

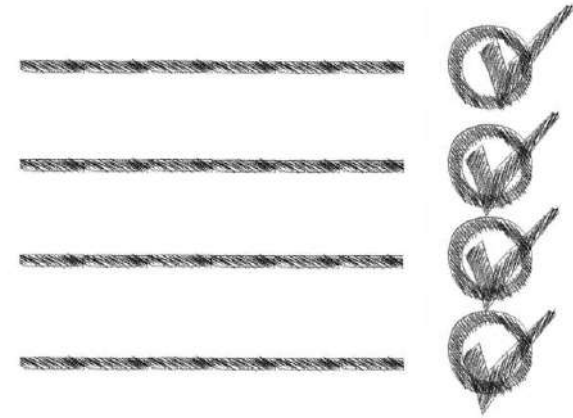
Evolution of farm data collection in Ireland The lessons that have been learned

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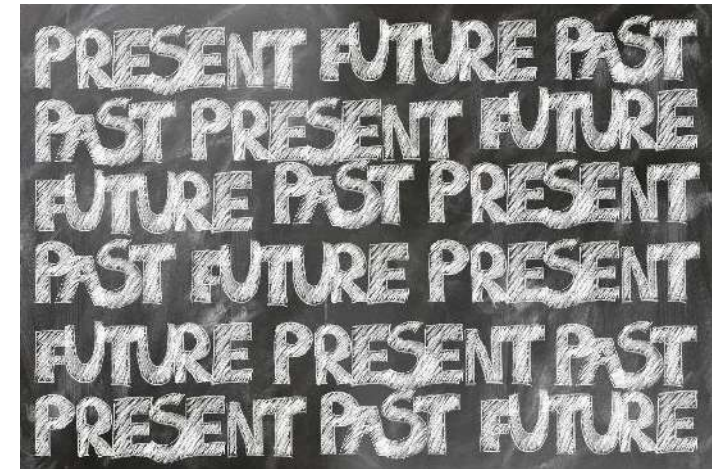
Overview

- Brief background/context
 - the story behind our expansion in data collection
 - motivated by both national demands and FLINT project participation
- The types of additional data collected
 - how to create resource capacity to collect more data
- Evolving data needs
- Benefits for evaluation arising from additional data collection
- Lessons learned



Background

- **Teagasc** – the Agriculture and Food Development Authority
 - research, advisory and training services for agri-food sector and rural communities
- **Data collection responsibility**
 - Irish FADN – Teagasc National Farm Survey (NFS)
- **Data collectors**
 - employees of Teagasc - data collection is their sole occupation
- **Farms**
 - the farmers who participate are chosen at random
- **Farmer participation**
 - is voluntary - farmers are not paid to participate



Evolution of farm data collection in Ireland

1. National Level Exercise: 2011/2012 Review of Research Needs

- emerging **sustainability agenda** - need for **social** and **environmental data**

2. FLINT Project identified VERY similar data needs

- but provided guidance on Methodology and better International Comparison

■ The discussion in later slides reflects learnings on sustainability measurement

- from both FLINT and our own national level efforts

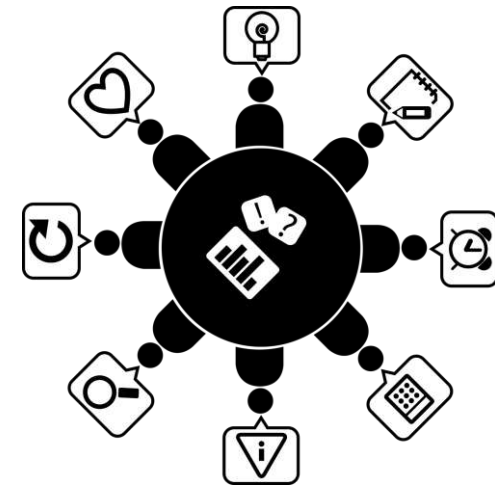
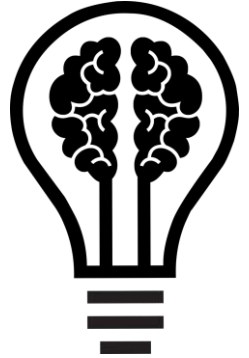
Benefits

