

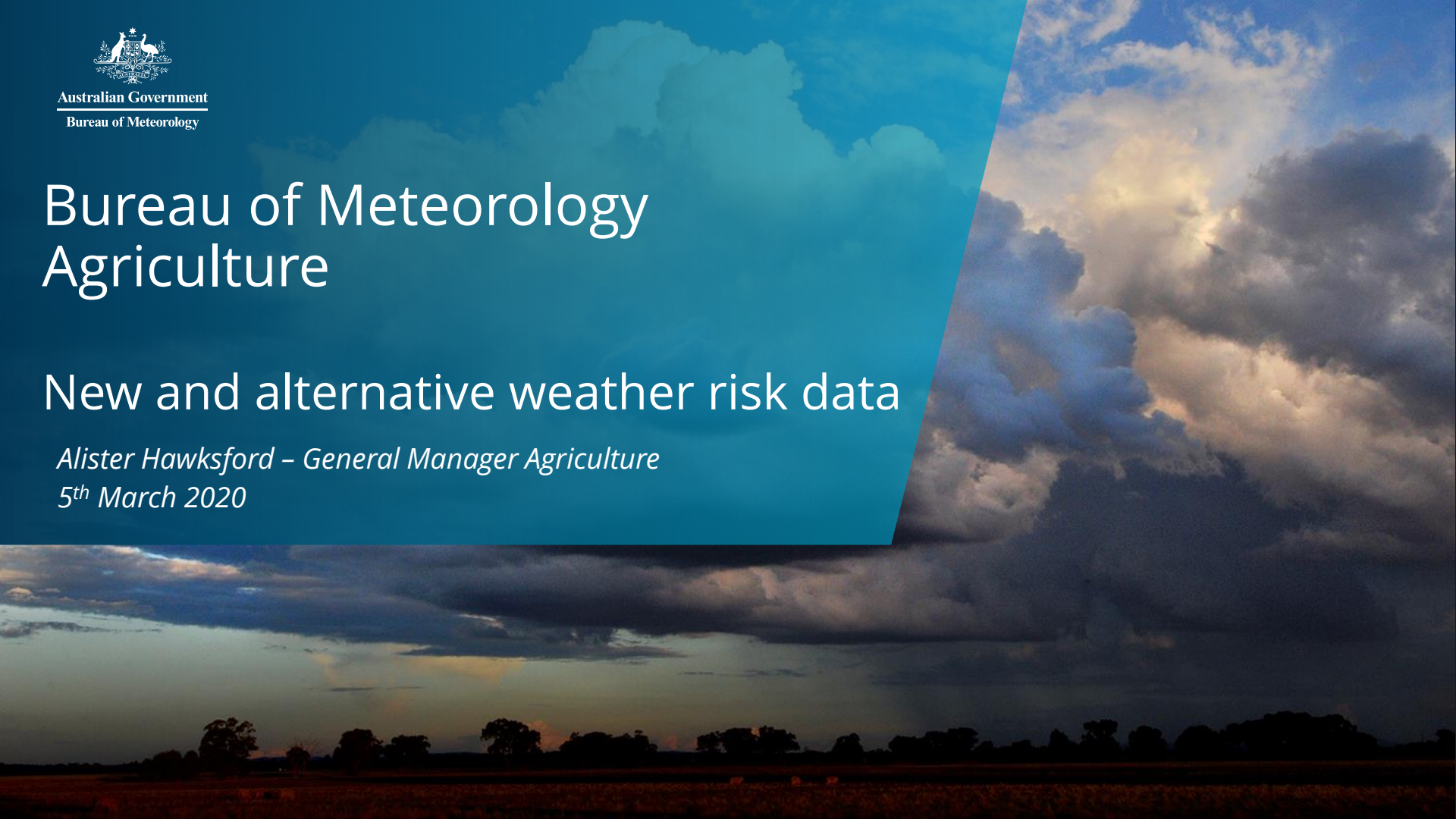


Australian Government  
Bureau of Meteorology

# Bureau of Meteorology Agriculture

## New and alternative weather risk data

*Alister Hawksford – General Manager Agriculture  
5<sup>th</sup> March 2020*



