DIGITAL OPPORTUNITIES IN AGRICULTURE

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Project context

OECD “Going Digital” horizontal project

Digital opportunities in agriculture:
(strong focus on env. sustainability)

Digital opportunities for trade in agriculture and food

Potential future work on
Digital Opportunities for ag value chains, traceability, ag consumers…

OECD green growth studies
(Precision ag, BMPs, fostering green growth in ag)
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 is a knowledge network that can help us both gather scientific knowledge and disseminate findings and policy recommendations

CRP-sponsored research supports transformational tech development

CRP schematic overview

Sustainability, Food Security and Nutrition

Our key outcomes

Green Growth Strategy

Our path to impact

Managing Natural Capital for the Future
Managing Risks in a Connected World
Transformational Technologies and Innovation

Triple Dimensions Prism
(Social, Economic, Environmental)

Our Context
Globalisation and Climate Change
For more information

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