

Nuffield Contemporary Scholars Conference

25 February 2008



Australian Government
Grains Research and Development Corporation



Grains Research &
Development Corporation



Australian Government
Cotton Research and
Development Corporation



Australian Government
Fisheries Research and Development Corporation



Australian Government
Forest and Wood Products
Research and Development
Corporation

GRDC

**Grains
Research &
Development
Corporation**



Australian Government
Grape and Wine Research and
Development Corporation



Australian Government
Land & Water Australia



Australian Government
Rural Industries Research and
Development Corporation



Australian Government
Sugar Research and
Development Corporation



**Australian
Pork**

• **australian wool
innovation**
• limited



DAIRY AUSTRALIA
Delivering for the dairy industry



Know-how For Horticulture™

mla
MEAT & LIVESTOCK AUSTRALIA

**AUSTRALIAN EGG
CORPORATION LIMITED**



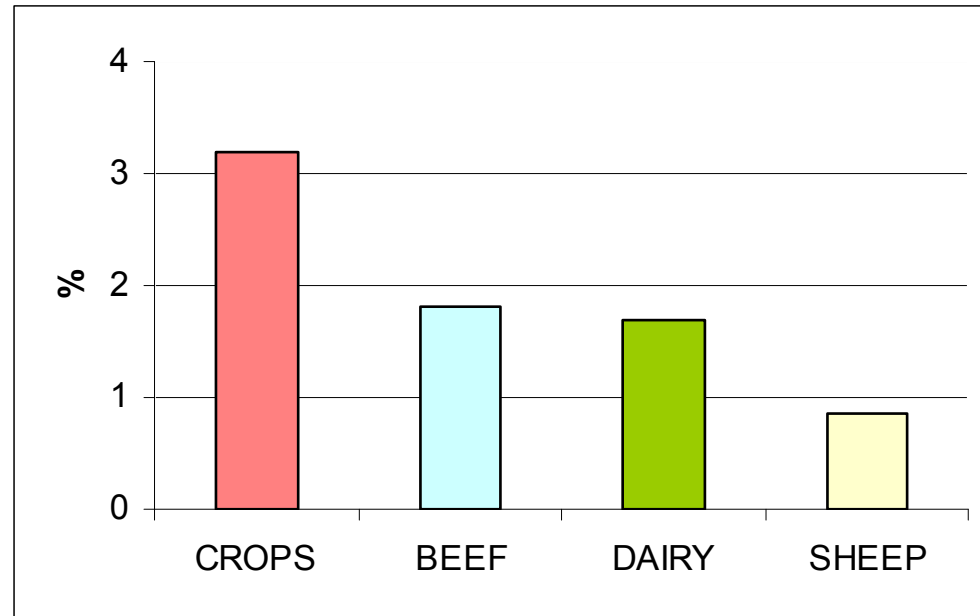
An Australian Government Initiative

SMART OZ: Agriculture

RISING PRODUCTIVITY Annual Productivity growth Average from 1977-78 to 2001-02

“Agriculture is reaping the benefits of a revolution in skills and technology ...”

