# UPDATE ON TASK FORCE ON DATA COLLECTION AND DATA MODELLING

71ST MEETING OF THE EFSA ADVISORY FORUM
04.04.2019. BUCHAREST

# MAIN OBJECTIVE

- The main objective of the Task Force is *to overview the <u>data collection and reporting processes</u> and the <u>data model</u> and <u>IT infrastructure</u> used, from a* **strategic perspective***, and to formulate recommendations at a strategic level*.

# OUTCOME OF 2ND MEETING
## IDENTIFIED PRIORITY TOPICS

**Data Collection and Reporting**

- 1.1. Member State reporting in the Food/Feed domain

- 1.2. Harmonised data capture at the point of sampling

- 1.3. Timeliness of data and real-time reporting

- 1.4. Accessibility and potential uses for new data sources

- 1.5. Legal framework and legislative updates

**Data Modelling**

- 2.1. Evolution and adoption of the samples data model (SSD)

- 2.2. Revisions of data models and catalogue values

- 2.3. Data models for new data sources
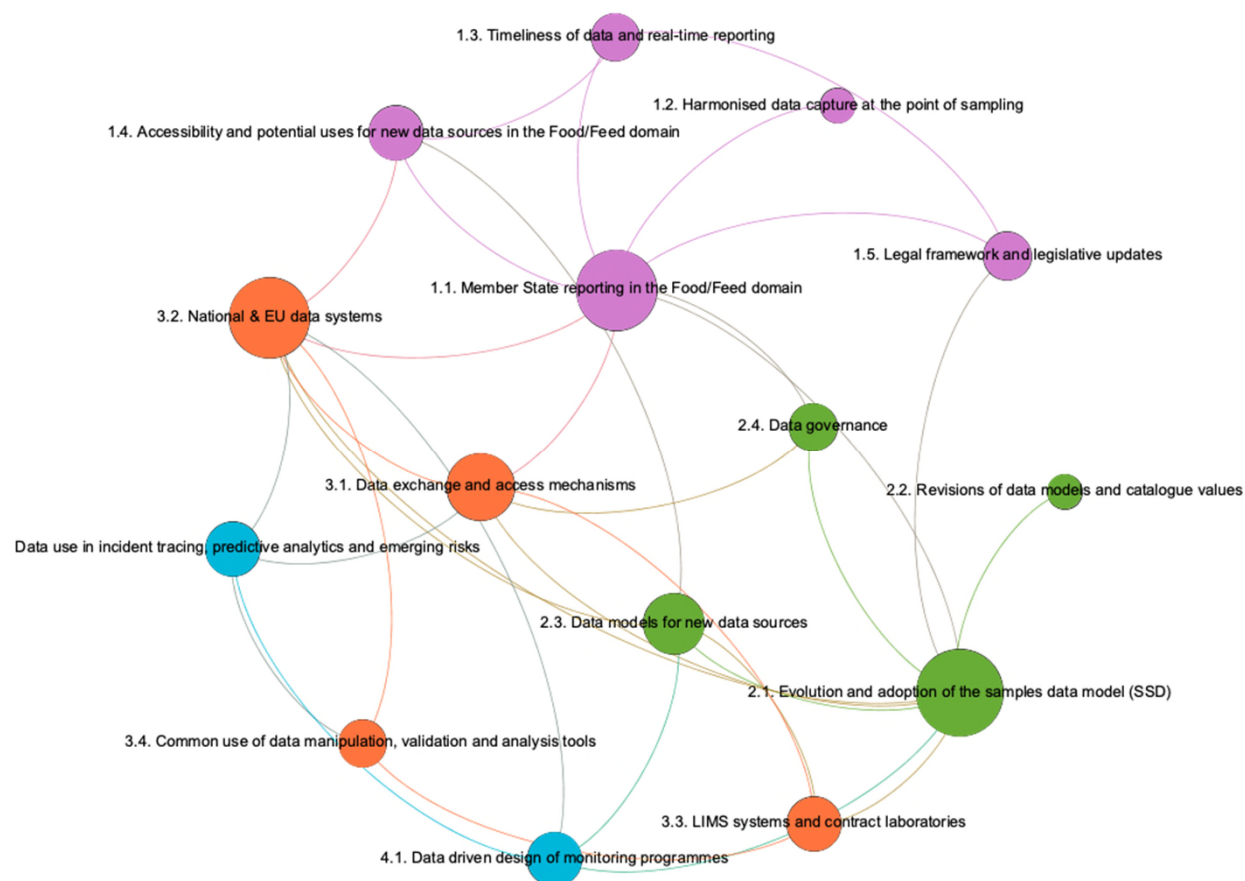
- 2.4. Data governance

