



Australian
Farm Institute

New thinking about agriculture

Change in the air: defining the need for an Australian agricultural climate change strategy



Research
Report  Australian
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Change in the air:
*defining the need for an Australian
agricultural climate change strategy*

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Net negative economic impact

Cotton yields could decrease 17% by 2050



Up to 70% of wine-growing regions could be unsuitable for grapes by 2050



Water limited yield potential of wheat declined by 27% between 1990-2015

45 species of fish have shifted south due to rising ocean temperatures since 1800s



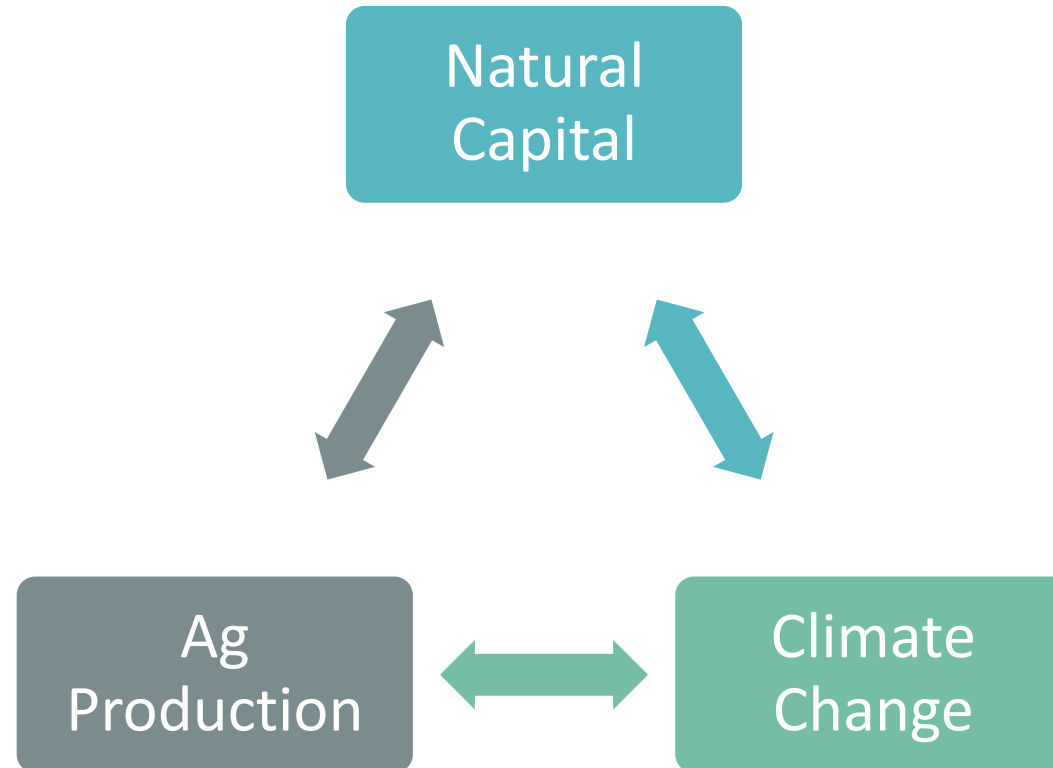
Agriculture GVP



Beef production in QLD and the NT could decline by 19% by 2030 and 33% by 2050



Protect Natural Capital



If not, then what?

- ☒ Agricultural production will fall
- ☒ Farm profits will decline
- ☒ Food insecurity will rise
- ☒ Rural health will be adversely impacted
- ☒ Barriers to adaptation will remain
- ☒ Energy transition will be impeded
- ☒ Investment will lag behind need
- ☒ Sectoral trust will decrease



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Gabrielle Chan
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Tue 2 Jul 2019 04:00 AEST

1,373 145

'Action now': the farmers standing up against 'wilful ignorance' on climate

The challenge for farmers is how to discuss global warming without scaring people out of food production



▲ Farmers across Australia are trying to deal with increased risk by finding new income streams, and changing their stock management plans. Photograph: Mike Bowers/The Guardian

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- GraemeHenchel** 2 Jul 2019 10:36 8 ↑

..." a commitment to find a way forward comes from the heart," Killen said."

Who knew that farmers had their heart in their backside right next two their back pocket that holds their wallet.

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- Mike_Chisholm** 2 Jul 2019 10:45 17 ↑

Too late. Why didn't they ark up before the election? They now own the problem. Your on your own now boys. Good luck.

PS. It is raining in Victoria.

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- thegarlicfarmer** 2 Jul 2019 10:45 25 ↑

Sorry Gabrielle but your first paragraph states it all!

If farmers were really worried about climate change there would have been a seismic shift in voting!

Farmers are saying the same things they said 30 years ago about climate change. Their stupidity is unbelievable.

There have been a few like myself stating the obvious but the majority have not moved one iota!

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- ildfluer** → **thegarlicfarmer** 2 Jul 2019 11:06 3 ↑

Or, a seismic shift in the products they choose to farm.

