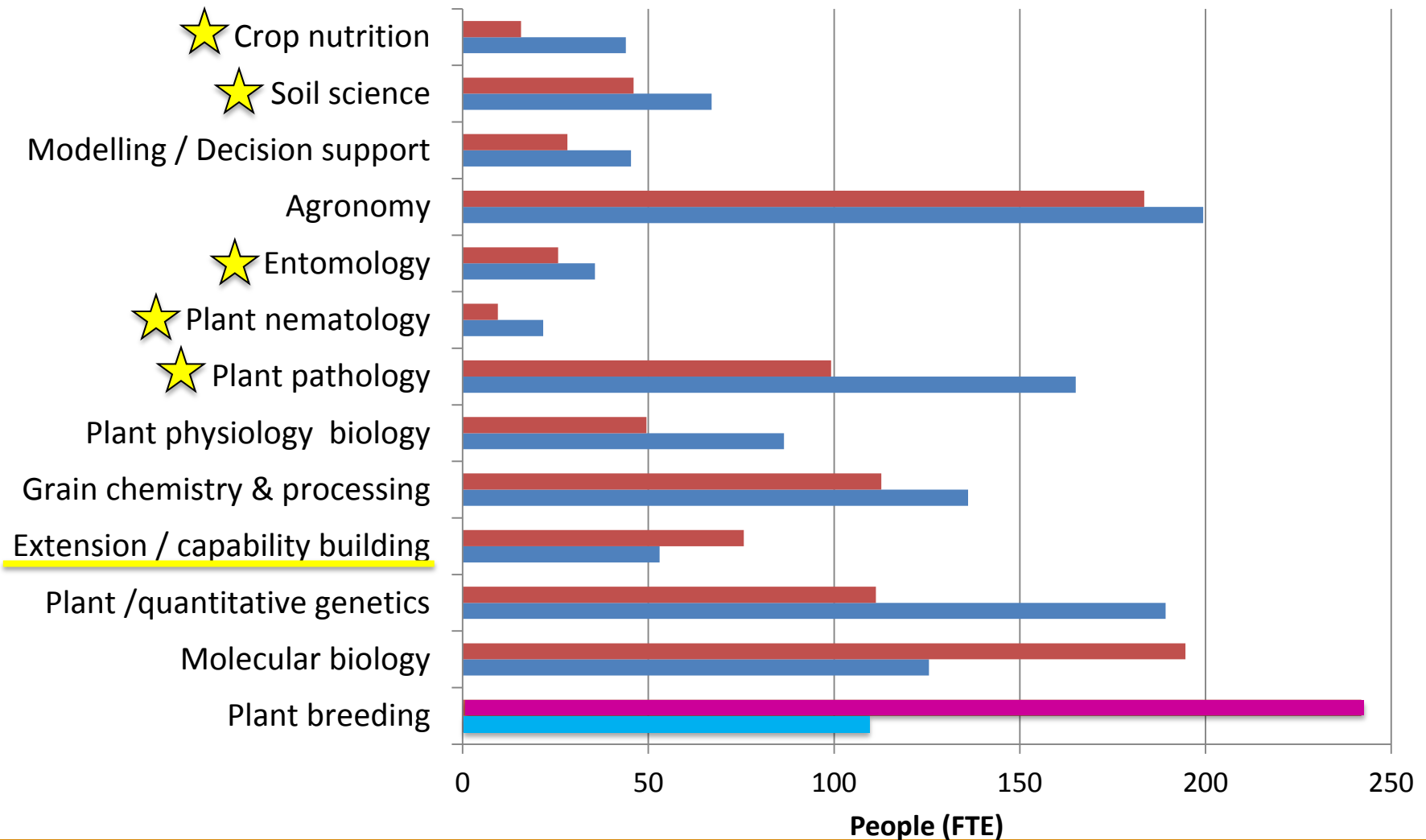




# Key changes in expertise

