

# agri metrics

creating value from data



Who?  
Why?  
What?  
How?

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Who?

# Centre for Agri-Informatics and Metrics of Sustainability

David Flanders (CEO)

Richard Tiffin (Chief Scientist)

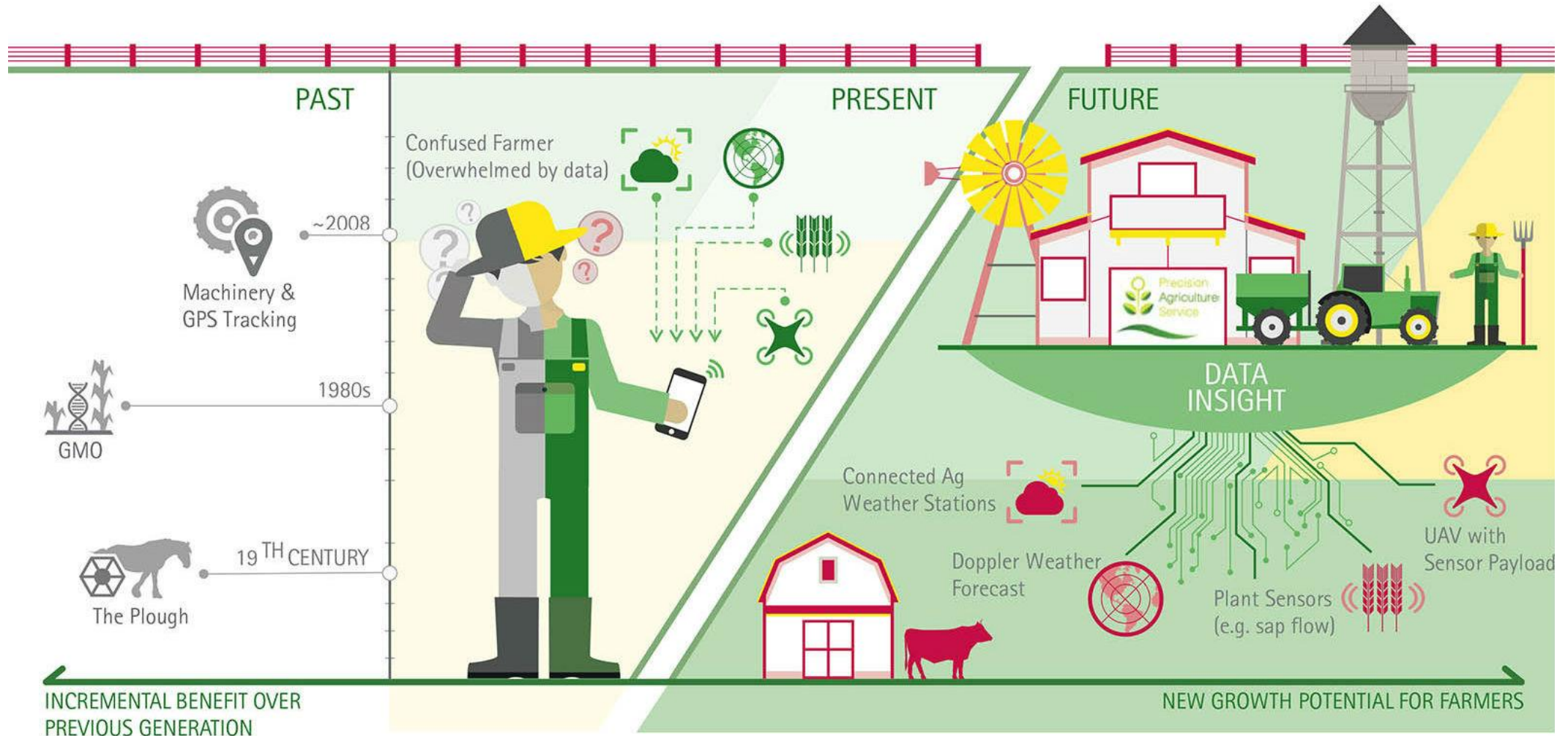
Chris Rawlings (Rothamsted)

Mario Caccamo (NIAB)

Alistair Stott (SRUC)

