

FLINT: Farm Level Indicators for New Topics

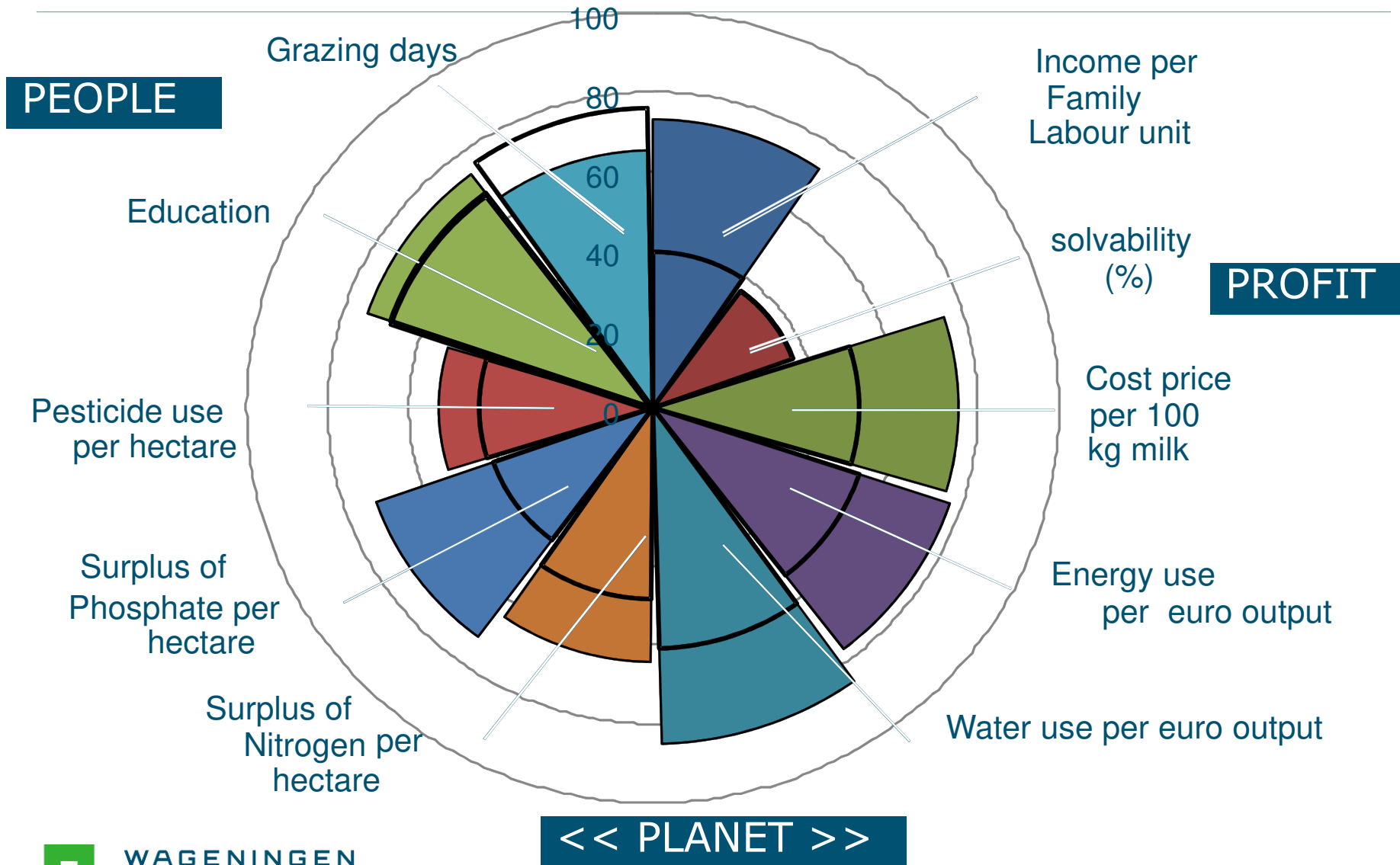
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Context: Sustainable Development Goals