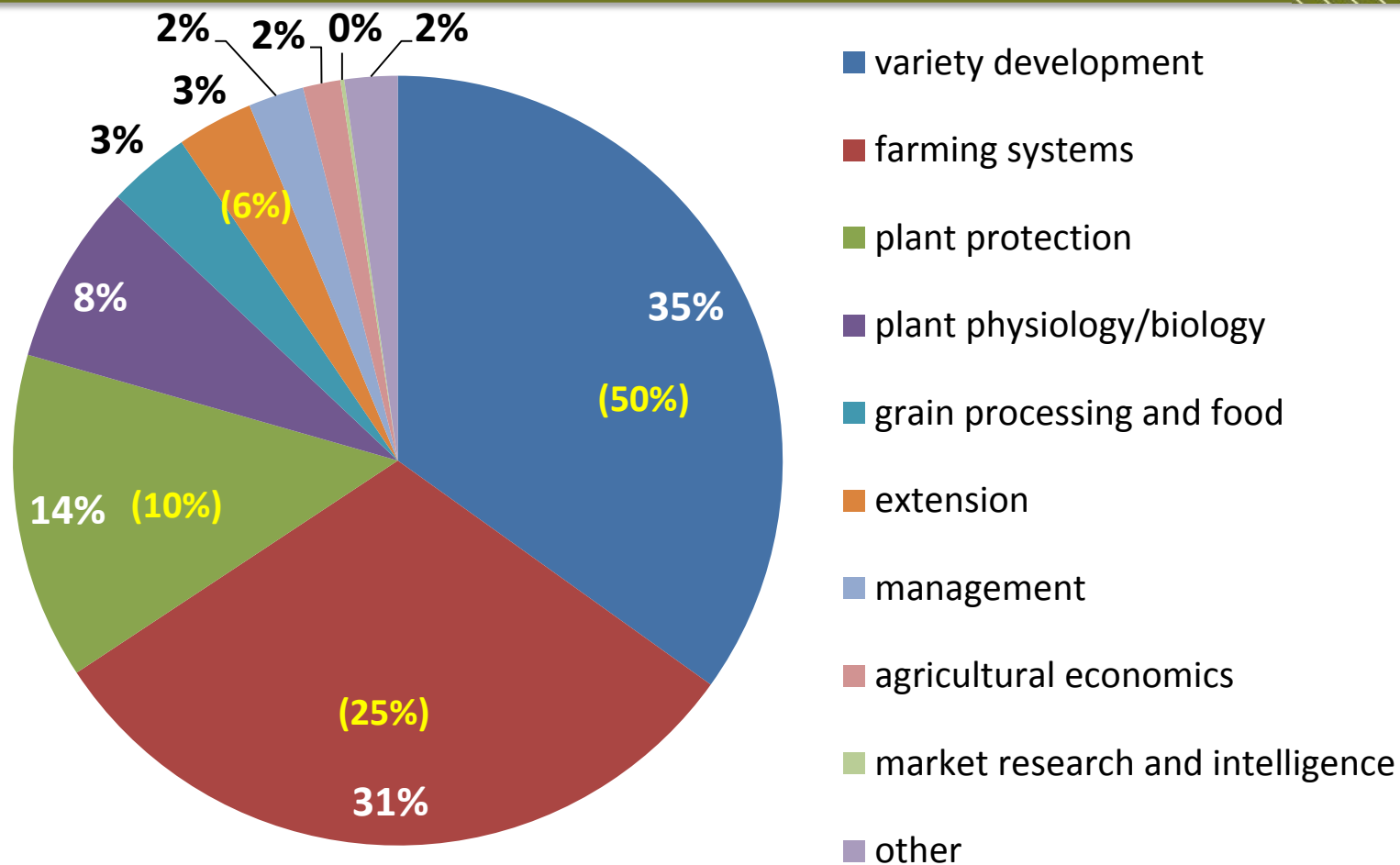
■ 2007/08 (n= 1385)

■ 2011/12 (n=1549)





