



A food systems approach to addressing obesity

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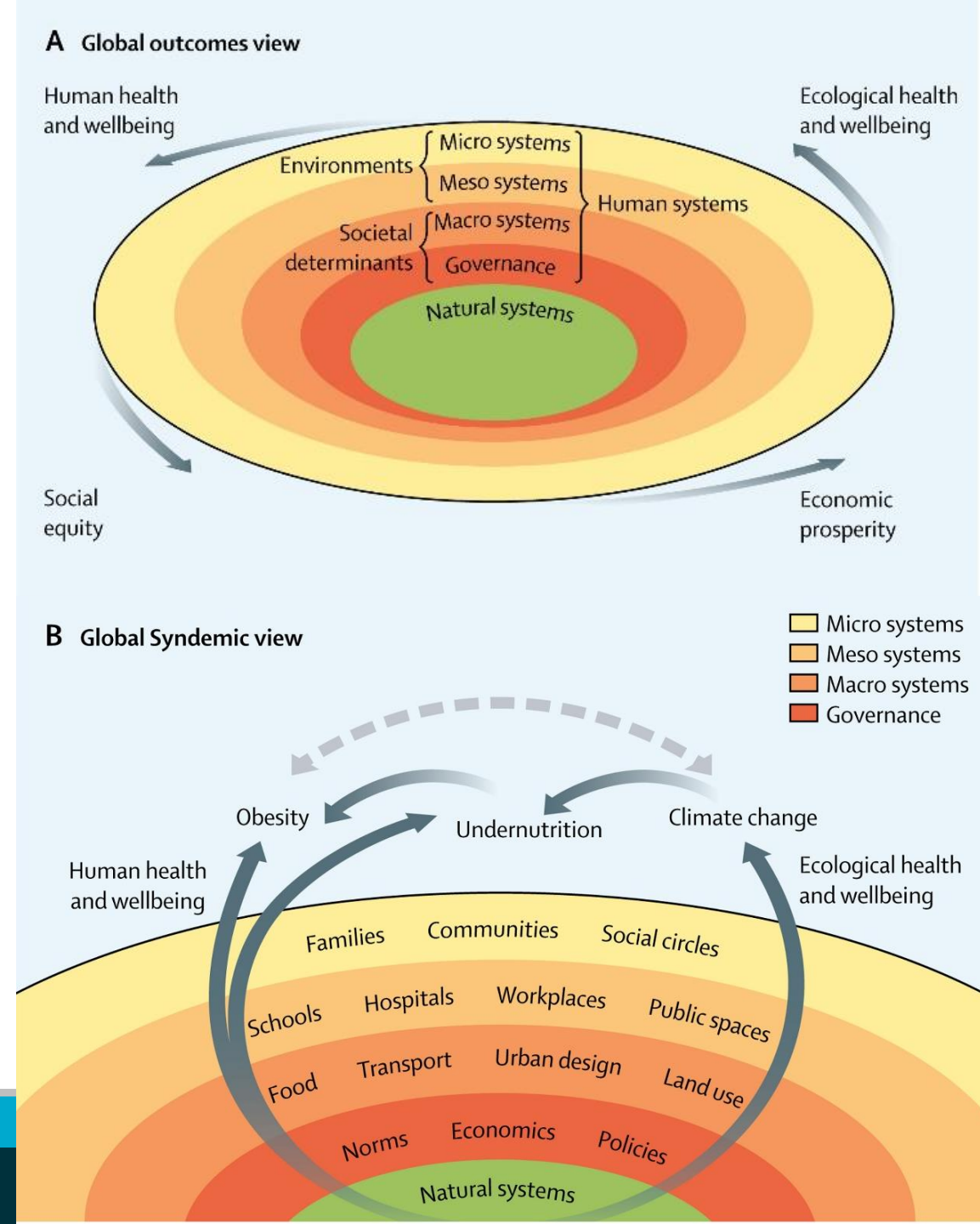
