



# Update on Advisory Group on Data

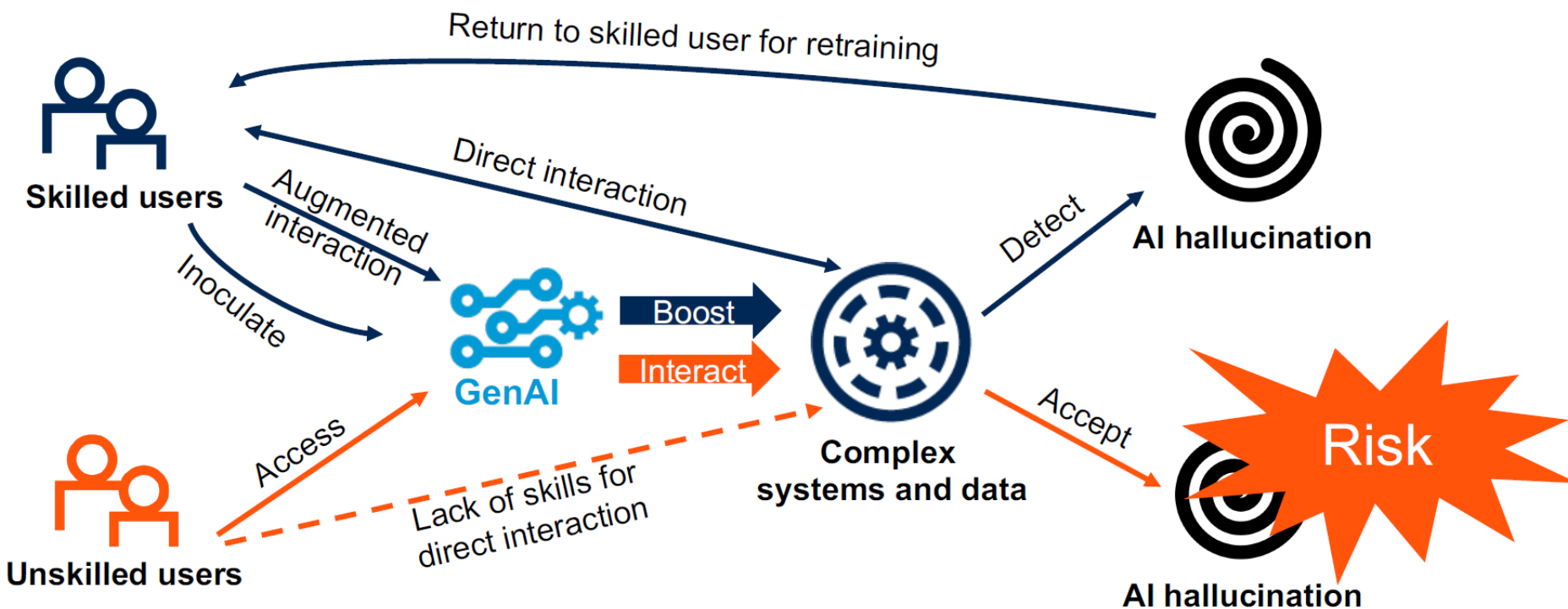
Ákos Jozwiak, Hungary

# 27<sup>TH</sup> (PHYSICAL) MEETING OF AGOD

- Subgroups check-in and ToR update
- EFSA AI Task Force
- Reflection on the Symposium on 'Data Readiness for AI'
- Data flow mapping in MS project
- AGoD roadmap 2024-2027
- Annual report 2024
- Planning of 2025



