

Principles and process for dealing with data and evidence

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SCIENTIFIC REPORT



APPROVED: 23 April 2015 doi:10.2903/j.efsa.2015.4121 PUBLISHED: 03 June 2015

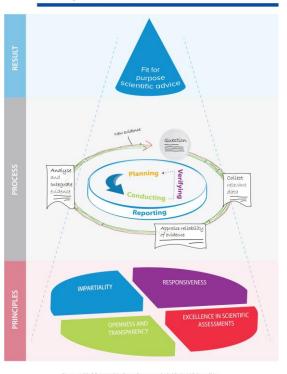
Principles and process for dealing with data and evidence in scientific assessments

European Food Safety Authority (EFSA)

EFSA Journal 2015;13(5):4121[36 pp.]. doi:10.2903/j.efsa.2015.4121

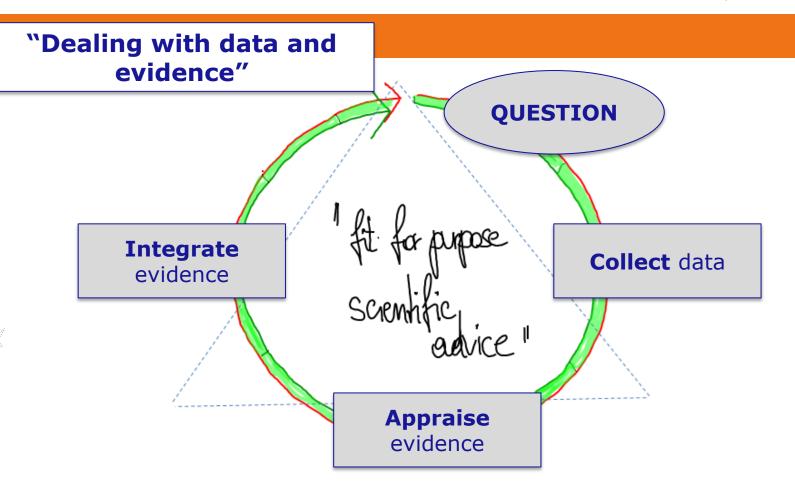
□DLV 1 of EFSA PROMETHEUS project □Prepared by a task force of EFSA staff □ Endorsed by EFSA SC

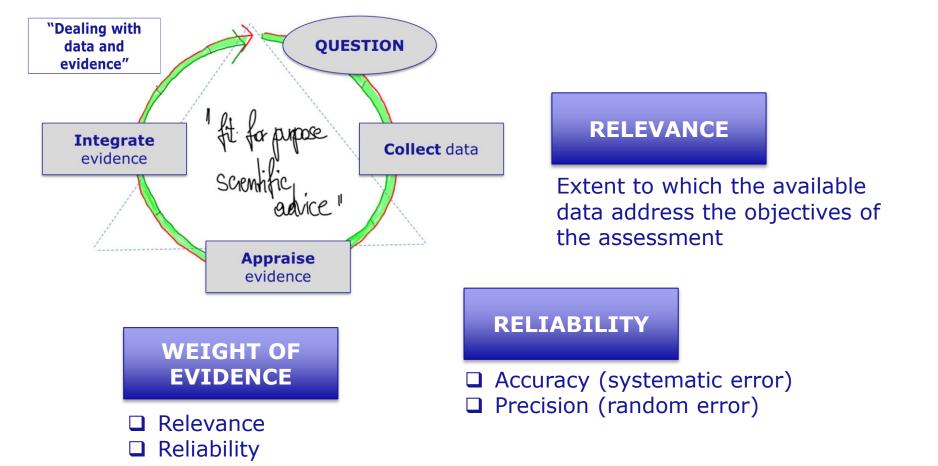
Promoting Methods for Evidence Use in Scientific assessments