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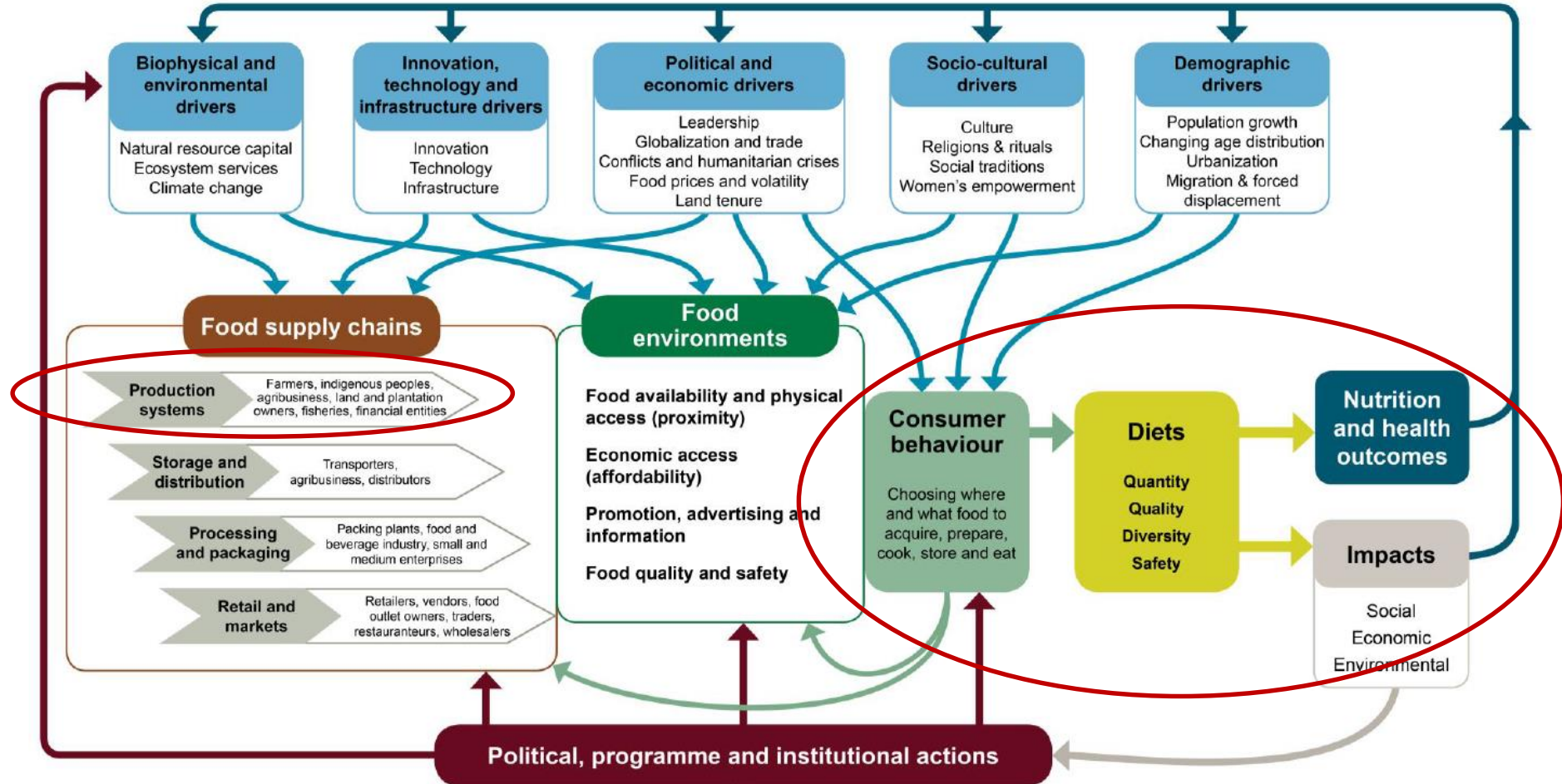
Lancet commission on obesity