■ For policy makers, farmers and the wider rural community

- improved **understanding** of current **farm practices**
- improved **understanding** of **farm household circumstances**

■ **Additional data** can be **interacted** with **existing data** collections

- synergies, antagonisms identified, making the trade offs clearer



Developing social sustainability indicators



Demographics/ Succession
Farm Safety
Workload
Isolation/Connectivity (internet)
Stress / Wellbeing

Farmer

Animal

Health & Welfare*
Antibiotic use*
Farm Facilities*

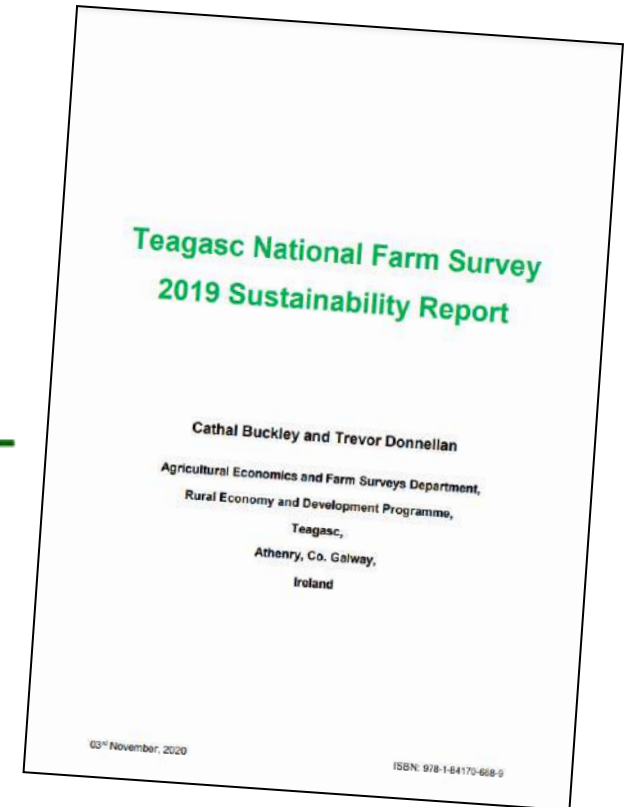


Rural viability
Include Very Small Farms
Biodiversity*

Community

*Work in progress that is yet to be fully achieved

Develop environmental sustainability indicators



Annual Sustainability Report

<https://www.teagasc.ie/rural-economy/rural-economy/national-farm-survey/sustainability-reports>



How can the data be used for evaluation?

Are results being achieved in line with CAP policy objectives?

■ Economic Data

- Income and CAP support distributions, CAP support as a share of farm income, income volatility
- Productivity measures

■ Social Data

- Rate of progress/regression concerning generational renewal
- Non monetary life quality issues (work/life balance, access to services)
- Social inclusion

■ Environmental Data

- GHG indicators (per farm, per ha, per kg product)
- N and P Balances/Surpluses (per farm, per ha)
- Ammonia indicators (per farm, per ha)
- Extent of Use of emission reduction technologies or farm management practices



Lesson 1: Do more with same (or fewer) resources

Problem

- **Everyone wants to use data**
- But **few** are prepared to **pay for its collection**
- **Collection of additional data requires efficiencies** in existing data collection practices



Solution

- **Identify and reduce duplication** in existing data collection activities
 - » duplication is a waste of resources and **a frustration for farmers**
- Where possible **use data already provided** for administrative purposes
 - » **e.g. Agriculture Ministry data**
- **Create spare capacity** to ask farmers **new and different questions**
 - » allows collection of **more social and environmental data**



Lesson 2: Social data can be very sensitive

Problem

- **Social data** is more **personal** than economic or environmental data
- Collection of social data requires understanding of their **sensitive nature**
 - e.g. farm succession plans, non-farm incomes, personal health, social isolation (loneliness)
- Sensitive questions can reveal “**hidden**” **family concerns**
 - family conflict, mental health issues, non-farm financial problems

Solution

- **Strong relationship** between **farmer** and **data recorder** is required
- **Personality** of the data recorder is important
 - may require **skills that are difficult to learn**
- **Assurance of Confidentiality** is even more important with social data



Lesson 3: Substantial environmental data needs

Problem

- **Diverse range** of environmental data could be collected
- Some environmental indicators are **complex**
 - require **several pieces of data** in their construction