**IT Architecture**

- 3.1. Data exchange and access mechanisms

- 3.2. National & EU data systems

- 3.3. LIMS systems and contract laboratories

- 3.4. Common use of data manipulation, validation and analysis tools

**Data Analysis**

- 4.1. Data driven design of monitoring programmes

- 4.2. Data use in incident tracing, predictive analytics and emerging risks

# OUTCOME OF 2$^{ND}$ MEETING
## CONNECTION BETWEEN IDENTIFIED TOPICS

# 3<sup>RD</sup> MEETING

02.04.2019 Bucharest

- Discussing topic 1.1. (MS reporting)

  - Feedback on the Inventory of Reporting needs

  - Collaboration in classification and connections between reporting models

- Discussion on drafting recommendations on data collection and reporting

- Introduction to Data Modelling

# INVENTORY OF REPORTING NEEDS

- Inventory of MS reporting needs/tasks was compiled

- Aim:

  - to be able to find parallel data flows

  - to be able to find connections

  - to serve as a basis to identifying challenges & possible improvement areas

- 122 items identified so far

# INVENTORY OF REPORTING NEEDS

| Ref | Source | Focus | Category | Base Model | Catalogues | Unique Characteristics | Data collection description | Link | Standardised Legislation | Applicable Legislation | Reporting Frequency | Standardised Level | Level |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | Germany | | Risk Management | | | | National data transmission system according to AVV DatA | https://www.bvl.bund.d | | | | Result rows | single data |
| 84 | Austria | | Samples | | | Sampling Plans | Plan samples/Routine Samples Assessment Routineprobenbewertung | National template exists | | | | Aggregated | Aggregated |
| 85 | Austria | | Risk Management | | | | Target-performance comparison food safety controls Soll-Ist-Vergleich amtliche Kontrolle von Unternehmen und Waren nach dem nationalen Kontrollplan | National template exists | | | | Aggregated | Aggregated |
| 69 | Germany | | Zoonosis/AMR | | | Zoonosis | Monitoring of zoonotic agents and antimicrobial resistance in the | https://www.bvl.bund.d | Directive 2003/99/EC | general administrative | | Result rows | single data |
| 65 | Germany | | Chemical | | | | National Reporting on dioxines and PCBs in food and feed according to LFGB § 44a and MitÜbermitV | https://www.bvl.bund.d e/DE/01_Lebensmittel/0 2_UnerwuenschteStoffe Organismen/05_Dioxine/ lm_dioxineUndAndere_n | | German Food and Feed Code (LFGB) together with the national regulation on notification and communication obligations | | Result rows | single data food and feed, official controls on food and food and feed business |
| 33 | Hungary | | Risk Management | | | Organic Farming | Annual report on organic farming as regards control authorities and bodies | No template | Com Reg. 889/2008/EC | Com Reg. 889/2008/EC Art 94. | | Aggregated | Aggregated |
| 34 | Hungary | | Risk Management | | | Organic Farming | Annual report on organic farming as regards seeds | No template | Com Reg. 889/2008/EC | Com Reg. 889/2008/EC Art 54-55. | | Aggregated | Aggregated |
| 104 | Croatia | | Risk Management | | | MANCP | Report on official controls in food and feed sector generated by MS PowerPivot data model | https://www.hah.hr/tab lica-za-godisnje-izvjesce- sluzbenih-laboratorija/ | | | | Aggregated | Aggregated |
| 103 | Croatia | | Risk Management | | | MANCP | Database on official controls in food and feed sector | No link. Data structured according to Standard Sample Description (SSD1) fields and controlled terminology | | National regulation (OG, num. 86/10, 7/11 i 74/13) | | Result rows | Sample based |
| 107 | Croatia | | Risk Management | | | Establishments | Centralized SQL database | under construction | | Law of state inspections NN ( 115/2018) | | | |
| 21 | EFSA | Part of Sigma | Disease Notification | ADNS | | Animal Diseases | Animal Disease Notification System (ADNS) | https://ec.europa.eu/foo d/animals/animal- diseases/not-system_en | | Council Directive 82/894/EEC | | Aggregated | Aggregated |
| 22 | EFSA | Subset of IMSOC | IMSOC Risk Management | Model in development | | TRACES | TRACES: TRAde Control and Expert System (Animal Movements) | https://ec.europa.eu/foo d/sites/food/files/animal s/docs/ah-traces-info- | | COMMISSION DECISION 2004/292/EC | | Aggregated | Aggregated |
| 26 | EFSA | | Risk Management | Model in development | | MANCP | Multi Annual National Control Plan (MANCP) | https://dms.efsa.europa. eu/otcs/cs.exe?func=ll&o bjaction=overview&obji | | Regulation EC 882/2004 | | Aggregated | Aggregated |
| 20 | EFSA | Subset of IMSOC | IMSOC Risk Management | Model in development | | RASFF | RASFF - Food and Feed Safety Alerts | https://webgate.ec.euro pa.eu/rasff- window/help/RASFF_Po | Regulation (EU) No. 16/2011 | Commission Regulation (EU) No. 16/2011 | | Aggregated + Result rows | Aggregated + Result rows |
| 18 | EFSA | Subset of IMSOC | IMSOC Risk Management | Reg 669 | | Safeguard Measures | Increased level of official controls on imports of certain feed and food | https://eur- | Regulation 669/2009 | Regulation 669/2009 | | Result rows | Result rows |

