



Current activities in the area of emerging risks

67th Advisory Forum meeting,
Utrecht, The Netherlands,
6 February 2018

Outline

Emerging Risk identification process in EFSA

Updates on ER projects

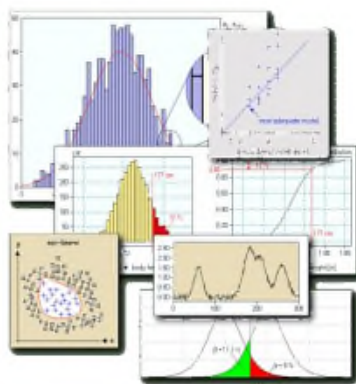
Identified issues

FOOD LAW – ARTICLE 34

Collecting
and
collating



Analyse
and filter

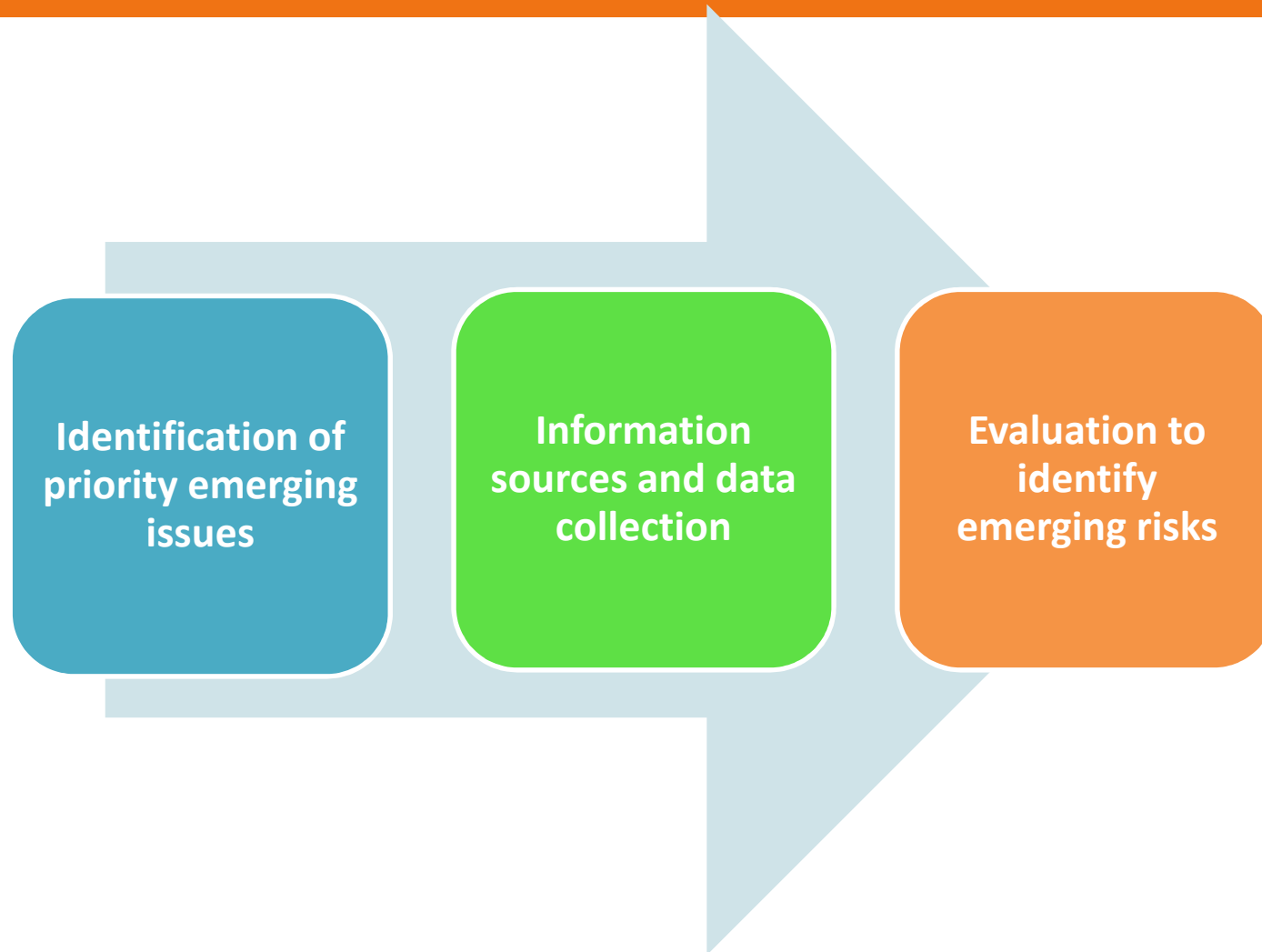


Sharing



Develop	✓	✓	✓
Implement	✓	✓	✓

EMERGING RISKS PROCESS



Identification

Networks of Knowledge



Emerging Risks Exchange Network (EREN) Member states



Stakeholder Consultative Group on Emerging Risk (StaCG-ER) - Civil society & Private sector

