



Workshop 7: Exploiting the European Structural and Investment Funds open data

REGIO and EMPL

Tutorial outline

- A. What questions do you have ?**
- B. Background + a quick tour**
- C. Down the open data rabbit hole**
 - C.1 The Catalogue**
 - C.2 Metadata pages**
 - C.3 Downloading**
 - C.4 Data structure**
 - C.5 Visualisation**
- D. Feedback**

B. Background to #ESIFOpenData

- **ESIF CPR 2014-20 - 5 Funds – 4 DGS**
- **Cross DG co-operation with a multi-skill team:** Communication, monitoring and evaluation, financial, IT reporting units + other data owners
- **Launched** 12/2015 and progressively expanded

Which objectives?

- **Citizen focused with clear and simple language**
- **Priority to common elements across funds**
- **Financial Transparency**
- **Performance focussed**

TOUR: <https://cohesiondata.ec.europa.eu/>

Which benefits?

- **Reference site for all key numbers by EC DGs and Programmes**
- **SPP uses data, promotes it and has asked for new elements**
- **Communication uses : project videos, data stories**
- **100k hits per month; data downloads + reuse**
- **2017 User survey - very positive (new survey before during June - July 2019)**

How was it done?

- Exploiting extensive and unique monitoring data held by 4 DGs (based on legislation, templates, SFC2014)
= with common structures
- Focus on communication of finances and achievements with structured presentation: Overview / Themes / MS / Programmes / Funds + Projects
=> not only a data library
- Use new technology to host and make it accesible – visualisations, API data sets, reusable charts, Data stories