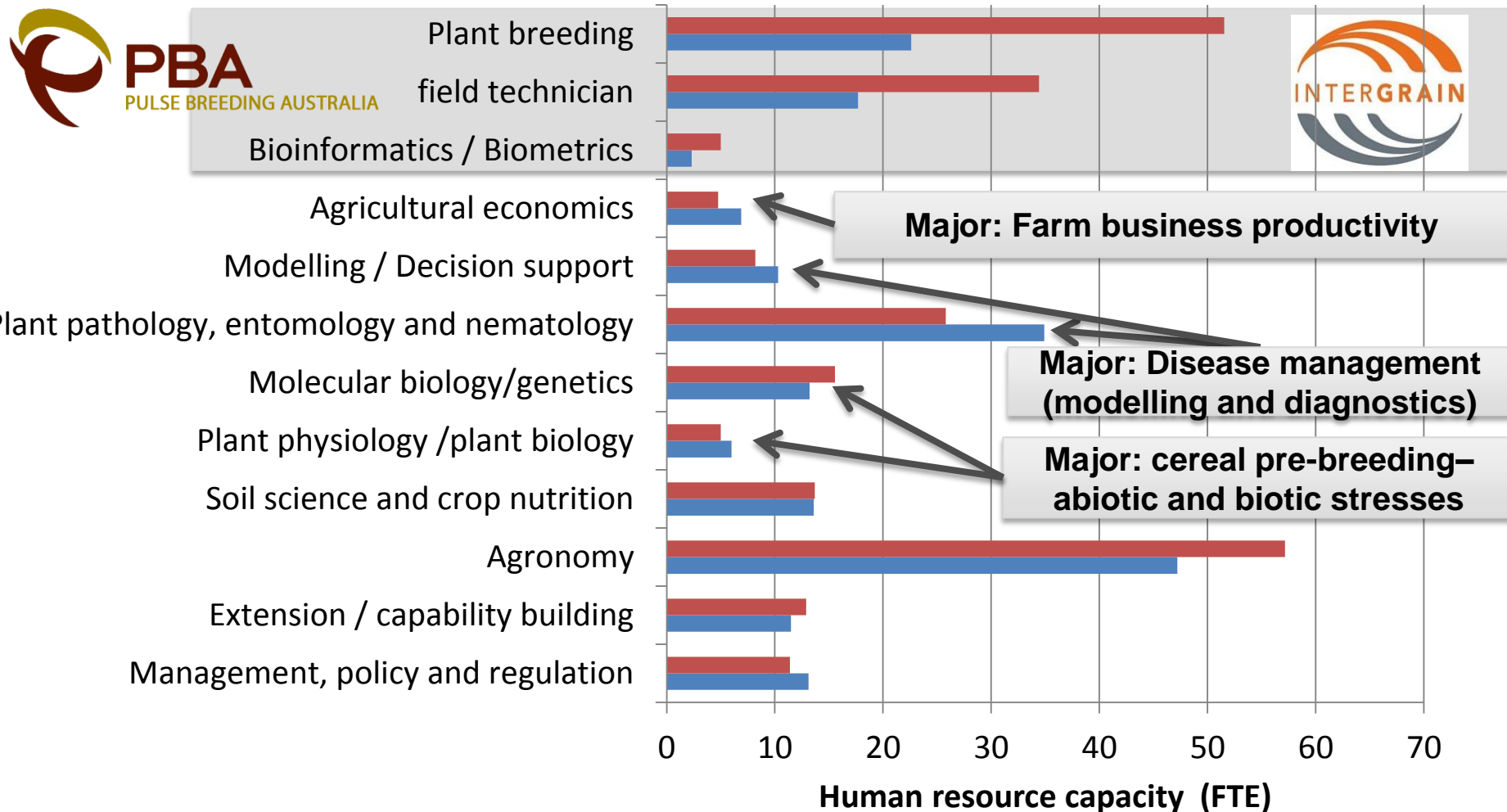
## Expertise (Total 1799 FTE)



# Case study: DAFWA



■ 2007/08 ■ 2011/12





## Student capacity (post-graduate by research)

- 249 FTE 2011/12 (143 FTE in 2007/08)
- Most popular areas of study:
  - Plant physiology/biology (53 FTE)
  - Crop nutrition (20 FTE)
  - Soil science (19 FTE)
  - Weed management/science (18 FTE)
  - Plant/quantitative genetics (14 FTE)





## Student capacity (post-graduate by research)

### Western region (29 %)

- Agricultural economics
- Modelling/decision support
- Environmental/resource science

### Northern region (11%)

- Grain processing and food technology

### Southern region (51%)

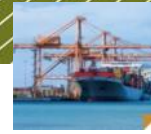
- Agricultural engineering
- Bioinformatics/biometrics
- Entomology



## Succession planning

- 390 positions
  - Plant pathology (40)
  - Soil science (38)
  - Agronomy (35)
  - Plant physiology/biology (30)
  - Grain processing/ food technology (21)

