A vision of the future of food safety

(AF Task Force)

Trusted science for safe food

efsa
European Food Safety Authority

"It is not just about what's new in food safety, wherever you are in the world and whatever it is that you do. It's also about how we learn from the past to drive change for the future"

- Can we simplify existing and potentially future data streams and lessen the burden of reporting?

- Effectiveness of the current system - Is this way fit for purpose?

- What will be the effective system in the future?

THE IDEAL EU FOOD SAFETY DATA MODEL

- Data in a future, the ideal EU food safety system.

- A common model - common business rules, highly harmonised legislation even at national level - difficult to achieve.

- Aiming for as many standardised models as possible in some domains would be a valid objective.

DATA IN A FUTURE

- In an era of big data, organizations need to look towards the future.

- Finding benefits in terms of reduction of double reporting, data formatting and collection efforts.

- Finding potential interoperability benefits.

- Development of new technology provides modern solutions (e.g. in data capture, real-time data approach, AI etc.).
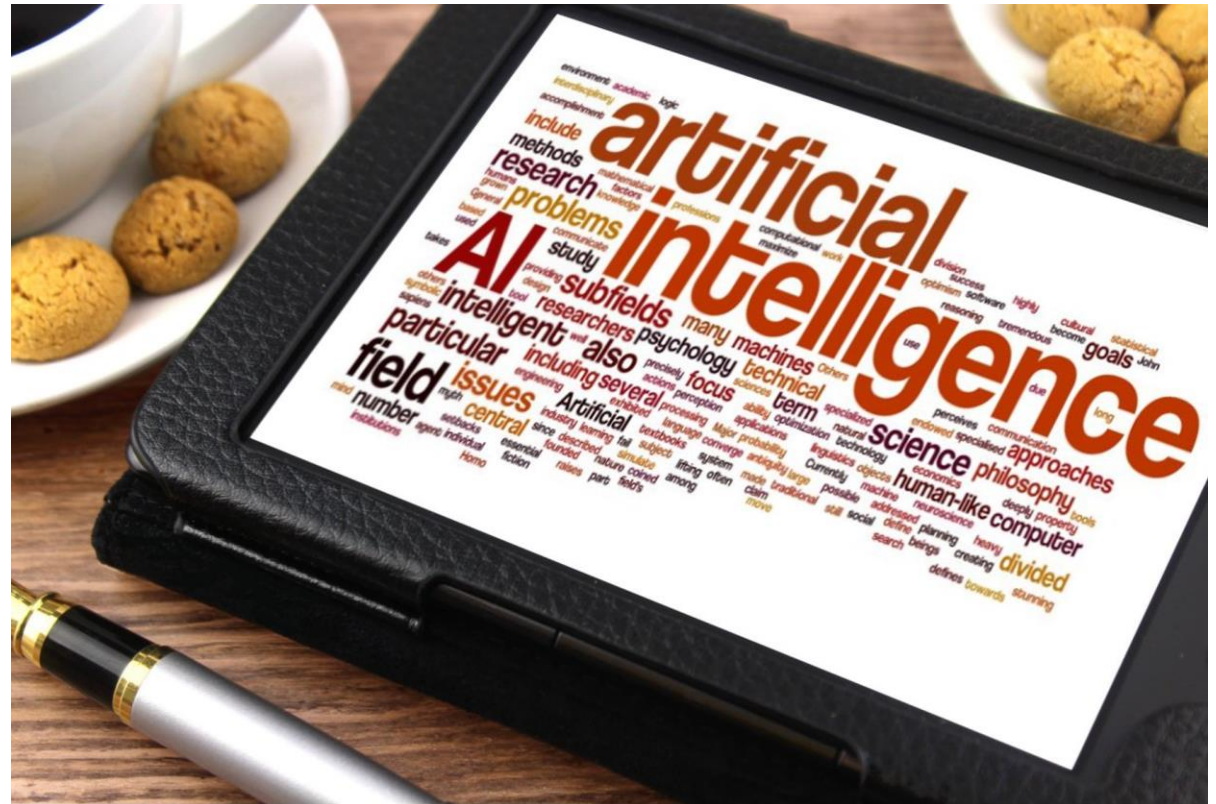
- Increasing speed of data generation.