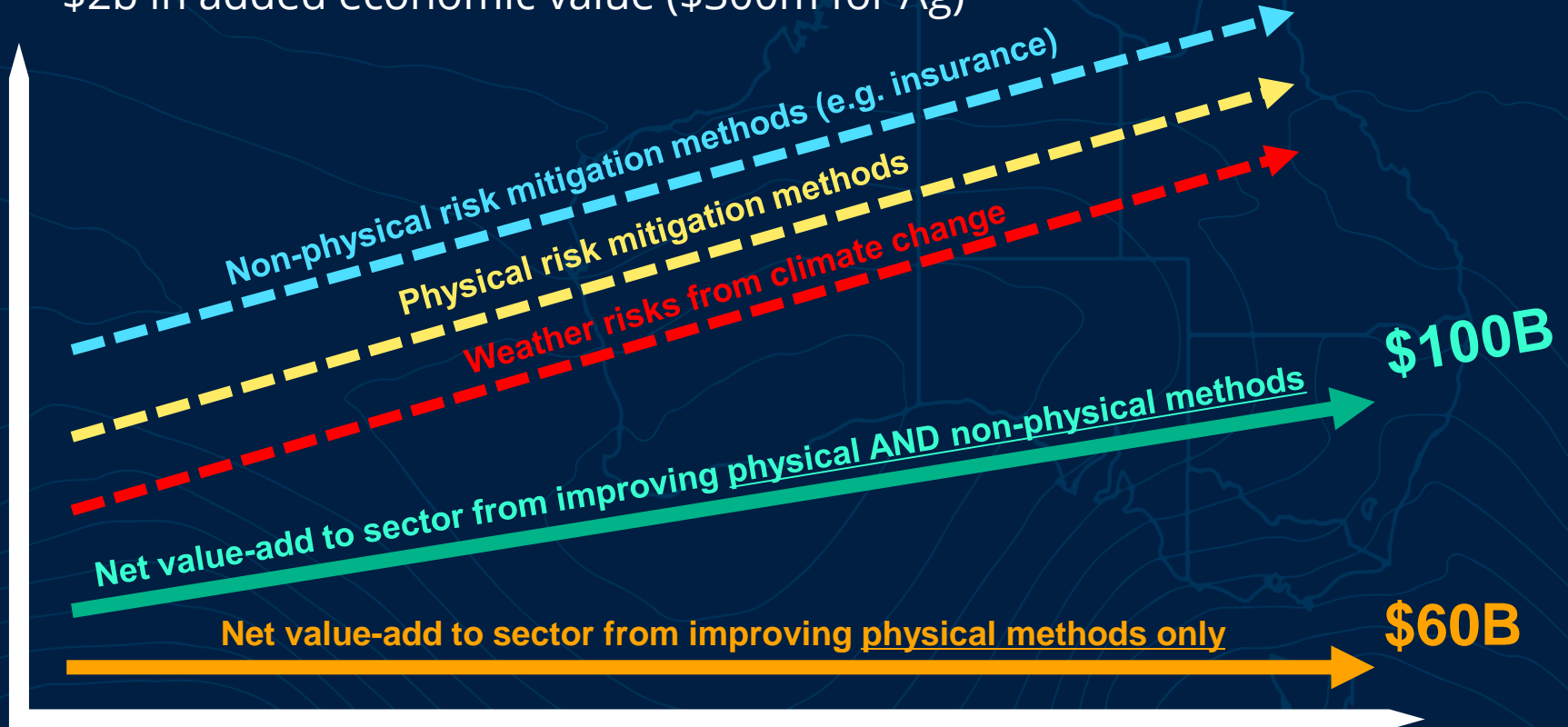


# Outline

1. Why is the Bureau interested in ag insurance?
2. Market priorities
3. Challenges with current weather risk data
4. Proposed alternative weather risk data
5. How can you be involved?