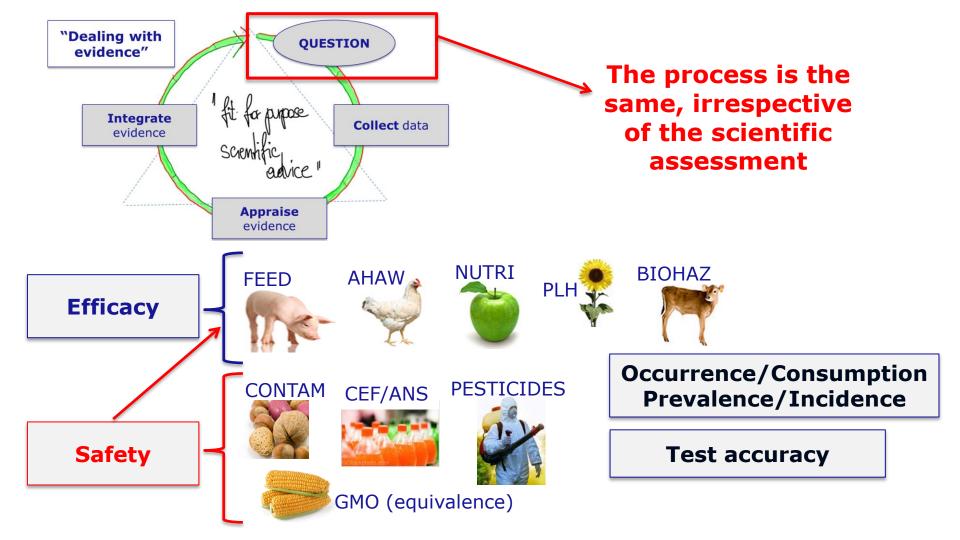


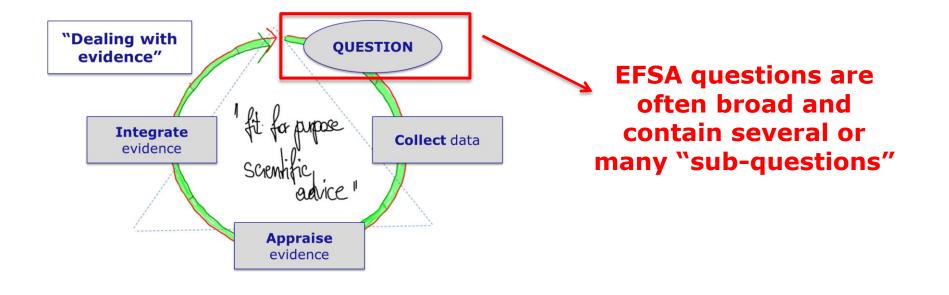
with national authorities and in open consultation with its stakeholders, EFSA provides dependent scientific advice and dear communication on existing and emerging ma











A sub-question is a scientific question that can be answered by an experiment or observational study (or as a single question in an expert elicitation study) without being further broken down





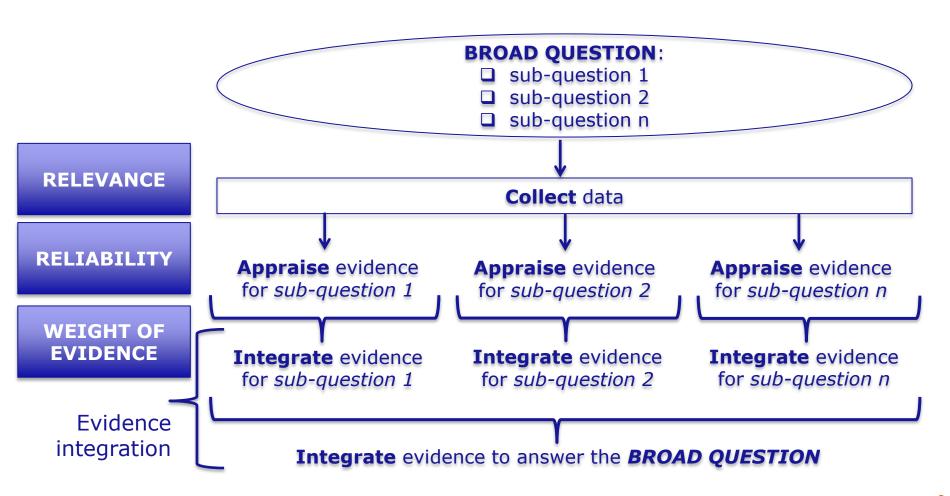
EXAMPLES OF EFSA SUB-QUESTIONS

CHEMICAL RA

- Association exposure-outcome in humans
- Association exposure-outcome in animals
- Association exposure-outcome in vitro
- etc
- → for H IDENTIFICATION
- Occurrence
- Consumption
- etc
- → for EXPOSURE ASSESSMENT

IMPORT Risk Analysis

- Prevalence in country of origin
- · Diagnostic test accuracy in point of entrance
- Efficacy of control measures
- etc
- → for RELEASE ASSESSMENT

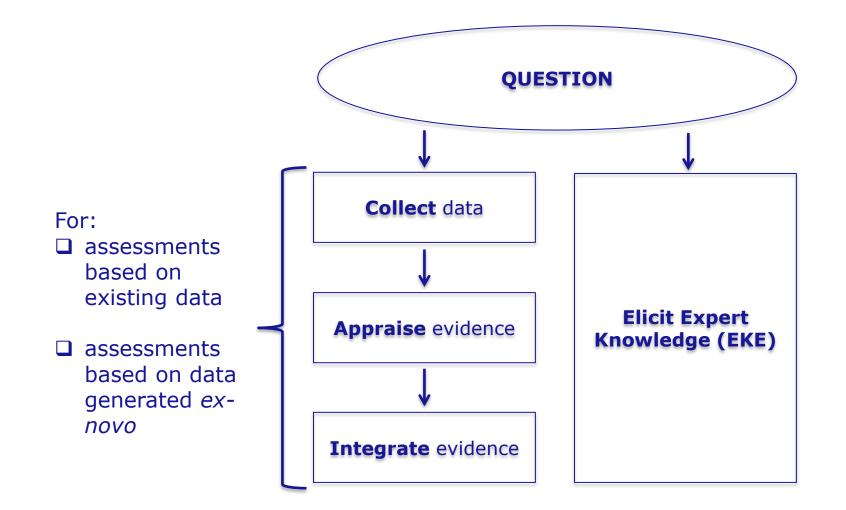






USE OF EXPERT JUDGMENT

- To make all decisions in each step of the "collect/appraise/integrate" process
- As input to the assessment, when data are not available/accessible