- Opportunity to develop a different way of approaching data governance.
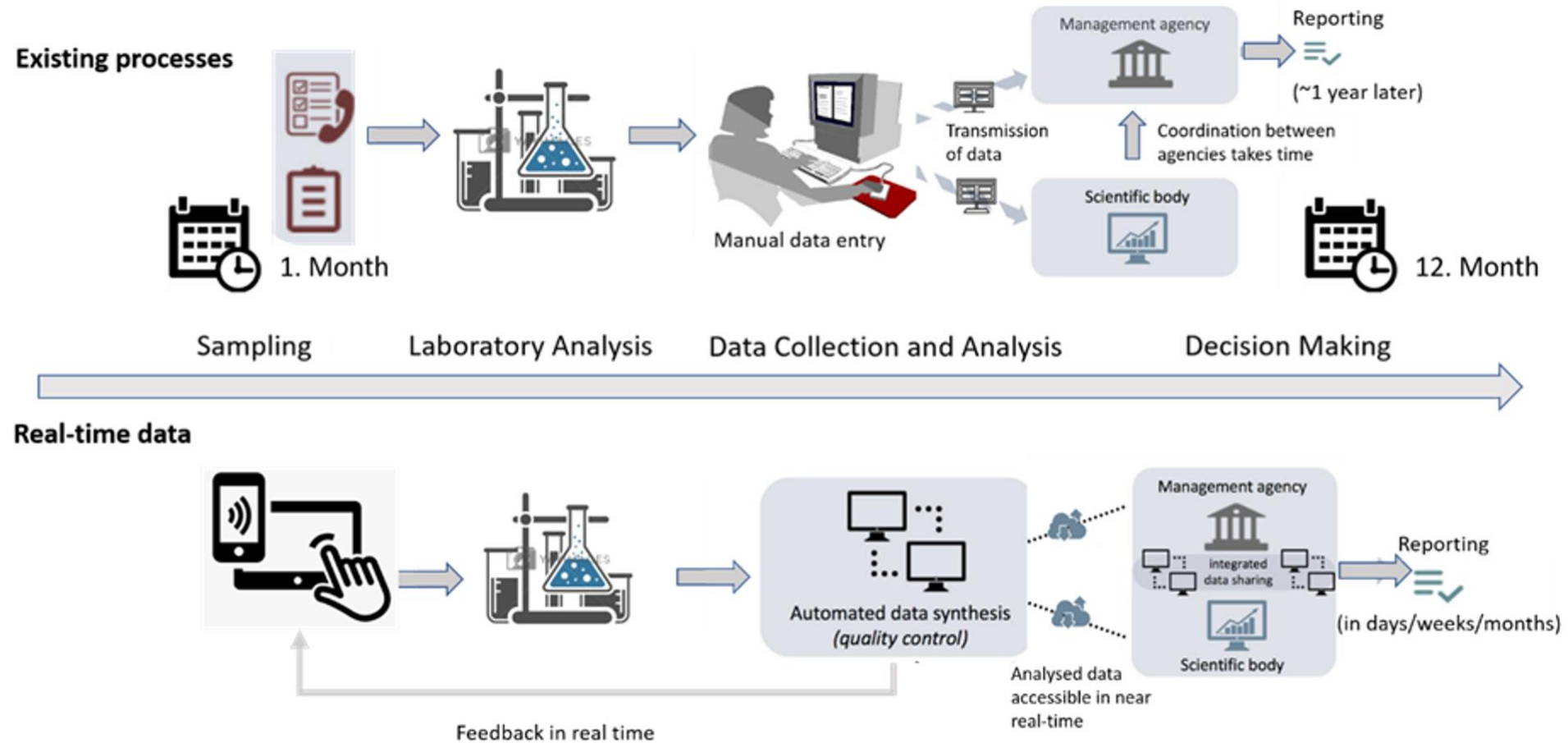
- Digital capture of data at the point of creation.
- Exploration of blockchain technology, optical character recognition (OCR), barcode reading and various artificial intelligence (AI) methodologies for efficient quality of data capture.

- Real time - The increasing velocity of data adds to the general pressure on organisations to respond in real time.
- Modern, streaming data architecture easily integrates structured, semi-structured and unstructured data.

DATA IN A FUTURE

- Move **from data reporting and collecting to data access**.

- National systems being built should be built with **interoperability** in mind.

- The possibility of data use from **multiple sources** in a variety of formats and locations in **almost real time** as they are created.

- Discussions on designing the 'future food safety data ecosystem of Europe'. By opening up systems so they can **interact with each other**.

- Shift **from data collection to data connection**

EU-FOOD SAFETY 2027

- Connected and interoperable food safety systems.

- Opening access to real-time data.

- Access to the data from various sources and enabling users to retrieve exactly the data they need.

- Supporting the identification of emerging risks and fraud activity, provision of alerts, crisis management and identify patterns of interest to food safety professionals.

- Effective and efficient official controls, risk assessment and risk management

CHALLENGES TO BE SOLVED

- <u>Security and confidentiality</u> - the requirements for data access by different users and at different levels have to be identified.

- <u>Misinterpretation of data</u> – e.g. flagging the data when the appropriate authority needs to be contacted before using the data.

- More expertise on data is needed throughout European food safety institutions.

- Attract more data scientists.

- Encouraging data-related education activities.

- Collaborative joint projects and sharing best practises

- Strategic planning

- Address long-term challenges

- Prioritising

- Defining actionable projects

Stay connected

Subscribe to
efsa.europa.eu/en/news/newsletters
efsa.europa.eu/en/rss

Receive job alerts
careers.efsa.europa.eu – job alerts

Follow us on Twitter
@efsa_eu
@plants_efsa
@methods_efsa
@animals_efsa

Follow us Linked in
Linkedin.com/company/efsa

Email
ask@efsa.europa.eu

efsa
European Food Safety Authority