Source: Australian Financial Review
Tuesday 22 March 05
Page 61



Source: ABARE

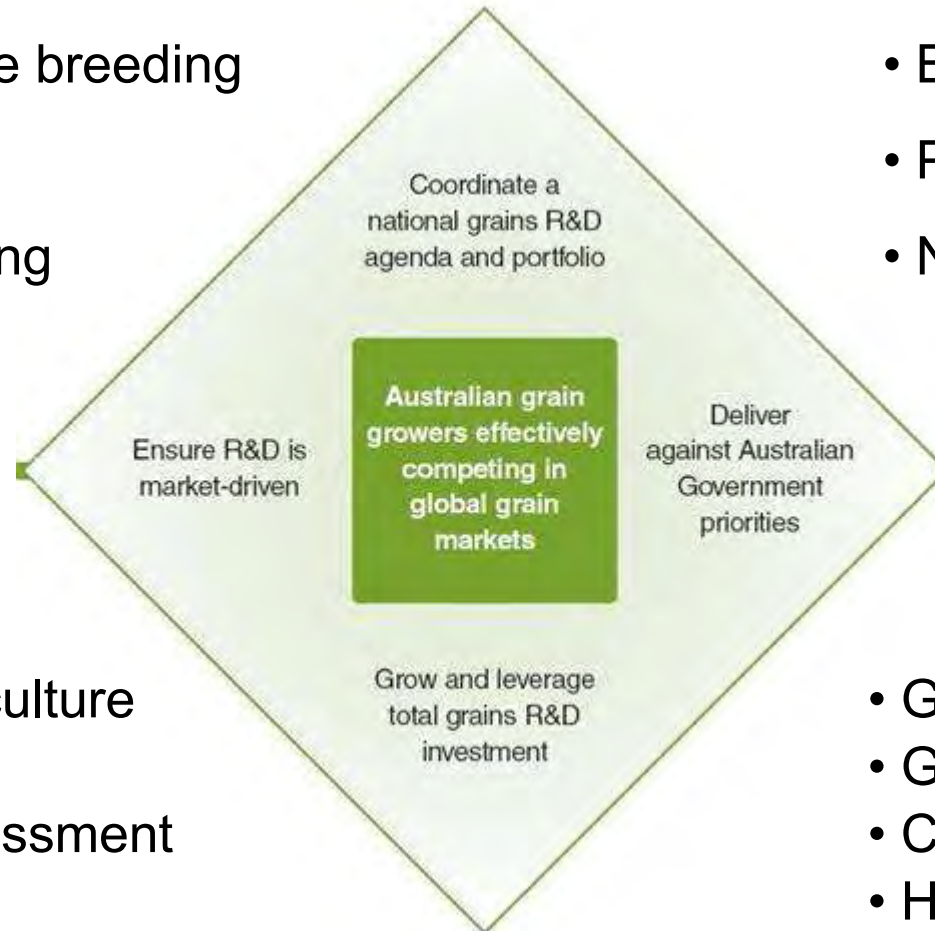
Business Environment



