



DIGITAL OPPORTUNITIES IN AGRICULTURE

Gwendolen DeBoe & Marie-Agnès Jouanjean

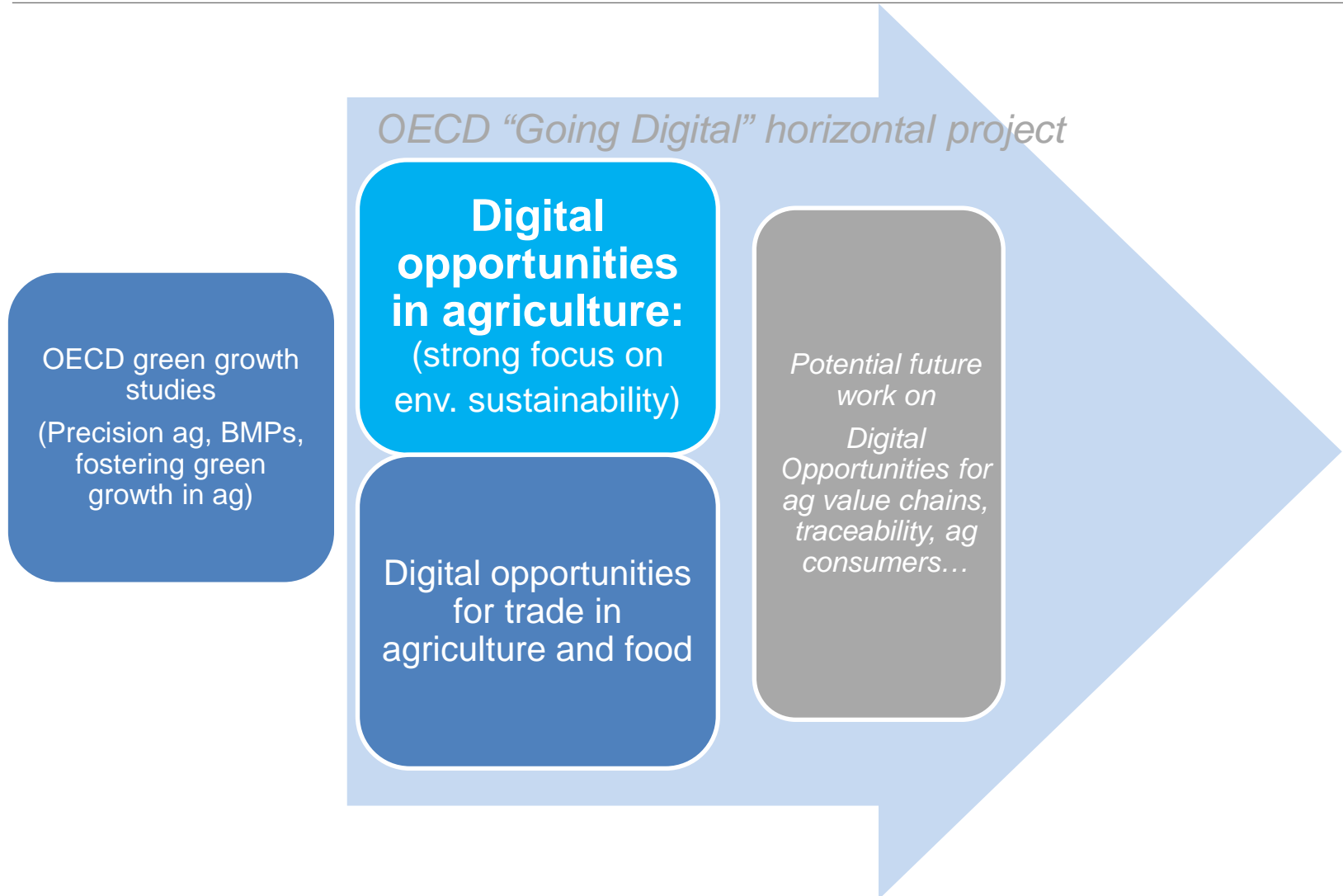
Visions of the Future in Food Production

OECD Co-operative Research Program Governing Body meeting

1 December 2017



Project context





Project objectives

- **Part A: Enabling use of ICTs in agriculture**
 - Review of the “push and pull” factors for the adoption of ICTs in agriculture
 - Mapping of the type of policies and regulations conditioning the use of ICTs in agriculture – setting the scene for future work in this space
- **Part B: Use of ICTs to support better agri-environmental policies**
 - Identify examples of where ICTs have been positively integrated into agri-environmental policies, regulations and programmes
 - Identify factors which make it difficult for ICTs to be adopted in practice
 - Articulate a practical framework for the use of ICTs to improve effectiveness and efficiency



