Vitenskapskomiteen for mattrygghet

Norwegian Scientific Committee for Food Safety

The ERIN system to identify, describe and rank new plant health threats in Norway

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PhD

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Ensuring the safety of our food and environment

Our mission

(Norwegian scientific committee for food safety)

VKM carries out high quality scientific risk assessments for the Norwegian Food Safety Authority (Mattilsynet) and the Norwegian Environment Agency

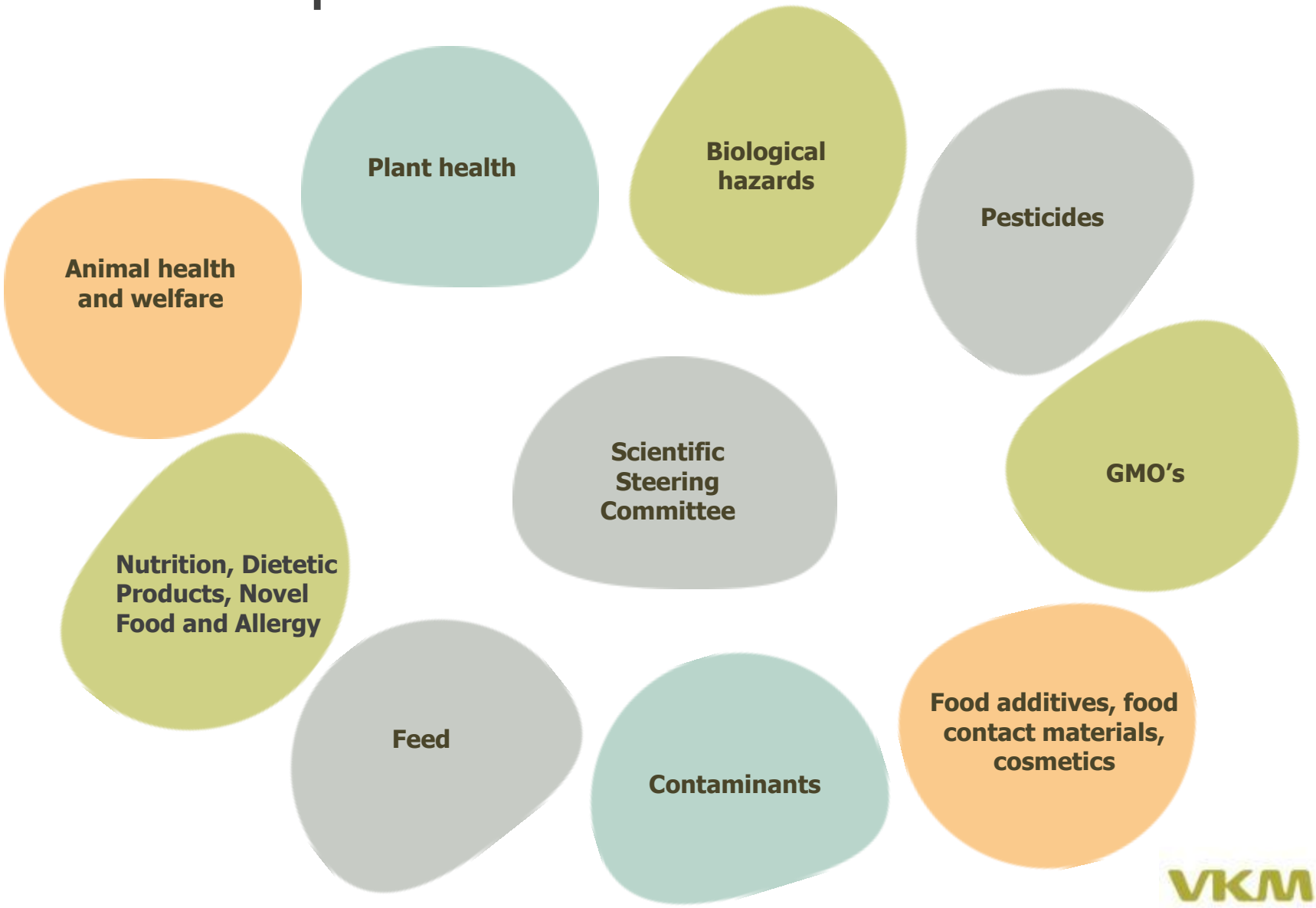
Scientific

- VKM's work is based on state-of the-art international principles, methodology, terminology and scientific knowledge
- The work from EFSA (e.g. opinions, guidelines, colloquiums) are very useful
- Important: VKM should not duplicate work from EFSA

