OPEN DATA and MATRIX

Stakeholder Forum
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EFSA STRATEGY 2020

EFSA management board DEC 2015 http://www.efsa.europa.eu/sites/default/files/mb151001-d2.pdf

The five strategic objectives up to 2020:

- 1. Prioritise public engagement in the process of scientific assessment
  - Ensure that mandates capture societal needs
  - **Make documentation on information gathering and the evaluation process available**
  - Foster an engaged scientific debate
  - Ensure **clarity in the communication** of findings
- 2. Widen EFSA's evidence base and maximise access to its data
  - Adopt an **Open Data approach**
  - Migrate towards **structured scientific data**
- 3. Build the EU's scientific assessment capacity and knowledge community
- 4. Prepare for future risk assessment challenges
- 5. Create an environment and culture that reflects EFSA's values

DATA USED BY EFSA

Member States

Industry

Academia

EFSA self mandate

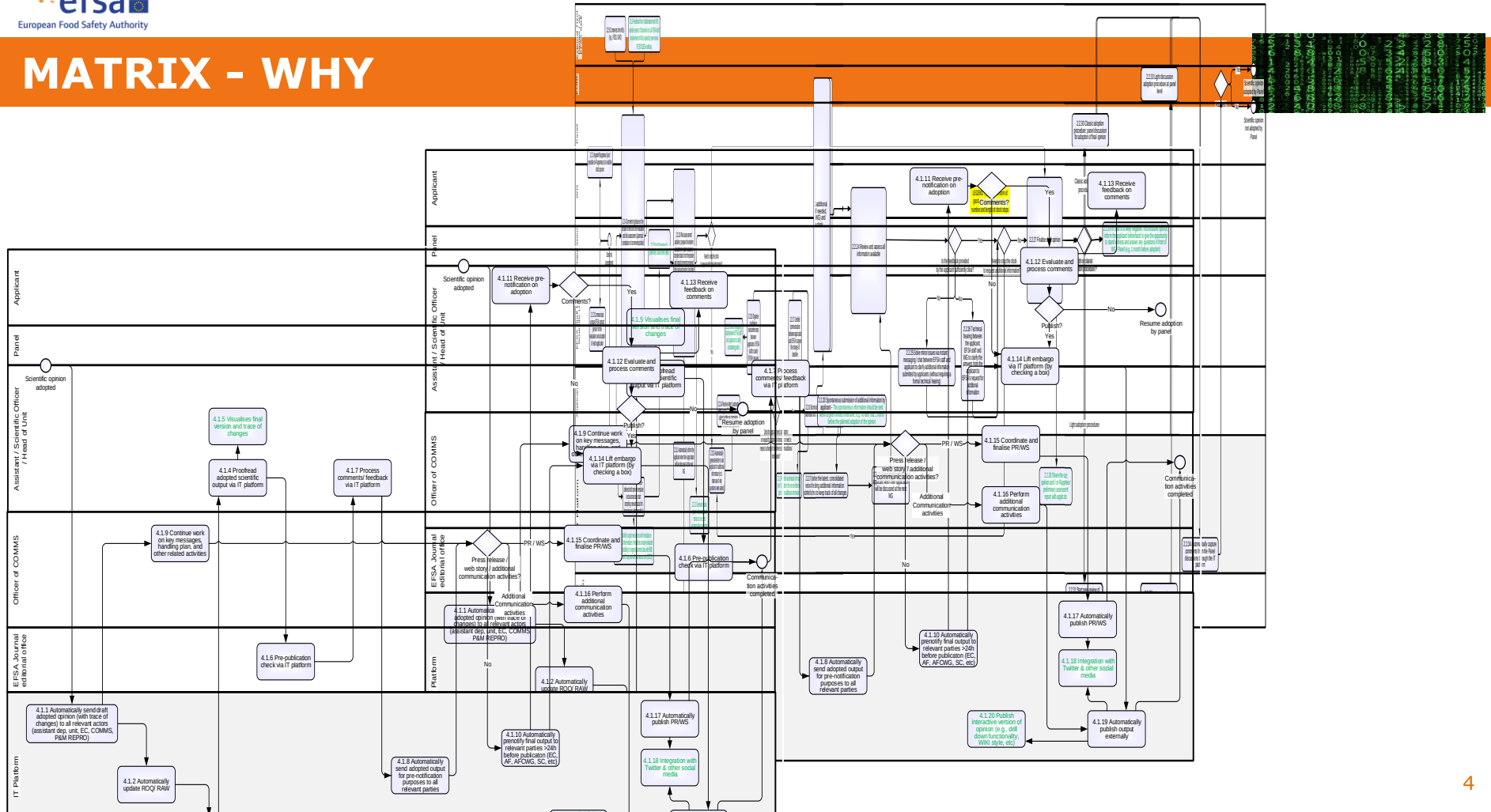
EFSA

WHO/JECFA

EFSA scientific outputs

Public access to documents

MATRIX - WHY


Applicant
Panel
Assistant / Scientific Officer / Head of Unit
Officer of COMMS
EFSA Journal editorial office
Platform
IT Platform
Scientific opinion adopted
4.1.11 Receive pre-notification on adoption
Comments?
4.1.5 Visualises final version and trace of changes
4.1.12 Evaluate and process comments
4.1.13 Receive feedback on comments
Publish?
Resume adoption by panel
4.1.4 Proofread adopted scientific output via IT platform
4.1.7 Process comments/ feedback via IT platform
4.1.9 Continue work on key messages, handling plan, and other related activities
4.1.14 Lift embargo via IT platform (By checking a box)
Press release / web story / additional communication activities?
PR / WS
4.1.15 Coordinate and finalise PR/WS
4.1.16 Perform additional communication activities
Additional Communication activities
4.1.6 Pre-publication check via IT platform
Communication activities completed
4.1.1 Automatically send draft adopted opinion (with trace of changes) to all relevant actors (assistant dep, unit, EC, COMMS, P&M REPRO)
4.1.2 Automatically update ROQ/ RAW
4.1.8 Automatically send adopted output for pre-notification purposes to all relevant parties
4.1.10 Automatically prenotify final output to relevant parties >24h before publication (EC, AF, AFCWG, SC, etc)
4.1.12 Automatically update ROQ/ RAW
4.1.17 Automatically publish PR/WS
4.1.18 Integration with Twitter & other social media
4.1.19 Automatically publish output externally
4.1.20 Publish interactive version of opinion (e.g., drill down functionality, WIKI style, etc)

