

Agriculture and Food Development Authority

Digital Technologies for Irish Farmers

Developing and governing digital technologies with the end user in mind

Áine Regan Research Officer, Department of Agri-food Business & Spatial Analysis, REDP, Teagasc



Farm Business Options 23rd March 2021

Digital Technologies in Farming





For the farmer: data-driven decision making

Irish Farmers' and Digital Technology

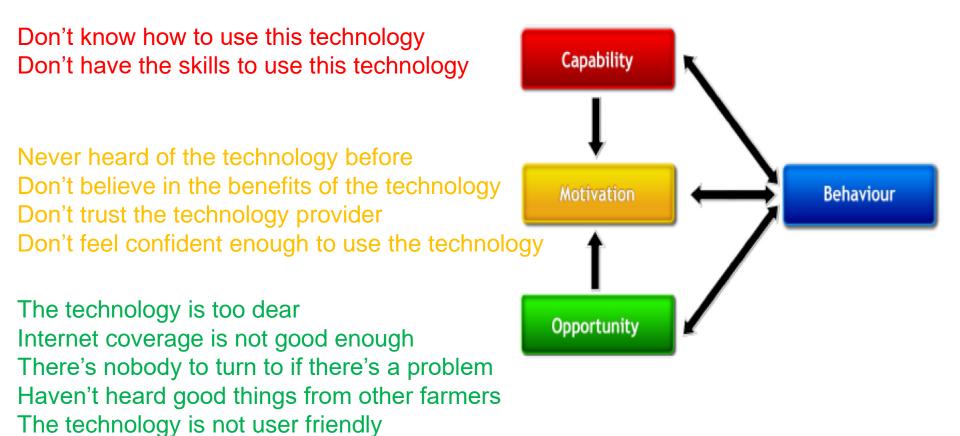


Smartphones mainly used for checking weather, news and livestock prices, and for farm records management

- 2019 survey of 710 farmers
- 46% of farmers using some form of technology on their farm
- A further 40% indicated they were positive about using technology in the future

Adoption rates	Beef	Dairy	Sheep	Tillage
Smartphone	82%	89%	84%	94%
Calf registration system	56%	86%	26%	13%
Camera monitoring in barn	30%	53%	18%	15%
Herd management system	24%	46%	17%	17%
Remedy recording system	27%	53%	16%	17%
GPS used for machine guidance/steering	7%	15%	7%	77%
Weather stations	12%	11%	12%	17%
Milking robot	1%	4%	1%	0%
Parcel boundary mapping with GPS	5%	5%	11%	55%
Health monitoring	6%	13%	7%	4%
Satellite imagery	6%	2%	9%	28%

Factors Influencing Digital Behaviour

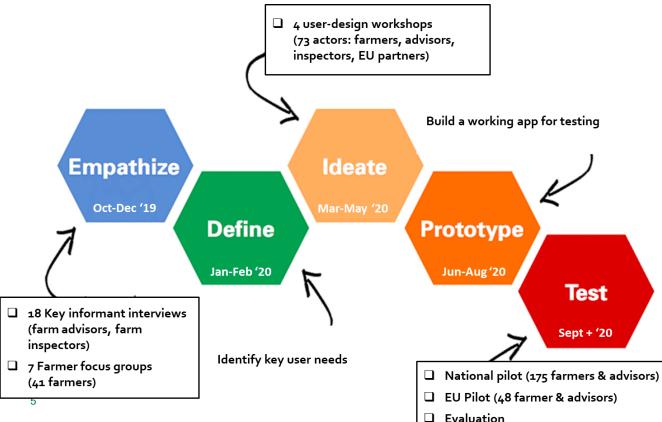


Source: Michie et al (2011) The Behaviour Change Wheel: a new method for characterising and designing behaviour change interventions. *Implementation Science*

Good technology design comes from diverse and inclusive thinking



H2020 NIVA Project: Geo-tagged photo app & system for monitoring of CAP payments

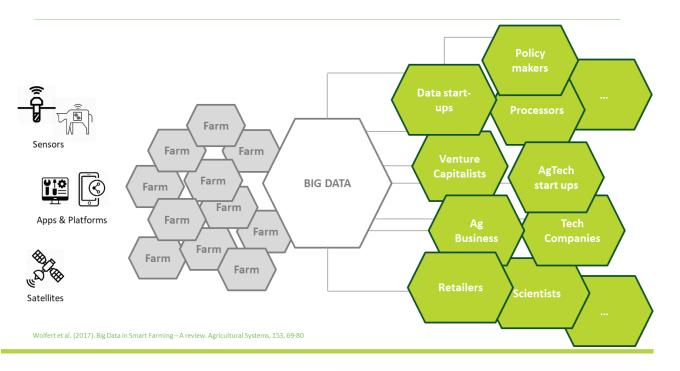


We want to hear from you

If you are a scheme applicant and interested in taking part in the next test of the AgriSnap App, e-mail: agrisnap@agriculture.gov.ie



Good technology governance comes from diverse and inclusive thinking





- Who owns the data?
- Is farm data the same as personal data?
- What if 3rd parties want access to the data?
- Who should decide who gets access to data?

AgriDISCRETE Project

- Exploring good data governance in agriculture and forestry
- Running workshops to hear from different actors on the topic of data ownership and sharing

We want to hear from you

- In the next series of workshops, we will be testing the concept of a multi-sided data governance platform
- If you would like to take part, send us an e-mail: aine.regan@teagasc.ie

Gateway Technologies



Has Covid-19 prompted farmers into an online and digital environment?

- Online marts
- Online newspapers
- Online advisory services
- Changed business models

Positive experiences have the ability to improve confidence and realising the potential of increased digitalisation on one's farm

Post-Covid, post-restrictions: Building back or building forward?

How do we ensure that nobody is left behind?





Áine Regan – e-mail: aine.regan@teagasc.ie

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The project team includes: Eoin Dooley (DAFM); Dave Hearne and Christine O'Meara (WIT TSSG); Áine Regan and Ursula Kenny (Teagasc)