Independent

- Administratively under the Ministry of Health and Care Services
- State funded. Yearly budget approximately 2.5 mill Euro
- No one can instruct the Committee on scientific matters
- Work on requests from Norwegian Food Safety Authority and Norwegian Environment Agency
- VKM can self-task risk assessments on its own initiative

Scientific panels



VKM

(A little bit) driven by coincidence

« Previous News

Tue, 12 May, 2015 12:40:31 AM

Asian long-horned beetle found in Chinese stoneware packaging

Next News »

FTimes – STT Report, May 12

The Finnish food safety authority, Evira, has found for the first time live larvae of the Asian long-horned beetle in wooden boxes, which are used as packaging for transporting Chinese stoneware. Photo – Lehtikuva.

The Finnish food safety authority, Evira, has found for the first time Asian long-horned beetle in wooden boxes used as packaging for transporting Chinese stoneware.

The beetles are very destructive to deciduous trees. The large-sized larvae live inside the trunk of the tree, carving out sizeable corridors causing the branches to wither, and, eventually, the death of the tree.

Chinese stoneware importing and processing companies have been asked to observe whether insects are living in their wooden boxes or of any corridors made in the sawdust. They are to report their findings to Evira.

Asian long-horned beetles have known to spread through packaging materials already to Germany, Holland, France, Austria, Italy and England.

News / GTA

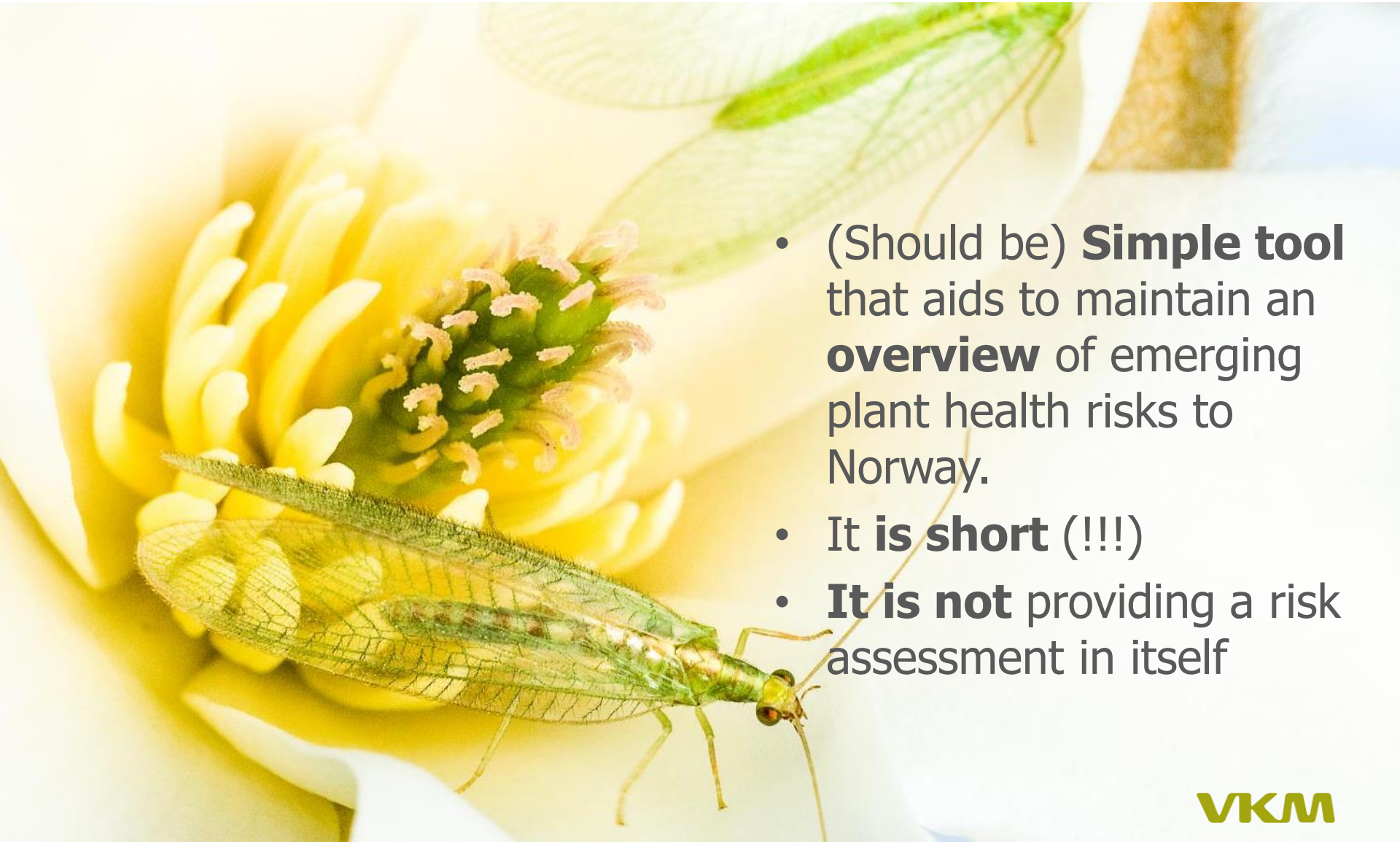
'Dangerous and invasive' Khapra beetle intercepted at Pearson

