



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention



Department
for Environment
Food & Rural Affairs

Plant Healthy Certification Scheme

Risk awareness – the foundation for plant pest prevention

London, 21 – 23 September 2022

International Plant Health Conference



Alistair Yeomans – MICFor & MCIHort



Most common pathway for notifiable plant pests to be introduced to a new area is by the movement of live plants Plant Diseases and Biosecurity, Beales et al. 2019

- Establishing the Plant Healthy Certification Scheme with the Plant Health Alliance



Collaboration and Assurance

- **Industry assurance schemes** – private-public, national, regional, and Central
- Obligations and operationalisation, capacity, and **knowledge exchange**.
- Strengthening Pest Outbreak **Alert and Response systems**
- Forward challenges and **innovation for the future**

Collaboration and Assurance

- Industry assurance schemes
- knowledge exchange
- Alert and Response systems
- innovation for the future



Collaboration and Assurance



Industry assurance schemes

Growers, garden retailers, landscapers and arborists, together we can help protect our plants from destructive pests and diseases.

Plant Healthy Certification Scheme

PLANT HEALTHY SCHEME MANUAL

DIRECTORY OF CERTIFIED BUSINESSES

planthealthly.org.uk



Industry assurance schemes



Plant Healthy
Certification Scheme Manual

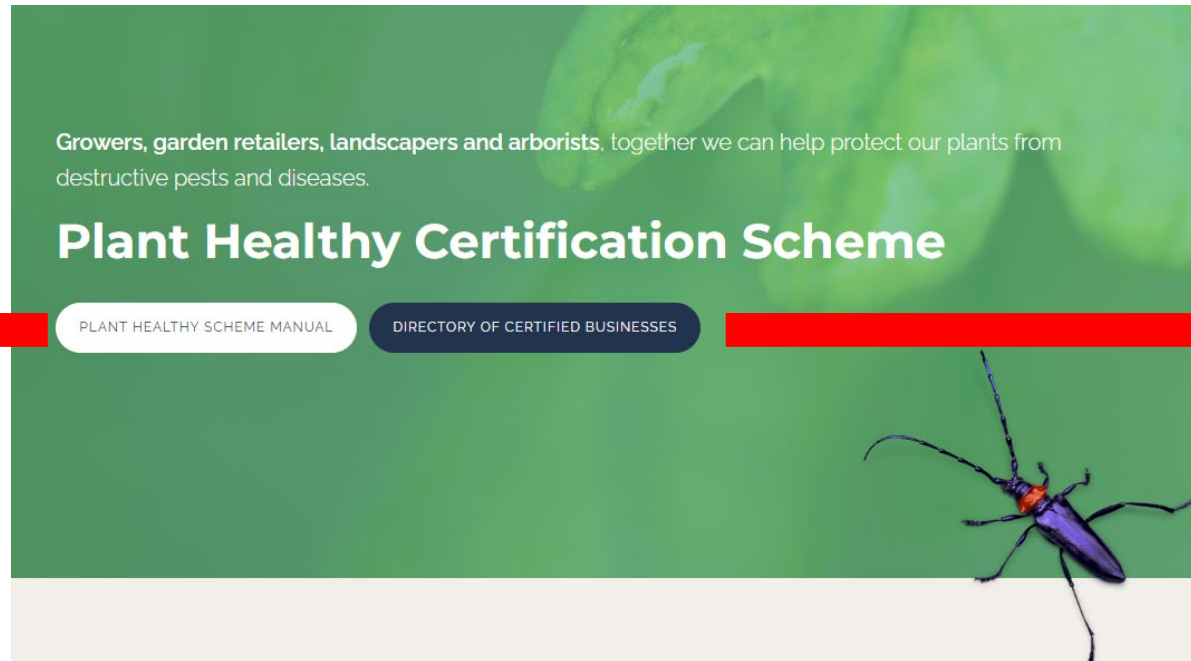



Plant Health Management Standard
Version 1.2



1st July 2022

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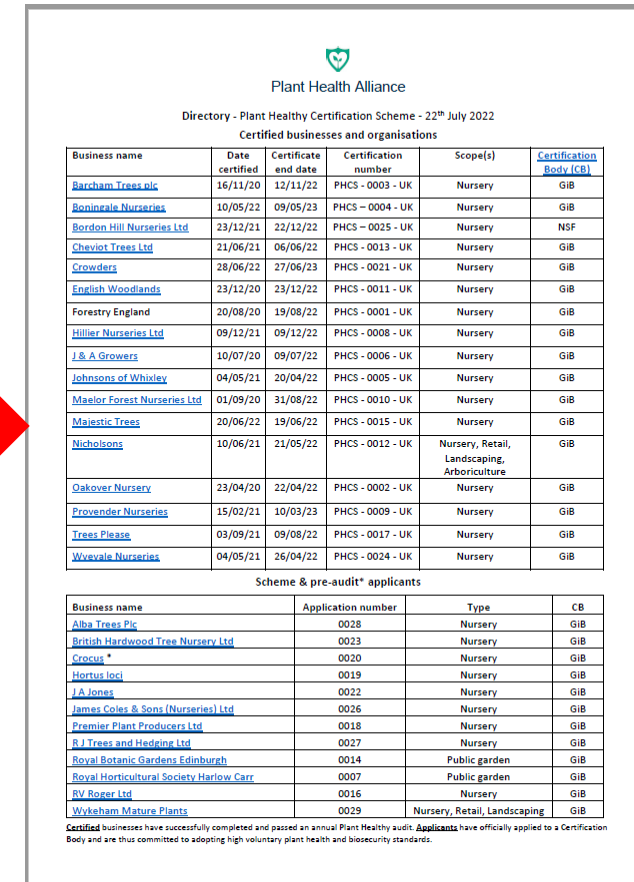