Solution

- **Some quite detailed (hard) work** may be required here
- **As a short cut, proxy measures** can sometimes be useful
 - but can they **capture small incremental changes**?
 - a poor proxy is less likely to accurately identify genuine changes

Lesson 4: Combining datasets maximises added value

Problem

- What is the ideal way to collect econ., social, environ. data
- Can be collected in one of two ways
 1. **multiple surveys** involving **different** population **samples**
 - or
 2. **one consolidated survey** with **same** population **sample**

Solution

- Option 2 (above) is the preferred option
 - allows **integration** of economic, social & environmental **data**
 - richer resource for research purposes
 - can **unlock the answers** to more complex questions



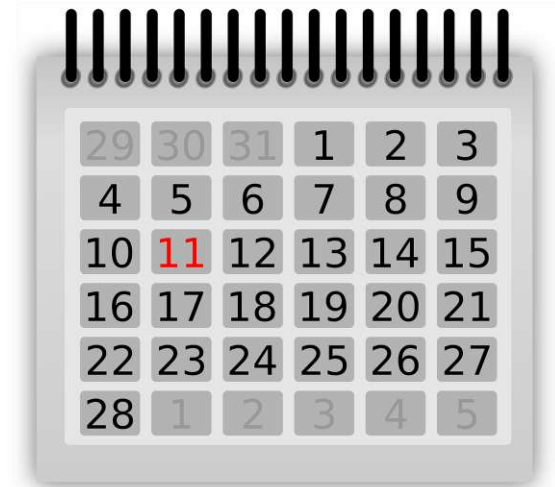
Lesson 5: Some data is required less frequently

Problem

- **Frequency of data collection needs consideration**
- **How often should data be collected?**

Solution

- **If data is unlikely to change frequently**
 - **Reduced frequency of collection** may be acceptable
- Some data required **monthly**
 - as the data may change frequently
- Some data **annually**
- Some data may **only** need to be **recorded at longer intervals**
 - once every few years
 - as the data are likely to change slowly



Lesson 6: GDPR must be used to help rather than hinder the process

Problem

- Data sharing can **generate efficiencies** in data collection costs
 - or **increase** the total amount of **data available**
- **EU GDPR** establishes rules for data sharing
 - but these rules can be interpreted as a reason to **NOT** share data



Solution

- GDPR compliance should ensure that **data can be shared**
 - while **protecting** the **interests** of **data provider** (farmer)
 - confidentiality etc.
- Commission can **promote/facilitate data sharing** at MS level
 - as long as purposes are legitimate



Lesson 7: Data collection for monitoring and evaluation can't become an enforcement exercise

Problem

- We require accurate data
- We need co-operation of the farmer in ensuring accuracy
 - much of the data we have discussed is provided voluntarily by farmers
- Farmers must have confidence in the data collection process
 - to ensure that they provide honest and accurate data



Solution

- Ensure that data is used to develop/modify policy
- **NOT** to assess whether an individual farmer has breached a regulation

Lesson 8: Collect data sooner rather than later

Problem

- Important to **get the full picture of current circumstances**
 - **change is already happening** - need data to measure these changes
- Policy (Farm to Fork) will motivate **quite a lot of change**
- It would be unforgivable to **demand progress** from farmers
 - if we fail to collect data to measure and **acknowledge this progress**
- **Generally can't backcast historical data** - Can't turn clock back

Solution

- The sooner you start collecting new data series the better
 - the sooner you will have a **useful time series to assess trends**
 - be capable of appreciating the changes that farmers are making



Concluding comments

- International & National **Policy** now much **more focussed on Sustainability**
 - Economic, Social and Environmental Data required
 - absolute requirement for **accurate data** for monitoring and evaluation purposes
- **Linkage to national administrative data sources** is imperative
 - data sharing frees up resources for **collection of data not available from any other source**
 - GDPR must facilitate rather than stymie the process
- Experience of expanded data collection has been positive
 - **appreciation from both Agri-Food Lobby and Policy Makers**
 - **better capable of answering research questions**
 - **funding opportunities and publications**
 - **profile** in our own organisation and among our peers



- Go raibh maith agaibh
- Thank you