



*Enhancing Phytosanitary Systems for Healthy  
Plants, Safe & Sustainable Trade*



INTERNATIONAL YEAR OF  
**PLANT HEALTH**  
2020

**Sub-theme:**

**INDUSTRY ROLE AND EMERGING INNOVATION IN PHYTOSANITARY SYSTEM**

**Title:**

**HORIZON SCANNING AND INSIGHT REPORTING FOR MONITORING AND MANAGING  
PHYTOSANITARY RISKS**

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and Roger Day

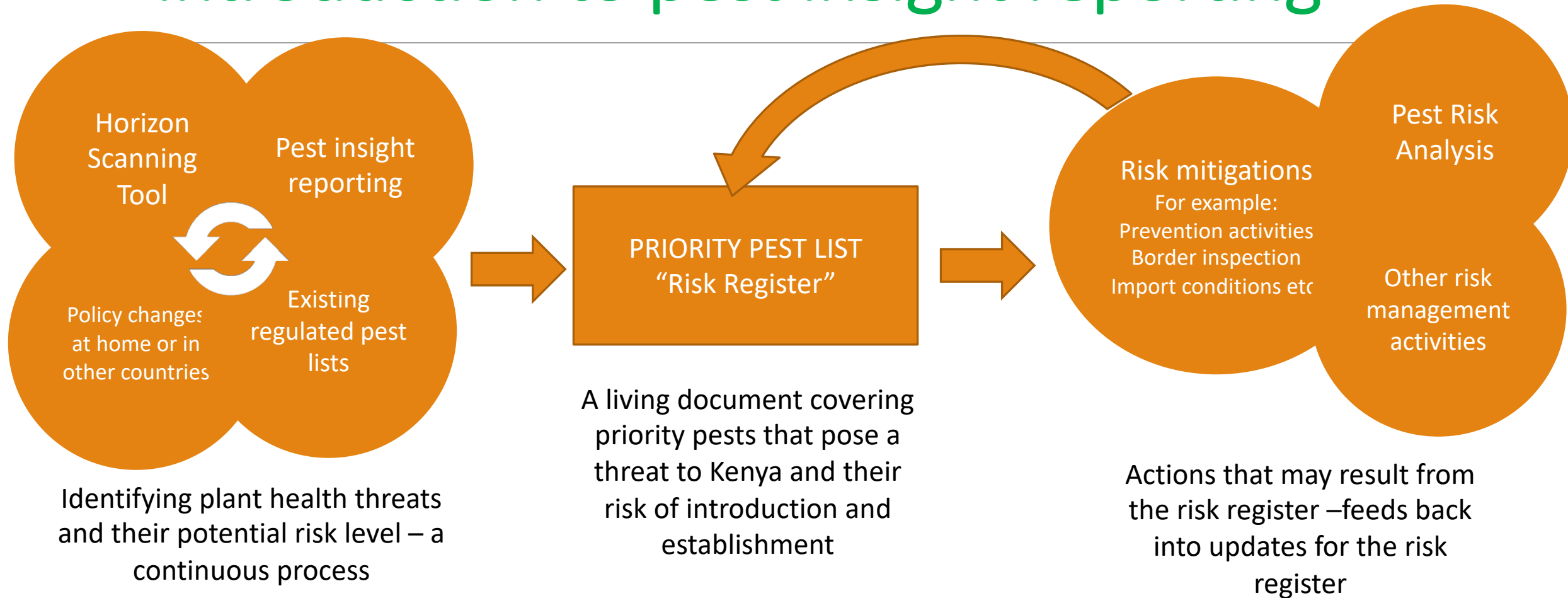


# Outline

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- **Why Horizon Scanning and Insight Report**
- **Proposed Approach**
- **Way forward**