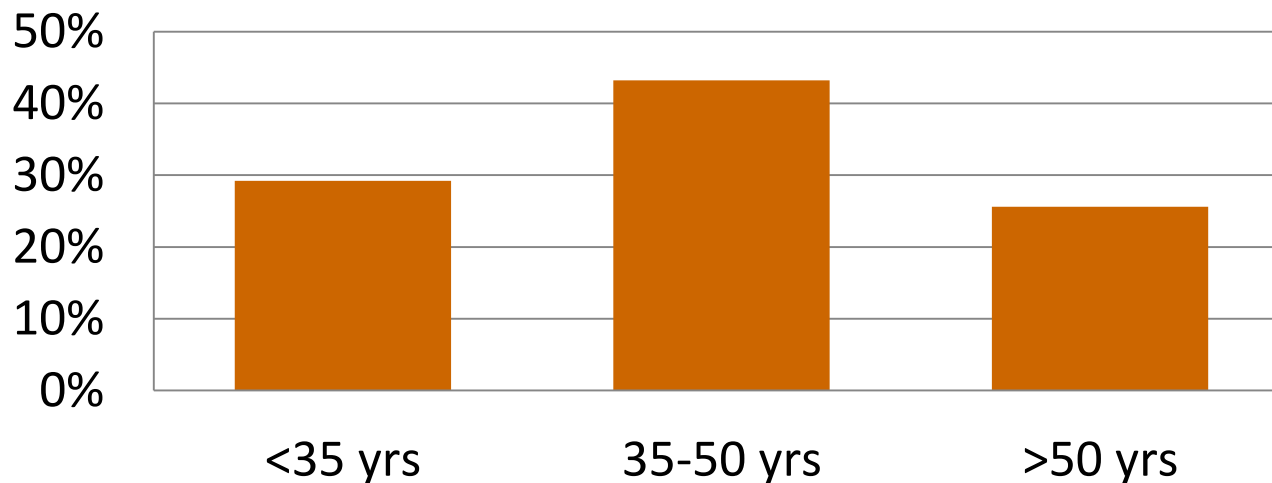




## Gender and age

- No change between audits
- 64 per cent male : 36 per cent female

### Age range of people





## Infrastructure

- Queensland Alliance for Agriculture and Food Innovation, Brisbane, Qld
- I.A. Watson Grains Research Centre, Narrabri, NSW
- AgriBio, Bundoora, Vic
- Managed environment and GM crop evaluation facilities



### *Others in planning:*

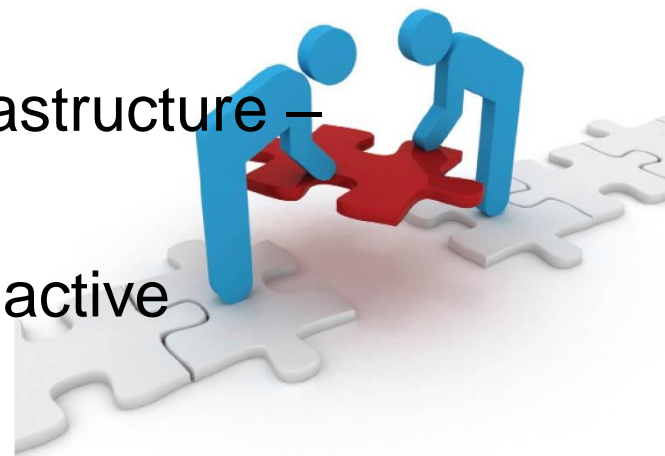
- Australian Export Grains Innovation Centre, Perth, WA
- Australian Grains Gene Bank, Horsham, Vic





## Future priorities

- Understanding private sector capacity
- Partnerships and collaboration between public-private sector
- Capacity building to address shortages in grains industry R&D expertise
- More effective use of national infrastructure – including commercial sector
- Creating systems to ensure more active management of **national** RD&E



## Implementation Committee

### *Provide ongoing oversight and coordination*

Bob Belford (CUT)

Alison Bowman, NSW DPI

John Manners, CSIRO

Geoff Honey, GTA

John Harvey, GRDC

Mike Wilkinson, UA

Ray Marshall, GPA

Pauline Mooney, SARDI

Des Naughton, DAFF

Wayne Newton, GPA

Dave Callachor, NARG

Mark Sutherland USQ

Mark Sweetingham, DAFWA

Andrew Weidemann, GPA

Ragini Wheatcroft, DEPI Vic

Gary Fullelove, DAFF Qld

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