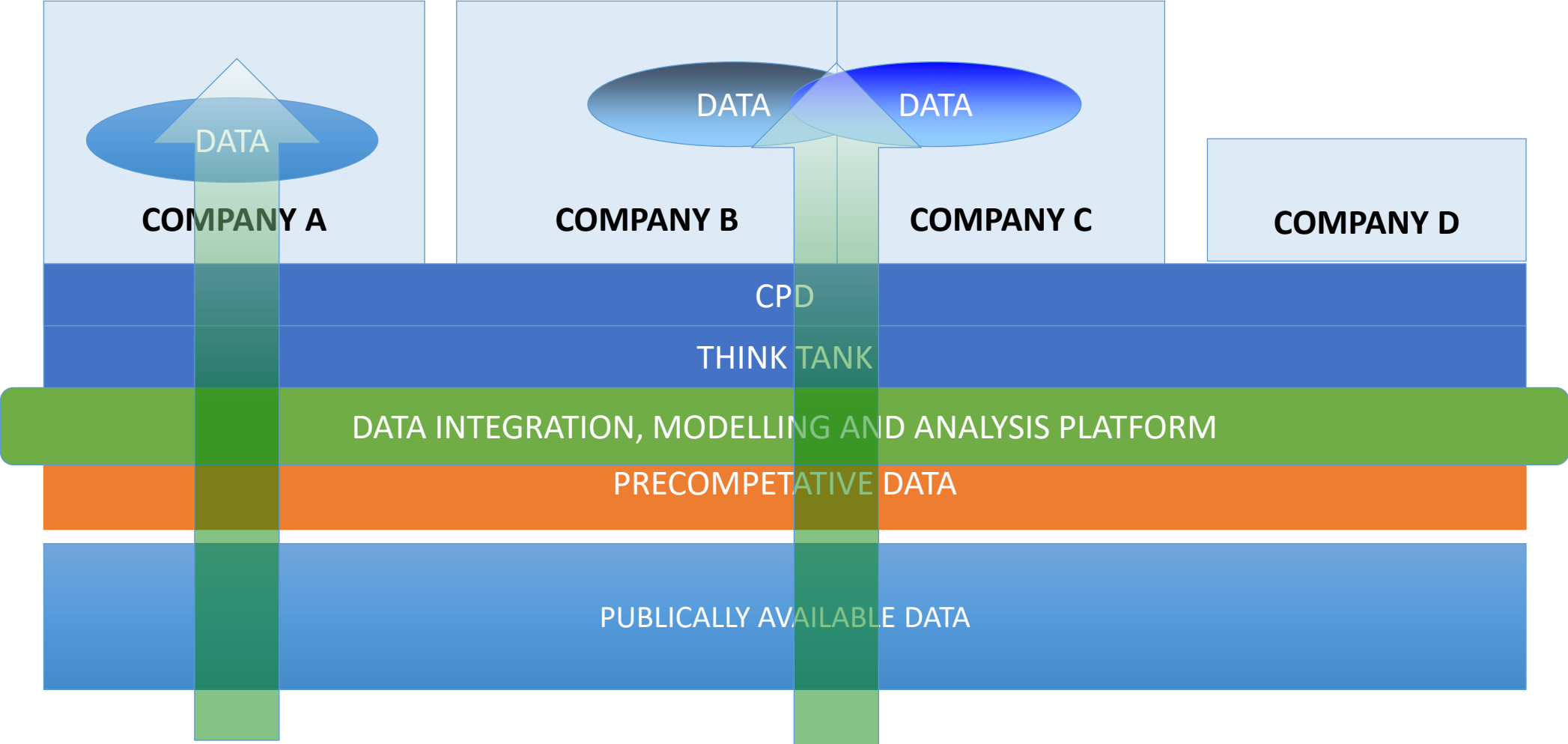
The logo for AgriTech, with "Agri" in green and "Tech" in grey, underlined with a green line. A small green leaf icon is positioned above the "i" in "Agri".

# Why Agrimetrics?



What?

# The Agrimetrics Data Science Ecosystem

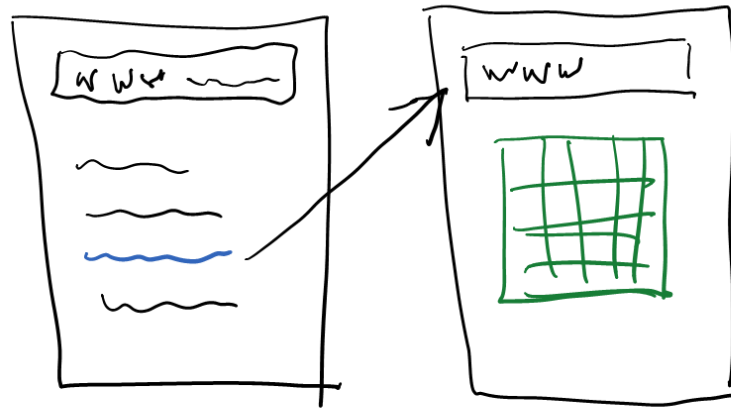


How?