# Introduction to pest insight reporting

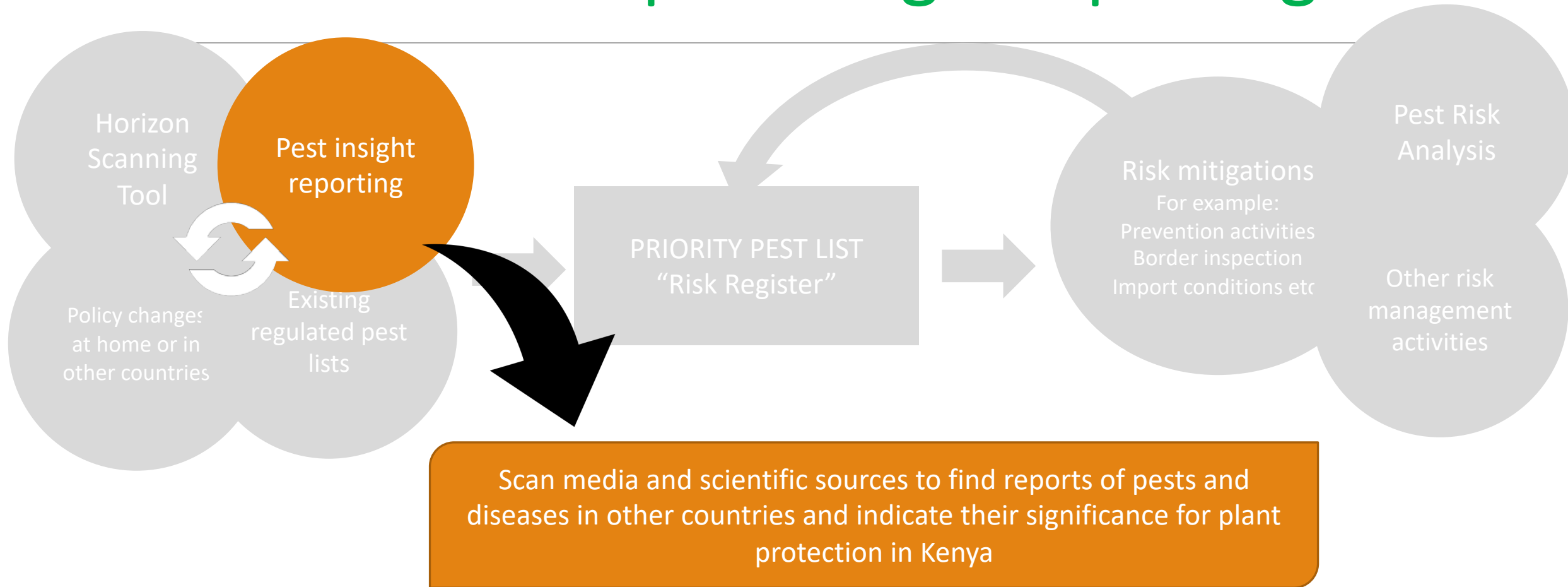


Identifying plant health threats and their potential risk level – a continuous process

A living document covering priority pests that pose a threat to Kenya and their risk of introduction and establishment

Actions that may result from the risk register – feeds back into updates for the risk register

# Introduction to pest insight reporting





# Current pest alert and insight reporting subscriptions



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## EFSA Newsletters

- EFSA (European Food Safety Authority) for Plant Health Newsletters – Looks at media and scientific literature for EU quarantine and regulated pests as well as pests on the European Plant Protection Organisation (EPPO) alert list
- Target users are the European Commission and plant authorities in EU Member States (risk assessors, risk managers and other plant health experts)






# Current pest alert and insight reporting subscriptions



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## PestLens

- PestLens is an online subscription service that provides notifications of pest information relevant to agriculture in the USA
- The types of information most commonly reported by PestLens are:
  - New distribution records
  - New host records
  - New pest descriptions/identifications
  - Significant outbreaks
  - Weed naturalization events
  - New pathogen/vector relationships
  - Research of regulatory or phytosanitary interest
- Emails are sent to subscribers weekly



Thursday, June 17, 2021 Notification

First detection of pale potato cyst nematode, *Globodera pallida* (Heteroderidae), in Morocco  
Source: Journal of Nematology  
Event: Detection

During 2019 to 2020 surveys, pale potato cyst nematode, *Globodera pallida* (Heteroderidae), was isolated from the rhizosphere of cultivated *Solanum tuberosum* (potato) plants in Morocco.