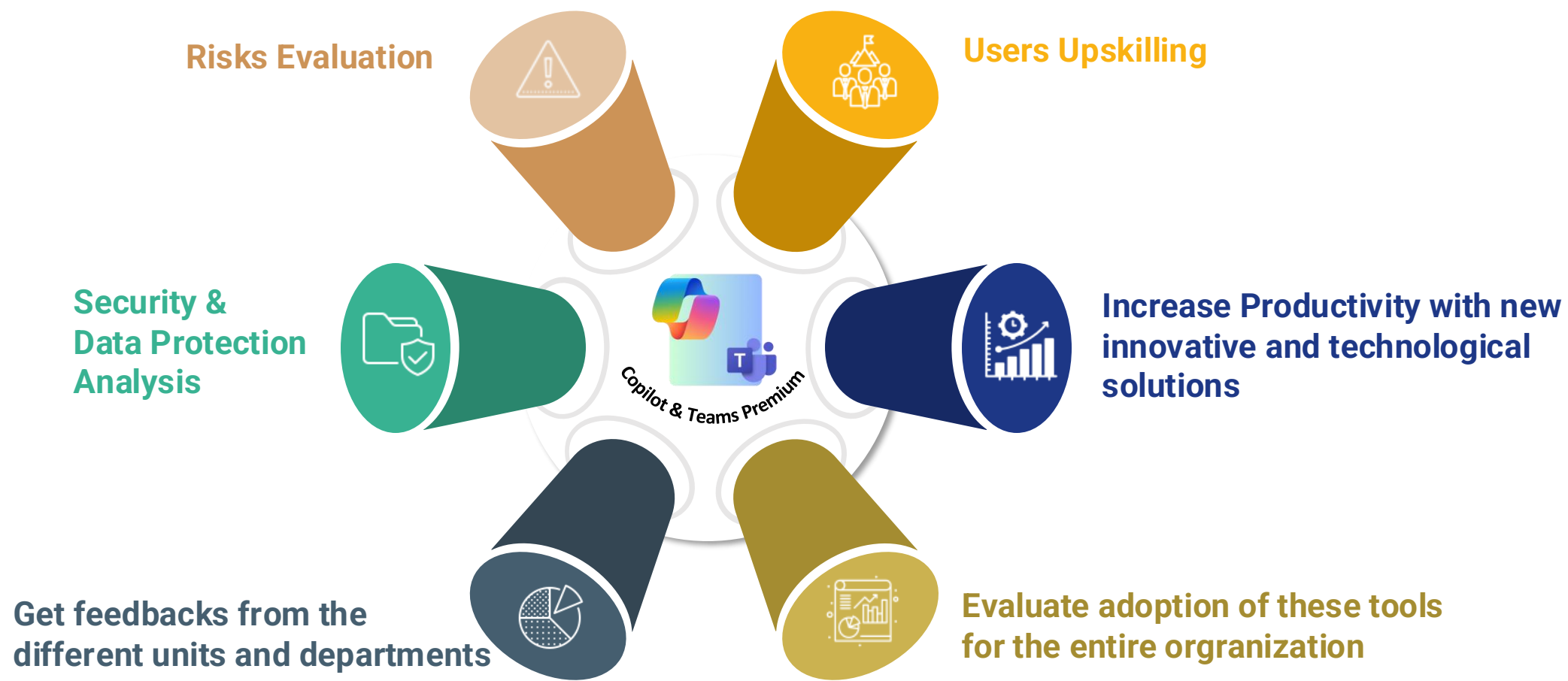
## Understanding the Risk of Generative AI



Note: Skilled user here is "domain expertise;" not data expertise.



# EFSA AI TASK FORCE



# EFSA SYMPOSIUM ON DATA READINESS FOR AI 23-24 OCTOBER 2024 | PARMA

## EVENT IN NUMBERS

### CORE TEAM

Andrea MALDONADO (IDATA)  
Vittoria FLAMINI (IDATA)  
Claudia TIMANTI (CORSER)  
Anna CAMPANINI (CORSER)  
Contractors: POMILIO BLUMM