Corporate Strategies

- Barley & pulse breeding
- PBI
- Wheat breeding

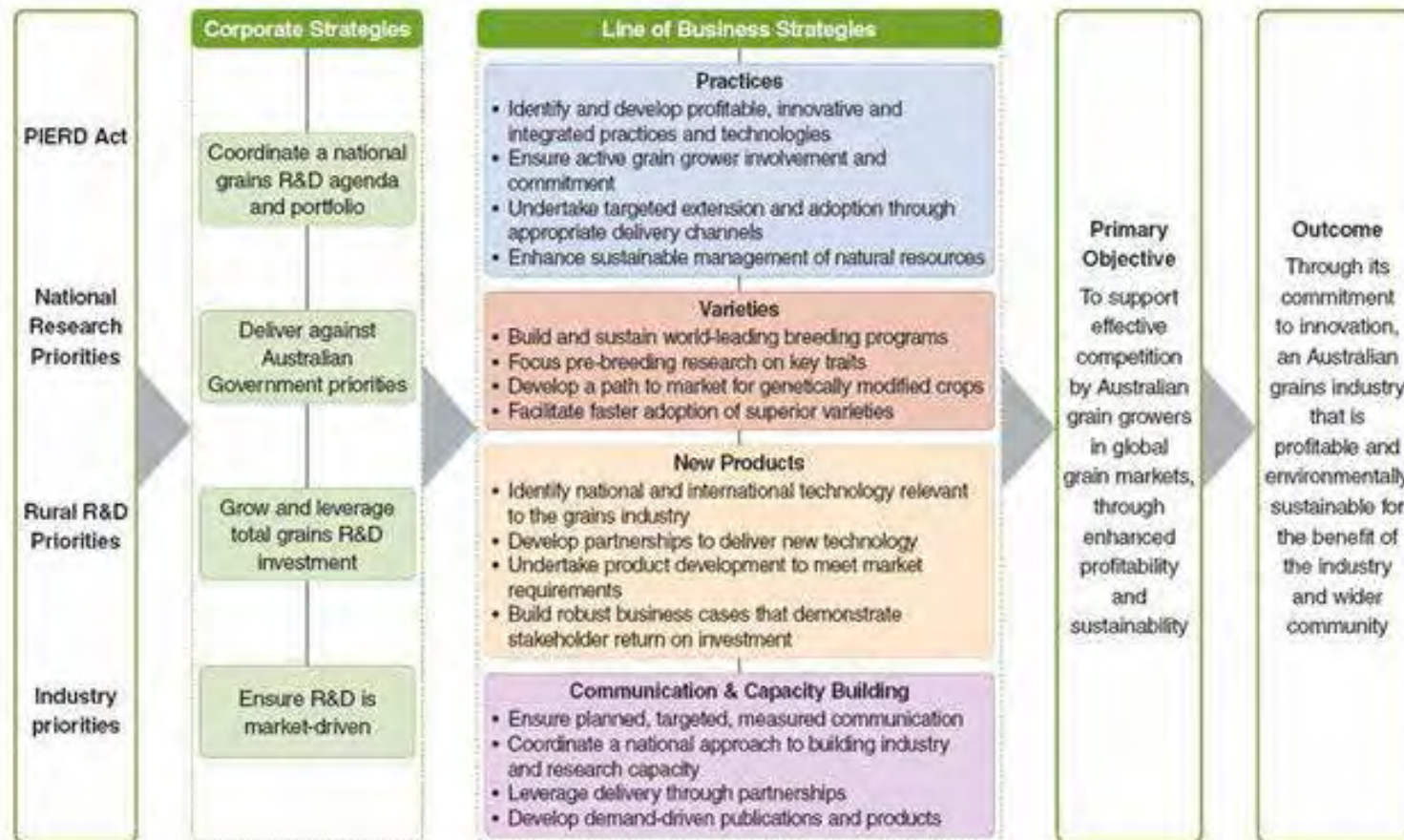
- Barley breeding,
- Pulse breeding
- NVT, CIMMYT