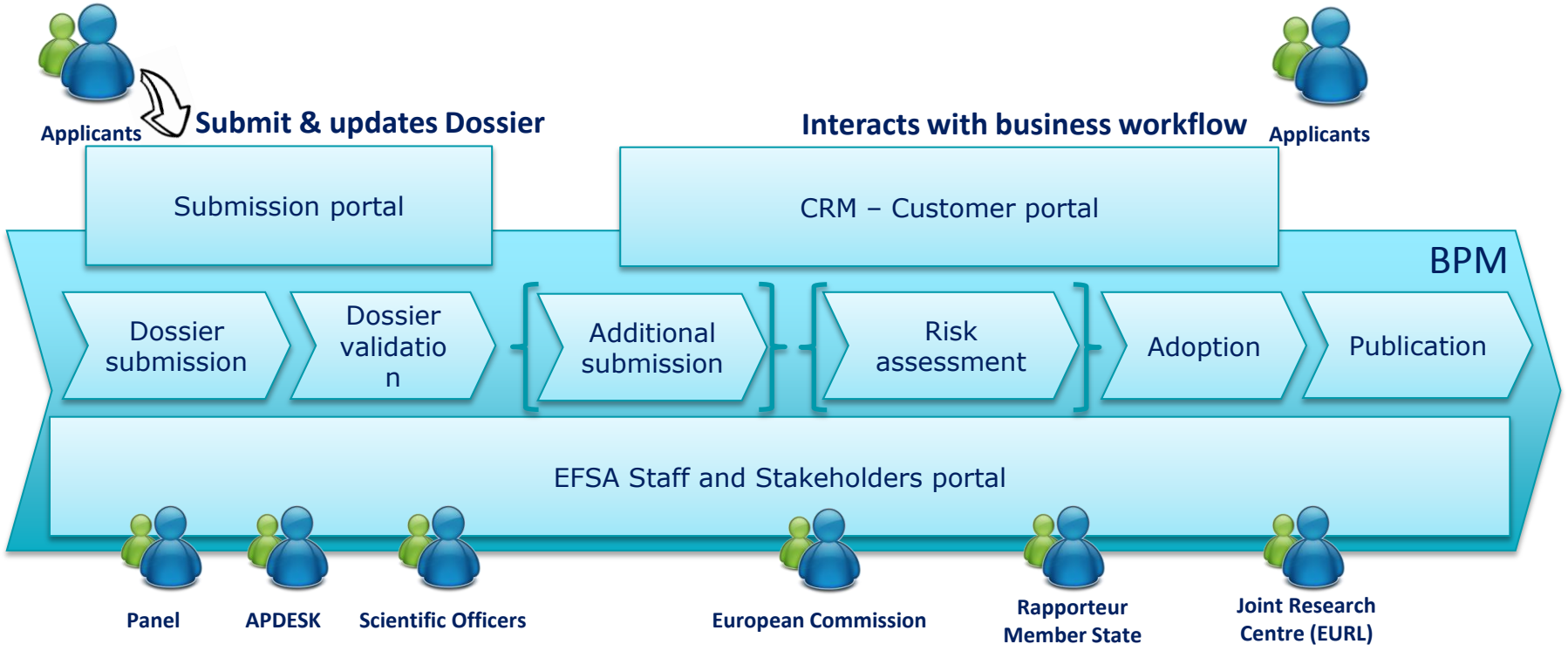
MATRIX - OBJECTIVES

The MATRIX project is a transformational project, which will allow EFSA to transit from a predominantly CD ROM-based to an electronic-based submission

The project aims to provide

- Full electronic submission of dossiers
  - Structured dossiers
  - Easy file transfer
  - Easier access to data
  - Support databases (e.g. EFSA Datawarehouse)
  - Identify non-confidential parts of the dossier
- Automated administrative workflows
  - Communication tools

MATRIX - VISION



MATRIX - ORGANISATION

- WP 1 on the dossier structure
- WP 2 on workflows
- WP 3 on file transfer
- WP 4 on communication
- ➢ DiG1 on technical aspects

- WP 8 on confidentiality
- ➢ DiG2 on confidentiality

MATRIX - WP1 SCHEMATIC OF A DOSSIER

General principles

- Migrate towards structured scientific data
- To make use where possible of existing standards
- To ensure the granularity and level of detail of the data collected supports the scientific risk assessment process
- To use data structures which can support automation
- Identification of Confidential information

MATRIX - WP1 SCHEMATIC OF A DOSSIER

Structured Dossier

Administrative data	Company		
	Product		
Table of contents	Identity, Characterisation and Conditions of Use	Identity of the substance	Analysis of impurities  Study report · OECD 23-1 · SSD2 Modified