Native to India, hardy beetle will attack almost any kind of stored food product and is hard to kill.

U.S. DEPARTMENT OF AGRICULTURE

Trogoderma granarium (the Khapra beetle) is a scourge in many Asian countries.

Emerging Risks In Norway (ERIN)



- (Should be) **Simple tool** that aids to maintain an **overview** of emerging plant health risks to Norway.
- It **is short** (!!!)
- **It is not** providing a risk assessment in itself

Emerging Risks In Norway (ERIN)

- aims to **rank and prioritize** plant health threats according a set of criteria defined including an uncertainty score.
- a **self-initiated task** by the Plant Health Panel

The design

- The system is designed to deal with organisms newly identified as plant pests, “door knockers” which are potential invasive alien species
- unexpected changes for species already present in the country.
  - change in climate that can trigger change in distribution and behaviour; increased import of a given commodity that can increase entry rate; reduced access to effective plant protection products and resistance development.

The design

- The system will contain a list of candidate organisms.
- A text describing significant information for each species, inspired by the EPPO Alert list
- Link or citation to existing international data sheets.
- Summary overview table listing score values for each species.
- The overview table is regularly updated by including or removing species. **Dynamic**

1. Taxonomic position

2. Status in Norway

3. Area of native distribution

4. Sector(s) in Norway expected to be impacted

5. Host(s) and/or type of environment(s) in Norway

6. Description of damage

7. Probability of entry and establishment

8. How fast is the pest expected to expand

9. How large percent of potential environment is expected to be colonized ?

10. How great a negative effect is the pest likely to have on economy ?

11. How important is the environmental impact ?

12. How important is social damage likely to be ?

How does it work?

7a. How is the overall probability of entry in Norway, or in a defined part of Norway?

0. not relevant ☐	1. very low ☐	2. low ☐	3. medium ☐	4. high ☒	5. very high ☐

Level of uncertainty:	Low ☐	Medium ☒	High ☐

7b. How is the overall probability of establishment in Norway, or in a defined part of Norway?

0. not relevant ☐	1. very low ☐	2. low ☐	3. medium ☐	4. high ☒	5. very high ☐

Level of uncertainty:	Low ☐	Medium ☒	High ☐

Short description of factors for the probability assessment:

9. How large percent of potential environment type in Norway, or in a defined part of Norway, is expected to be colonized?