*Globodera pallida* feeds on solanaceous plants and causes stunting and yield loss in *S. tuberosum*. *Globodera pallida* has been reported from parts of Africa, Europe, Asia, New Zealand under official control. The 2019 PPQ Prioritized Offshore Pest List includes *G. pallida* as a pest of concern.

References:

1. Hajaji, A., R. Ait Mhand, N. Rhattabi, and F. Mellouki. 2021. First report of morphological and molecular characterization of Moroccan populations of *Globodera pallida*. *Journal of Nematology*. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6939999/>
2. EPPO. 2021. First report of *Globodera pallida* in Morocco. European and Mediterranean Plant Protection Organization (EPPO). May 1, 2021. Last accessed June 17, 2021. <https://www.eppo.int/act-w/pests-diseases/2021/2021-05-01-globodera-pallida-morocco>

Other PestLens articles about this pest:  
[First report of pale potato cyst nematode, \*Globodera pallida\* \(Heteroderidae\), in Kenya](#)  
[First confirmed report of pale potato cyst nematode, \*Globodera pallida\* \(Heteroderidae\), in Japan](#)  
[First report of the pale potato cyst nematode, \*Globodera pallida\* \(Heteroderidae\), in Bosnia and Herzegovina](#)  
[Pale potato cyst nematode, \*Globodera pallida\* \(Heteroderidae\), detected in Denmark](#)  
[First report of the pale potato cyst nematode, \*Globodera pallida\* \(Heteroderidae\), in Slovenia](#)

If you have any questions or comments for us about this article, please e-mail us at [pestlens@usda.gov](mailto:pestlens@usda.gov) or log into the [PestLens web system](#) and click on "Contact Us" to:



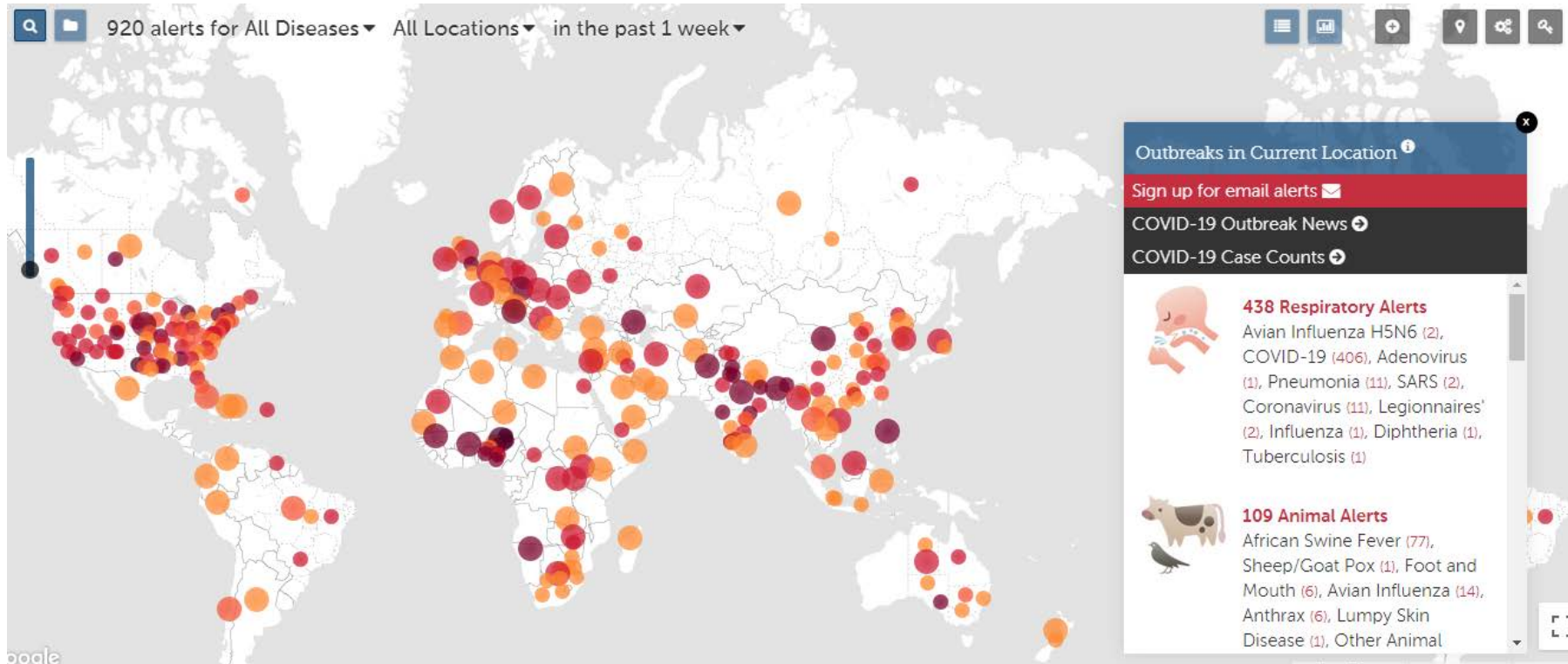


# Current pest alert and insight reporting subscriptions



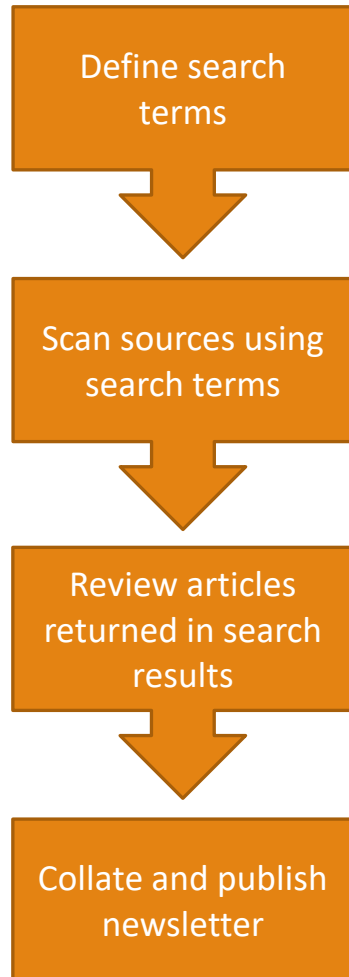
## Healthmap

Filters to target relevant information.