### ATTENDANCE & OVERALL SATISFACTION



**116 registered**  
**87 invited**  
**0 no show**



**72% excellent**  
**28% good**  
based on 57 surveys

### FORMAT



**Duration:**  
**89% appropriate**  
**11% too short**

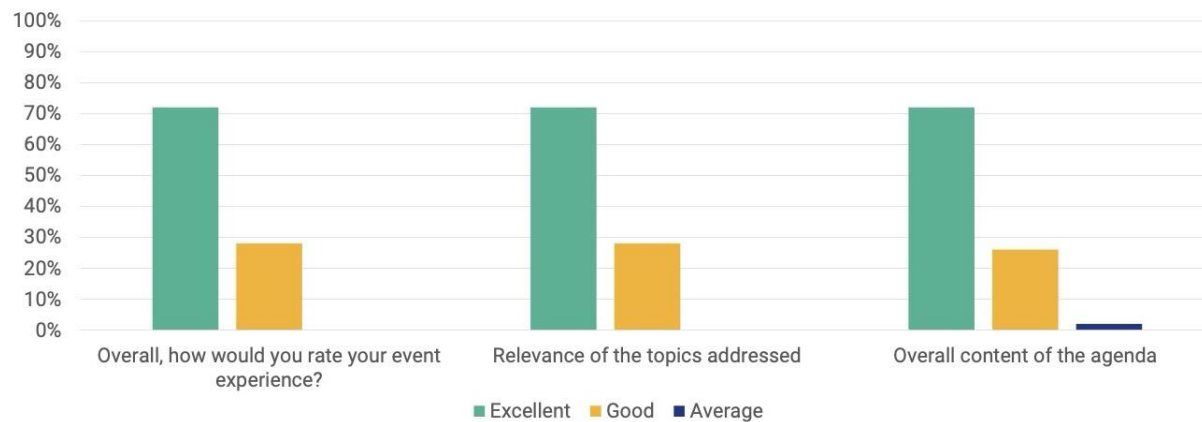
**Presentations available at:**

<https://www.efsa.europa.eu/en/events/data-readiness-artificial-intelligence>



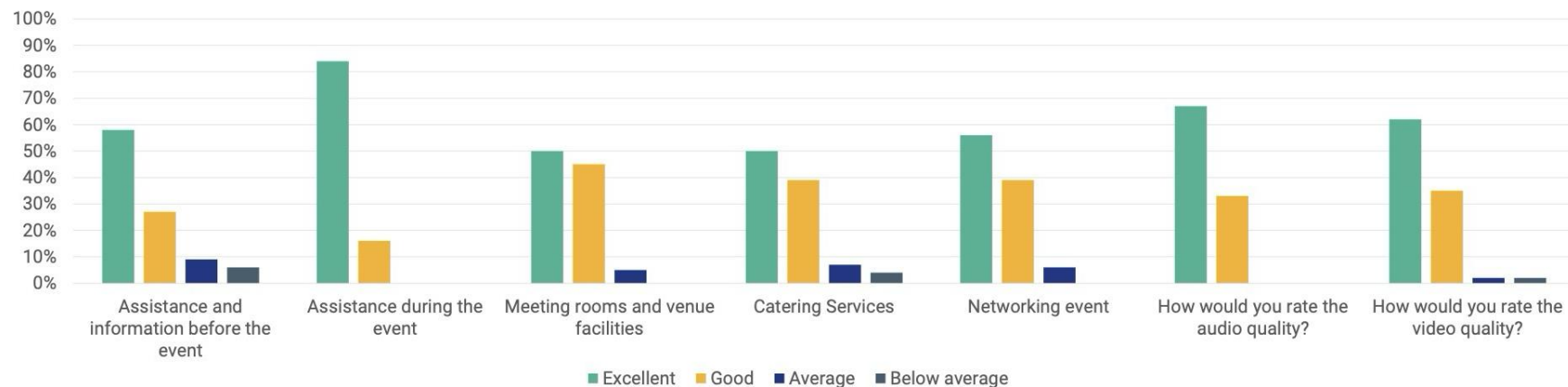
# EFSA SYMPOSIUM ON DATA READINESS FOR AI

## CONTENT



**Time for QA:**  
**51% excellent**  
**47% good**  
**2% average**

## ORGANISATION AND LOGISTICS





15:00 – 16:00

Registration | First floor foyer area

16:00 – 18:00

**Opening Session | Room: Battistero – Duomo – Certosa**

Moderator: Nikolaus KRIZ, European Food Safety Authority  
Rapporteur: Vittoria FLAMINI, European Food Safety Authority

**Welcome & Scope of the Symposium**

Nikolaus KRIZ, European Food Safety Authority

**AI in regulatory science - the experience of the US FDA**

Tucker PATTERSON, National Center for Toxicological Research - US Food & Drug Administration (USA)

**An introduction to the work of the Advisory Group on Data and its Subgroups**

- Ákos JOZWIAK, University of Veterinary Medicine Budapest (HU)
- Fabrizio ABBINANTE, European Food Safety Authority
- Dorte Lau BAGGESEN, DTU National Food Institute (DK)
- David FOSTER, Swedish National Food Agency (SE)
- Eva SCHARFENBERG, Federal Office of Consumer Protection and Food Safety - BVL (DE)

18:00 – 20:00

**Poster Session & Networking Cocktail | Room: Ducale – Regio – Farnese**

Round 1 | 18:00-19:00

- **SIGMA-EST Beyond the mapping** | Angelo CERELLA, Istituto Zooprofilattico Sperimentale delle Venezie (IT), Sabrina MAZZAGUFO, Istituto Zooprofilattico Sperimentale (IT)
- **A prestudy for an AI-driven tool to align national data formats with EFSA SSD2** | Frida BROMAN, Swedish National Food Agency (SE)
- **Development and implementation of a tool for Data Capture @ Point of Sampling** | Pedro NABAIS, Autoridade de Segurança Alimentar e Económica (PT)
- **Promoting the adoption of the FAIR Scientific Knowledge Exchange (FSKX) Format through the RAKIP-Web and KIDA projects** | Racem BEN-ROMDHANE, German Federal Institute for Risk Assessment - BfR (DE)