	Safety	Safety for the consumer	Acute toxicity  Study report · OECD 60 · SSD2 Modified

GHSTS XML

OHT + SSD2 XML

MATRIX – WP4 COMMUNICATION AND PORTAL

General principles

- Automated as far as possible
- Reduce e-mails
- ALL communications (applicants, EFSA, MS, EC, JRC) in MATRIX platform
- All steps in the workflows requiring communication are identified and described
- Notification + link to official letters
- Portal design – minimum for the pilot phase

DISCUSSION GROUP 1 – OBJECTIVES

The Discussion Group 1 (DIG1) is a **consultative body**

The objectives

- Foster engagement
- Share experience/best practices
- Enhance clarity and usability of the electronic platform to be developed
- Discuss and consult on WP1 , WP2, WP3, WP4
- Collect feedback
- Draw lessons for future engagement with stakeholders

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TOWARDS RISK ASSESSMENT HUB

- Contaminants
- Pesticide residues
- Food additives
- Zoonotic diseases
- Food consumption
- Chemical hazards
- **Dossier data**

TOWARDS OPEN DATA

- Data that can be freely used and re-used
- Mechanisms to improve transparency
- Added value of re-use of public sector data to boost European research and innovation

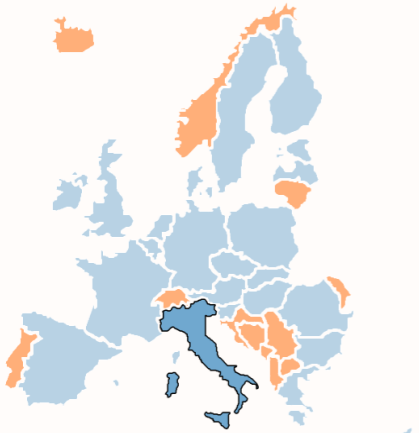
Achievements

- Scientific data Warehouse
- Circle of Trust
- Collaboration with open data platforms

