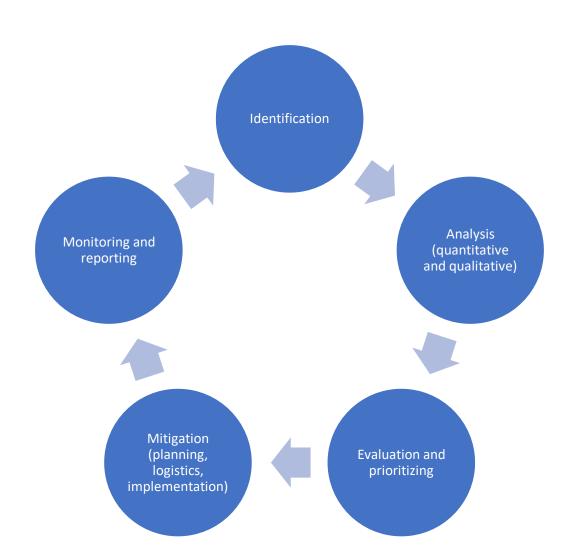
Managing Risks in Food Safety Inspections

Gordana Ristic, MD, PhD
Food Safety and Inspection Reform Consultant
Vilnius, 2025

Risk management in FS inspection

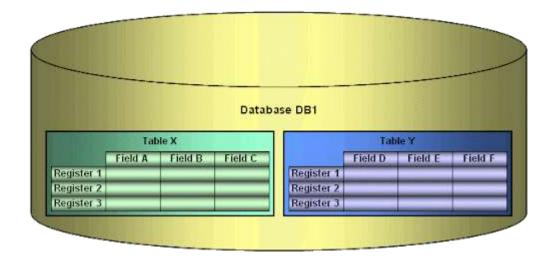


Risk identification

- Basic understanding
- Understanding uncertainties
- Cross-checking with external experiences (international, national)
- Internal cross-checking (with internal programs)
- Full definition of the risk

Risk analysis: qualitative and quantitative

- Food business operators
- Specific areas
- Specific processes (organic, products from raw milk, sprouts, etc.)
- Systems (HACCP, traceability, biosecurity on farms, etc.)
- Particular SOPs
-



Quality of data:
Q1.Validity?
Q2. Reliability?
Q3. Precision?
Q4. Integrity?
Q5. Tomeliness?
Q6. Uniqueness?

Risk-proportionate management of signals

Complaints Incidents **Epidemics** Alerts Recals

Evaluation and prioritizing

Will it comply with regulations and industry standards

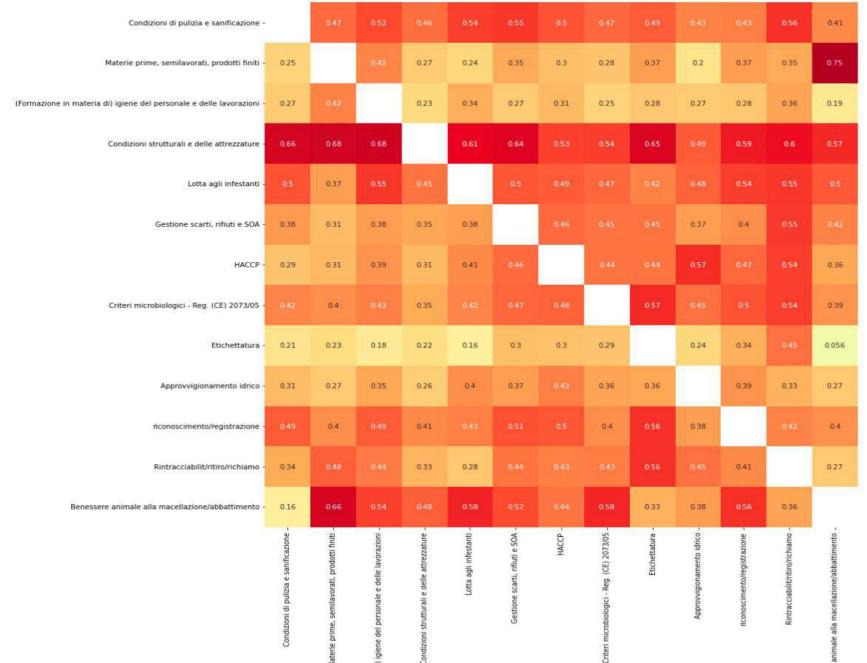
Likelihood of non-compliance

Dairy factory; City water supply factory; Big market selling food and nonfood, small food shop selling only ambientstable food

Very low Very high Medium High Low High High High Lower Upper Upper Medium Medium Medium Upper Lower medium Lower Upper Upper High Medium Medium Medium Medium Lower medium Upper Upper Low Lower Lower Medium Medium Medium Medium Low Low Low Lower Lower Upper Medium Medium Medium

Level of hazard

Heat map: Lombardia and Campania



- 0.7

-0.6

-0.5

-0.4

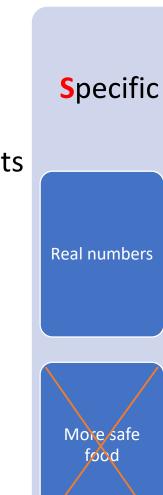
-0.3

-0.2

-0.1

Risk mitigation

- Planning
 - Strategic plans
 - Goals:Outcomes and outputs
 - KPIs
- Logistics
- Implementation
 - Operational plans



Measurab le

> Measure success

How will you know your goal is achieved?

Achievable

Set realistic targets

Not too easy but not too dificult. Enough resources. Assess hurdles. Relevant

The goal serves relevant purpose

Is it applicable to your organization and currently?

Timebound

Set the onset and end (realistic but ambitious)

For the whole plan and each goal

Monitoring and reporting

Indicators (outcomes) to be monitored

Selection

Formulation

Identification of monitoring

methods

Analysis

 Reporting: to what extent outcomes have been realized

- Belgium Food Safety, Animal Health and Plant Health Barometer
- Since 2007
- 30 quantifiable indicators consistent over time (flexible)

Conclusions

- Risk-based inspection concept showed superior results compared to the traditional spot checking
- Engagement of businesses and transparency proved to increase compliance
- Digitalization in governmetal agencies is often in early stages
- Quality data and machine learning can provide useful evidences to sharpen inspection targeting
- Well chosen and flexible indicators, over time, provide strong evidences and point out areas that need further engagement.