



Agrimetrics Data Platform; Harnessing and merging big data

D. Flanders, M. Coffey

Speaker: David Flanders





Agrimetrics Data Platform: Harnessing & Merging Big Data

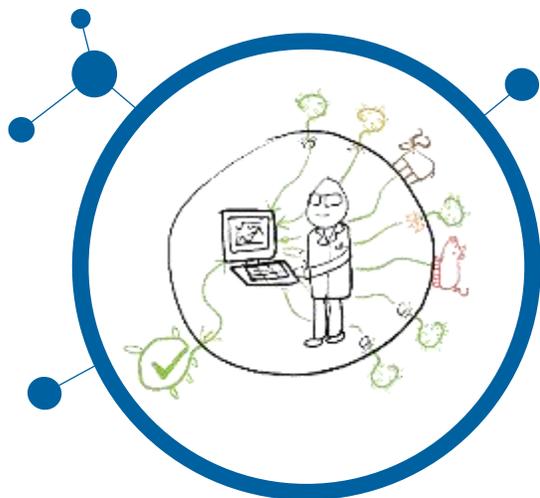
David Flanders, PhD
CEO, Agrimetrics Ltd
14 June, 2017



Who we are

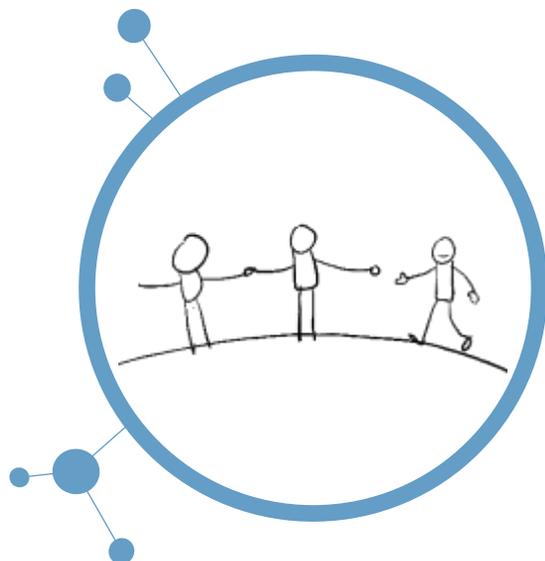


A Big Data Centre of Excellence



Agri-Tech Strategy
Innovate UK
£12m

Collaboration



Rothamsted Research
University of Reading
NIAB
SRUC

A team of experts



Data Science
Crop & plant health
Livestock production
Sustainability

Independent, Not for Profit Broker

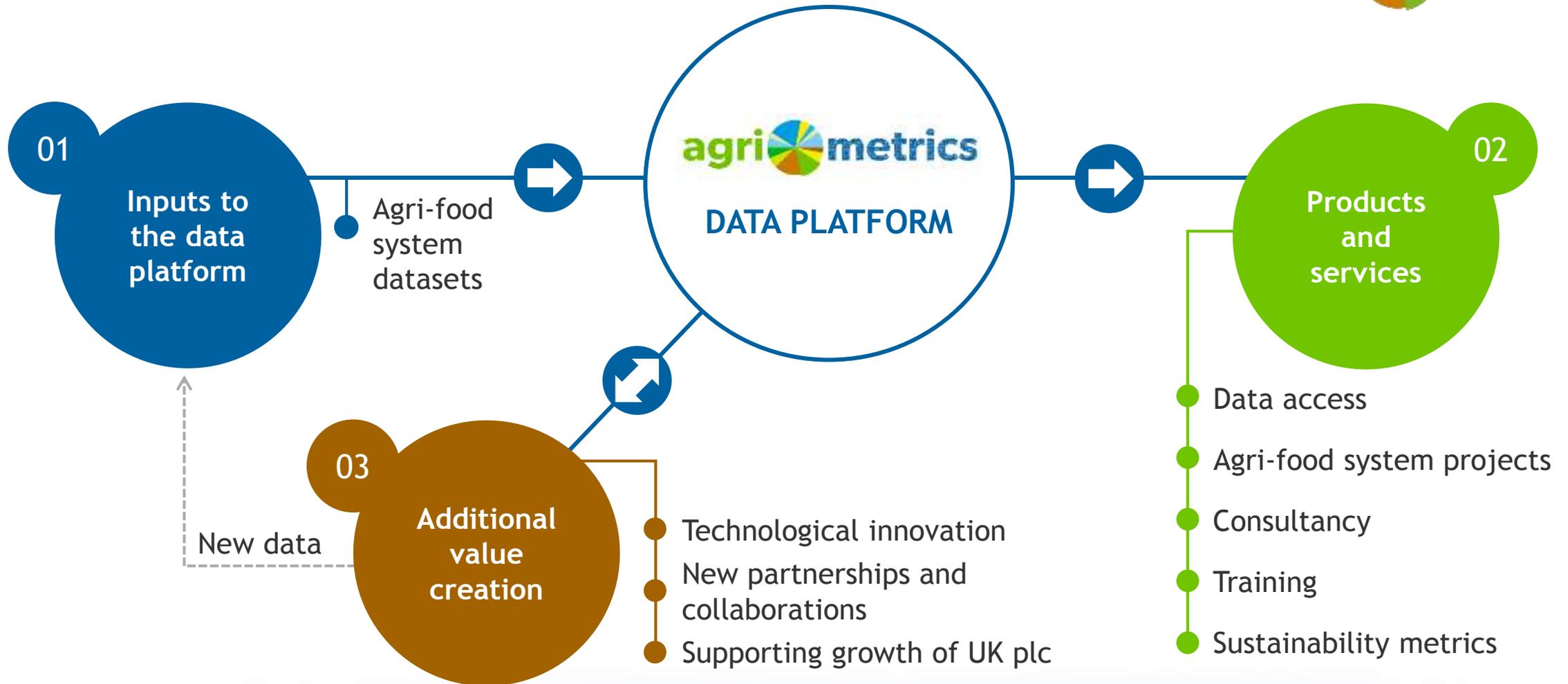


Trusted and secure
Across the agri-food
system

Our vision

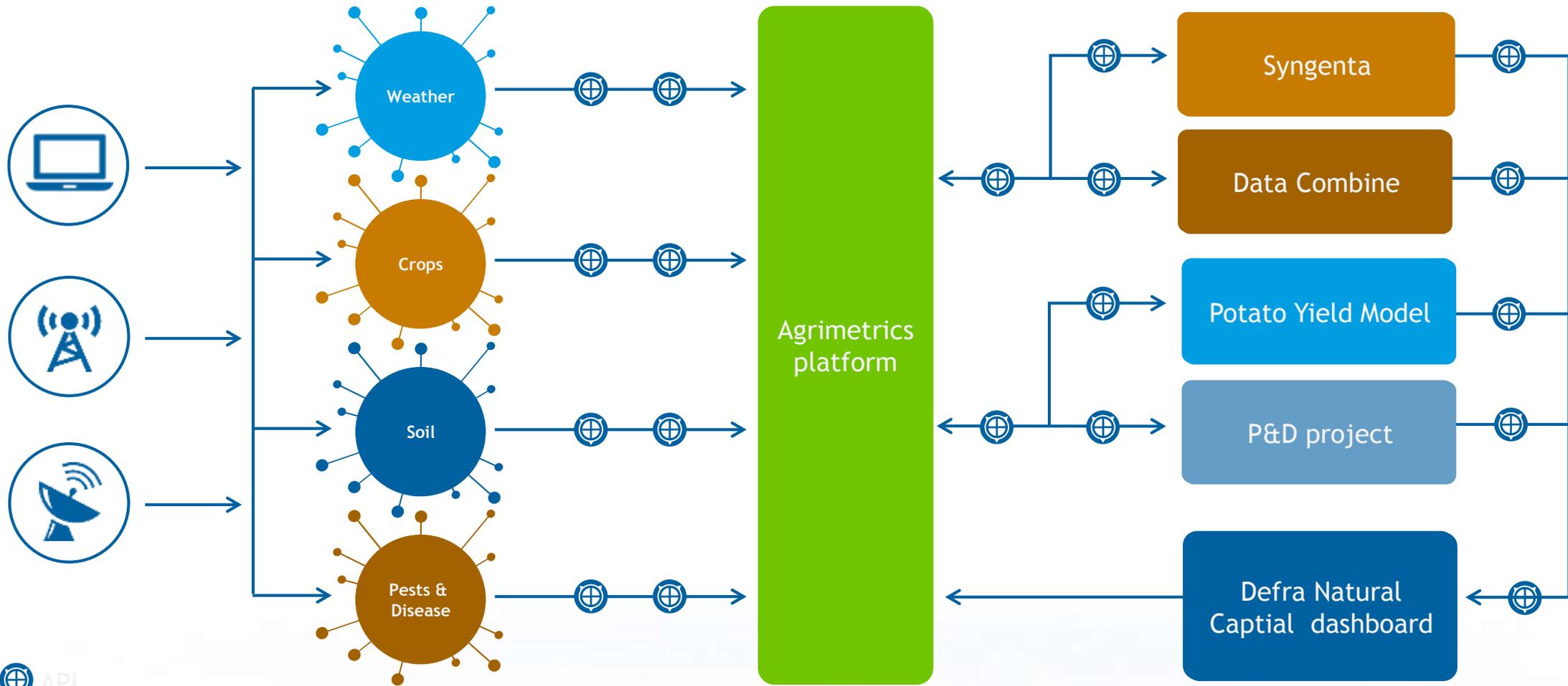


Delivered via the world's first agri-food big data exchange **agri****metrics**



Creating a market in agri-food data and insights that is open to all

Delivered via the world's first agri-food big data exchange **agri****metrics**



Agrimetrics's three aims



The value

- ❑ Independent, trusted way of connecting data across the Agri-food system
- ❑ An evidence base for the interconnected challenges of growing, sourcing & selling food
- ❑ A common framework that can be processed by machines allowing data to be shared and reused across applications, enterprises, & locations
 - ❑ Insights provided in real time
- ❑ Used to enhance the productivity, safety, quality & sustainability of agri-food production
 - ❑ Now and in the future