DATA WAREHOUSE – FOOD CONSUMPTION DATABA

Survey Details

Number of survey per country



Number of subjects per survey Italy

Year	Pop Class	Total	Infants	Toddlers	Other	Adolescents	Adults	Elderly	Very elderly
	Survey	Nr Subjects	Nr Subjects	Nr Subjects	Nr Subjects	Nr Subjects	Nr Subjects	Nr Subjects	Nr Subjects
2005	INRAN SCAI	3,323	16	36	193	247	2,313	290	228

Survey details (1/2) | **Survey details (2/2)** | **Survey age class**

Country	Italy
Survey	Italian National Food Consumption Survey INRAN-SCAI 2005-06
Institution providing the data	National Institute for Research on Food and Nutrition (INRAN)
FFQ or FPQ	Not Available
Interview administration	Not Available

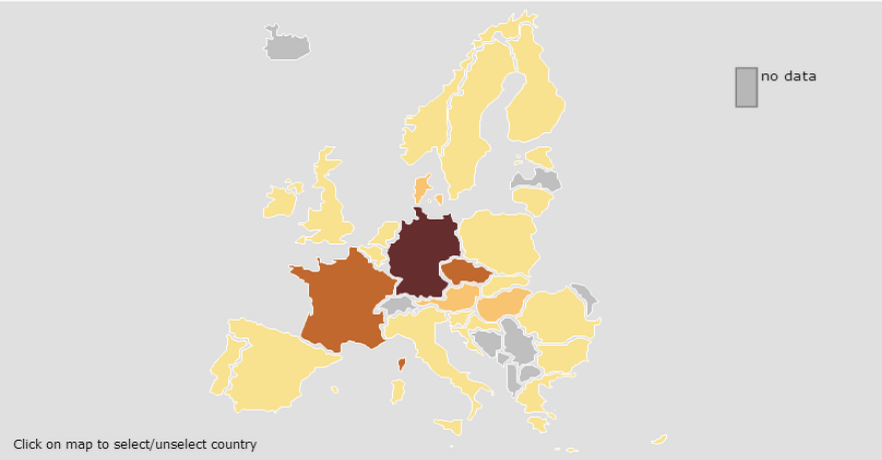
DATA WAREHOUSE – CHEMICAL CONTAMINANTS

Chemical Occurrence - Data Collection Summary

Sampling Year 2013

M · Population

Number of results reported by Country



Number of results reported by Country

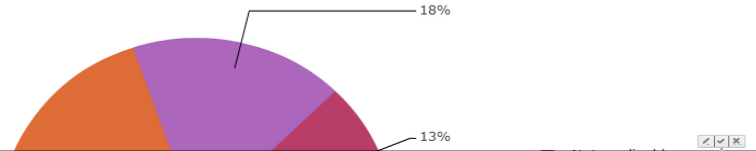
Country	N Results	N Results by Population	N Samples
Total	**528,881**	**10,162**	**112,797**
Germany	165,921	3,188	36,843
Czech Republic	86,478	1,662	14,928
France	80,755	1,552	9,704
Denmark	22,631	435	2,158
Hungary	19,005	365	5,498
Austria	18,723	360	3,948
Slovakia	15,164	291	5,062
Norway	13,685	263	910
Spain	12,258	236	4,252
Croatia	10,125	195	5,850
Ireland	9,590	184	2,092
Slovenia	8,345	160	2,527
Romania	8,240	158	5,109
Poland	8,185	157	320
Netherlands	8,145	156	3,410
Bulgaria	7,821	150	941
United Kingdom	7,588	146	1,527
Portugal	5,116	98	1,136
Finland	4,191	81	1,293
Lithuania	3,908	75	1,221
Cyprus	3,475	67	783
Sweden	3,278	63	212
Italy	1,963	38	947