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Plant Healthy Certification Scheme

PLANT HEALTHY SCHEME MANUAL DIRECTORY OF CERTIFIED BUSINESSES

planthealthly.org.uk



Plant Healthy Alliance
Directory - Plant Healthy Certification Scheme - 22nd July 2022
Certified businesses and organisations

Business name	Date certified	Certificate end date	Certification number	Scope(s)	Certification Body (CB)
Barcham Trees plc	16/11/20	12/11/22	PHCS - 0003 - UK	Nursery	GIB
Bonineale Nurseries	10/05/22	09/05/23	PHCS - 0004 - UK	Nursery	GIB
Bordon Hill Nurseries Ltd	23/12/21	22/12/22	PHCS - 0025 - UK	Nursery	NSF
Cheviot Trees Ltd	21/06/21	06/06/22	PHCS - 0013 - UK	Nursery	GIB
Crowders	28/06/22	27/06/23	PHCS - 0021 - UK	Nursery	GIB
English Woodlands	23/12/20	23/12/22	PHCS - 0011 - UK	Nursery	GIB
Forestry England	20/08/20	19/08/22	PHCS - 0001 - UK	Nursery	GIB
Hillier Nurseries Ltd	09/12/21	09/12/22	PHCS - 0008 - UK	Nursery	GIB
J & A Growers	10/07/20	09/07/22	PHCS - 0006 - UK	Nursery	GIB
Johnsons of Whitley	04/05/21	20/04/22	PHCS - 0005 - UK	Nursery	GIB
Maaslor Forest Nurseries Ltd	01/09/20	31/08/22	PHCS - 0010 - UK	Nursery	GIB
Majestic Trees	20/06/22	19/06/22	PHCS - 0015 - UK	Nursery	GIB
Nicholsons	10/06/21	21/05/22	PHCS - 0012 - UK	Nursery, Retail, Landscaping, Arboriculture	GIB
Oakover Nursery	23/04/20	22/04/22	PHCS - 0002 - UK	Nursery	GIB
Provender Nurseries	15/02/21	10/03/23	PHCS - 0009 - UK	Nursery	GIB
Trees Please	03/09/21	09/08/22	PHCS - 0017 - UK	Nursery	GIB
Wwavale Nurseries	04/05/21	26/04/22	PHCS - 0024 - UK	Nursery	GIB