Reports grouped by disease type

# Developing pest insight reporting services



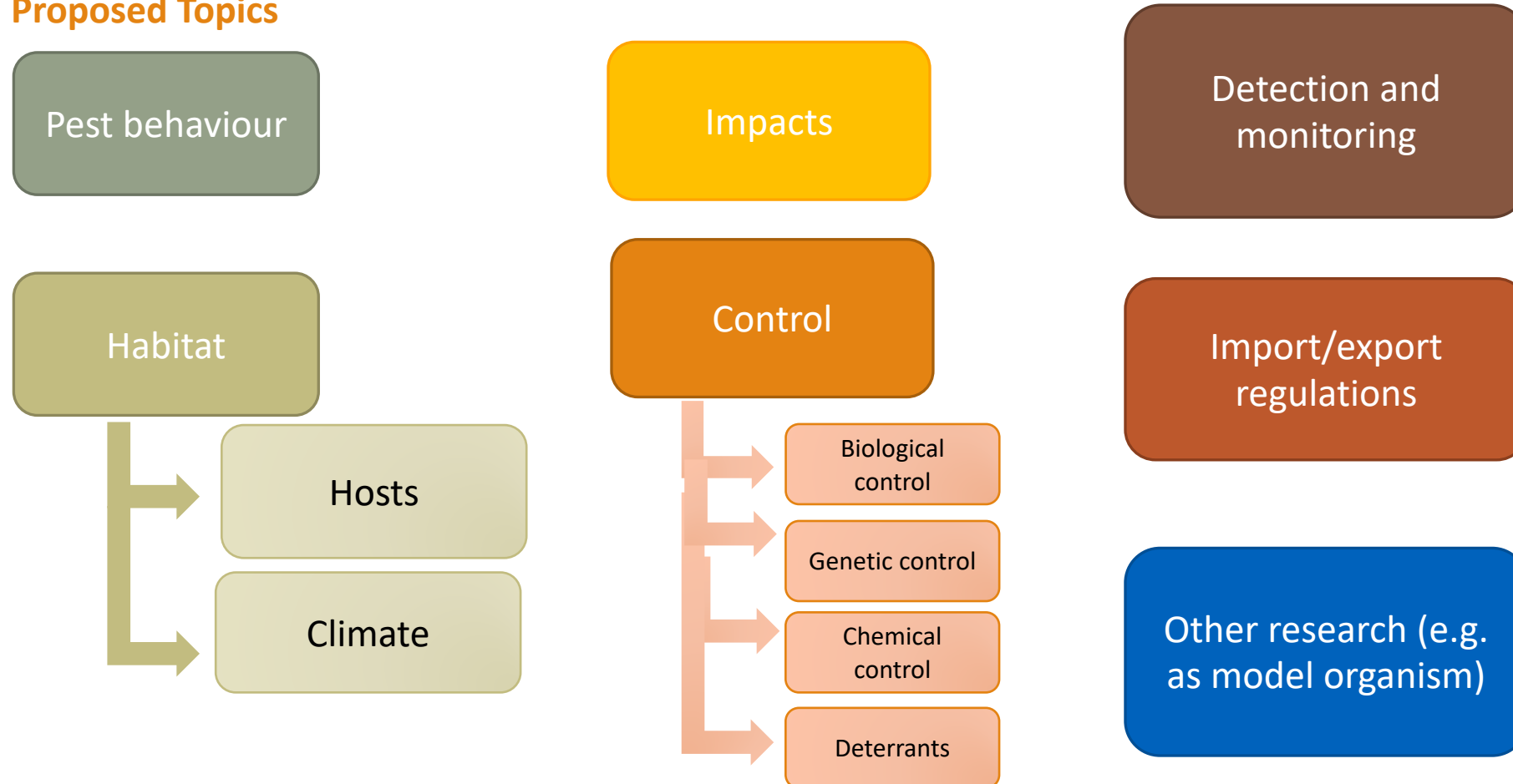
## Proposed Approach:

- Scans are carried out on online media sources as well as scientific literature sources to find relevant, recent publications on pests of interest to Kenya
- Scans will be based on collections of key search terms related to the priority pest (scientific name, synonyms, local names etc.), not just the pest scientific name
- Search results are compiled and then reviewed by experts
- Experts contribute written insights on the significance to Kenya
- Newsletters are published on a monthly basis
- User register to get pest insight reports –monthly , weekly



# Developing pest insight reporting services

## Proposed Topics





# What are we doing?

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- KEPHIS team is Developing Pest List for Kenya using the Horizon Scanning tool  
(quarantine pests)
- Needs assessment for pest reporting – Topics/content, channel and format of publication, frequency, content, Current communication of pest information
- Develop approach for Horizon scanning and insight reporting
- Develop prototype for Plant health insight reporting



# Conclusion

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- Currently there is limited horizon scanning and insight reporting for plants health
- Need for innovative and exciting approach to develop a prototype for Plant health insight reporting
- Ensure User Centred Design as we develop the prototype
- Working with KEPHIS to identify and collate quarantine pests for key commodities
- Further investigations into output options for the new insight reporting process



# Acknowledgements



**Theme:** *"Enhancing Phytosanitary Systems for Healthy Plants,  
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