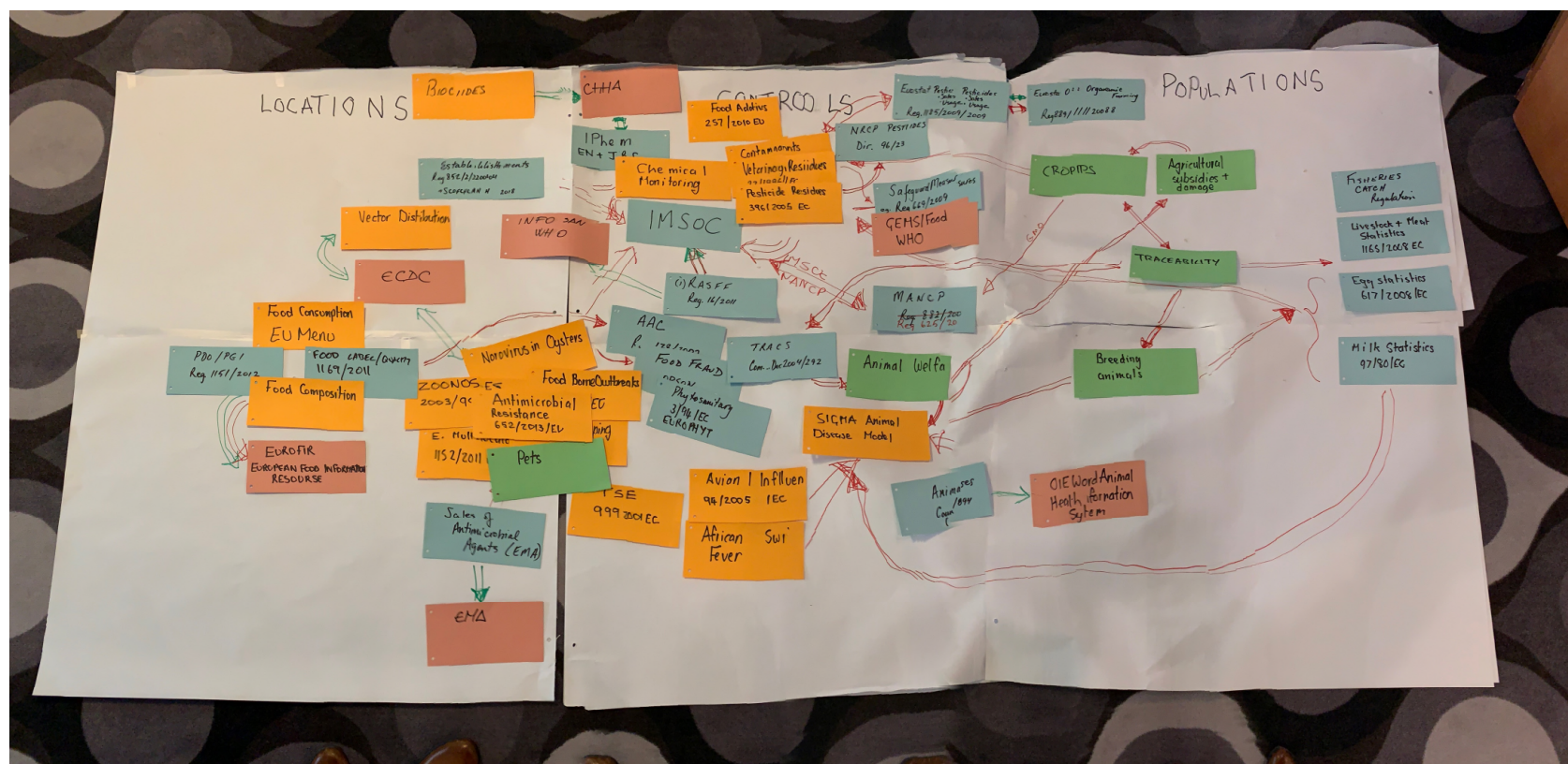Data Models | Summary Pivot | Sheet3 | +

# COLLABORATION IN CLASSIFICATION AND  CONNECTIONS BETWEEN REPORTING MODELS

- Hands-on exercise

- 4 colours of cards representing reports: EFSA, Commission/EUROSTAT, International, National

- Group cards reports into 3 categories: locations (establishments), controls, populations

- Then connect those with:

    - green line: obvious and confirmed connections

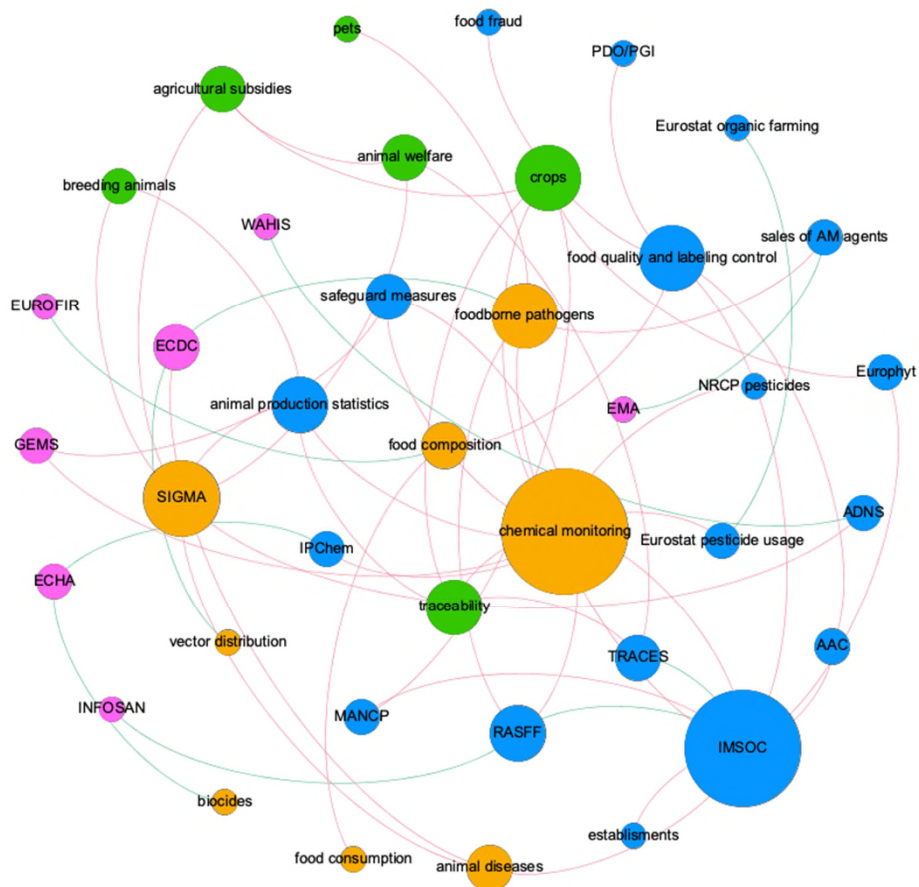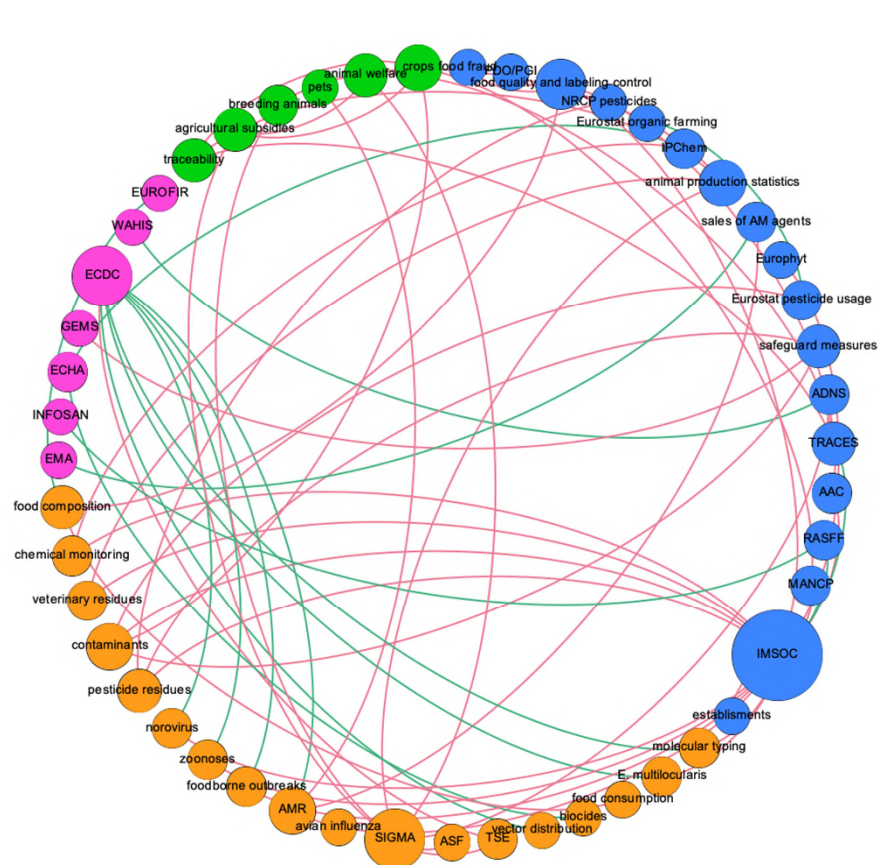    - red line: no connection, but could/should be

