

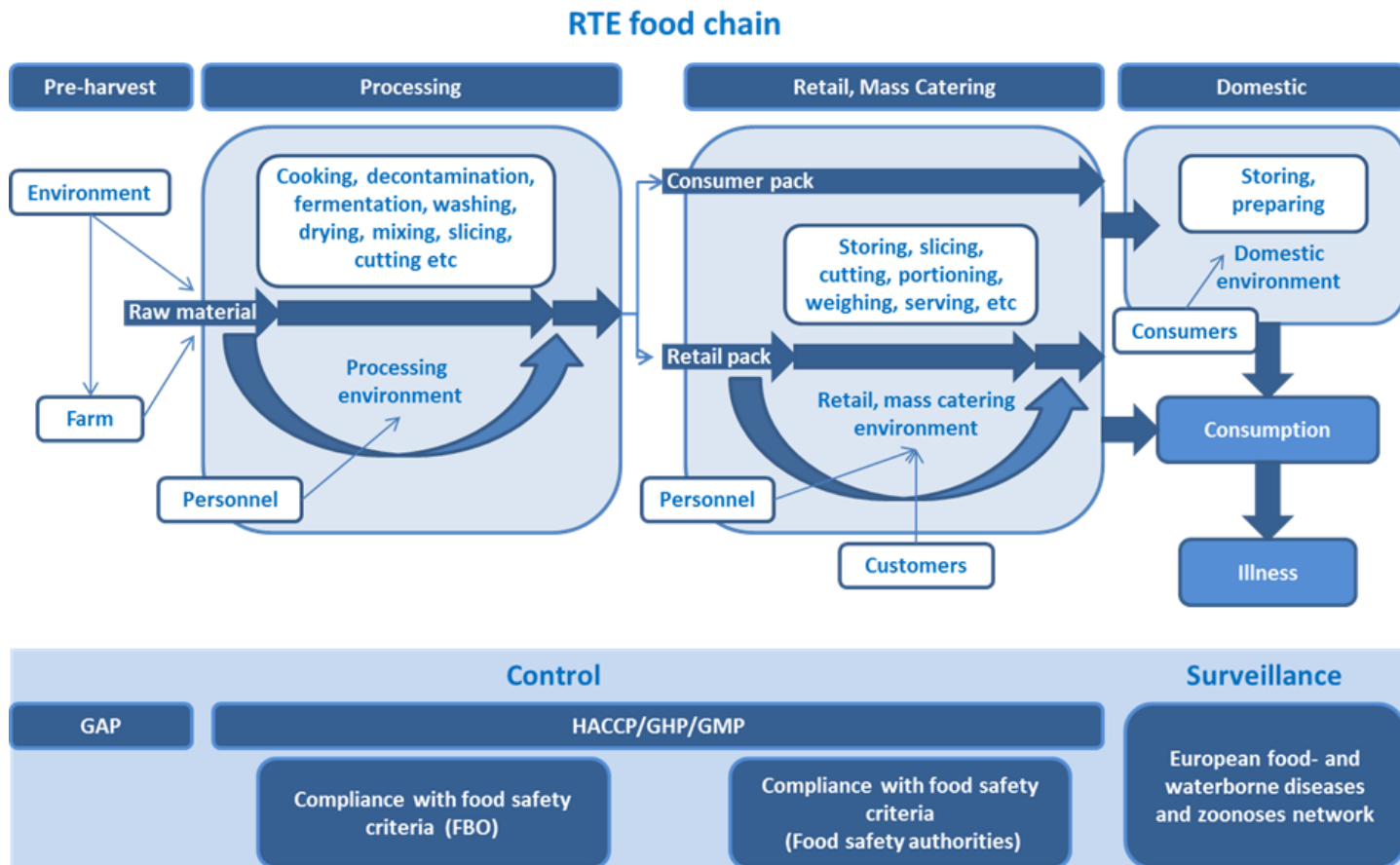
A collage of images representing various aspects of food and agriculture. The collage is composed of several diamond-shaped and rectangular segments. The top left segment shows a blue DNA double helix. The top right segment shows a close-up of a bee's head and thorax, covered in yellow pollen. The middle left segment shows a close-up of golden wheat stalks. The middle right segment shows a bowl of fresh green and purple salad. The bottom left segment shows a white goat's head. The bottom right segment shows a network diagram with blue nodes and lines on a dark blue background. The bottom left corner of the collage shows a slice of cake with red and white frosting and a cherry.