Incentivise farmers on sustainability (PPP)



Context: country initiatives (example)



Context: company initiatives (examples)



The Unilever Sustainable Living Plan

- > Our strategy for sustainable business
- > Our approach to reporting

> Improving Health & Well-being	> Reducing Environmental Impact	> Enhancing Livelihoods
> Health & hygiene	> Greenhouse gases	> Fairness in the workplace
> Improving nutrition	> Water use	> Opportunities for women
	> Waste & packaging	> Inclusive business
	> Sustainable sourcing	



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FRANCHISING

SUSTAINABILITY

NEWSROOM

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Sustainable Beef in Canada

McDonald's has reached a major milestone in our journey to sustainable beef. A broad cross-section of the Canadian beef value chain—including McDonald's—has developed sustainability indicators that apply the Global Roundtable for Sustainable Beef principles to Canadian beef production.

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Context: industry initiatives (example)

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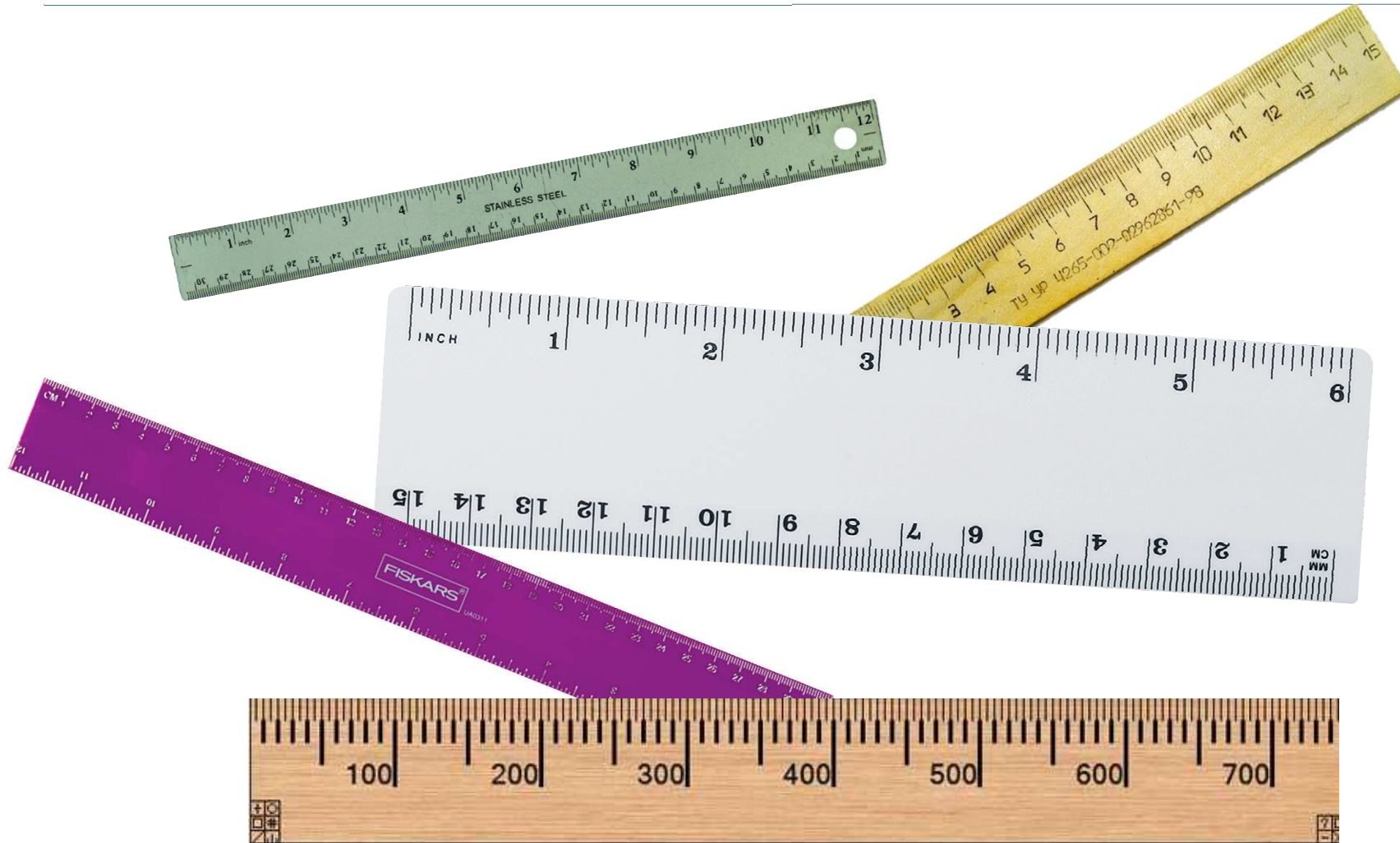
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Challenge: the need for common indicators