ESI FUNDS - OPEN DATA PLATFORM - HOMEPAGE

EU LEVEL

By THEME

By COUNTRY

By FUND

...filter THEME

...filter COUNTRY

...filter FUND

Financing x 3
*... by fund,
theme, country*

Finances x 2
*... by fund and
country*

Finances x 3
*... by fund and
theme*

Finances x 3
*... by theme
and country*

Common
Indicators
*... targets +
progress*

Common
Indicators
*... targets +
progress*

Common
Indicators
*... targets +
progress*

Common
Indicators
*... targets +
progress*

*Project Videos
2018*

*Programmes
2016+19*

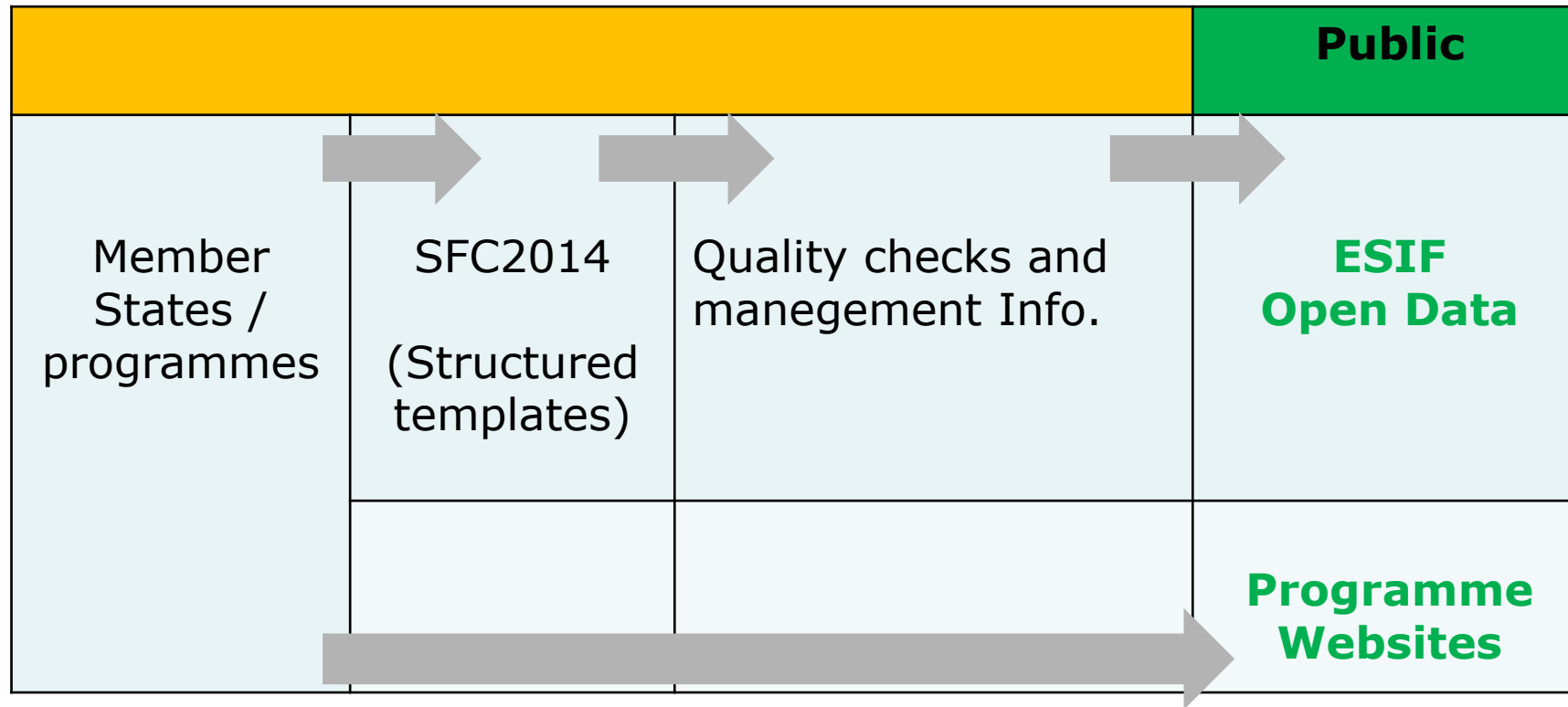
Main development chronology

- **February 2019:** Cohesion policy Financial Data from December 2018; Thematic finances charts;
- **December 2018:** Financial Data from Autumn 2018; Indicator progress data 31/12/2017; Animated finances graphs in time-series; Climate and Biodiversity tracking;
- **March 2018:** Historic payments dataset 1988-2015
- **February 2018:** Financial data from end Dec. 2017; First Dataset on Financial Instruments;
- **December 2017:** Financial Data from Autumn 2017; Indicator progress data 31/12/2016; Graphs in time-series;
- **July-September 2017:** EU payments data and graphs; refresh / reference dates on graphs; Financial Data from 30/06/2017; Major Project dataset;
- **March 2017:** Financial data 31/12/2016 + new visualisations by Fund and MS; new visualisations of implementation for ESF indicators;
- **December 2016:** Finances Implemented (project selection decided) + Indicator progress 31/12/2015;
- **July 2016:** Updating Finances, OP pages, new visualisations;
- **December 2015:** First launch - Finances planned (current prices); Common indicator targets; Q&A, Video; on web and mobile devices;

Main Datasets – 2014-2020

Dataset	Reporting freq.	Current reference date	Refresh frequency	Next major update
1. Finances Planned	With OP modification e.g. such as Technical Adj.	N/A	Daily	On-going
2. Finances Implemented	3 times per year (31/1, 31/7, 1/10)	31/12/2018 (Cohesion Policy)	Daily	09/2019)
3. EU payments	Daily (since 30 March 2017)	N/A	Daily	On-going
4a. Achievement details – Targets	With OP modif. (not fixed)	31/12/2017	At least annual	12/2019
4b. Achievement details - implemented	Annual	31/12/2017	At least annual	12/2019

How do we prep and process data?



Introductory Video

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EUROPEAN STRUCTURAL AND INVESTMENT FUNDS

DATA

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European Structural and Investment Funds (ESI Funds) - explore our data

EU LEVEL

THEME

COUNTRY

FUND

ABOUT THIS TOOL

Giving access to data on financing and expected achievements under the ESI Funds 2014-2020.

Financing data relates to 533 programmes at July 2016. The achievement data relates to November 2015, to be updated with implementation details late 2016.

USE THIS TOOL ...

... to explore the data by choosing one of the 4 options above. They give insights into planned investment aggregated at EU level, at Member State level, by theme or by fund. Data sets can be visualised, embedded in other sites or downloaded to analyse yourself.

HELPFUL LINKS

More information about the ESI Funds:

- [Cohesion Fund](#)
- [European Agricultural Fund for Rural Development](#)
- [European Maritime & Fisheries Fund](#)
- [European Regional Development Fund](#)
- [European Social Fund](#)

C. Down the open data rabbit hole

- **FAQ** : [LINK](#)
- **User Guide** : [LINK](#)

- **Free Login** ... <https://cohesiondata.ec.europa.eu/login>
- **Catalogue – file types, filters**
- **Metadata pages**
- **Downloading, visualising, filtering**
- **Data structure tips**

C.1 Catalogue

- **Free search ...**
- **Categories = programme periods**
- **View Types => datasets, charts, stories, filtered views**
- **Tags = key words**
- **Sort by**

Catalogue /2

File types	Public	Users can create
Datasets	✓	No
Data stories	✓	No
Charts	✓	✓
Filtered views	✓	✓

C.2 Dataset Metadata page

Description ... it expands !!!

**Featured contents linked to data
(3 items: Charts, stories, filtered views)**

About the dataset (stats, tags, ..)

