

Managing Climate Extremes in the Mallee and Wimmera

Diversification, innovation & risk management = Rural resilience

Is all we need is Hope

Grain Farming in Medium to Low Rainfall Environments

- Climate Challenge Two Responses
- Mitigation & Adaptation
- Three Choices
- Diversification Innovation & Risk Management

Increasing resilience of triple bottom line

Profitability, Environment and Community

Is all that is needed Hope?







Why Region Not Sectoral

- Need both Incremental and Transformational choices to be made
- Farmers are Multi Industry
- Family Farms still are dominate ownership/capital structure
- Climate is experienced at a location as weather
- Climate extremes equally impacting on Ecosystems and Soils
- People are social beings and a sense of place is important to empower change

Agricultural Innovation - A National Approach to Grow Australia's Future Summary report March 2019

 Strengthening ecosystem leadership, cohesion and culture: Stronger ecosystem leadership and cohesion across Australian agricultural innovation will generate greater and more diverse outcomes, driving our global competitiveness through clear strategic direction and increased collaboration

- 2. Funding and investment: Growing and improving the balance of investments will help the Australian agricultural innovation system to deliver both incremental and transformational innovation by addressing cross-commodity challenges, and targeting economic, environmental and social outcomes
- 3. World-class innovation practices: Establishing world-class innovation practices through collaboration, entrepreneurship and ambition will be critical in order to maximise opportunities from investment in agricultural innovation
- 4. Strengthening regions: In the future, regions will play a greater role in Australian agricultural innovation, to fully realise its benefits and maximise our innovation uptake
- 5. Next generation innovation platform: Improving the foundations of Australian agricultural innovation, including data, physical infrastructure and the regulatory environment, will support the transformation of our agricultural sector into the future

4.4 Recommendation 4: Strengthening regions

	Strategic recommendations	Details
	4.1. Strengthen the extension and adoption of innovation by enhancing farming systems groups	• Existing farming systems groups can offer tailored support and demonstration of innovation for their region, including mixed farming systems, which will demonstrate the benefits and increase rates of adoption. Trusted groups are shown to be the most effective at creating change on <u>farm</u>
	4.2. Create an avenue for agricultural innovation system participants to contribute to national priority setting	 This could be achieved through providing formal roles for farming systems groups and end users to contribute to the development of national priorities for the agricultural innovation system
	4.3. Create communities of regions with similar characteristics to network both locally and internationally	 This could be achieved through connecting agriculture leaders in Australian regions with leaders from global regions to discuss common issues that are prevalent within their regions. Through connecting agricultural leaders, common problems can be discussed in order to create innovation demand as well as share potential solutions to increase the speed of uptake Communities could be connected through a multi-channel approach, where farmers could connect digitally, face-to-face through conferences, or leverage innovation precincts
	4.4. Build capability to better inform decision- making and increase the speed of innovation and adoption	 Multiple methods will be used to develop capability in these areas such as: Optimising the use of existing online learning platforms; Enhancing farming systems groups as discussed in 4.1 to conduct workshops, and meet-ups that explore these topics, build capability and develop collaboration; and supporting the consistent use of <u>a centralised online forums</u> for

regions to share experiences and knowledge with each other

Diversification; Innovation; Risk



2019



Rural Resilience

- Rural resilience may be defined as the capacity of a rural region to adapt to changing external circumstances in such a way that a satisfactory standard of living is maintained
- A rural area's people, community and resources ability to cope with the area's inherent economic, ecological and cultural vulnerability. Wim Heijman1, Geoffrey Hagelaar2, Martijn van der Heide3
- For me Resilience is not the response. It is the investment in the preparation





Resilience and Hope

Hope locates itself in the premises that we don't know what will happen and that in the spaciousness of uncertainty is room to act. When you recognise uncertainty, you recognise that you may be able to influence the outcomes – you alone or you in concert with a few dozen or several million others.

Hope is an embrace of the unknown and the unknowable, an alternative to the certainty of both optimists and pessimists. Optimists think it will all be fine without our involvement; pessimists adopt the opposite position; both excuse themselves from acting.

It is the belief that what we do matters even though how and when it may matter, who and what it may impact, are not things we can know beforehand. We may not, in fact, know them afterwards either, but they matter all the same, and history is full of people whose influence was most powerful after they were gone.

Rebecca Solnit

https://www.theguardian.com/books/2016/jul/15/rebecca-solnit-hope-in-the-dark-new-essay-embrace-unknown