Even bigger challenge: data collection

The FLINT project
(Farm Level
Indicators on New
Topics) tested an
infrastructure to
collect data on
farms in a
harmonised way,
linked to the
FADN



Building upon the FADN

Farm

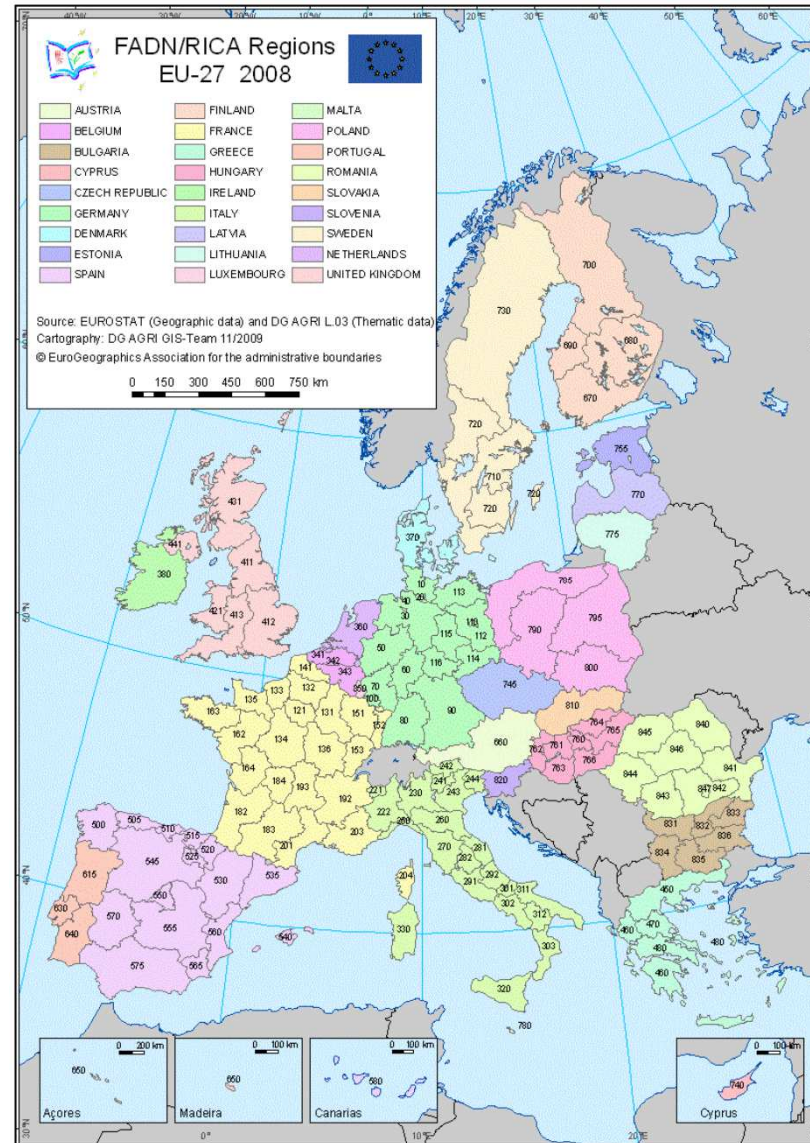
Accountancy

Data

Network

(FADN)