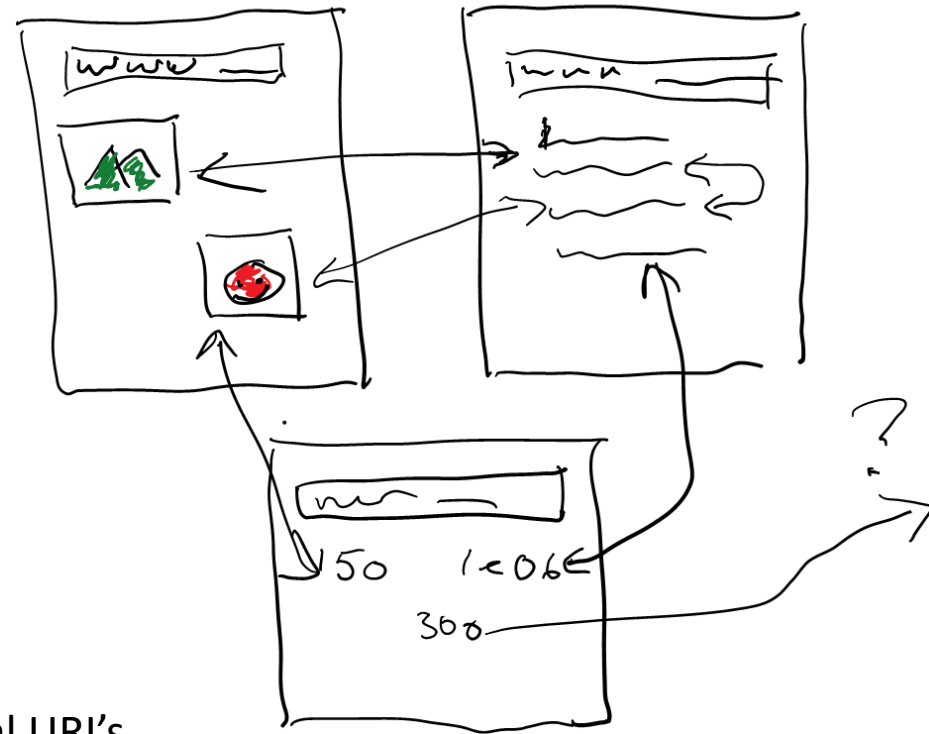
# The Semantic Web



The Web



The Semantic Web



- URI should point to data
- Accessing the URI returns data
- Relationships in the data point to additional URI's

# Data Interfaces

How?



SUC Demo x

https://uat-api.agrimetrics.co.uk/suc-demo/

API Demonstrator API Documentation

API demonstrator

### Soil composition

soil texture

Soil texture Loam ✕

soil classification

Soil classification

Clay %

Sand %

Silt %

### Weather observations

2015 Daily mean air temperature + Add

Annual growing degree days ✕

0 days 60 days 120 days 180 days 240 days 300 days 360 days

10 Search Locations >> Collapse all

**51.6484, -4.1044 - 2 Sea View, Pen-clawdd, Swansea SA4, UK**  
Loam - Cambisol Clay: 20% Sand: 47% Silt: 33%

Monthly Precipitation 2015 (mm)

Month	Precipitation (mm)
Jan	175
Feb	95
Mar	80
Apr	30
May	105
Jun	60
Jul	100
Aug	155
Sep	75
Oct	70
Nov	195
Dec	245

Monthly Sunshine 2015 (hours)

Month	Sunshine (hours)
Jan	55
Feb	85
Mar	135
Apr	230
May	185
Jun	240
Jul	170
Aug	150
Sep	180
Oct	105
Nov	30
Dec	20

Monthly Ground Frost 2015 (days)

Month	Frost (days)
Jan	12
Feb	14
Mar	16
Apr	10
May	4
Jun	2
Jul	0
Aug	0
Sep	1
Oct	6
Nov	5
Dec	3

Monthly Rainfall Above 1mm 2015 (days)

Month	Rainfall > 1mm (days)
Jan	22
Feb	12
Mar	13
Apr	5
May	15
Jun	8
Jul	20
Aug	17
Sep	9
Oct	10
Nov	25
Dec	28

Monthly Rainfall Above 10mm 2015 (days)

Month	Rainfall > 10mm (days)
Jan	7
Feb	0
Mar	0
Apr	0
May	0
Jun	0
Jul	6
Aug	0
Sep	0
Oct	7
Nov	0
Dec	11



# Contacts

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