Dia · B · Ta

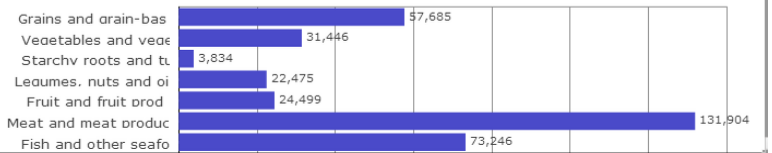
Food Feed

Bar · Ta

Number of results reported by Substance



Number of results reported by Food group



SHARING AND PUBLISHING - ZENODO

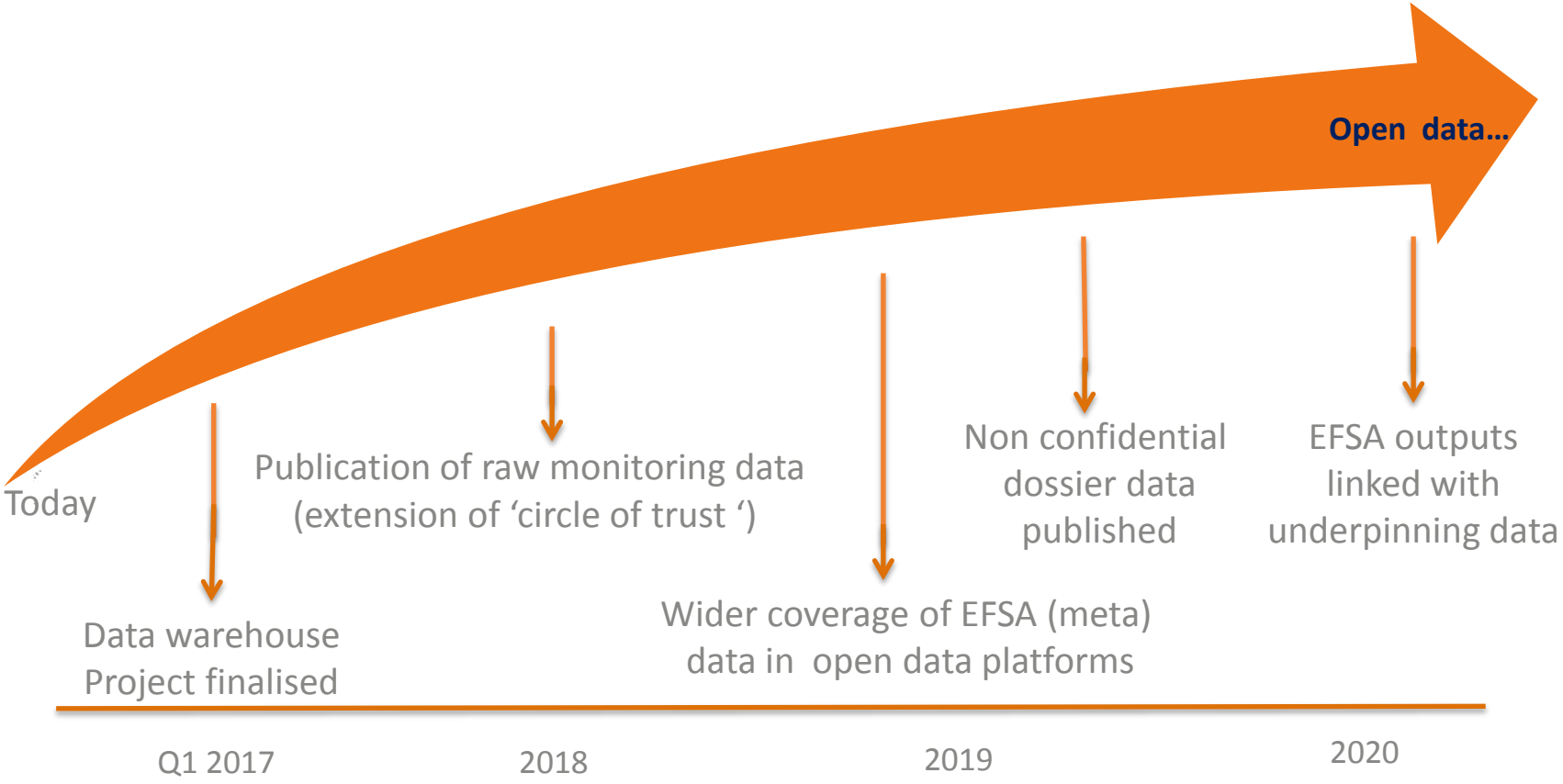
Accessible

Findable

Reusable

Interoperable

KEY NEXT STEPS TOWARDS OPEN DATA



THANK YOU for your attention