Part B: (draft) case studies

- **Australia**

- Aerial mapping and monitoring of gully erosion to help improve agriculture's impact on the Great Barrier Reef
- “Confidential computing” to enable use of private data for research & policymaking while preserving privacy

- **Estonia**

Comprehensive e-governance for agriculture

- **EU**

“RECAP” initiative: Earth Observation (EO) technology for EU CAP compliance

- **Netherlands**

Using in-situ sensors and remote monitoring to deliver a flexible compliance program that “follows nature”

- **New Zealand**

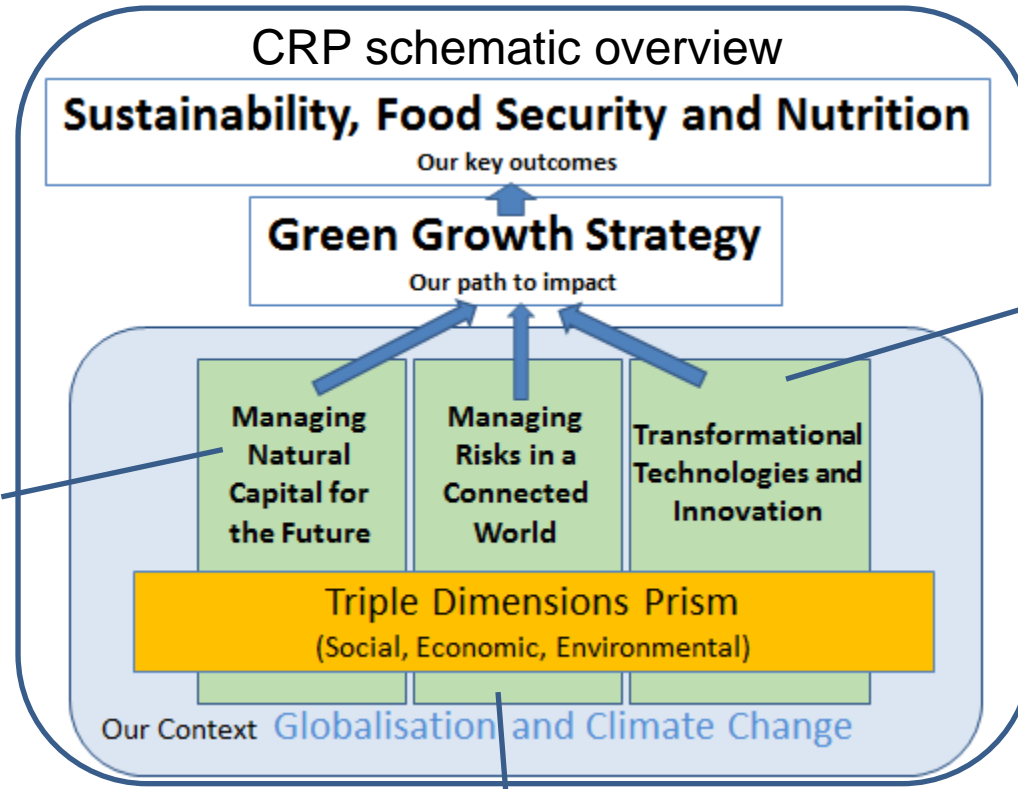
Sources & Flows National Science Challenge: EO + advanced modelling to deliver nation-wide landscape assessments to underpin a move to focus on land-use “suitability”

- **USA**

- USEPA “Next generation compliance” for confined animal operations permittees
- Data transparency regulations + innovative monitoring technologies to enable communities of compliance with water quality targets in California



Relevance to CRP



Technological advances enable better resource assessments & environmental goal-setting

CRP-sponsored research supports transformational tech development

CRP is a knowledge network that can help us both gather scientific knowledge and disseminate findings and policy recommendations



For more information

- Visit our website: www.oecd.org/agriculture
- Contact us:
Gwendolen.DEBOE@oecd.org
Marie-Agnes.JOUANJEAN@oecd.org
- Follow us on Twitter: [**@OECDagriculture**](https://twitter.com/OECDagriculture)