Identification of
priority emerging
issues

- Networks of knowledge
 - Standing working Group on emerging risks



Identification of
priority emerging
issues

■ Networks of knowledge



Food and Agriculture
Organization of the
United Nations

CODEX Alimentarius



ICFSLG

International
chemical food safety

liaison group



**World Health
Organization**

CLEFSA

CLimatE change
and Food Safety

IMFSLG

International
microbiological food
safety liaison group

Identification of
priority emerging
issues

- Networks of knowledge



European Environment Agency

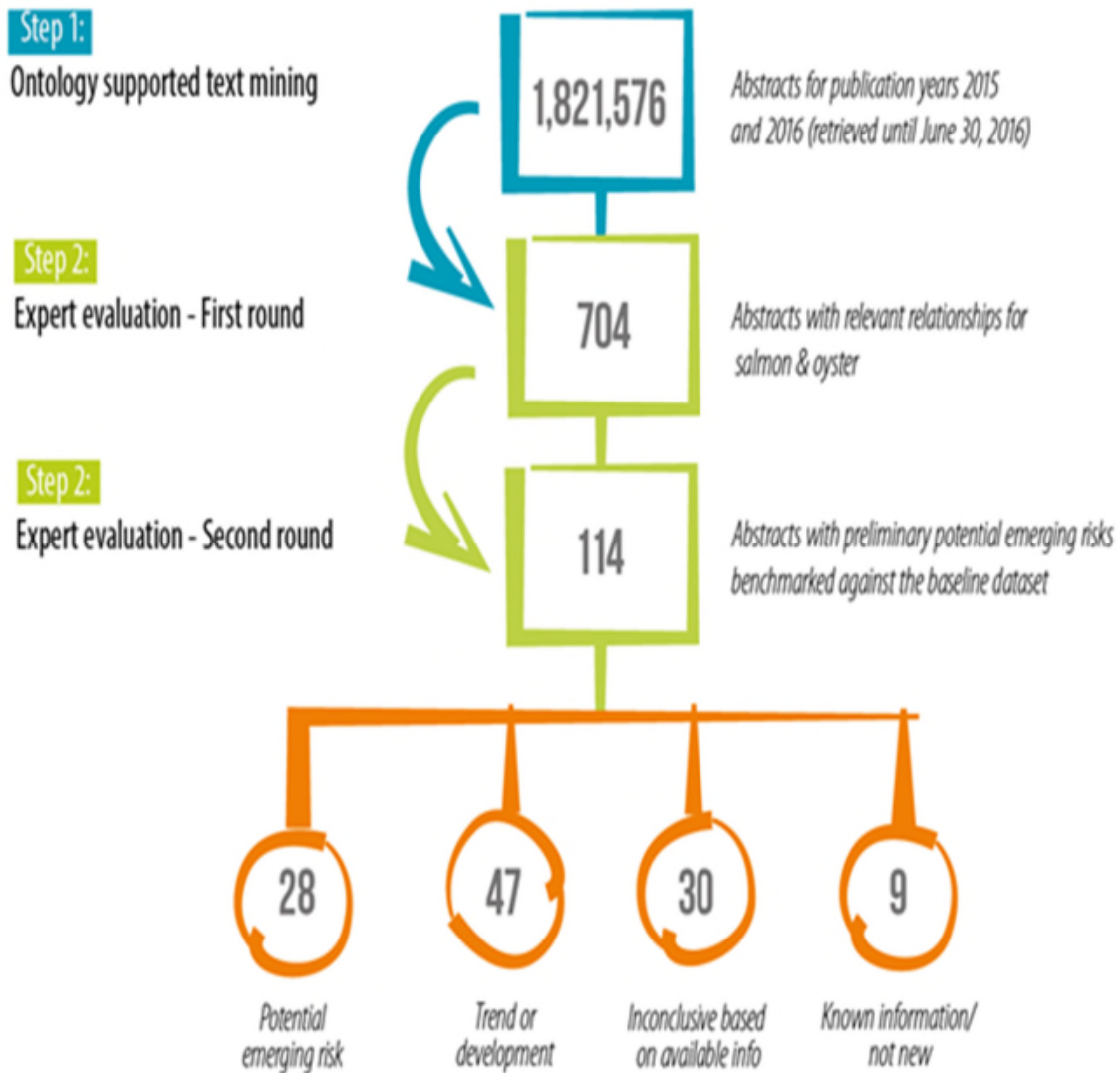


**Identification of
priority emerging
issues**

- Automated issues identification
 - Text mining of media-Media monitoring (MedISys)
 - Text mining of scientific literature(TNO-ERIS)
 - Identification of chemical risks -Data mining (REACH database)

ERIS – TEXT MINING

**Identification of
 priority emerging
 issues**



Identification of
priority emerging
issues

- Automated issues identification
 - Analysis of RASFF notifications
 - Analysis of import data, commodity price trends
 - General Morphological Analysis: Drivers for emerging biological risks, Ebola virus spillover
 - Whole food Chain Analysis – AQUARIUS

AQUARIUS: Salmon Food Chain



Food chain

Vulnerabilities

Drivers

Data sources
(to monitor drivers)

**EMERGING
RISK?**



Information
sources and data
collection

■ Data collection

- Omics Technologies
- Human biomonitoring
- Cyanotoxins
- Non-monotonic dose response
- Consumption surveys (energy drinks)
- Ciguatera
- Climate Change and food safety



