

Risk based concepts in risk management

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Risk assessment perspective

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Collaboration between Risk assessment and Risk management

Risk Communication

Exchange of information regarding risks, other factors, risk perception, between risk assessors, risks managers, science, industry and consumers

Risk Assessment

Science based

Risk Management

Policy based
Consideration of other factors

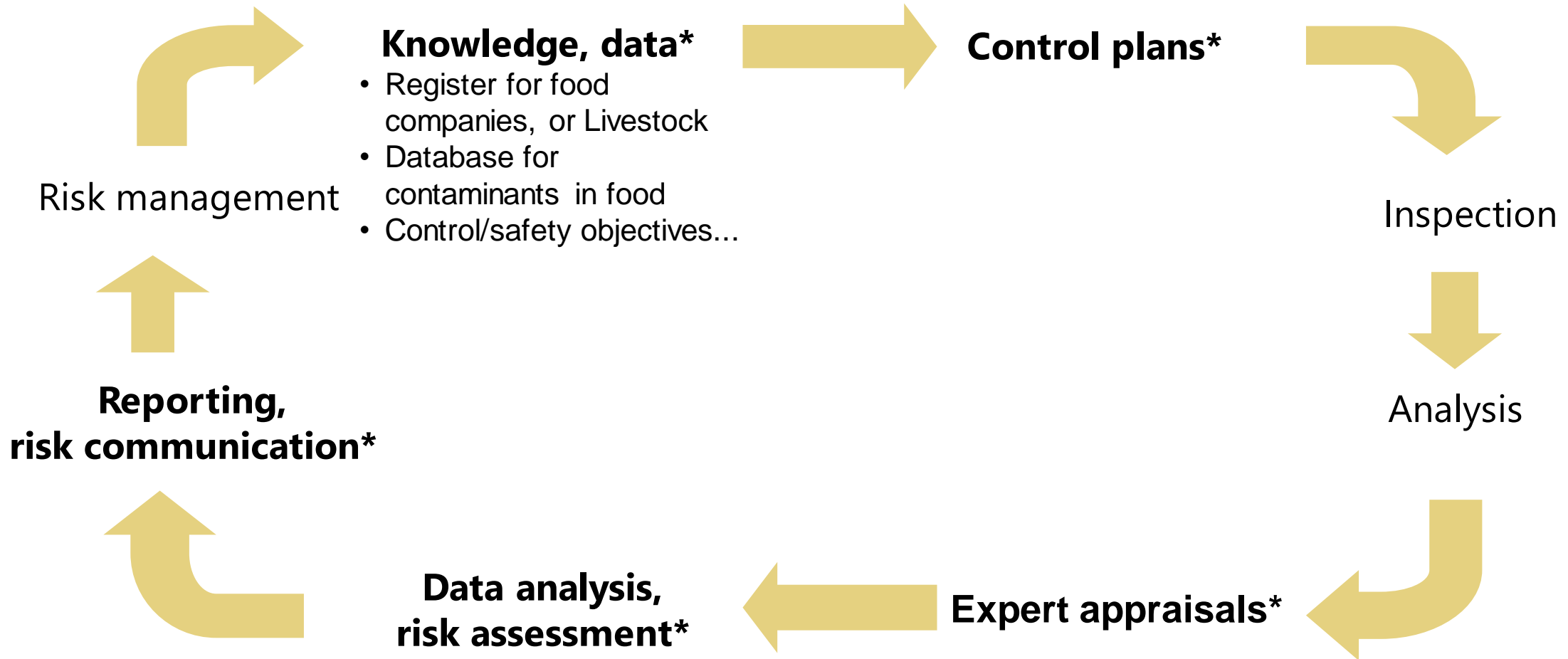
Aim:
Risk reduction

Compare WHO, 30.3.2016,

<http://www.fao.org/food/food-safety-quality/capacity-development/risk-analysis/en/>

Risk based concept in food safety

Continuous improvement of control systems



Each loop increases knowledge and will continually improves food safety

* Task or major contribution of risks assessment

Collaboration and “functional separation of RA and RM

National level: More or less formal,

- ☞ Setting or enforcing legislation
- ☞ “use” or “translation” of international assessment for national questions (e.g. different exposure?)
- ☞ In case of emergence: Urgent advice, time pressure and lack of information

Expectations

- ☞ clear and instant answers
- ☞ support in problem solving
- ☞ shared responsibilities!

Formal, long term Process:

- ☞ A Risk Assessment Unit is a long term investment in food safety
- ☞ Clear separation of work and responsibility
- ☞ e.g. Process of European Union
 1. Request
 2. Acceptance
 3. Definition of terms of reference
 4. Establishing a working group
 5. Public consultation on the results
 6. Publishing the risk assessment
 7.

International collaboration on different stages of Risk Assessment

Focus on national level



	Risk Assessment Steps	Activities	National/ International
1	Hazard Identification	Identification via international Network (RASFF, EFSA, WHO,...), Collection of relevant information	international, EFSA, national
2	Hazard Characterisation	Describe hazards according to different research reports, toxicological studies, etc.	international, EFSA, national
3	Exposure Assessment	Analyse of national Exposure(s)	National, EFSA
4	Risk Characterisation	Description of Risk for national citizens	National, EFSA

Scientific support for decision making

Solution-oriented evaluation of data and knowledge about risks

Risk assessment

- Scientific process
- Providing scientific advice to support decision-making



Risk Management

- Policy making
- Setting or enforcing legislation
- Product approvals and authorizations
- → enforceable legislation
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Method of choice

- Scientific risk assessment

Challenges

- Risk assessment not possible (e.g. lack of data, lack of scientific information)
- Different or even contradictory opinions

Other Approaches:

- Precautionary principle (RM)
- ALARA method – As Low As Reasonably Achievable (RM, with RA-Support)
- Data collection (RM, RA - Support)
- Consideration of socio-economic factors (RM)

RM Risk Management
RA Risk Assessment

Responsibility:

- Government
- Governmental expert committees, e.g.
 - EU: Standing Committee on Plants, Animals, Food and Feed
 - Austria: Food Codex

→ (Scientific) Panels for the objectification of different scientific results and expert opinions

Resources for Risk Assessment



☞ Knowledge and data

- Registers for farms, food companies, livestock,
- Database for bacterial and chemical contaminants in food
- Food consumption data
- International Risk Assessment Opinions and Scientific Studies

☞ Experts from different fields

- Hygiene, Microbiology, Toxicology, Chemistry, Nutrition
- Animal Health, food production, Agronomy,
- Statisticians, Data managers

☞ Experts with many years of experience and courage

- to reach defensible results and decisions (in their field of competence)

☞ (Scientific) Panels for the objectification of different scientific results and risk assessment opinions

- Representatives from
- Risk Assessment, Risk Management
- Science
- Producers and Consumers

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