85.000 farms
that are
monitored by EU
on economics and
income

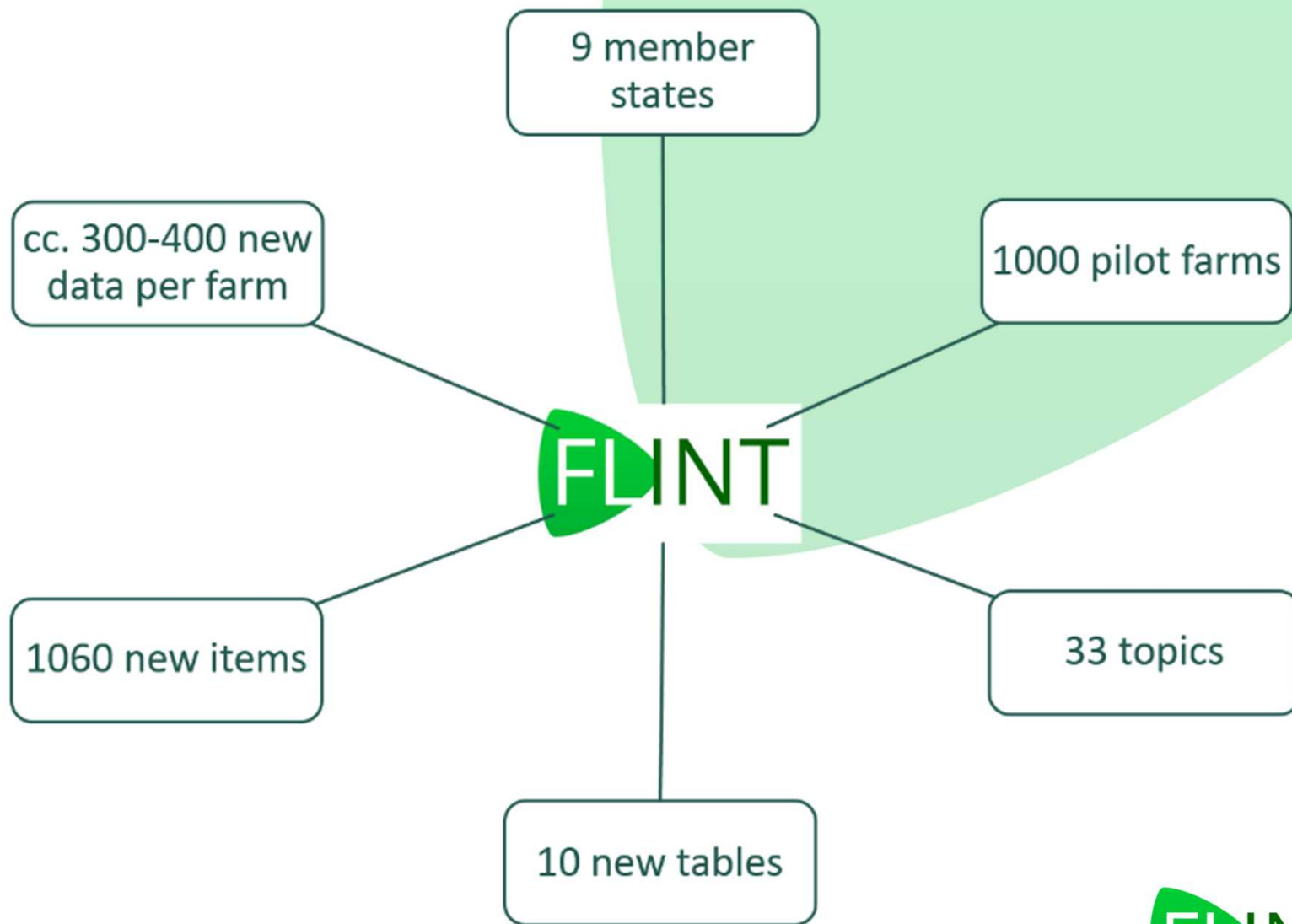


And that is
already in some
member states
used to collect
additional
sustainability
data (e.g. NL,
Ireland, Flanders)

Need for an Integrated data set

- Measurement of different sustainability indicators on the same set of farms is essential
- Allows the analysis of the full chain from: Policy objective -> policy measure -> impact on farm -> farm management decisions -> up to: sustainability performance of farms
- Trade-off and jointness of performance on different sustainability measures as a consequence of policy measures
 - (for example is the economic performance at the expense of environmental performance, sustainability performance of large farms etc.)