- ‘The Global Syndemic’ of obesity, undernutrition and climate change:
 - Co-exist
 - Interact with each other
 - Have common systematic drivers
- Underlying drivers exist within food and agriculture, transport, urban design and land use systems
- Systems level interventions could serve as double or triple duty solutions

(Swinburn et al, 2019, The Lancet)



What is a food system?

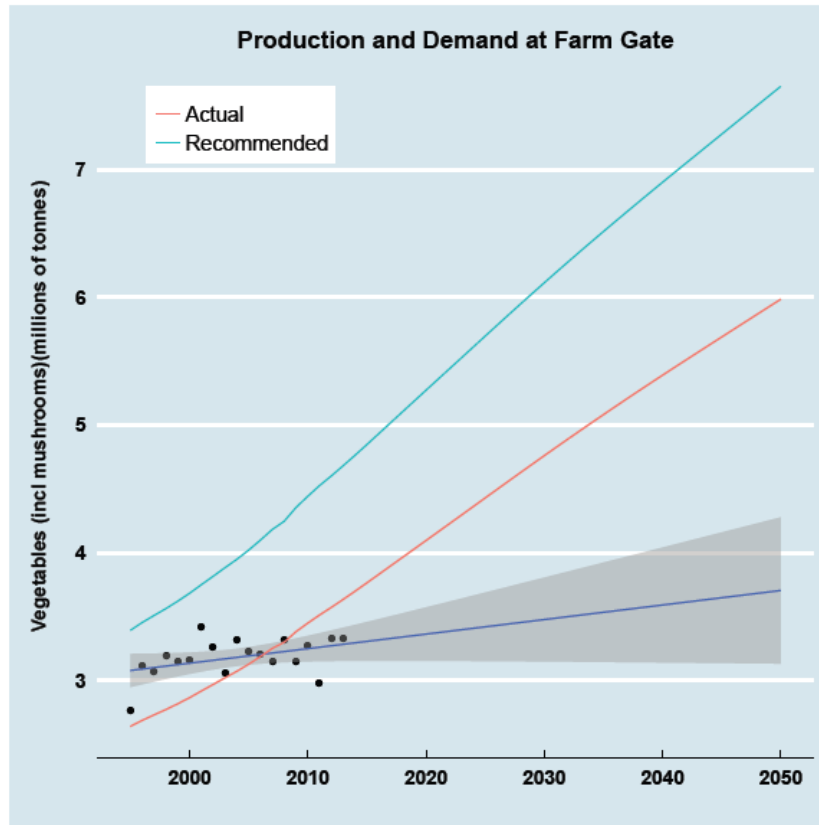


A food systems approach recognises all of the areas, people and linkages throughout the system, then actively seeks to maximise synergies and minimise trade-offs

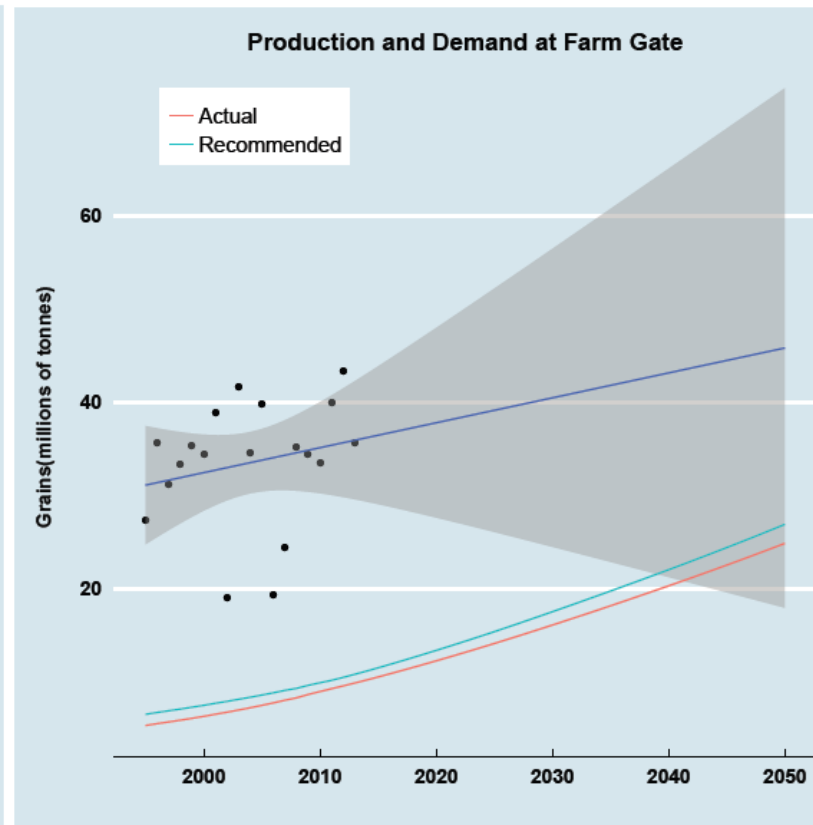
(HLPE report on Nutrition and Food Systems, 2017)

Does Australian agricultural production meet our nutritional needs?