- Precision Agriculture
- CBI
- Rust Risk assessment
- HAW

- Grain & Graze
- Go Grains
- Climate Variability
- Healthy Soils

Overview of R&D Strategies, 2007-12

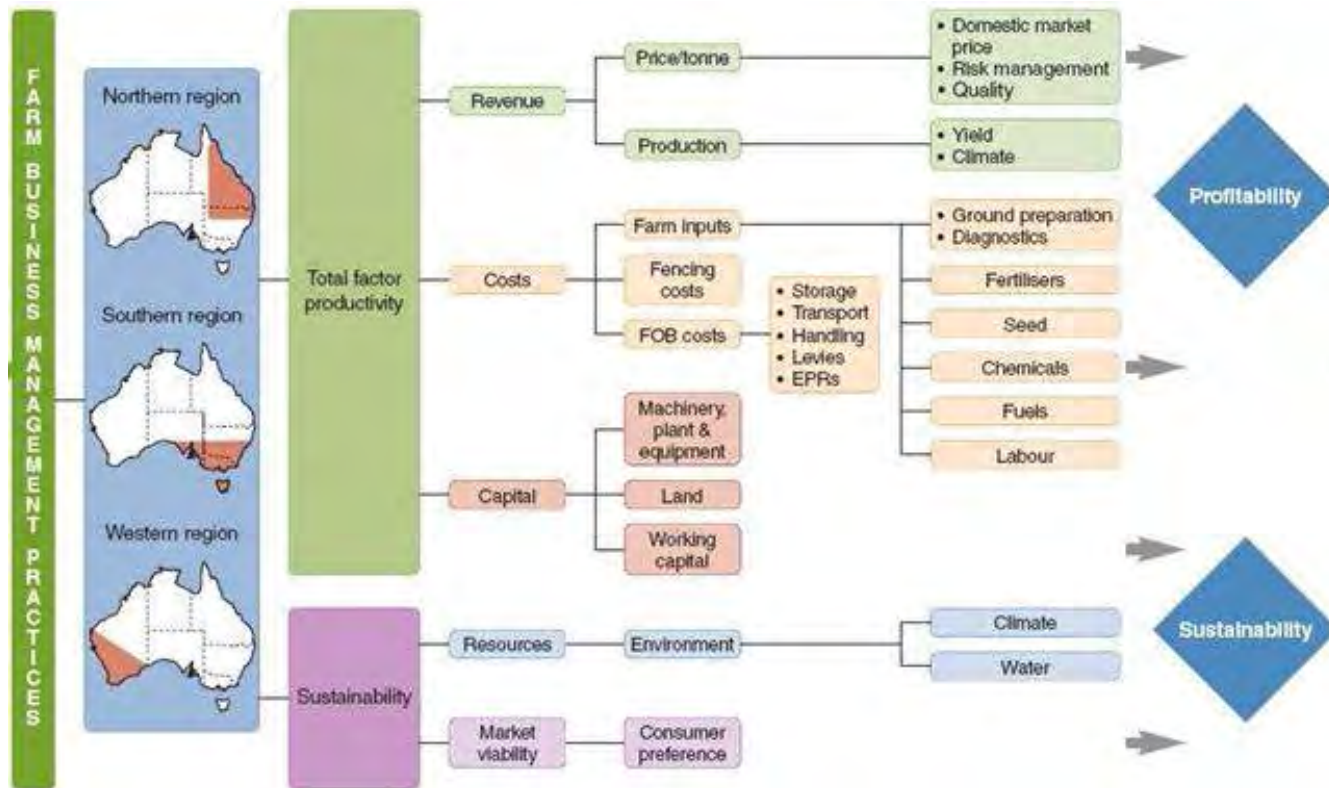


2007-08 R&D Portfolio

- **R&D investment: \$92.6m**
 - Practices: \$30.7m [33%]
 - Varieties: \$46.3m [50%]
 - New Products: \$9.5m [10%]
 - CCB: \$5.6m (incl scholarships) [6%]
 - CSPS: \$0.5m [1%]