Round 2 | 19:00-20:00

- **sOFT-ERA, Further development and update of the OpenFoodTox database: OFT 3.0** | Emilio BENFENATI, Istituto di Ricerche Farmacologiche Mario Negri -IRCCS (IT)
- **Towards holistic, AI-driven emerging risk assessment: a multi-stakeholder perspective** | Veronica LATTANZIO, National Research Council of Italy (IT)
- **Ontologies in EFSA** | Yannick SPILL, European Food Safety Authority

Day 2   Thursday, 24 <sup>th</sup> October 2024   Morning Session			
09:00 – 10:30	<b>AI Opportunities and AI Challenges   Room: Battistero – Duomo - Certosa</b> Moderator: Ákos JOZWIAK, University of Veterinary Medicine Budapest (HU) Rapporteur: Vittoria FLAMINI, European Food Safety Authority		
	Thomas HARTUNG, Johns Hopkins University (USA) - <b>Online</b> Luis Paulo REIS, University of Porto (PT) Thomas MARGONI, KU Leuven (BE)		
10:30 – 11:00	<b>Coffee Break   Room: Ducale – Regio - Farnese</b>		
11:00 – 12:30	<b>Explainable and Open Science</b> <b>Room: San Vitale</b>  Chairperson: Elske VAN DER VAART, Netherlands Food and Consumer Product Safety Authority (NL)  Rapporteur: Eileen O'DEA, European Food Safety Authority  Bas VAN DER VELDEN, Wageningen Food Safety Research (NL)  Arno SIEBES, University of Utrecht (NL) – <b>pre-recorded video</b>  Cornelia KUTTERER, Considerati (BE)	<b>Collaborative learning: Data and models sharing</b> <b>Room: Battistero – Duomo – Certosa</b>  Chairperson: Dorte Lau BAGGESEN, DTU National Food Institute (DK)  Rapporteur: Gisèle GIZZI, European Food Safety Authority  William O'SULLIVAN, Creme Global (IE)  Manos KARVOUNIS, Agroknow (GR) - <b>pre-recorded video</b>  Lea Löhn, Thünen Institute (DE)	<b>Semantics and Ontologies</b> <b>Room: Cittadella</b>  Chairperson: Filipa MELO DE VASCONCELOS, Autoridade de Segurança Alimentar e Económica (PT)  Rapporteur: Giandomenico FURNARI, European Food Safety Authority  Racem BEN-ROMDHANE, German Federal Institute for Risk Assessment – BfR (DE)  Milán JANOSOV, Geospatial Data Consulting (HU)  Paul WHALEY, Whaley Research (UK) – <b>Online</b>
12.30 – 13:30	<b>Lunch Break   Room: Ducale – Regio - Farnese</b>		

Day 2   Thursday, 24 <sup>th</sup> October 2024   Afternoon Session			
13:30 – 15:00	<b>Data mapping with AI</b> <b>Room: Battistero – Duomo – Certosa</b>  Chairperson: David FOSTER, Swedish National Food Agency (SE)  Rapporteur: Luca PASINATO, European Food Safety Authority  David FOSTER, Swedish Food Agency (SE)  Frida BROMAN, Swedish National Food Agency (SE)  Guillaume STUDER, French Agency for Food, Environmental and Occupational Health & Safety – ANSES (FR)  Alexander WALSH, French Agency for Food, Environmental and Occupational Health & Safety - ANSES (FR)	<b>AI for risk assessment I - Evidence synthesis, using ML for screening and data extraction</b> <b>Room: San Vitale</b>  Chairperson: Ákos JOZWIAK, University of Veterinary Medicine Budapest (HU)  Rapporteur: Davide GIBIN, European Food Safety Authority  Rens VAN DE SCHOOT, University of Utrecht (NL)  Giulia MENICHETTI, Harvard Medical School (USA) - <b>Online</b>  Michael SEBEK, Northeastern University (USA) - <b>Online</b>  Tome EFTIMOV, Jožef Stefan Institute (SI)	<b>AI for risk assessment II - Applied ML in Food Safety (Microbiology) and Food Authenticity</b> <b>Room: Cittadella</b>  Chairperson: Eva SCHARFENBERG, Federal Office of Consumer Protection and Food Safety – BVL (DE)  Rapporteur: Giovanni IACONO, European Food Safety Authority  Patrick MURIGU KAMAU NJAGE, DTU National Food Institute (DK)  Pimlapas Shinny LEEKITCHAROENPHON, DTU National Food Institute (DK)  Micha SCHNEIDER, Thünen Institute (DE)
15:00 - 15:30	<b>Coffee Break   Room: Ducale – Regio - Farnese</b>		
15:30 – 16:30	<b>Closing session   Room: Battistero – Duomo – Certosa</b> Moderator: Didier VERLOO, European Food Safety Authority Rapporteur: Vittoria FLAMINI, European Food Safety Authority		
	<b>Panel discussion</b> Fabrizio ABBINANTE, European Food Safety Authority Ákos JOZWIAK, University of Veterinary Medicine Budapest (HU) Cornelia KUTTERER, Considerati (BE)		
	<b>Regulatory Art, Data Art, and the Missing Human Factor</b> Paul DEVALIER, European Food Safety Authority		
	<b>Symposium closing</b> Didier VERLOO, European Food Safety Authority		