< 5 % ☒	5 - 10 % ☐	10 - 20 % ☐	20 - 40 % ☐	> 40 % ☐

Level of uncertainty:	Low ☐	Medium ☐	High ☒

10. How great a negative effect is the pest likely to have on <u>economy</u> including costs of control measures for the impacted sector in Norway, or in a defined part of Norway? Rate possible effects:

0. not relevant ☐	1. minimal ☐	2. minor ☒	3. moderate ☒	4. major ☐	5. massive ☐

Level of uncertainty:	Low ☐	Medium ☐	High ☒

Short description of negative effects on economy:

11. How important is the <u>environmental impact</u> likely to be in Norway, or in a defined part of Norway? Rate possible effects:

0. not relevant ☐	1. minimal ☒	2. minor ☐	3. moderate ☐	4. major ☐	5. massive ☐

Level of uncertainty:	Low ☐	Medium ☒	High ☐

Short description of environmental impacts:

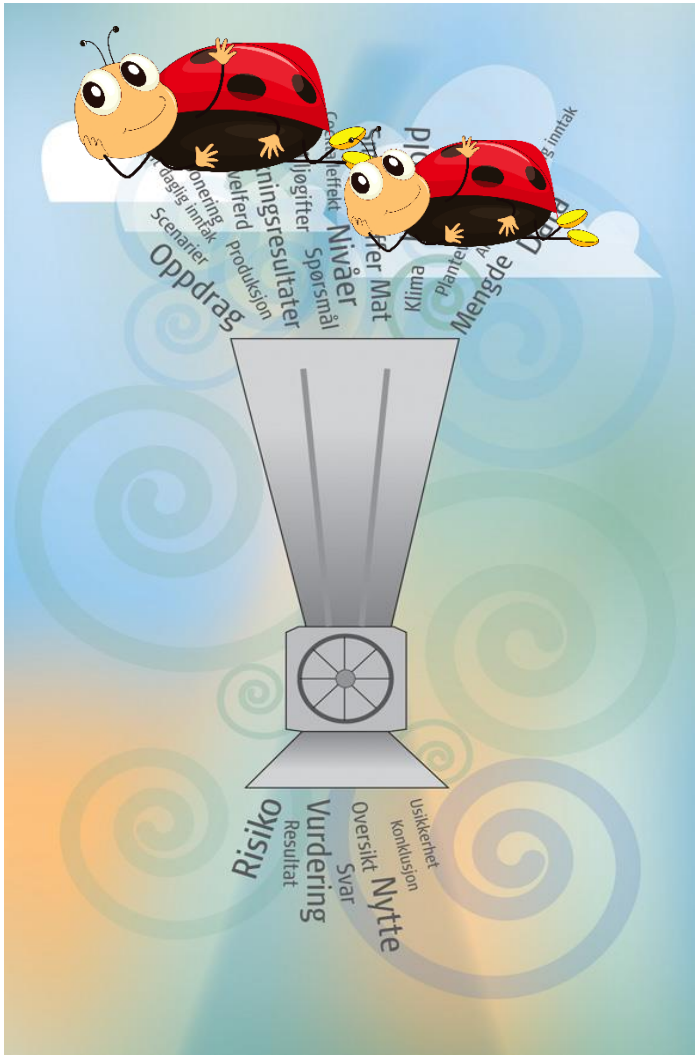
12. How important is <u>social damage</u> likely to be in in Norway, or in a defined part of Norway? Rate possible effects:

0. not relevant ☒	1. minimal ☐	2. minor ☐	3. moderate ☐	4. major ☐	5. massive ☐

Level of uncertainty:	Low ☐	Medium ☒	High ☐

Short description of social damage:

MEDISYS


Oppdrag
Scenarier
Dagelig inntak
Eksponering
Velferd
Produksjon
Ernæringsresultater
Sporsmål
Nivåer
Kjemi
Mengde
Risiko
Resultat
Vurdering
Svar
Oversikt
Nytte
Konklusjon
Usikkerhet