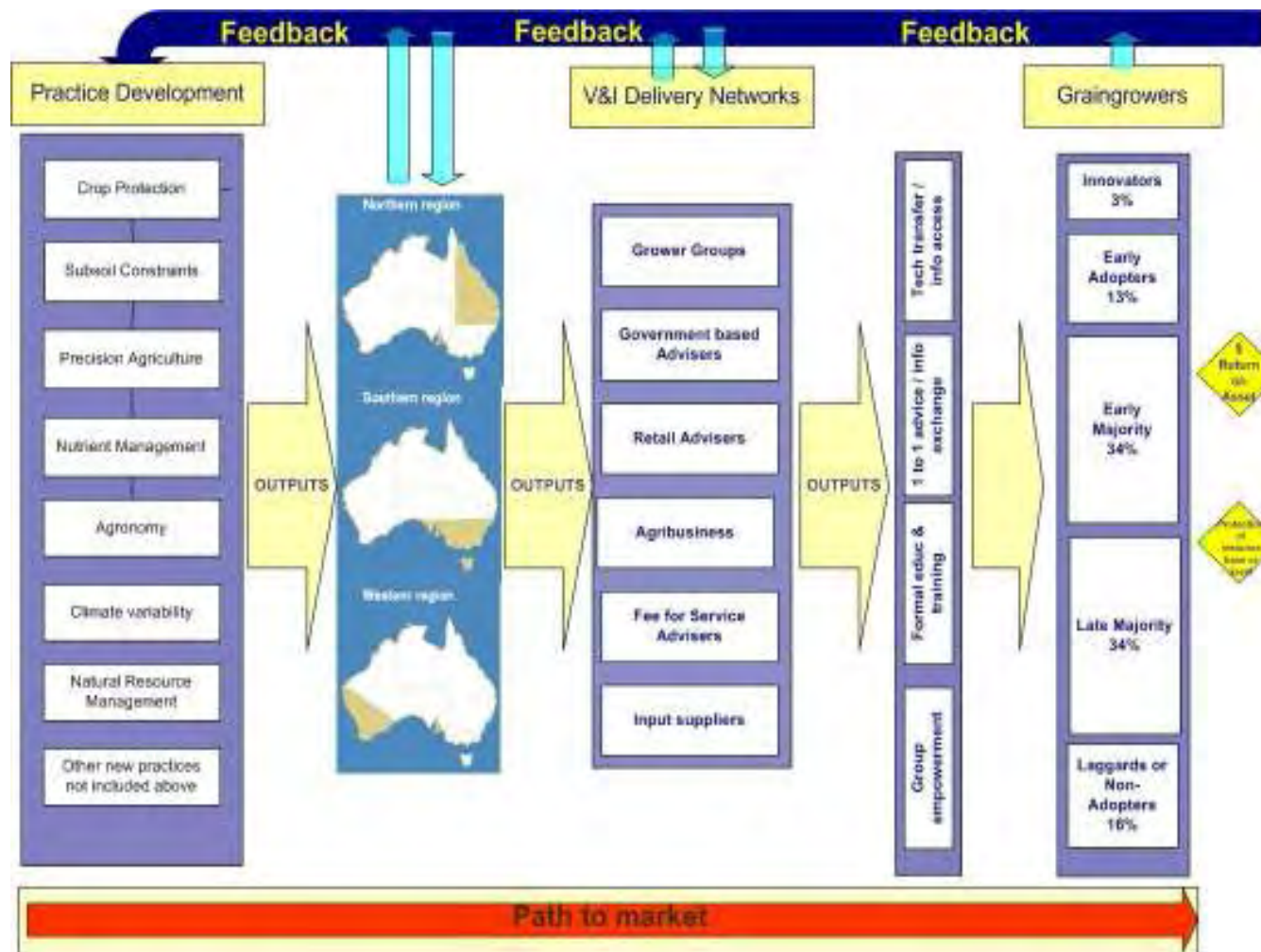
- **Number of projects: 421**
 - Practices: 190 [45%]
 - Varieties: 127 [30%]
 - New Products: 42 [10%]
 - CCB: 60 [14%]
 - CSPS: 2 [1%]

Grains Value Driver Analysis



Drivers of Total Factor Productivity

- Better farm management (quality of management and other work skills as well as ability to access and take advantage of information flows)
- Advances with plant breeding
- Improved crop rotations with better pest & weed control
- Development of new herbicides
- More efficient fertiliser use
- Large scale farming
- Advances in tractor and machinery design
- **Historically 2/3 of productivity from farming practices and 1/3 from better varieties**