*National Food Agency, Sweden; Chair of
EFSA WG Listeria and BIOHAZ Panel
member*

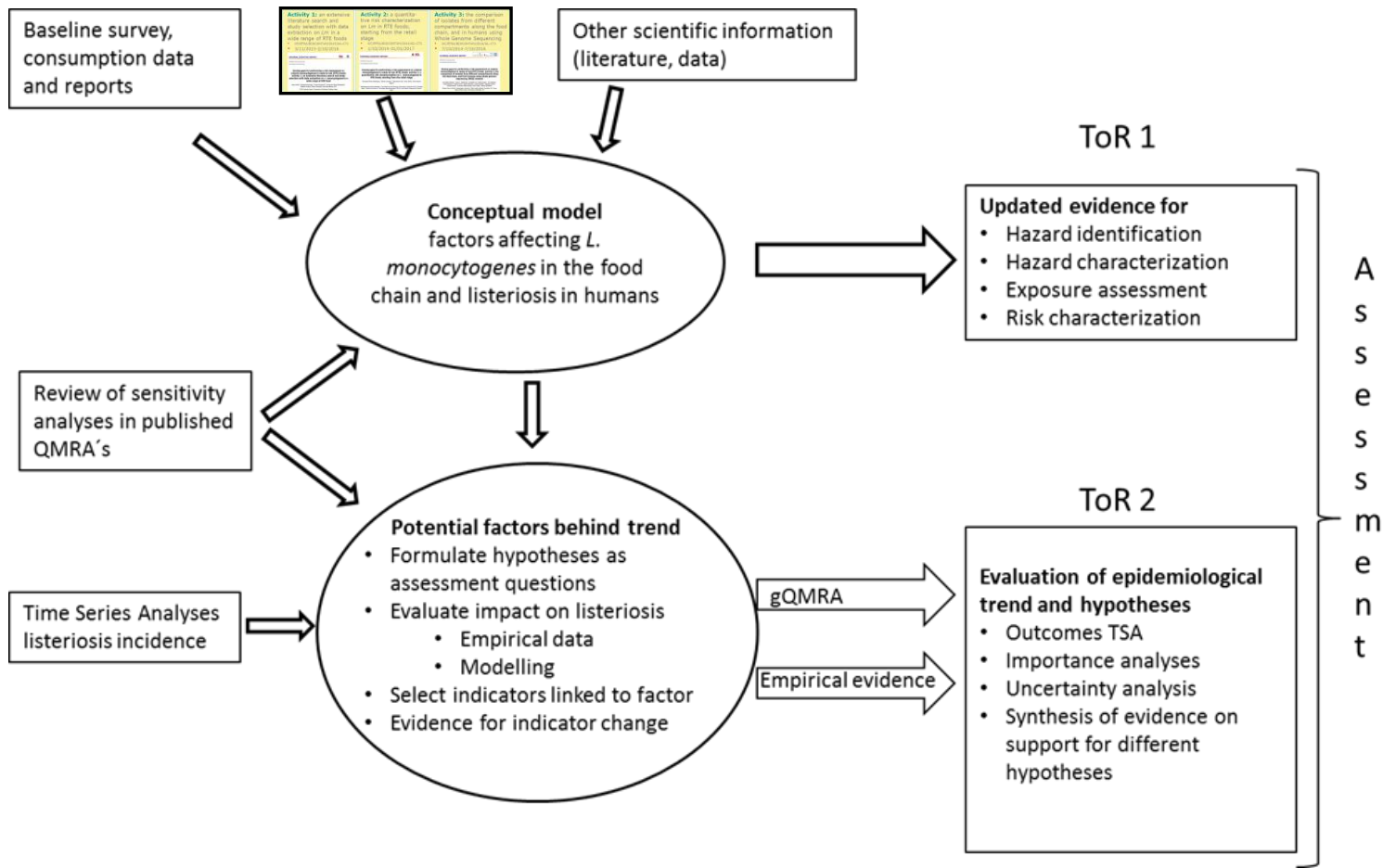


European Food Safety Authority

L. MONOCYTOGENES IN THE RTE FOOD CHAIN



APPROACH TO ToR



APPROACH: IDENTIFYING FACTORS TO EXPLAIN TREND

- Develop conceptual model
- Identify potential factors (model, TSA, review of QMRA's, outsourcing activities)
- Formulate assessment questions (AQ's)