Evaluation to
identify emerging
risks

■ Criteria

- Novelty
- Severity
- Scale
- Imminence
- Soundness

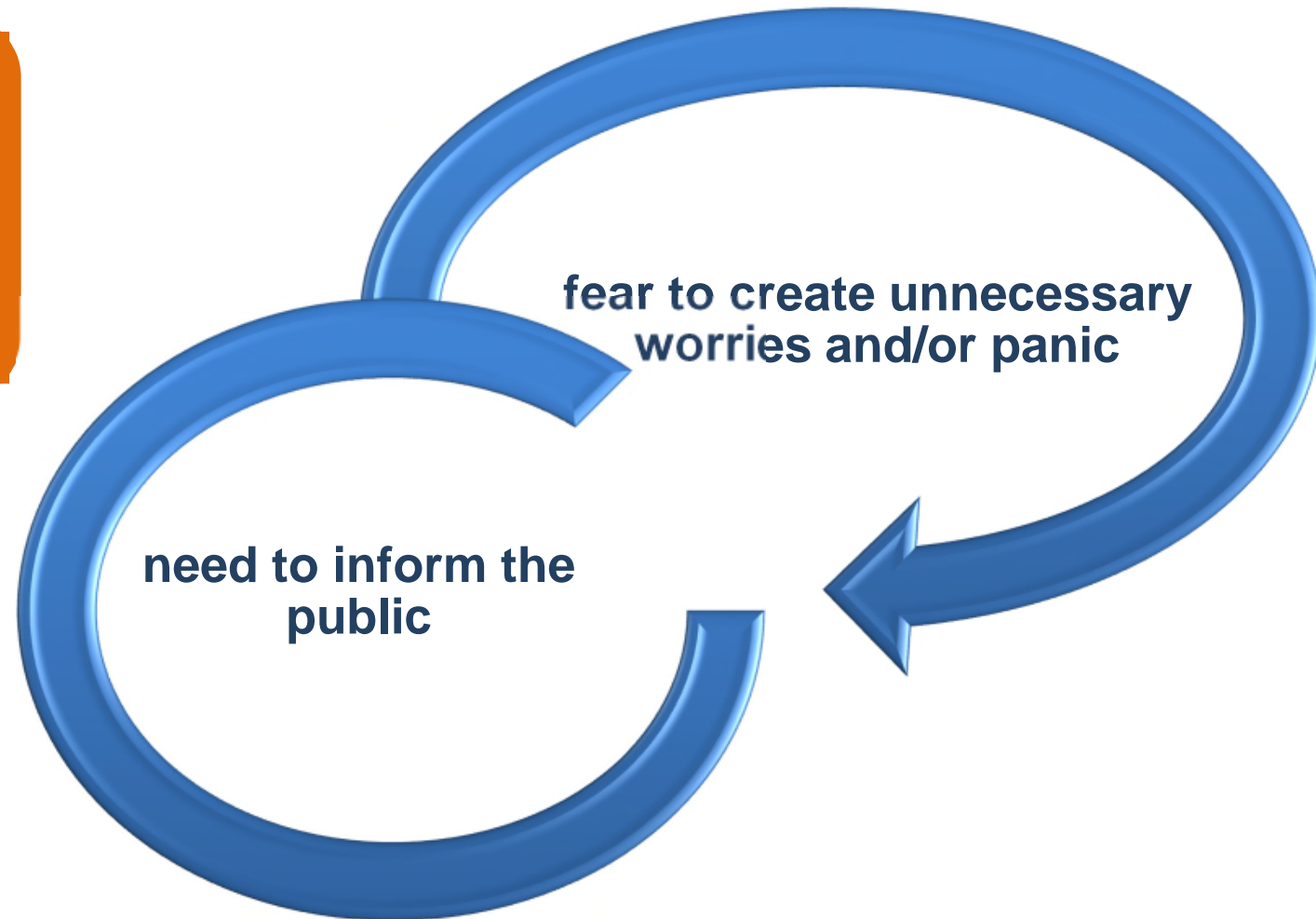


Evaluation to
identify emerging
risks

UNCERTAINTY

**RISK
PERCEPTION**

Communication



IDENTIFICATION OF EMERGING RISKS

	Deadline
Aquarius – Global chain analysis of selected species from saltwater aquaculture: identification and monitoring of vulnerabilities and drivers of change for the identification of emerging risks (NL)	2018
ERIS – Emerging Risks Identification System (Testing a text mining tool for emerging risk identification) (NL)	2018
CROWDSOURCING: Engaging communities effectively in food and feed risk assessment (UK)	2018
Machine learning (MLT) for Systematic literature Reviews in EFSA (EFSA)	2018

IDENTIFICATION OF EMERGING RISKS

	Deadline
EUROCIGUA - Ciguatera Food Poisoning in Europa (ES +)	2019
REACH 2 (Applying a tested procedure for the identification of potential emerging chemical risks in the food) (DE)	2019
Medisys - Horizon scanning - media monitoring for listed and unknown plant pests (JRC)	2019
CLEFSA – Climate change as a driver of emerging risks for food safety (EFSA + networks)	2019
DEMETER – DEtermination and METrics of Emerging Risks (NL, UK, DE, HU)	2020

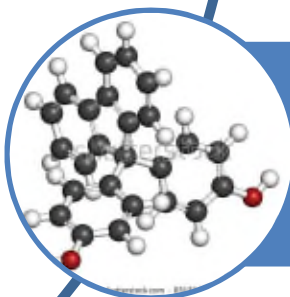
Potential Emerging issues (recent examples)



ELECTRONIC WASTE



NATURAL OCCURRENCE OF
BISPHENOL F IN MUSTARD



PLASTIC RICE – FAKE NEWS !

RECENTLY PUBLISHED

- [EFSA's Activities on Emerging Risks in 2016](#)
- [Emerging Risks Exchange Network \(EREN\)](#)
- [Stakeholder Discussion Group on Emerging Risks](#)

WORKFLOWS x Emerging risks | Europea x screen capture in window x


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Emerging risks

The successful identification of emerging risks is at the heart of protecting public health and the environment. By identifying emerging risks in the food chain early, EFSA supports risk managers in anticipating risks and taking effective and timely prevention measures to protect consumers. Identifying emerging risks also helps to improve EFSA's ability to meet future risk assessment challenges. EFSA defines an emerging risk as: "A risk resulting from a newly identified hazard to which a significant exposure may occur, or from an unexpected new or increased significant exposure and/or susceptibility to a known hazard."

Networks Activity reports Methodologies **Completed work**

[Emerging risks: nominations open for stakeholder group](#)
19 January 2018

Disco EFSA

Subject area

Cross-cutting

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published: 19 Jan

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