Grains R&D in the next five years

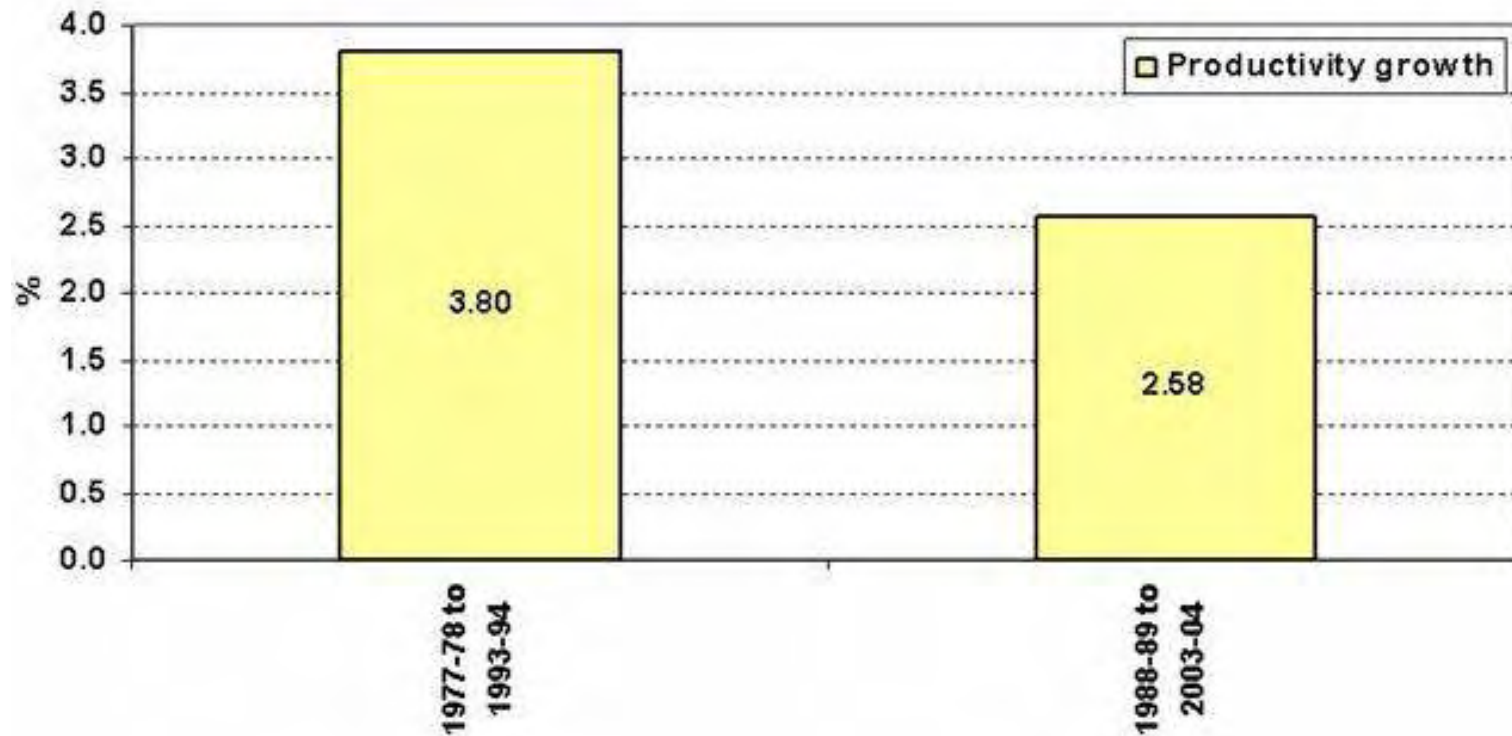
- Co-ordinated/collaborative national and regional approach to Grains R&D
- Full implementation of Lines of Business and Enabling Functions Strategies
- Market driven – business case – path to market (strategy, portfolio balance, value driver analysis)
- Clear “statement of intent” engagement with R&D partners including:
 - CSIRO, Universities, State Departments, CRC’s , Farming Groups, Private Capital