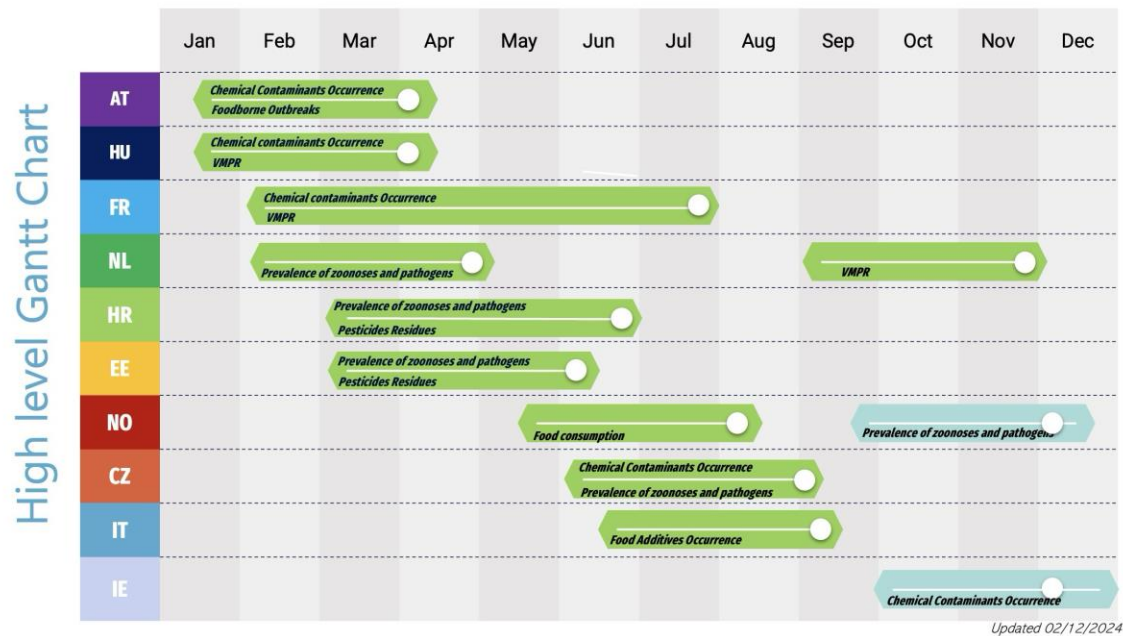


# EFSA SYMPOSIUM ON DATA READINESS FOR AI

- Positive feedback
  - It happened
  - Networking, networking, networking, networking (SGs, TMT, EFSA-MSs, ...)
  - Raising awareness on AGoD, data and AI
  - More risk taking in AGoD and MS related to AI
  - Involvement of people who haven't been part of the work with EFSA
  - For SG members to see that they are part of a bigger picture
  - Good speakers
  - Very good catering & venue
  - Availability of presentations online
- Improvement opportunities
  - Include practical workshops – collect workshop ideas in the community
  - Opportunities to bring AGoD SGs together
  - Clearer communication of the contents and objectives to the ChemMon and other networks
  - Bottom-up programme building
  - Provide programme with abstracts earlier
  - Start earlier
  - Multi-annual plan for future conferences
  - Extend network to other agencies



# PROGRESS OF DATA FLOW MAPPING IN MEMBER STATES



## Summative EU report

Analysis work to draw conclusions for all MSs and all BDCs on EU level.



## Challenges & Solutions report

Secondary analysis report for all Business Data Collections in a Member State.

## Country Report

Analysis based on the Survey and Workshops with MS

- Next steps: after evaluating the results
  - Feedback to AF
  - Collecting interest on possible further continuation (AF, CVO, HoA, ...)