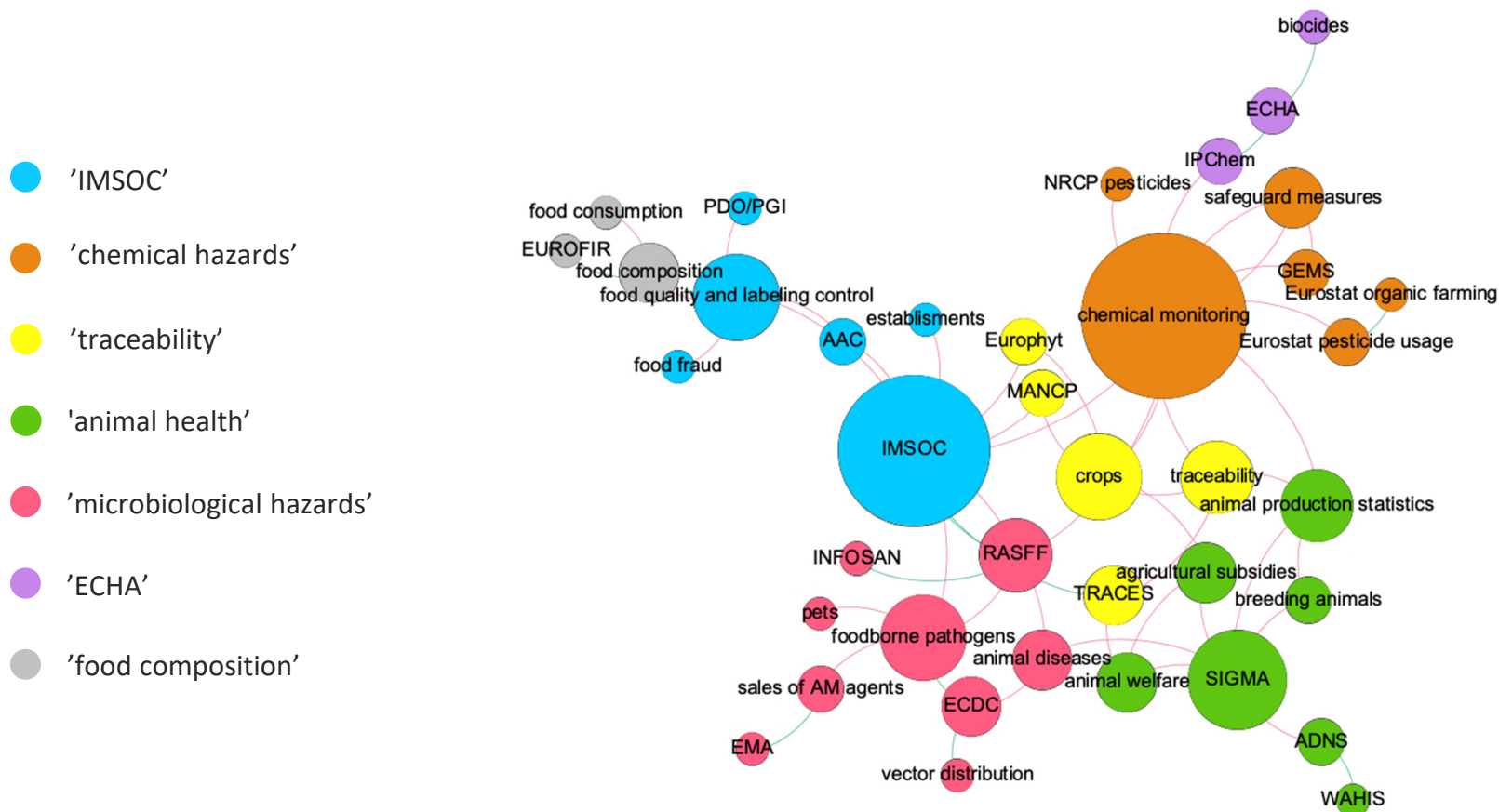# COLLABORATION IN CLASSIFICATION AND CONNECTIONS BETWEEN REPORTING MODELS

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# INITIAL ASSESSMENT

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Legend:
- 'IMSOC'
- 'chemical hazards'
- 'traceability'
- 'animal health'
- 'microbiological hazards'
- 'ECHA'
- 'food composition'

Network communities identified

# INITIAL ASSESSMENT

- Important hubs identified:
    - IMSOC, SIGMA, chemical monitoring, foodborne pathogens
- Important modules identified:
    - food composition
    - traceability
- Many similar/overlapping/parallel report flows
- Many red edges → connections could be improved

# COLLABORATION IN CLASSIFICATION AND CONNECTIONS BETWEEN REPORTING MODELS

- Different legal background (including differences in MS legislation) → different business rules → different data models

- Discussion should be initiated with COM

  - especially on the area of IMSOC

- Further discussions on:

  - *How to elaborate a common European „food safety data model"?*

    - Seeking good practices in overcoming different data models: project NOVA and ORION

  - *Shall we seek other ways than relational databases?*

# WAY FORWARD & NEXT MEETING

- 15 topics grouped into 4 clusters

- Work in parallel:

  - Cluster 1 continues

  - Cluster 2: Germany

  - Cluster 3: Sweden

- Discussion documents by the beginning of June

- Teleconferences and e-mails

- 1-day meeting before the 72nd AF meeting in Reykjavik, Iceland

- Publication of meeting minutes

# THANK YOU!

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