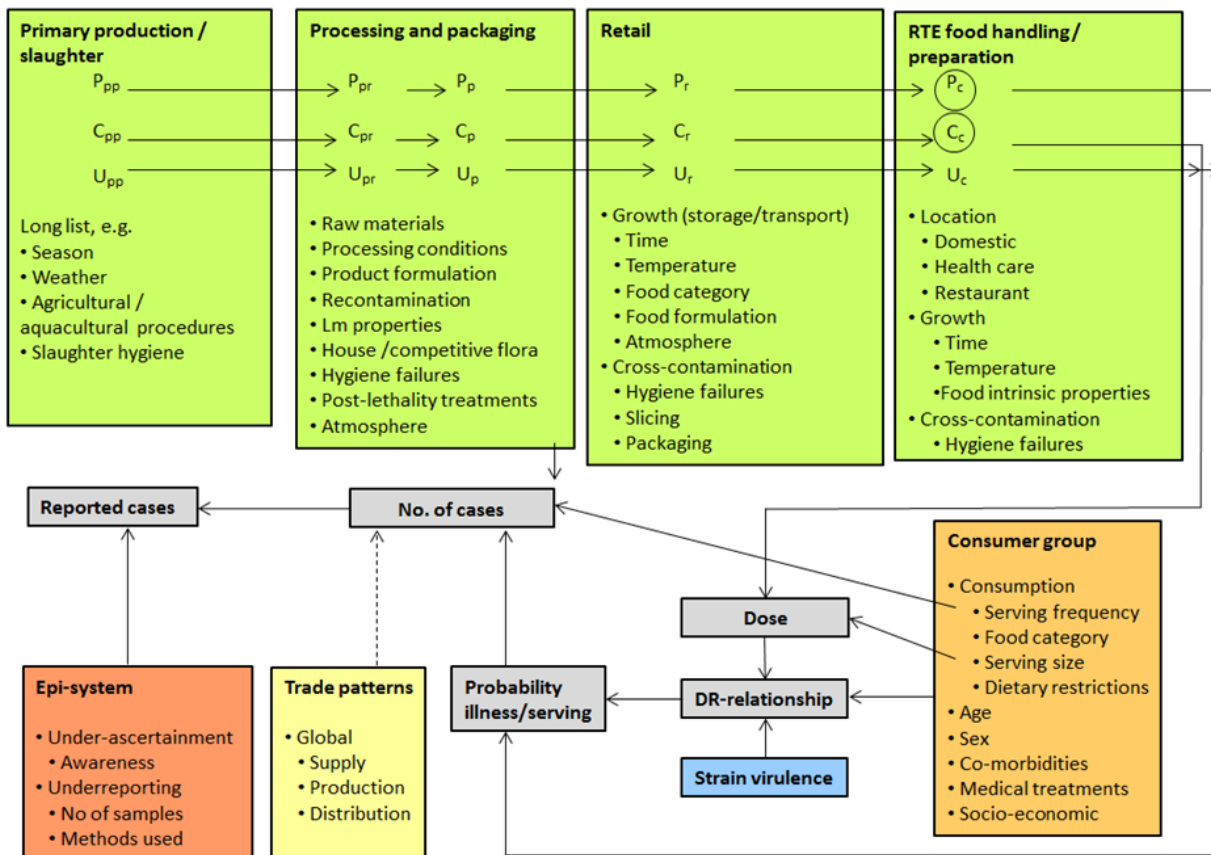


APPROACH: IDENTIFYING FACTORS TO EXPLAIN TREND

- Factors related to host, food, surveillance, bacterium
- AQ's evaluated stepwise
 - 1) Importance analysis
 - 2) Empirical evidence (or indicator data)
 - 3) Synthesis of TSA, importance analysis, empirical data, uncertainty

CONCEPTUAL MODEL

Conceptual model of stages, processes and factors influencing listeriosis incidence



ASSESSMENT QUESTIONS (1)

Host related

- AQ1.1: What contribution did any change in the **population size (i.e. the number) of the elderly and/or susceptible people** make to the change in cases of human listeriosis in the EU/EEA in the time period 2008–2015?
- AQ1.2: What contribution did any change in '**underlying condition rate**' make to the change in incidence rates of human listeriosis in the EU/EEA in the time period 2008–2015?



ASSESSMENT QUESTIONS (2)

Food related

- AQ2.1: What contribution did any change in ***L. monocytogenes* prevalence in RTE food at retail level** make to the change of human listeriosis incidence rates in the EU/EEA in the time period 2008–2015?
- AQ2.2: What contribution did any change in ***L. monocytogenes* concentration in RTE food at retail level** make to the change of human listeriosis incidence rates in the EU/EEA in the time period 2008–2015?



ASSESSMENT QUESTIONS (3)

- AQ2.3: What contribution did any change in **storage conditions (temperature, time) after retail** (i.e. consumer phase) make to the change of human listeriosis incidence rates in the EU/EEA in the time period 2008–2015?
- AQ2.4: What contribution did any change in **consumption (serving size and frequency)** make to the change of human listeriosis incidence rates in the EU/EEA in the time period 2008–2015?



ASSESSMENT QUESTIONS (4)

Surveillance related

- AQ3.1: What contribution did any change of **(improved) surveillance** make to the change of human listeriosis incidence rates in the EU/EEA in the time period 2008–2015?

Bacterium related

- AQ4.1: What contribution did any change in **virulence** make to the change of human listeriosis incidence rates in the group of interest in the EU/EEA in the time period 2008–2015?