# AGOD ROADMAP 2024-2027: CLUSTERS AND SUBGROUPS

## Data Governance

- Governance bodies and roles
- Collaborative decision-making mechanisms

## Data Management

- Data Quality
- Data Modelling and Terminologies
- Data Analysis and visualization

## Tools & Eco-systems

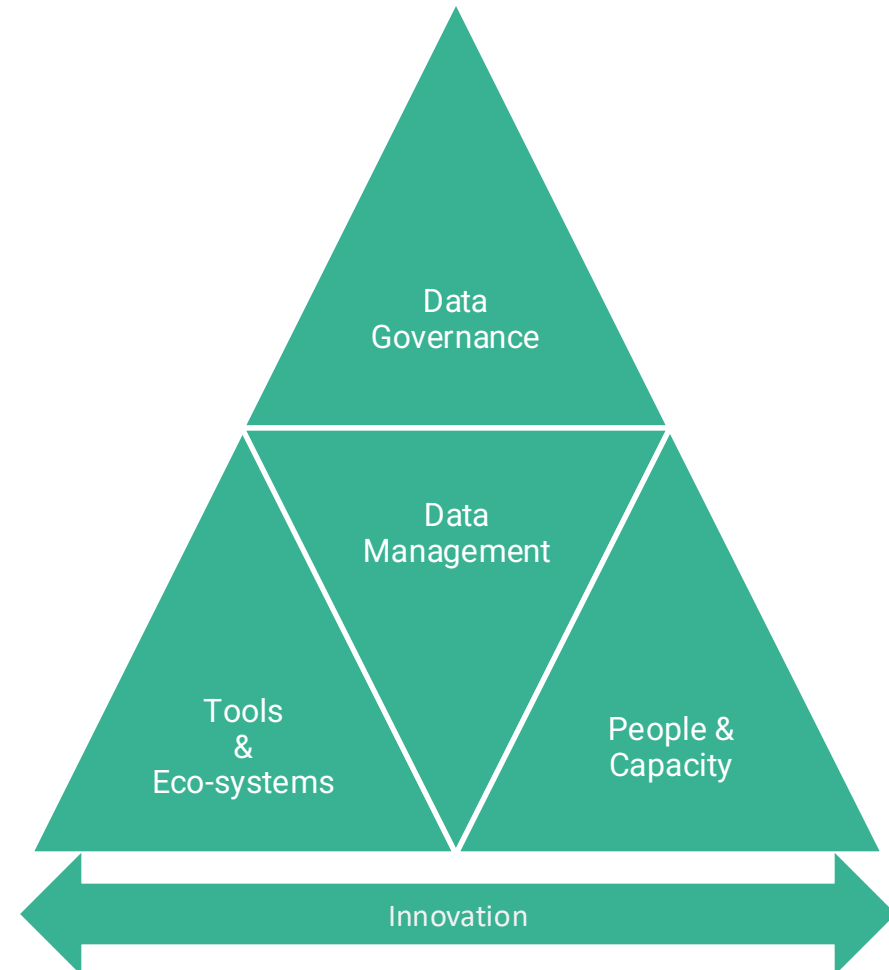
- Digital Platforms and eco-systems
- Developing and sharing tools

## People & Capacity

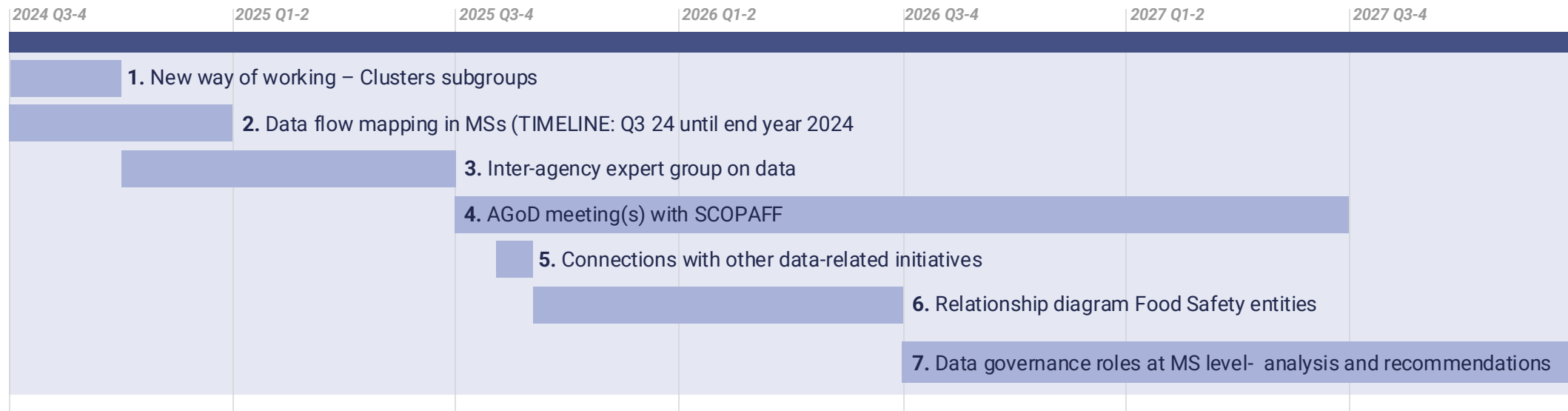
- Data Literacy
- Data Capacity preparedness