Data structure / table preview

All linked contents

C.3 Downloading, linking ODATA, API

- For excel tips see [User guide Annex 1 & 2](#)
- ODATA: Linking an excel file on your PC to the Open data set ... allows refresh of your analysis
- ODATA => Socrata resource: [LINK](#)

C.4 Understand and exploit the data structure: ERDF/CF 2014-2020

	Inputs - categorisation	Outputs (common & specific)	Results
Programme	✓ (<i>aggregate</i>)	✓ (<i>aggregate</i>)	
-> Priority	✓ reporting level	✓ (<i>aggregate</i>)	
-> Thematic Objective	✓ (<i>partial</i>)	✓ (<i>aggregate</i>)	
-> Investment priority		✓ reporting level	
-> Specific Objective			✓ reporting level

Categorisation data: A treasure trove

1. Cohesion policy only : ERDF, ESF/YEI , CF
2. Multi Dimensional – Intervention fields, form of finance, etc - Background
3. Financial elements: Planned – Decided (selected) – Spending
4. Climate tracking + Biodiversity tracking
5. Annualised
 - a. Compare reprogramming and investment progress annually
 - b. Filter / separate years to avoid doublecounting
6. Datasets: Planned – Implemented

Understand and exploit the data structure: ESF 2014-2020

	Inputs - categorisation	Outputs (common & specific)	Results
Programme	✓ (aggregate)	✓ (aggregate)	✓ (aggregate)
-> Priority	✓ reporting level	✓ (aggregate)	✓ (aggregate)
-> Thematic Objective	✓	✓ (aggregate)	✓ (aggregate)
-> Investment priority	✓ (Intervention field)	✓ reporting level	✓ reporting level

ESF Example: Attempted cross analysis

Comparison between achievements and finances (average € per participant)

Investment priority	Category of region	
	More developed	Transition
8i ALMP	403	2 407
8ii Youth Employment	1 442	647
9i Active Inclusion	5 000	2 137
10iii Lifelong learning	1 726	1 817

C.5 Creating charts

- Start from a metadata page
- Click “Visualise” to go to the chart design page
- 5 steps: Filtering, Data selection, Chart format, Colouring, labelling

PRO TIPS:

- Check your chart result with a reference on the ESIF ODP: i.e. ERDF EUR 199 bn
- ***BE CAREFUL*** with data presented in multiple years!!
Filter do not add.
- Give your chart a meaningful name
- Copy link, share, embed on your website ...

D. Questions?

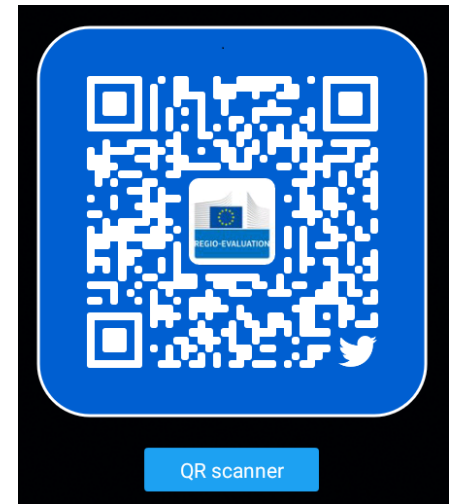
- **Questions on what you have seen?**
- **More standard, comparable metrics? Progress to targets? Success rates? Comparison between achievements and finances?**
- **Have you used ESIF datasets? Ideas for other dataset?**
- **Have you other experiences with open data?**
- **How to make ESIF ODP more accessible? How to develop it further?**

INVITATION

- **Kindly offered by the Romanian Ministry of European Funds**
- **All participants are invited to the social event, a concert of classical music at the Ateneul Român (Romanian Athenaeum - 400 m away)**
- **Officials from the Ministry of European Funds will show us the way to Athenaeum before by 18:30 (NB security checks)**
- **After the concert you are invited to stay for the cocktail dinner in the foyer of the Athenaeum.**

Quick links

- ESIF ODP: <https://cohesiondata.ec.europa.eu/>
- VIDEO: <https://youtu.be/Q6ohALHldtg>
- Q+A:
http://ec.europa.eu/regional_policy/en/faq/about_open_data/
- Twitter: [@RegioEvaluation](https://twitter.com/RegioEvaluation) =>
[#ESIFOpenData](https://twitter.com/RegioEvaluation)
- Subscribe to e-mail newsletter here:
http://ec.europa.eu/newsroom/index.cfm?service_id=788
- E-mail: regio-webmaster@ec.europa.eu



Other datasets

- Historic payments by NUTS 2:
<https://cohesiondata.ec.europa.eu/stories/s/47md-x4nq>
- Climate tracking of Cohesion policy:
<https://cohesiondata.ec.europa.eu/stories/s/a8jn-38y8>
- Data on the implementation of financial instruments:
<https://cohesiondata.ec.europa.eu/stories/s/dtw6-5akv>