FLINT data collection

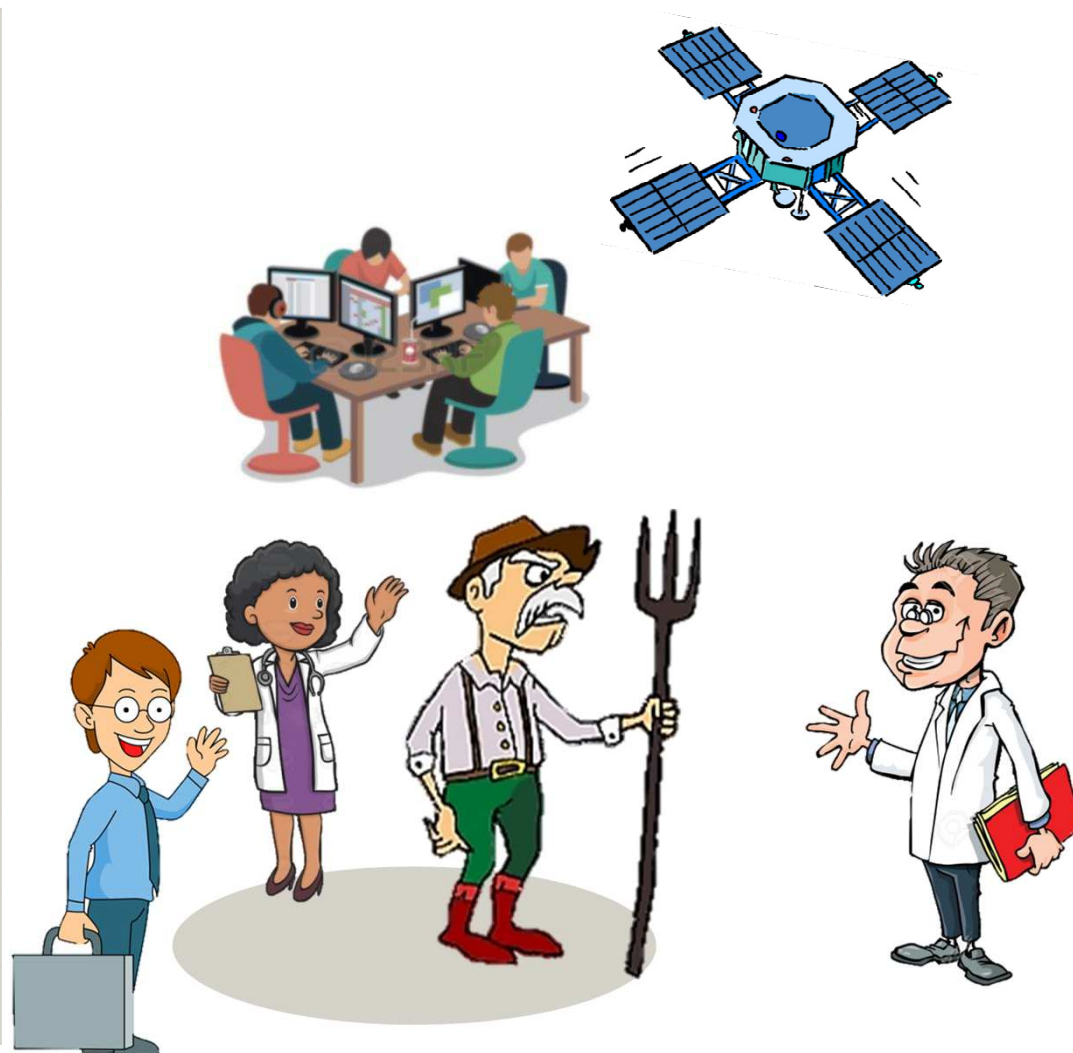


FLINT Indicator list (economic data already in FADN)