## Innovation

- Innovative data analytics
- New data streams
- AI



# DATA GOVERNANCE (01/07/2024 – 31/12/2025)



## KPIs:

1. New procedure drafted, new members nominated with chairs and Subgroups in place and running

2. The report for end of 2024

3. Expert group scope, terms of reference agreed, and experts nominated and set up

4. 1 meeting / 2 years,

5. 1 meeting / 1 years (depends on the collaboration/connection)

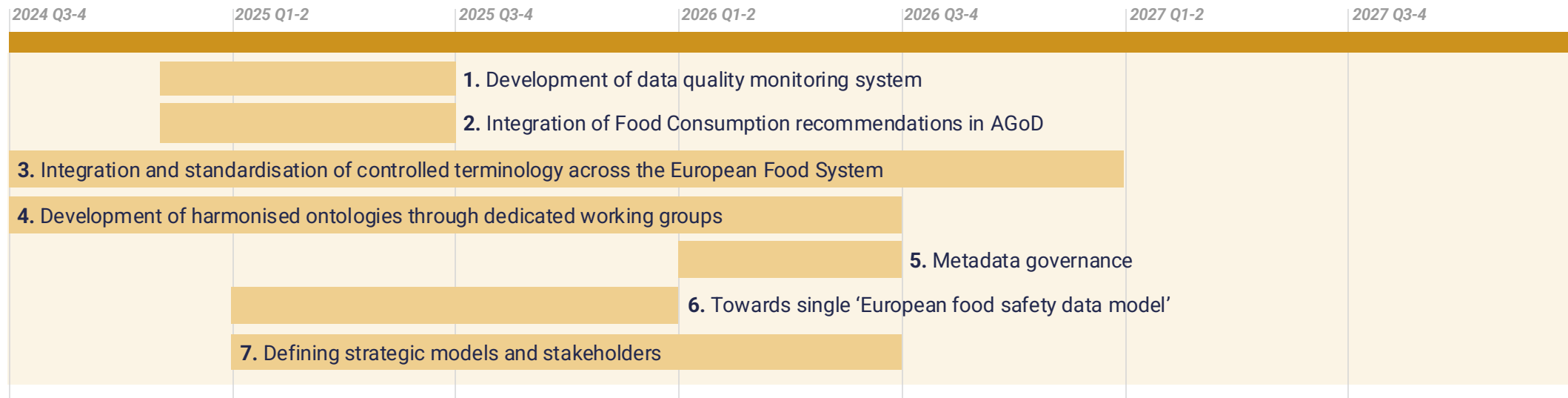
6. Expand the CRM of EFSA and create a relationship diagram using that source. MSs can maintain the contact point in self-service mode

7. Document on data governance roles drafted





# DATA MANAGEMENT (01/07/2024 – 30/06/2027)



- 7. MS “twinning- system” knowledge exchange - data catalogues proposal to be moved to ‘People and capacity’ cluster
- 9. Authentication best practices when connecting databases - proposal to be moved to ‘Tools and Ecosystems’ cluster

## KPIs:

- |  |   |
|--|---|
| 1. System in place and used by x MS                          | 5. This is a KPI                                    |
| 2. KPI?  | 6. Proof of concept European food safety data model |
| 3. Catalogue library created                                 | 7. KPI?   |
| 4. Guideline/Report on ontologies for each data domain exist |   |



# TOOLS AND ECOSYSTEM (01/07/2024 – 31/12/2027)

2024 Q3-4	2025 Q1-2	2025 Q3-4	2026 Q1-2	2026 Q3-4				
1. Building of a Business rules engine								
2. Data exchange, automation, analysis needs and requirements between MSs and EFSA								
3. Data mapping (and transformation) needs and requirements from MSs to EFSA models								
4. Towards Data Capture in Foodex2								
	5. Investigate the needs of public destination or a central platform for cooperation and exchange between MSs and EFSA							
	6. Analyse and present existing best practices for open/restricted data publication and retrieval at MSs and EFSA							
7. Define "event driven approach" for system users in MS from consumer and deliverers perspective, collect information, expectation, real needs								

## KPIs:

1. KPI1: first evaluation by MS of EFSA BR engine by beginning 2026,  
KPI 2: integration of BR engine is possible starting from Jan 2027 KPI  
3: Number of business rules implemented

2. KPI 1: identification of possible endpoints for automatic  
data sharing from MSs initiatives. KPI 2: evaluation of legal  
constraints and blocking issues.