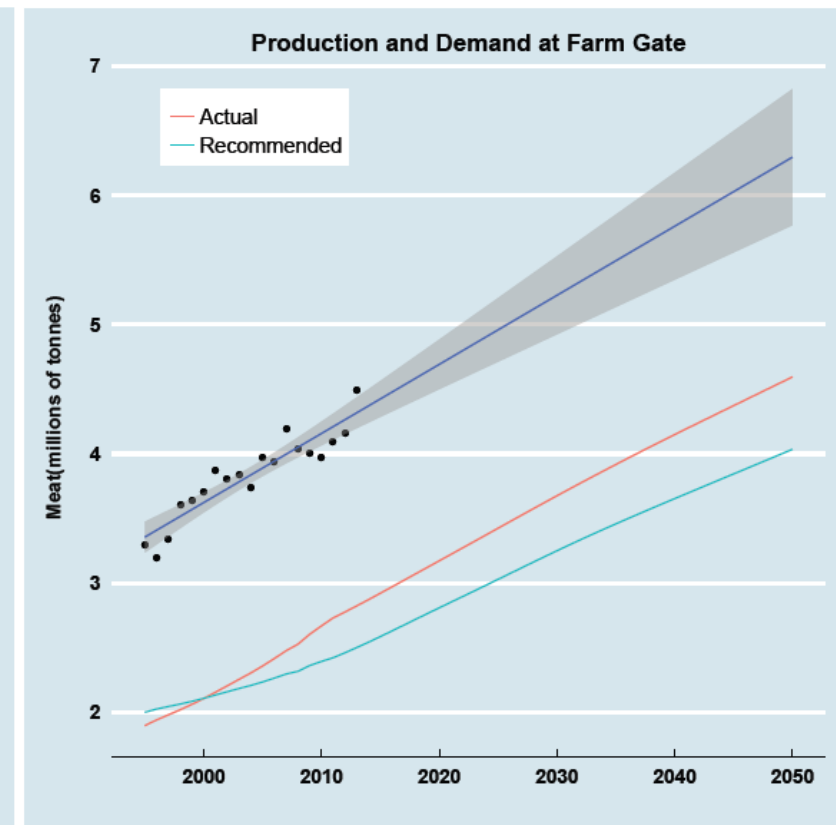
Vegetables



Grains



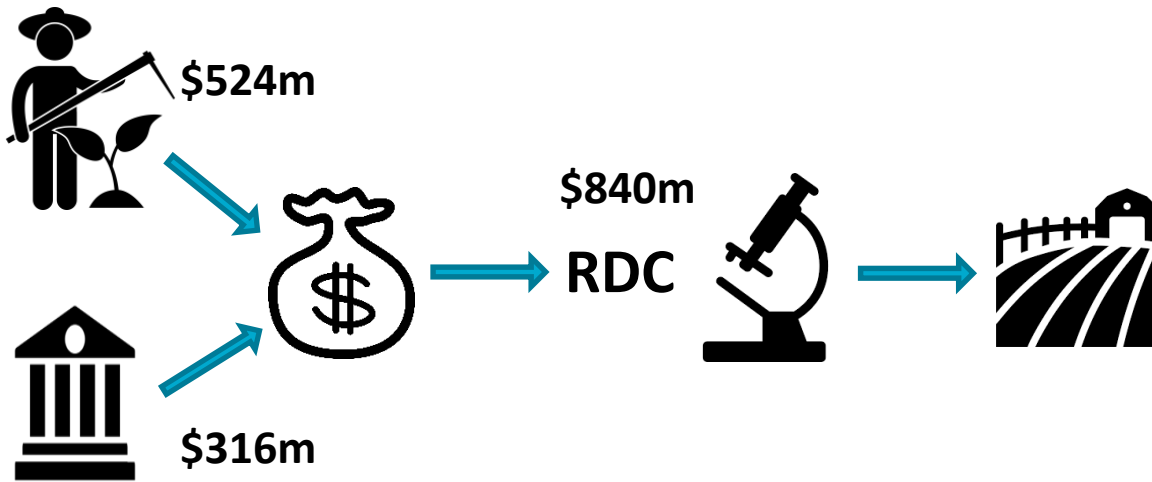
Meat



(Ridoutt et al, 2017, Food Security)

The RDC model

- Investment in agricultural R&D in Australia occurs largely via the Rural Research and Development Corporations (RDC) model
- 15 RDCs (5 statutory and 10 industry)
- Funding is via commodity levies with matched funding from Govt.