Case studies



Confidential benchmarking



Connected cow



Potato yield model



Other agri-food data-sharing success stories

- ❑ **Sedex (Supplier Ethical Data Exchange)** - Shares data on ethical treatment of workforce
 - ❑ Across 40,000 organisations and 150 countries
- ❑ **Food Hygiene Rating Scheme** - Identifies hygiene standards across 99% UK food businesses
 - ❑ encourages businesses to improve hygiene standards & reduce incidence of foodborne illness
- ❑ **Cool Farm Tool** - GHG, biodiversity and water assessment on farm
 - ❑ Shared anonymised information used for analysis of crops & regions

By sharing data together you could

- ❑ Better connect supply and demand for different livestock sectors
- ❑ Create confidential benchmarking processes that enable farmers to become more productive and profitable
- ❑ Develop an evidence base that enables better understanding, measurement and management of interconnected issues
 - ❑ *e.g.*, animal welfare, GHG emissions, carcass quality, nutrition
- ❑ Compare performance across different production systems and geographies
 - ❑ *e.g.*, UK lamb vs. NZ lamb
- ❑ Connect world leading science on sustainability of livestock production

The challenges to overcome

- Trust
- Identification of win:win
- Data as a currency to trade for better insights
- Shift from 'thinking you can do it on your own' to 'needing to work with others' to find the solutions to complex agri-food related problems

End

Appendix



Four Centres - One vision

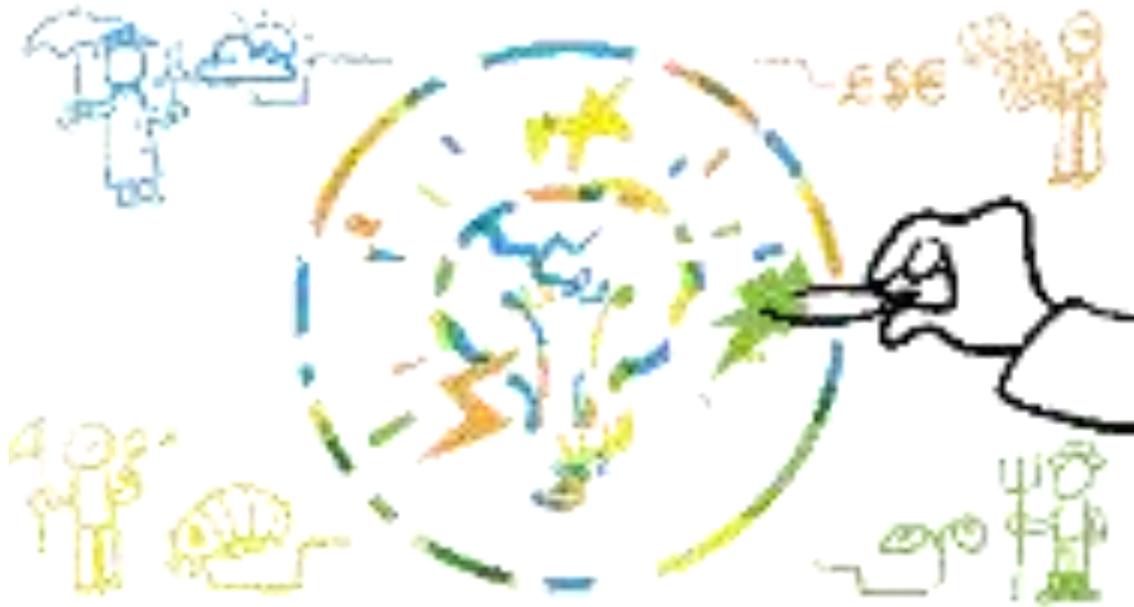


Industry-led application of UK's World Class science across the Agri-food system, measured through:

- Efficiency
- Sustainability
- Food Security
- Quality

To deliver an enhanced contribution to UK wealth creation

Centres tackling identified UK weaknesses



- ❑ Excellent basic science, but
 - Too fragmented to address strategic challenges
 - Mostly not addressing real industry needs
 - Lacking investment in translation
- ❑ Best practice not being shared or driven

Centres tackling identified UK weaknesses



Three Centres linked to defined industry sub-sectors
Working together
Underpinned by sector-wide metrics