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- avuncular** → **thegarlicfarmer** 2 Jul 2019 11:26 23 ↑

They voted for Barnaby Joyce. They voted for Angus Taylor. They voted for the LNP to drain 80 million dollars of water and money from the Murray-Darling River system and send it to bank accounts in the Caymans of mates and relatives of Angus Taylor and Barnaby Joyce.

Did they not know this? Actually quite a few of them probably didn't. Instead they have been watching Leigh Sales auditioning for an *Order of Australia* and not holding Morrison to account for his climate change denialism and fondling lumps of coal in parliament.

Credit to Gabrielle Chan for being an honest journalist working in the hostile and harsh climate of rural Australians.

Trying to bring hone the reality bacon to rural Australians who love Barnaby Joyce



[For Growers](#) [For Buyers](#) [For Consumers](#) [Future of Ag](#)



[Transport](#) [Terraton Initiative](#) [Marketplace](#) [About](#) [Careers](#)

A graphic for the Terraton Initiative featuring a green minus sign, a blue play button, and a blue plus sign. Below these symbols, the word "terraton" is written in a large, lowercase, sans-serif font, with "INITIATIVE" in a smaller, uppercase, sans-serif font below it.

terraton INITIATIVE

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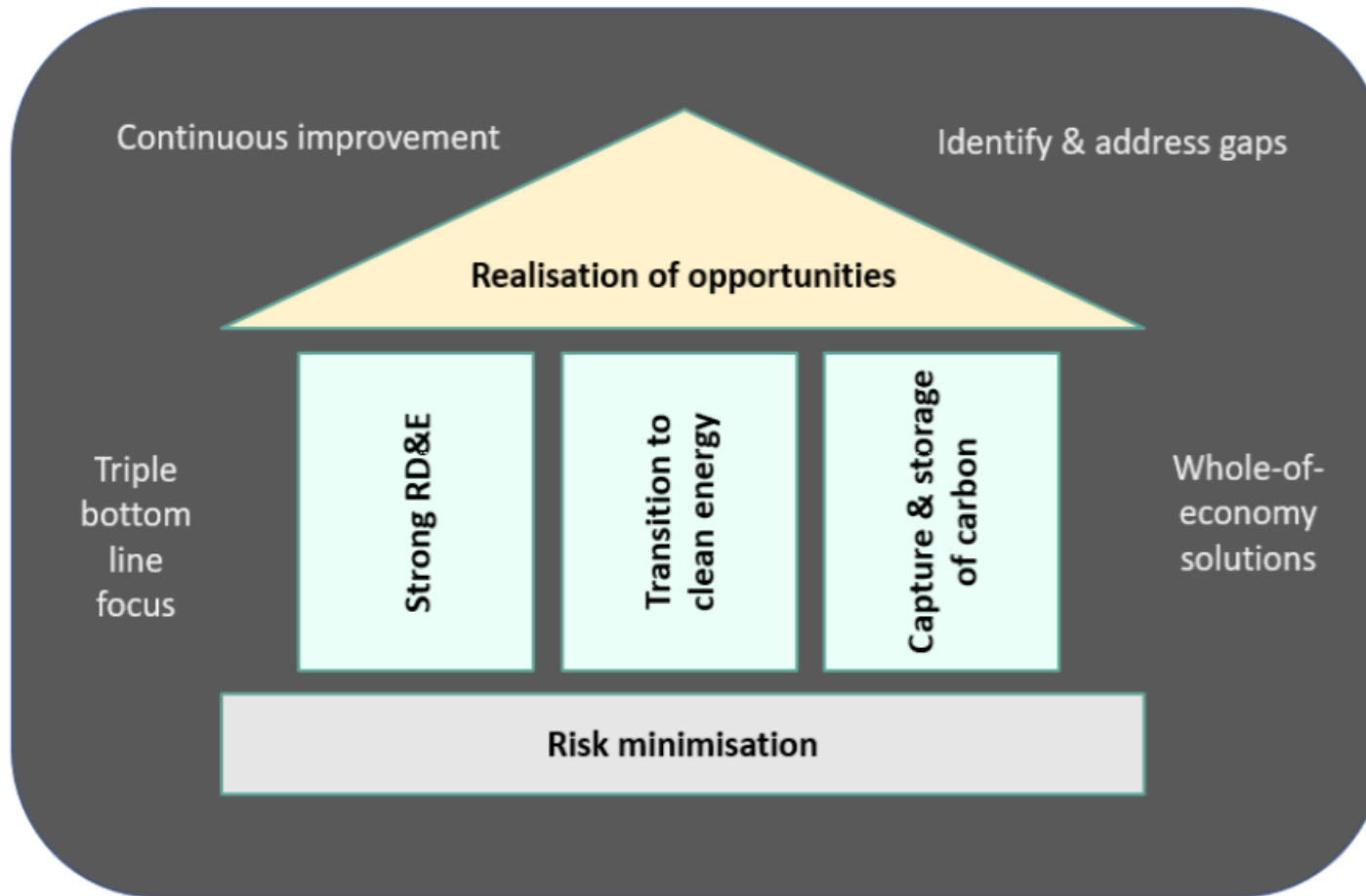
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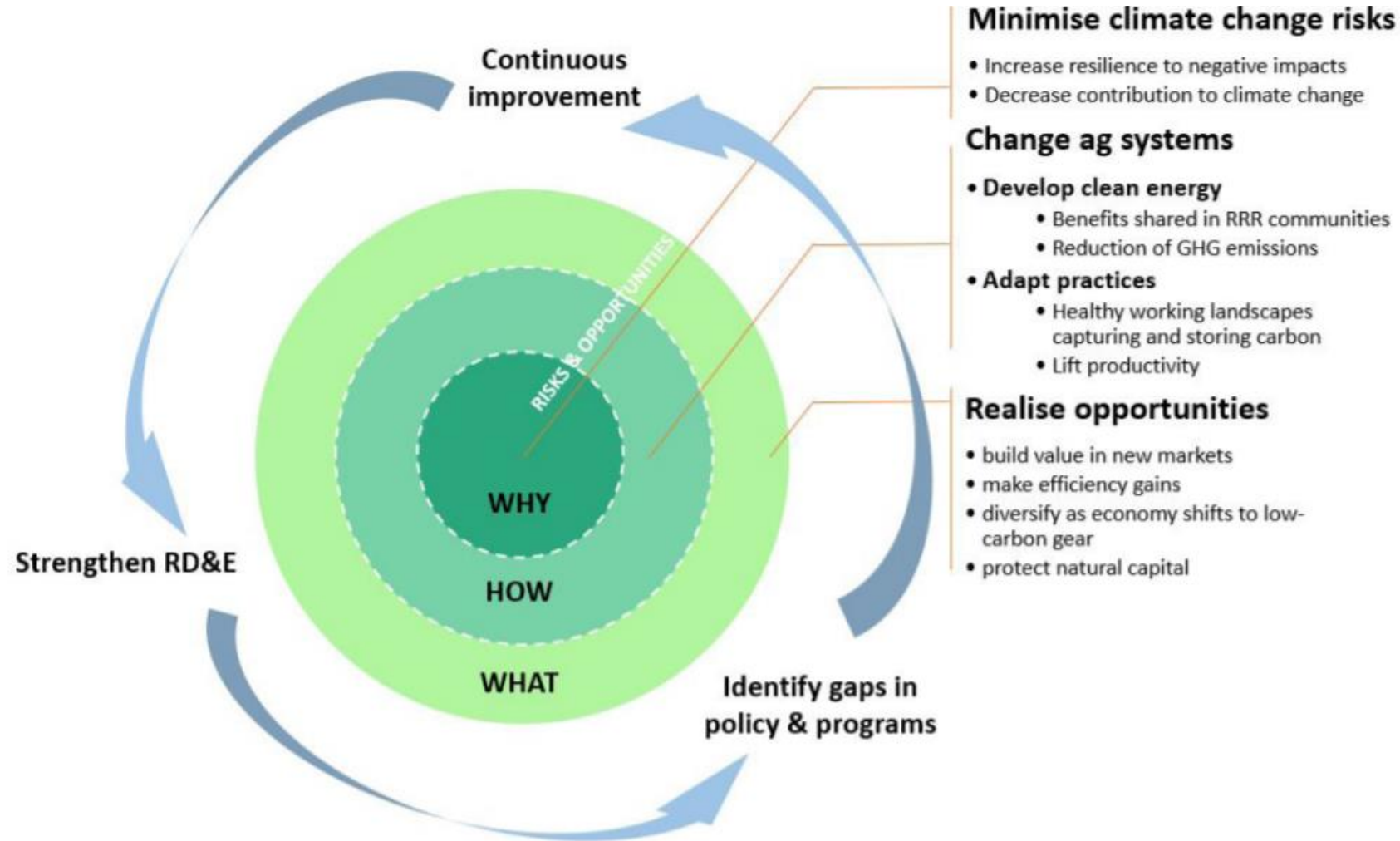
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Proposed pillars of a national strategy for climate change and agriculture



- **Risk minimisation** = guiding principle
- Methods to mitigate risks:
 - **Strong RD&E,**
 - transition to **clean energy &**
 - **capturing & storing carbon**
- Focus on potential **opportunities** = value proposition

Interrelationship of policy pillars



🔍 Recommendations:



- A systemic view of climate change impacts across society informs policy on climate change and agriculture
- Subsequent studies should investigate triple-bottom line approach
- **A national strategy on climate change and Australian agriculture be urgently adopted**

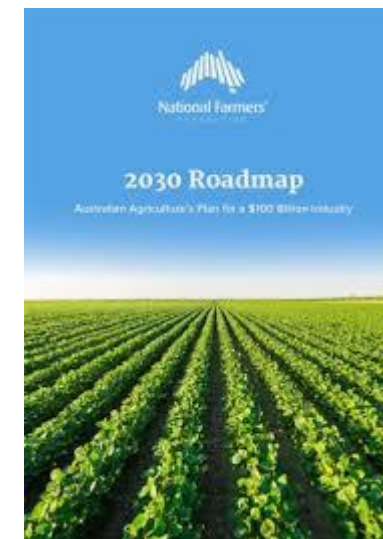
State of play: global & local context



Australian Government



Australian Beef
Sustainability
Framework



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