3rd Learning Pillar: Monitoring and evaluation

Welsh Government/Nesta/ Innovation Advisory Council for Wales

3rd Learning Journey in Vilnius
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(Apologies – Greg Green)
Monitoring and indicators

Visualisation and reporting

Introduction to the topic:

• Data visualization is a process that (a) is based on qualitative or quantitative data and (b) results in an image that is representative of the raw data, which is (c) readable by viewers and supports exploration, examination, and communication of the data (Azzam et al., 2013, p. 9).

• Different mechanisms could be used for visualising and reporting qualitative or quantitative data but the main focus should be on communicating results to stakeholders

Proposed partners to introduce the topic: Wales Government

Orientation for the presentation:

• Presentation focus on new methods for visualising results of evaluation and how to communicate this results to stakeholders.

• A reflection about how to visualise the results of innovation policy-mixes will be very welcome
Data Visualisation - WG

The aim of information visualisation is to take a dataset, and from this generate an accurate visual representation of the data.

The purpose of this is to communicate the information in an easy to understand way, to allow the user a full overview of the data at one time, and to afford the viewer the opportunity to explore the data in a way that highlights patterns and relationships without obscuring the original underlying data itself.

(Azzam et al.)
EU Funds: Investing in Wales

EU funds are supporting growth and jobs, creating sustainable economic, social and environmental benefits for people, businesses and communities in Wales.

18,645 Enterprises Assisted
11,925 Enterprises Created
36,970 Jobs Created

72,700 Helped into work
56,055 Into further learning
234,335 Qualifications gained

www.gov.wales/eu-funding
@wefocymru @wefowales

*Data as of 31/07/16 refers to EU projects supported through the European Structural Fund programmes 2007-2013 © Crown Copyright 2016
Regional Data presentation

EU Funds: Investing in Swansea

EU funds are supporting growth and jobs, creating sustainable economic, social and environmental benefits for people, businesses and communities in Swansea.

2,170 Enterprises Assisted
1,160 Enterprises Created

3,790 Jobs Created

7,120 Helped into work
6,300 Into further learning
19,000 Qualifications gained

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International Data presentation (FP/ H2020)
Wales international collaborative projects
Priority sector/programme Data presentation

Figure 9 – ERDF research and innovation portfolio

21. £5m EU funding boost for Bangor University http://gov.wales/newsroom/environmentandcountryside/2018/180118-5m-eu-funding-boost-
Messaging of innovation impacts at EU H2020 to Wales level
Data visualisation to stakeholders (IUK): Value and impact of innovation messaging of innovation impacts at UK level

Investment of £2.2bn since 2007

Industry match funding taking the total value of projects above £3.75bn

Up to £16bn in added value to the economy

We’ve funded around 11,000 projects

Up to £7.30 for every £1 we’ve invested.

8 jobs for each organisation involved

8,000 unique organisations involved

70,000 jobs created in total
National Innovation funding - Cluster map.
Wales project data
Regional and geographic data

Project partners in all sectors over the last 10 years

864 projects
>900 project partners
£108m allocated
Where Wales contributes in National innovation networks: Compound semiconductor Catapult – putting Wales on the map.
Types of innovation support instruments from Innovate UK (some co-funded by Wales)
Arloesiadur (‘Innovation Dashboard’ in Welsh)

An innovation analytics project

Arloesiadur is a new Nesta project supported by Welsh Government, where we will create a data engine to automatically access, combine and analyse data to inform innovation policy in Wales.

This engine will power an online platform where users can access and interact with the data.

Innovation analysts and policymakers have for long struggled with existing data sources about economic activity, such as business and labour surveys. This is in great part because of their interest in novelty (new ideas, businesses, industries, communities, places etc.) created by complex networks of people, organisations and knowledge.
An opportunity: New data for innovation policy

Official data

Open data

Web data

Where is innovation happening? (Places and sectors)

What are the gaps in existing ecosystems?

Who are the innovative companies?

Big, fast messy data

Analysis

Innovation knowledge for everyone
By collecting data from multiple sources information, data becomes more valuable for policy makers.

**Some questions we can address**

- How have different industries evolved in Wales and its local economies?
- In what industries do we detect a comparative advantage?
- What industries cluster together?
- Are local economies diversified (resilient) or fragile? What comes next?
GIS presentation of data – innovation dashboard

National performance

Details for Local Authority/Council

Comparative data and trends against your neighbours/other regions