Environmental	E1: Greening	E3: Semi-natural areas	E4: Pesticide usage
	E5: Nutrient balance	E7: Indirect energy use	E8: Direct energy usage
	E9: On-farm RE prod.	E6: Soil organic matter	E10: Nitrate leaching
	E11: Soil erosion	E12: Use of legumes	E14: GHG calculation
	E16: Water usage, storage	E17: Irrigation practices	
Economic, innovation	EI1: Innovation	EI2: Producing under label	EI3: Market outlet
	EI4: Farm duration	EI5: Efficiency field parcel	EI7: Insurance
	EI8: Marketing contracts	EI9: Risk exposure	EI6: Modernization
Social sustainability	S1: Advisory service	S2: Education and training	S3: Ownership management
	S4: Social engagement	S5: Working conditions	S6: Quality of life
	S7: Social diversification		

Number of farms in the test of data collection

# of farms FLINT data collected	
Finland	49
Germany	52
Ireland	63
Hungary	102
Greece	124
Poland	146
NL	155
Spain	128
France	280
Total	1099



Example of results: dairy farms in 6 MS.

Variable	Unit	ES	FI	FR	IE	NL	PL
Dairy cows	heads	74.4	42.8	50.0	75.0	99.2	22.4
Gross farm income	Euro	78,630	113,319	58,943	82,901	117,555	22,511
Farm net value added	Euro	38,999	47,680	28,611	70,587	70,044	18,567
Farm net income	Euro	27,205	33,057	12,643	61,299	18,692	16,719
GHG emission	tonnes CO ₂ eq.	585.7	335.1	NA	624.0	597.3	130.8
GHG/cow	tonnes CO ₂ per cow	7.88	7.84	NA	8.32	6.02	5.84
N-balance	kg N per ha	431.1	162.4	NA	323.1	408.5	127.9
NUE	output/input	6.2	6.6	NA	4.7	6.8	7.3
Advisory contacts	number	25.0	13.0	21.0	11.0	24.5	21.0
Job satisfaction	max 10	6.5	8.0	7.0	8.0	8.0	6.0
Quality of life	max 10	5.9	8.0	6.2	7.8	7.2	6.0
Pesticides		2.1	0.4	1.6	NA	0.8	0.7

PS For illustration purposes only. These results (2015, France: 2014) are based on relatively small groups of farms which are not necessarily representative for the whole country.

Experiences in data collection

- Some countries already collecting more data than required by FADN – experienced
- Perceived importance of sustainability varies by country
- Many FLINT variables already indirectly available in FADN information flow (eg. quantities on invoices)
 - reduces information collected from farmers
- Problematic variables tend to be country specific
- Role of trusted data collector (and his know-how) important
 - Data collectors attitude changed from hesitant to more enthusiastic

FLINT proposal to DG Agri: adapt FADN

1. CAP Reform and other policies demand better data for policy evaluation
2. Reduce current FADN from 85.000 farms to 75.000 to cover costs of new data
3. Collect sustainability data on 15.000 farms



Relevance for Food Industry

- Sustainability reporting and sustainability management of sourcing by the Food industry and Retail would benefit from micro-level data
- Should data gathering and indicator standardisation be the sole responsibility of the European Commission in FADN or makes it sense to set up public-private initiatives or could the private sector take the lead in sustainability reporting with micro-data at a European level?
 - creating a monitoring targeted to farm- and industry needs
- Would it make sense to involve research partners like Wageningen Economic Research for know how and a third trusted party between companies (and companies and farmers) ?

Key message

The results of the FLINT project provide an excellent opportunity for food industries like dairy to install a European monitoring of their sustainability, to report to the public and governments, benchmark companies and incentivize farmers

