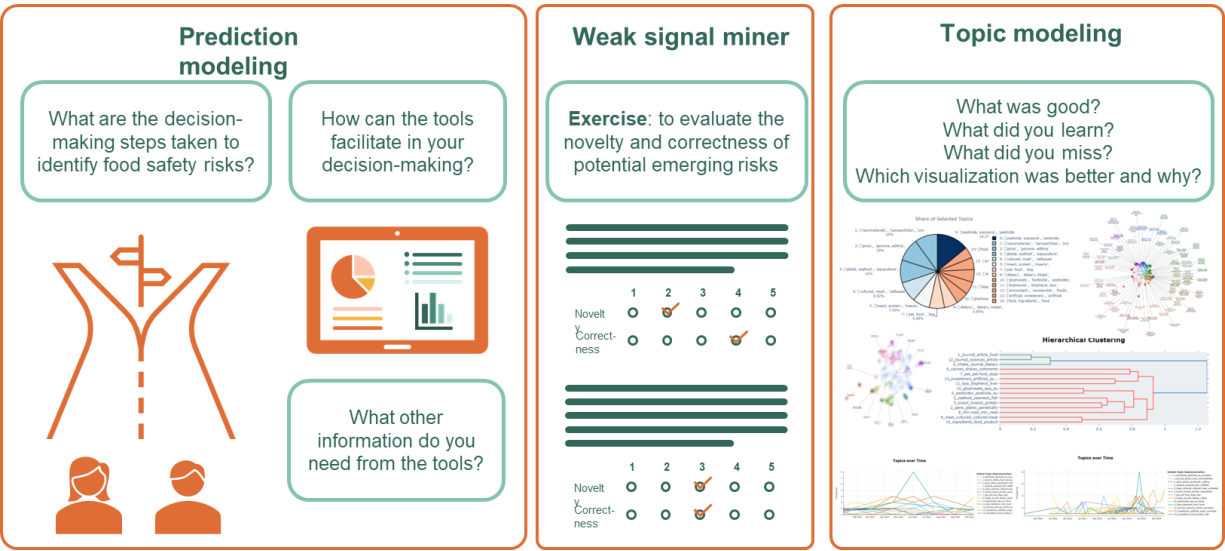# Living Lab #1 – Identification and monitoring of food safety risks
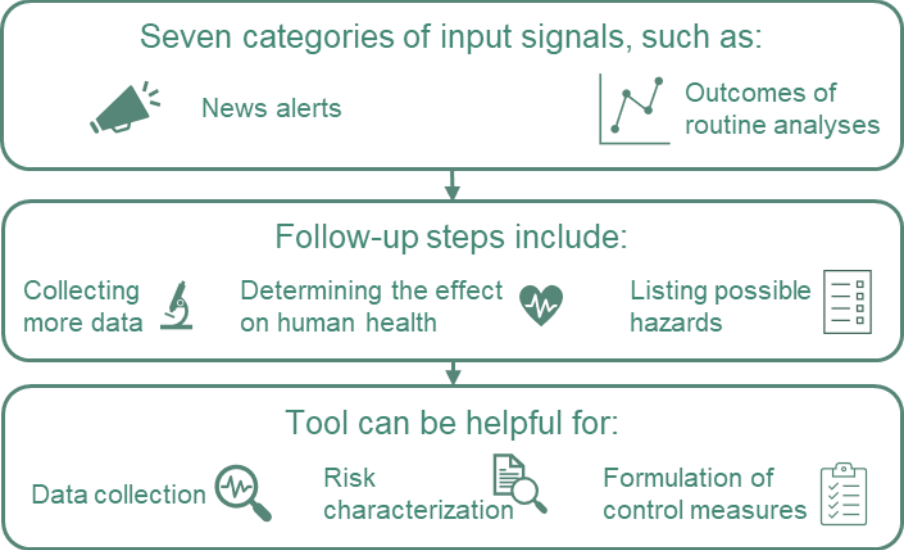
Experimentation phase I workshop - summary