# 1. Why is the Bureau interested in Ag insurance?

- \$2b in added economic value (\$300m for Ag)



## 2. Market priorities

1. Lack of uptake driven by...



2. Market needs...



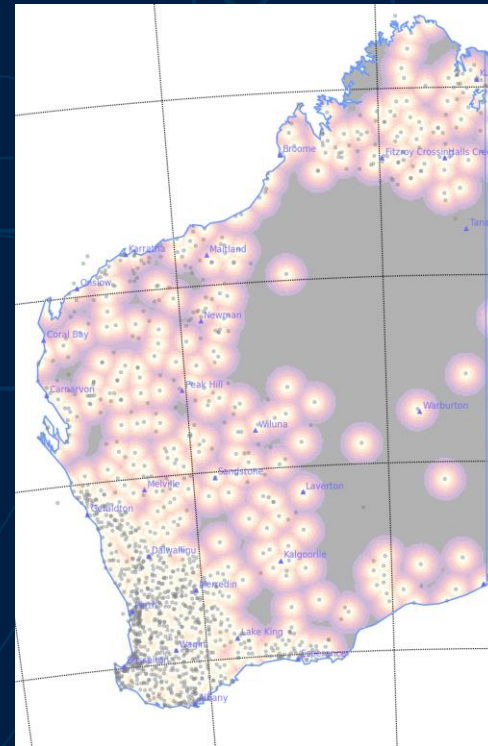
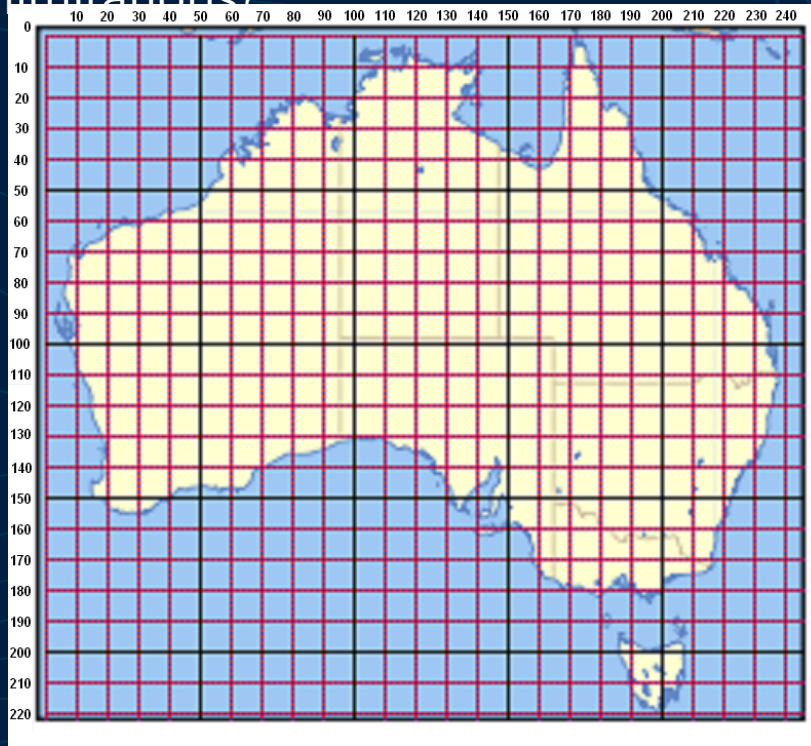
3. Weather risks of highest priority are:

- a) Rain
- b) Minimum temperature
- c) Maximum temperature

- d) Wind
- e) Humidity
- f) Hail

### 3. Challenges with current weather risk data

- How do we characterise risk at specific locations? What are the limitations?