(DAWR, Report to Levies Stakeholders, 2018)

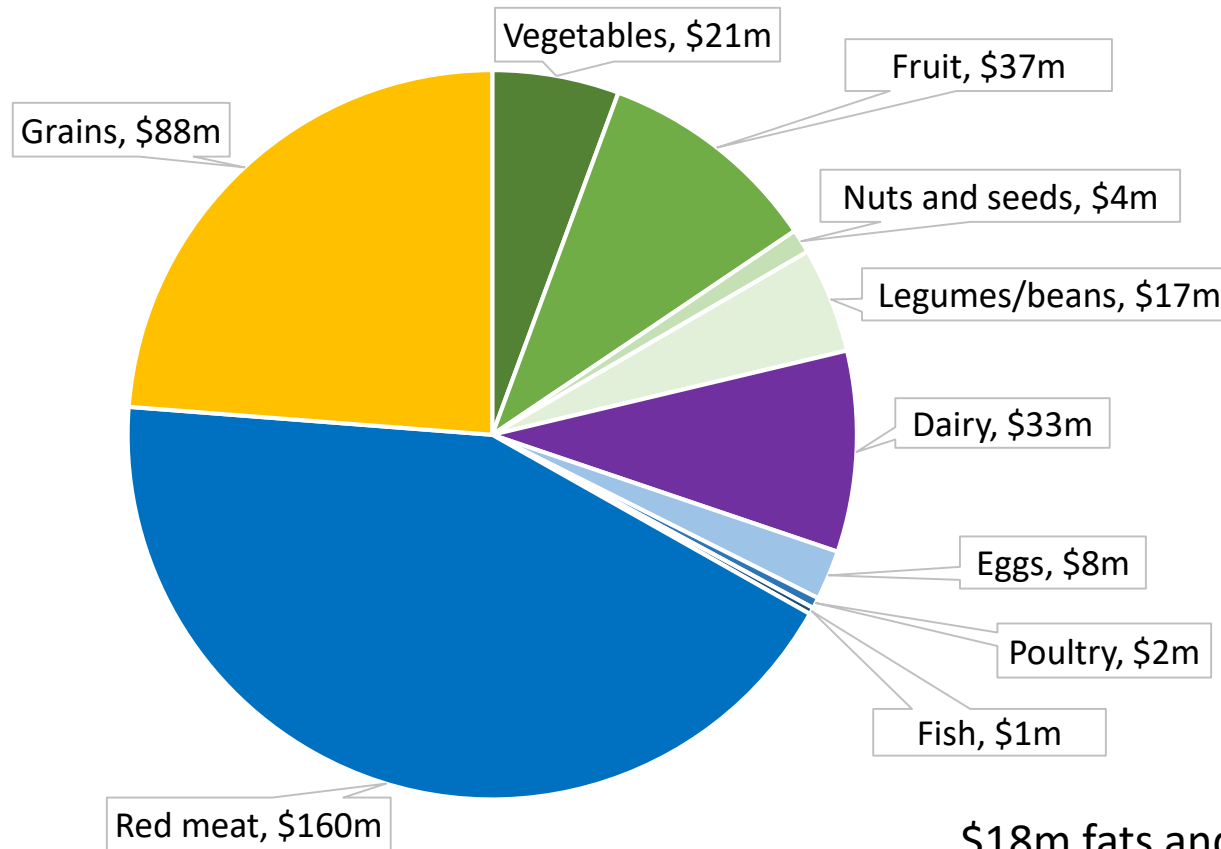
Statutory RDCs

| | |
|-------|--|
| GRDC | Grains Research and Development Corporation |
| FRDC | Fisheries Research and Development Corporation |
| CRDC | Cotton Research and Development Corporation |
| WA | Wine Australia |
| RIRDC | AgriFutures (Rural Industries RDC) |