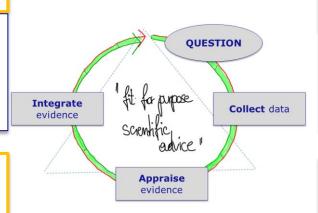
PRINCIPLES FOR DEALING WITH EVIDENCE

Impartiality

Extent to which the assessment is free from preconceptions due to pre-knowledge of results

Openness and Transparency

- Engaging with relevant parties
- Clarity and reproducibility



Excellence (Methodological quality)

Use of sound methodological approaches to produce reliable results

Responsiveness

Extent to which the assessment answers the original question in a timely manner



HOW TO FOSTER IMPARTIALITY



ITERATIVE PROCESS

- Expert knowledge
- Literature scoping
- ☐ Dialogue with requestors

QUESTIONS for breakout groups:

- ☐ Is the strategy definable upfront?
- ☐ If not, what are the risks?





Impartiality

Integrate
evidence

Scennic

Appraise
evidence

Excellence (Methodological quality)

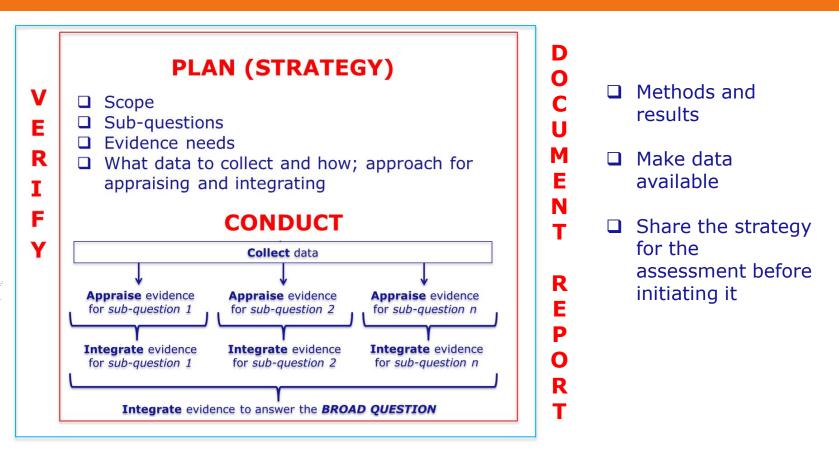
Openness and Transparency

- ☐ Engaging with relevant parties
- ☐ Clarity and reproducibility

Responsiveness



HOW TO FOSTER TRANSPARENCY AND OPENNESS







PRINCIPLES FOR DEALING WITH EVIDENCE

Impartiality

QUESTION fit for purpose Integrate Collect data evidence **Appraise** evidence

Openness and Transparency

Excellence (Methodological quality)

Use of sound methodological approaches to produce reliable results

Responsiveness

Extent to which the assessment answers the original question in a timely manner

V E R I F Y

PLAN (STRATEGY)

- Scope
- Sub-questions
- Evidence needs
- What data to collect and how; approach for appraising and integrating
 - > Tailor the methodology to deliver an assessment that is fit-for-purpose

CONDUCT

APPROACH 0 (simplest)	APPROACH 1 (more complex)	APPROACH <i>n</i> (most complex)
e.g. use expertise of the WG	e.g. "rapid review"	e.g. "systematic review"

M R





PROMETHEUS APPROACH IN THE EFSA CONTEXT

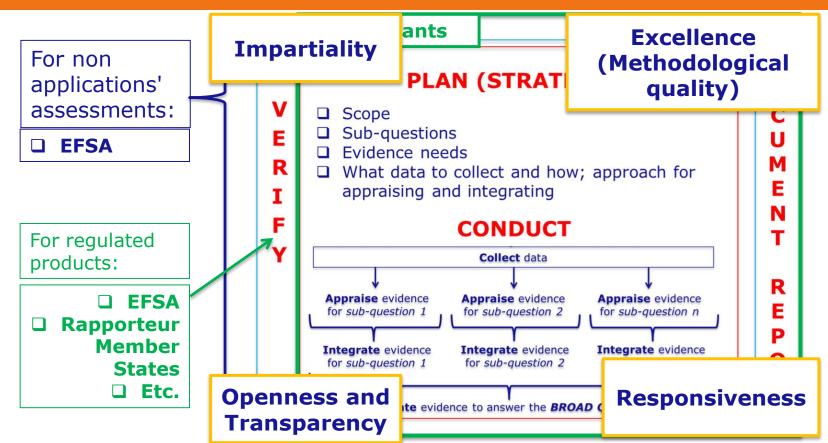
EFSA conducts 2 types of assessment

- "Non-applications" assessments
- Regulated products





DIFFERENT "ACTORS" IN EFSA ASSESSMENTS







GRAZIE MILLE

ANY QUESTIONS?



Acknowledgements:

- AMU PROMETHEUS team: Laura Martino, Fulvio Barizzone, Laura Ciccolallo
- Andy Hart