### 3. Challenges with current weather risk data

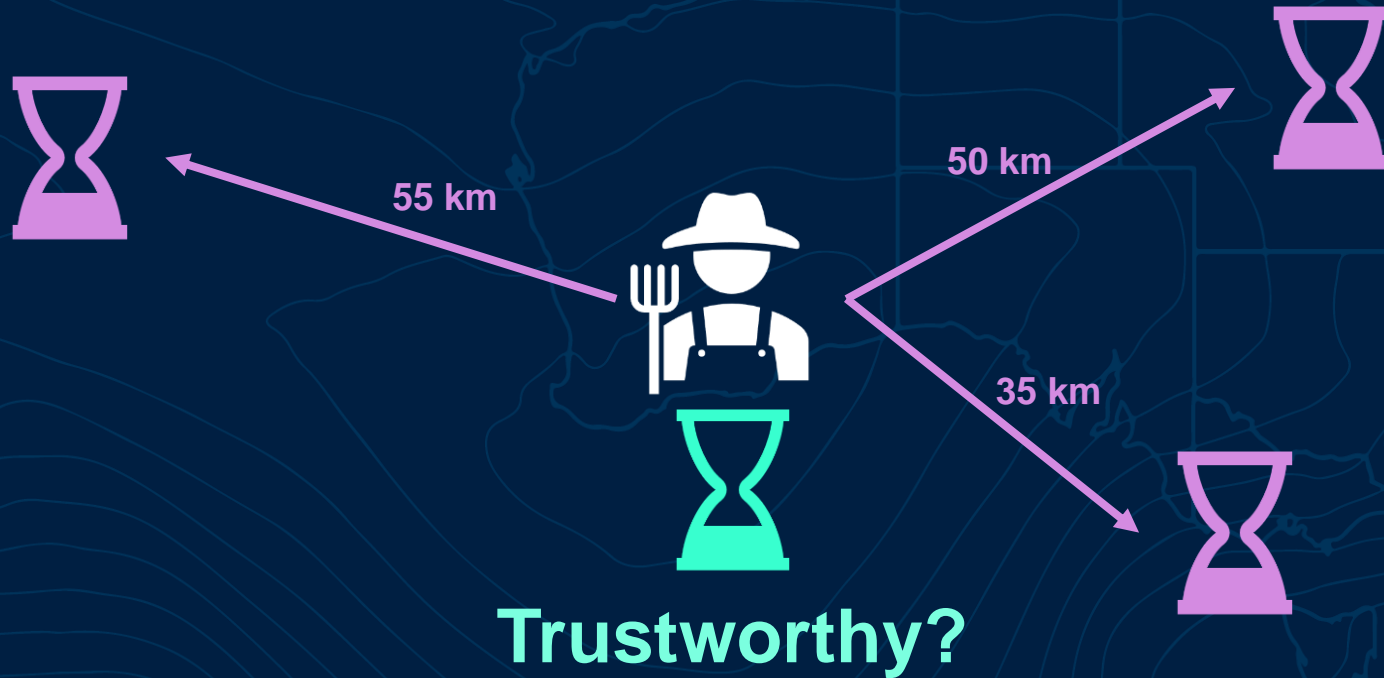
- How do we mitigate data limitations?



New risk data

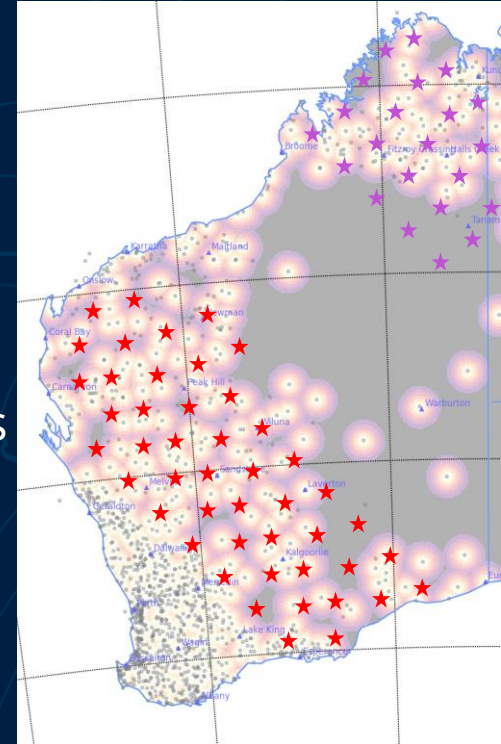
## 4. Proposed alternative weather risk data

- **Trusted Private Automatic Weather Stations (TPAWS)** as part of the National Drought Mission.



## 4. Proposed alternative weather risk data

- TPAWS extension products for risk calculation
  - On-farm AWAP
  - 100-year risk reconstructions
- Blended radar + satellite rain analyses
- Calibrated frost risk and real-time detection
- BARRA 1.5 km resolution modelled observations
- ...???





## 5. How can you be involved?

- Seeking project partners for **Trusted Private Automatic Weather Stations** project
- Seeking expressions of interest for **Drought Mission**
  - How else can we strengthen Ag insurance market?
- What is the next market-wide project?