On June 17th 2024, 27 participants attended the first online experimentation workshop. Many expertises including food safety research, risk assessment, risk management, risk communication and tech companies were represented. We presented the currently under development tools (including prediction modeling, weak signal miner, and topic modeling) and asked the participants for feedback on different aspects. Specific goals for each tool are depicted on the right. We used Miro and online forms to gather feedback.
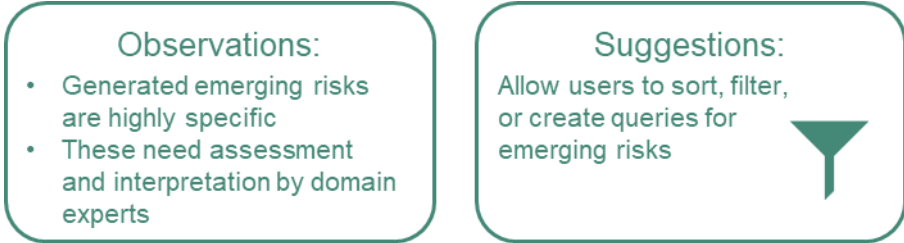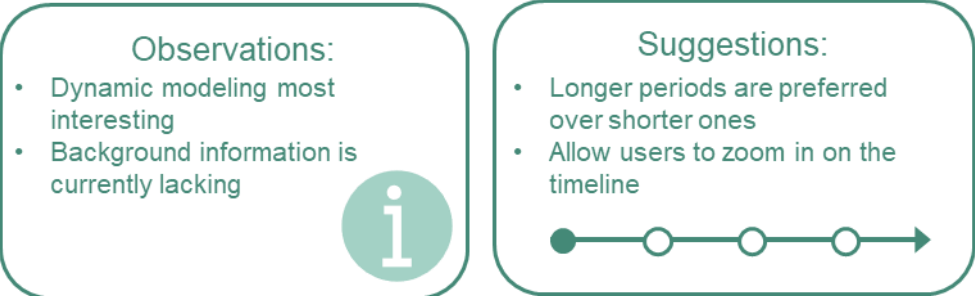

Prediction modeling
- What are the decision-making steps taken to identify food safety risks?
- How can the tools facilitate in your decision-making?
- What other information do you need from the tools?

Weak signal miner
- **Exercise**: to evaluate the novelty and correctness of potential emerging risks

Topic modeling
- What was good?
- What did you learn?
- What did you miss?
- Which visualization was better and why?

Experimentation phase I - results

Prediction modeling:

Seven categories of input signals, such as:
- News alerts
- Outcomes of routine analyses

Follow-up steps include:
- Collecting more data
- Determining the effect on human health
- Listing possible hazards

Tool can be helpful for:
- Data collection
- Risk characterization
- Formulation of control measures

Raw signal miner:

Observations:
- Generated emerging risks are highly specific
- These need assessment and interpretation by domain experts

Suggestions:
- Allow users to sort, filter, or create queries for emerging risks

Topic modeling:

Observations:
- Dynamic modeling most interesting
- Background information is currently lacking

Suggestions:
- Longer periods are preferred over shorter ones
- Allow users to zoom in on the timeline

Stakeholder & Project Team: what can we achieve together?

- Our stakeholders taught us how the tools would be used in practice and what information should be changed or added

- Based on this feedback, we further developed the models and tools

- This allows us to co-create the functionality of the dashboard together

What happens next?

During the next Living Lab activity, we will test the dashboard with the three different tools with a **test case**, providing an **interactive online workshop** to collect feedback on the usability of the dashboard. We want to evaluate how users would use the tools and learn if they are willing to use them and if they able to find risks based on multiple observations at the same time. The workshop will be **online** in **May** or **June 2025**. Participants will obtain **access** to the dashboard and will obtain further **information** after registering for the workshop.

We hope you are interested to join us and further shape our work!