KPI 3 Number \* of MS identified needs and requirements  
KPI 4: Number \* of flows where repetitions happen

3. Data mapping needs identified and documented for \*  
number of data models

4. KPI not applicable as performed by a  
3<sup>rd</sup> party (AGoD will rediscuss)

5.

6. Best practice collected and published

7. KPI: Explanation paper drafted



# PEOPLE AND CAPACITY (01/07/2024 – 30/06/2027)

2024 Q3-4	2025 Q1-2	2025 Q3-4	2026 Q1-2	2026 Q3-4	2027 Q1-2	2027 Q3-4	
1. Reference profiles and minimal capacity / capability needs							
		2. Develop good practice guidelines for visualisation					
		3. Foster trainings at EU and MS level					
			4. Link to EU-FORA				
					5. Community of practice		
6. Annual food safety data science conference							

## KPIs:

- |  |   |
|--|---|
| 1. Reference profiles and capacity needs developed   | 4. Concrete presentations or framing activities regarding data and digitalization in EU FORA curriculum |
| 2. WG established, Good practice guidelines drafted  | 5. WG established, virtual network established where knowledge is shared                                |
| 3. KPI 1 Attendance to EFSA/FP trainings;<br>KPI 2 Communication regarding external training opportunities | 6. Yearly Conference  |



# INNOVATION (01/07/2024 – 31/12/2027)

2024 Q3-4	2025 Q1-2	2025 Q3-4	2026 Q1-2	2026 Q3-4	2027 Q1-2	2027 Q3-4
1. AI state of play standing agenda item						
2. White Paper "Using AI in food safety regulatory science"						
		3. Hackathon - combining EFSA reporting data and 'unusual' data sources				
		4. Promote and launch an AI lighthouse project				
		5. Use-case for traceability data in rapid risk assessment				

## KPIs:

- |   |   |
|---|---|
| 1. List of potential speakers   | 4. KPIS: Identification of the project, Finding funding mechanism, Draft, Planning and discussion execution |
| 2. White paper drafted  |   |
| 3. Intermediate KPI: Roadmap for a Hackathon , then Hackathon organized | 5. KPIS: Define or Scope the project the project, Finding funding mechanism, Draft, Planning and discussion |





# AGOD ROADMAP 2024-2027

- Progress updates
  - Subgroups to AGoD: at the AGoD meetings
  - Subgroup to Subgroups: Joint online meeting of all subgroups once a year (May or June) to share information about the SG work and find synergies
  - AGoD to Advisory Forum: in the AGoD annual report and update report to AF twice a year
- Changes in the Roadmap: as needed, we monitor the roadmap twice a year at two checkpoints
- Publication on the website: as needed



# COMMUNICATING AGOD ACTIVITIES

- Annual Report 2024: drafting, to be published in Q1 2025
- AGoD web page as a part of EFSA website:  
<https://www.efsa.europa.eu/en/advisory-group-on-data>
- Discussion on further outputs in January 2025



# AG ON DATA: MEETINGS IN 2025

22 January  
online

5 March  
Poland

28 April  
online

17 June  
Parma

9 Sept  
online

5 Nov  
online

2 Dec  
Denmark

Subgroup check-in  
Progress TMT

AI: EFSA use cases

EFSA/BfR traceability  
projects

What are Outputs of  
SGs and AGoD

EBTC presentation

Subgroup check-in  
Progress TMT

AI: AI Act

Outcomes of data flow  
mapping in MS

Common European  
Data Model - discussion

Subgroup check-in  
Progress TMT

AI:

Set up inter-agency  
expert group on data

Develop connections  
with other data-related  
initiatives

Subgroup check-in  
Progress TMT

AI:

Revision of FP Tailor  
Made proposals

Roadmap Checkpoint 1  
(conference in 2026?)

Interagency  
presentation

Subgroup check-in  
Progress TMT

AI:

Update on EC data  
initiatives

MS presentations on  
national initiatives

European common  
data platform for  
Chemicals

Subgroup check-in  
Progress TMT

AI:

Annual Report

Develop a relationship  
diagram for Food  
Safety entities

Interagency  
presentation

Subgroup check-in  
Progress TMT

AI:

Roadmap Checkpoint 2

Interagency  
presentation