VKM

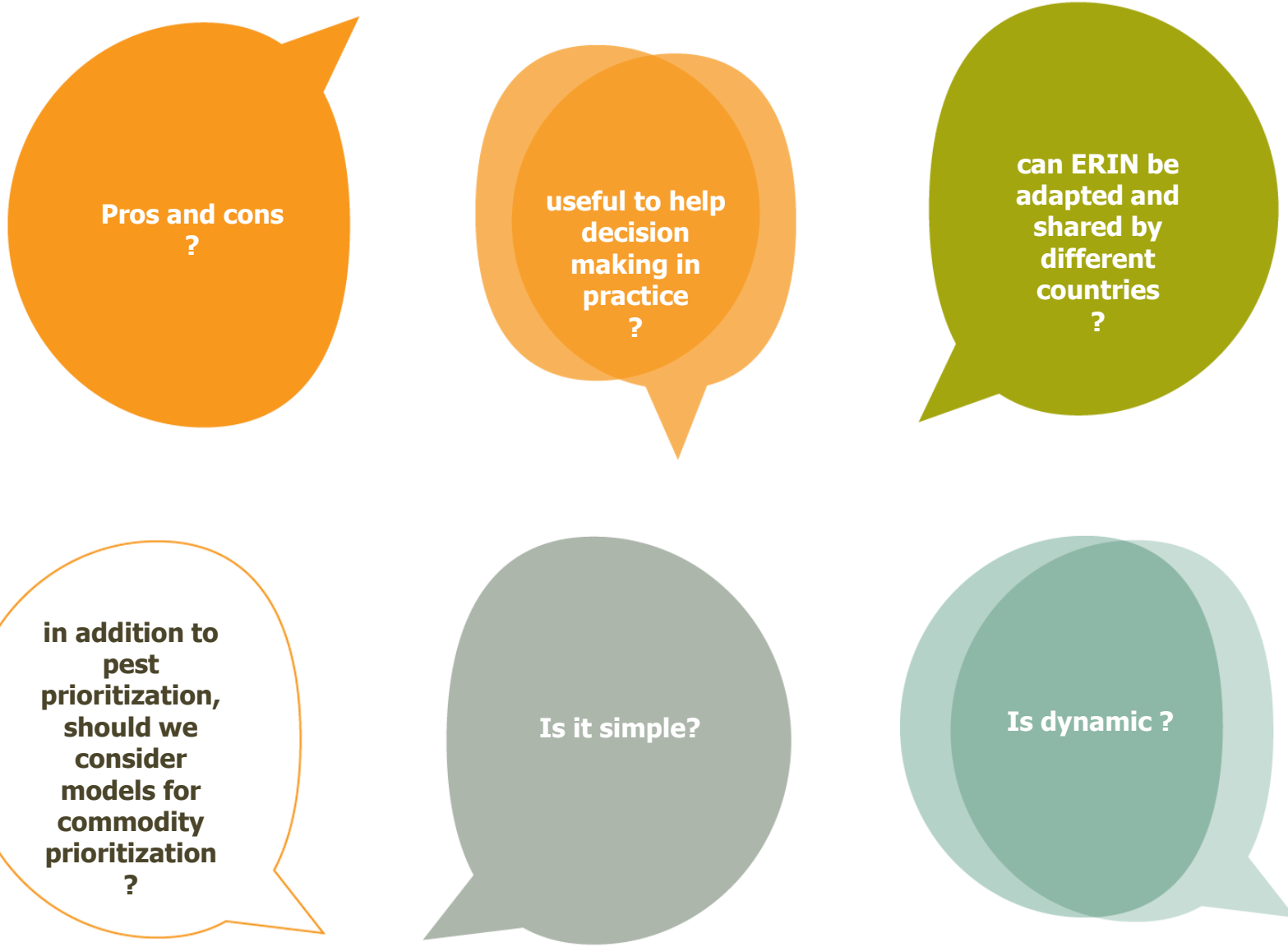
Status December 2016

Have 8 different organisms in the “final scheme”

We will start develop a dynamic database and a scoring model based on the information

A dynamic table for visualization

Should be a live


Pros and cons ?
useful to help decision making in practice ?
can ERIN be adapted and shared by different countries ?
in addition to pest prioritization, should we consider models for commodity prioritization ?
Is it simple?
Is dynamic ?

Thank you for your attention!