Scheme & pre-audit* applicants

Business name	Application number	Type	CB
Alba Trees Pic	0028	Nursery	GIB
British Hardwood Tree Nursery Ltd	0023	Nursery	GIB
Crocus *	0020	Nursery	GIB
Hortus loci	0019	Nursery	GIB
J.A. Jones	0022	Nursery	GIB
James Coles & Sons (Nurseries) Ltd	0026	Nursery	GIB
Premier Plant Producers Ltd	0018	Nursery	GIB
R J Trees and Hedging Ltd	0027	Nursery	GIB
Royal Botanic Gardens Edinburgh	0014	Public garden	GIB
Royal Horticultural Society Harlow Carr	0007	Public garden	GIB
RV Roger Ltd	0016	Nursery	GIB
Wykeham Mature Plants	0029	Nursery, Retail, Landscaping	GIB

Certified businesses have successfully completed and passed an annual Plant Healthy audit. Applicants have officially applied to a Certification Body and are thus committed to adopting high voluntary plant health and biosecurity standards.



knowledge exchange

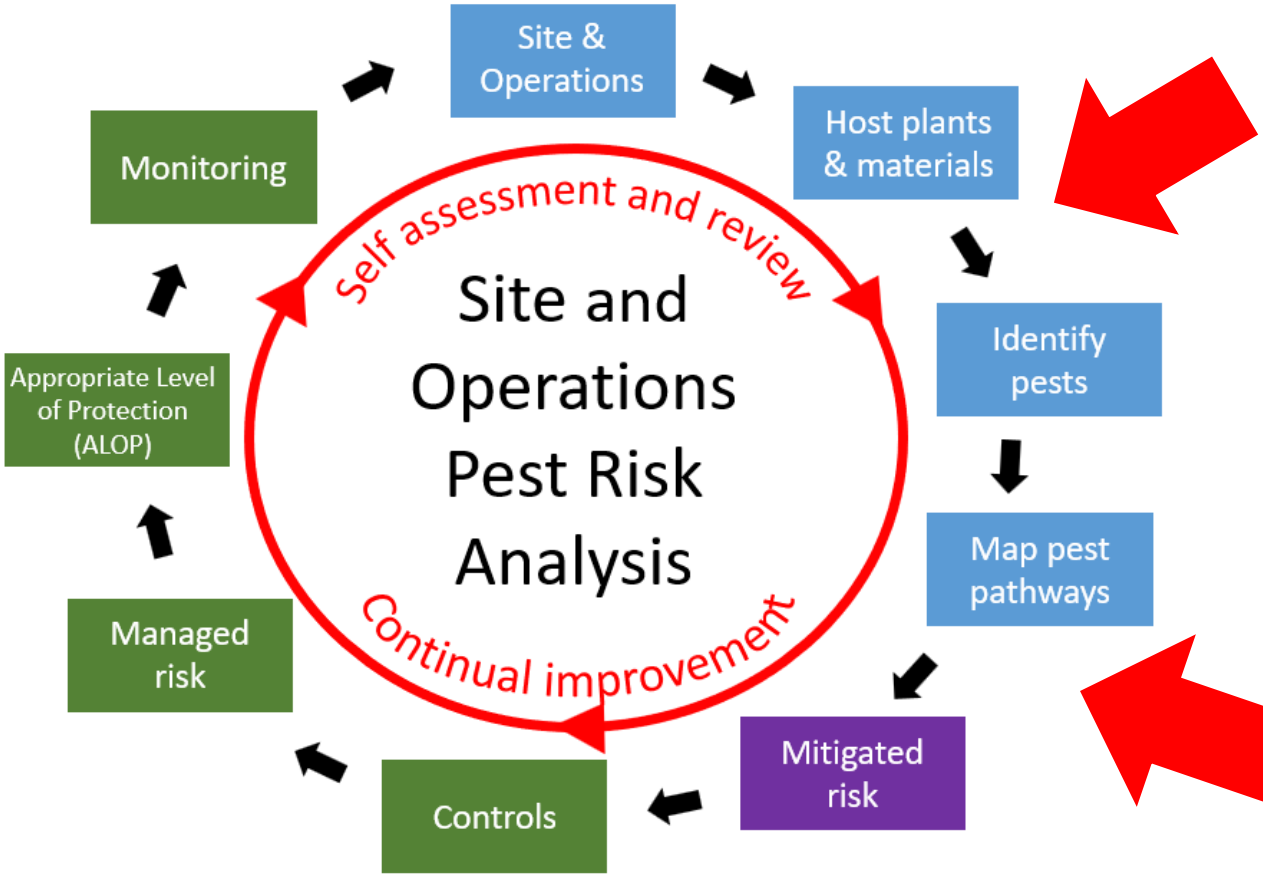
Hazard Analysis of Critical Control Points