Industry RDCs

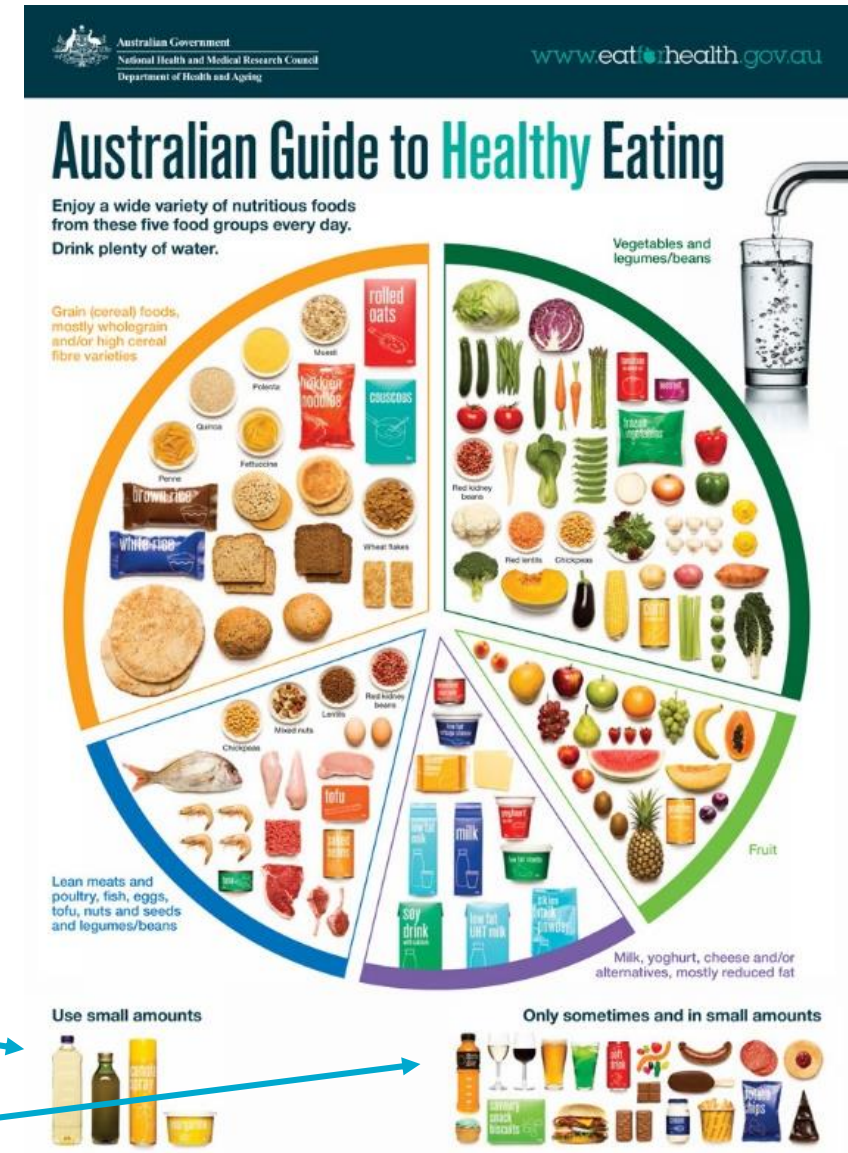
| | |
|----------|---|
| DA | Dairy Australia Limited |
| MLA | Meat and Livestock Australia |
| AECL | Australian Egg Corporation Limited |
| APL | Australian Pork Limited |
| SRDC | Sugar Research Australia Limited |
| HIA | Horticulture Innovation Australia |
| Livecorp | Australian Livestock Export Corporation Limited |
| AMPC | Australian Meat Processor Corporation |
| FWPA | Forest and Wood Products Australia |
| AWIL | Australian Wool Innovation Limited |

Levies invested in agricultural R&D* 2017-18



(DAWR, Report to Levies Stakeholders, 2018)

\$18m fats and oils
\$24m sugar (and honey)
 \$22m wine



Key messages

- Clear need for a 'systems approach' to address obesity (not only a health issue)
- Agriculture and food systems are a key entry point
 - Specifically, the need to align agricultural production with foods needed for healthy diets
- A National Obesity Strategy offers an opportunity embrace a whole of system approach to address the interlinked challenges of obesity, poor diets and sustainability of food systems with multiple benefits

Thank you

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Follow our group on twitter: @GlobalFoodTeam

Program website: <https://research.csiro.au/agricultureglobalchange/>

Group website: <https://research.csiro.au/foodglobalsecurity/>