Grains R&D in the next five years

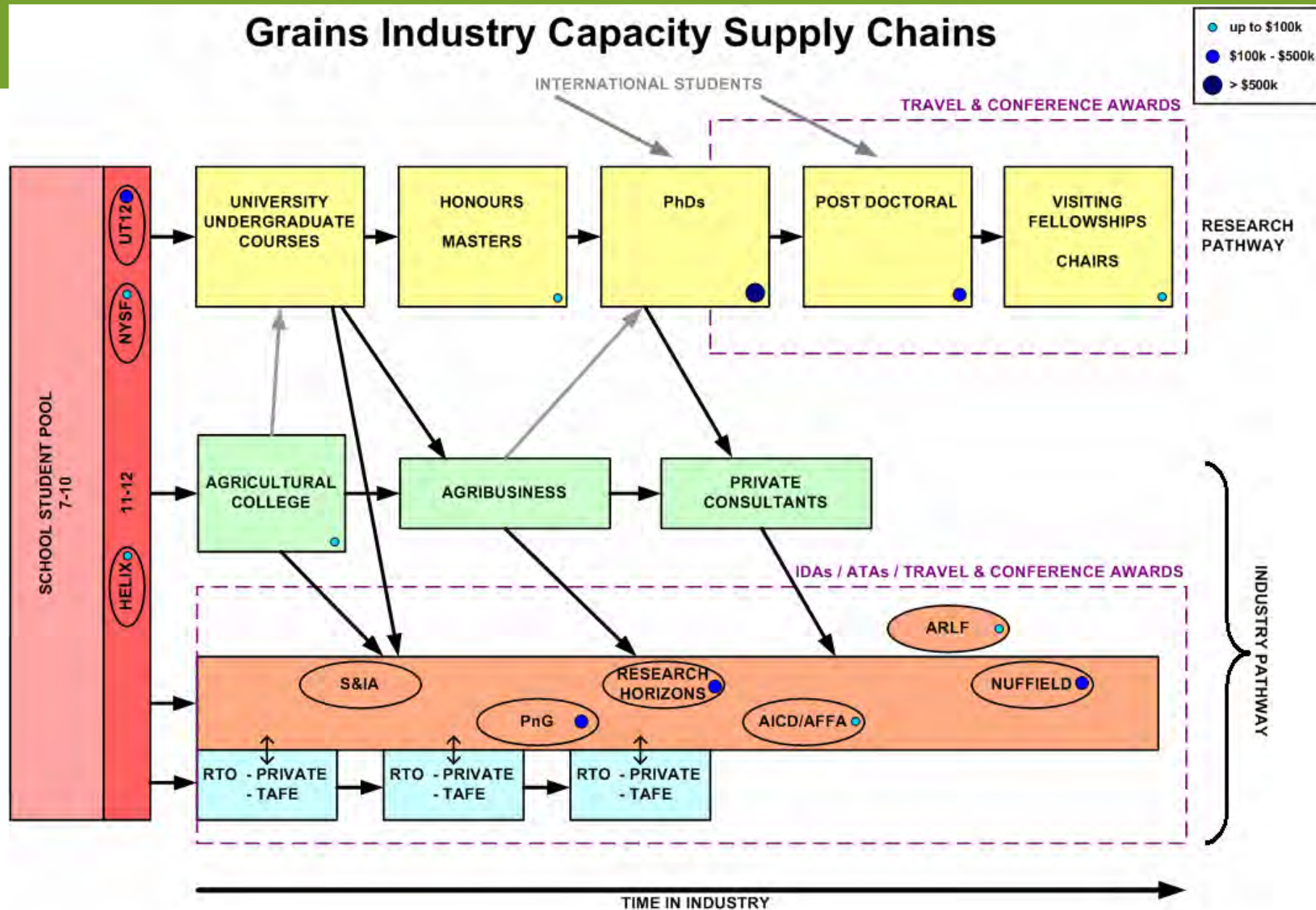
- “Centres for Excellence” for R&D
- Balance between public good (market failure), industry-centric R&D
- Balance between “basic” and “adaptive” R&D
- Clearly defined – R&D delivery channels and segment strategies
- National industry capacity strategy
- Agreed benchmarks with stakeholders and partners on R&D performance & deliveries


“Burning Platform” Grains Industry

Annual Broadacre Productivity Growth in Australia
Crop Specialist



Grains Industry Capacity Supply Chains



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- GRDC sponsors 3 Nuffield Scholars
 - Part of GRDC “Capacity Strategy”
 - Return on investment
 - Leadership to the Grains Industry