1. Conduct a hazard analysis
2. Identify the critical control points
3. Establish critical limits
4. Establish monitoring procedures
5. Establish corrective actions
6. Establish record-keeping procedures
7. Establish verification procedures

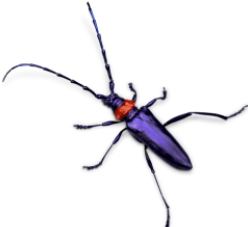
Source: U.S. Food and Drug Administration

Framework for Pest Risk Analysis ISPM 2

- (1) Initiation
- (2) Pest Risk Assessment
- (3) Pest Risk Management



Plant Healthy
Certification Scheme Manual



Plant Health Management Standard
Version 1.2

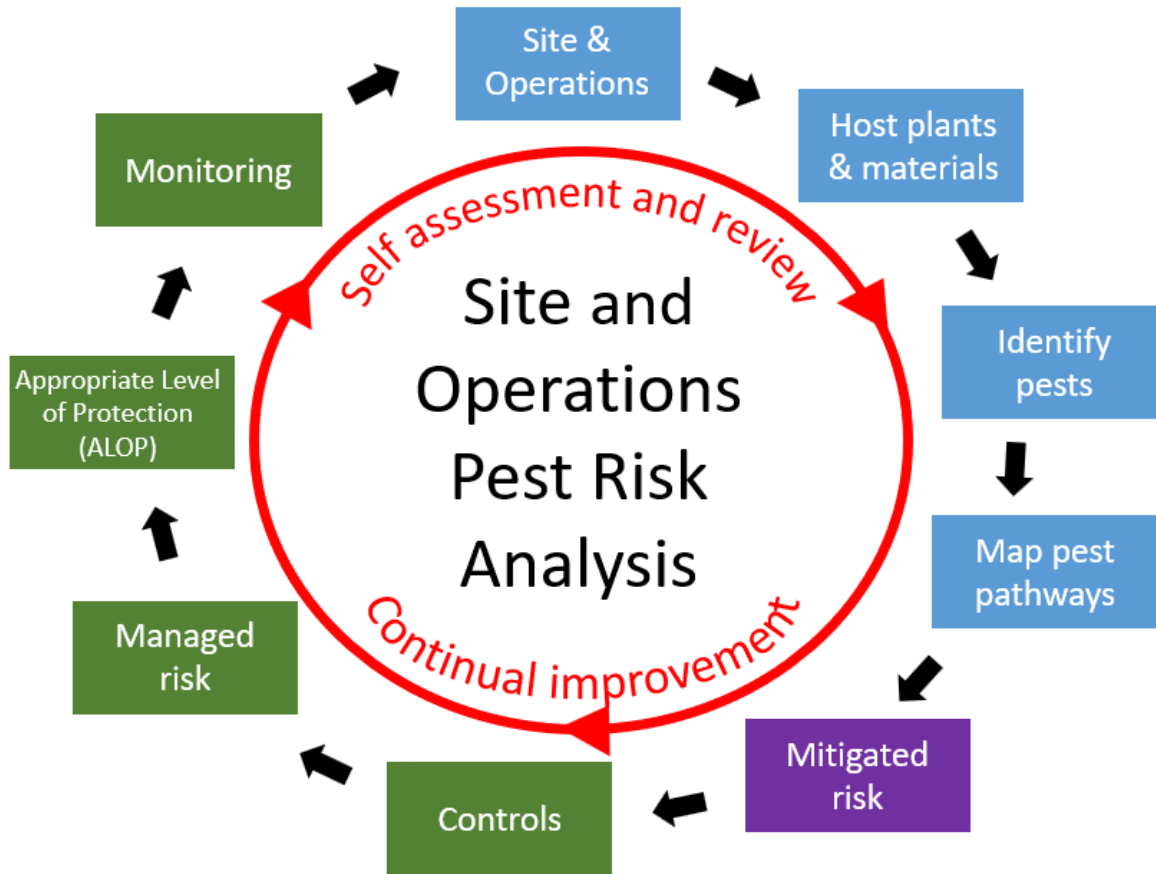
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ALOP for a site and operations



knowledge exchange



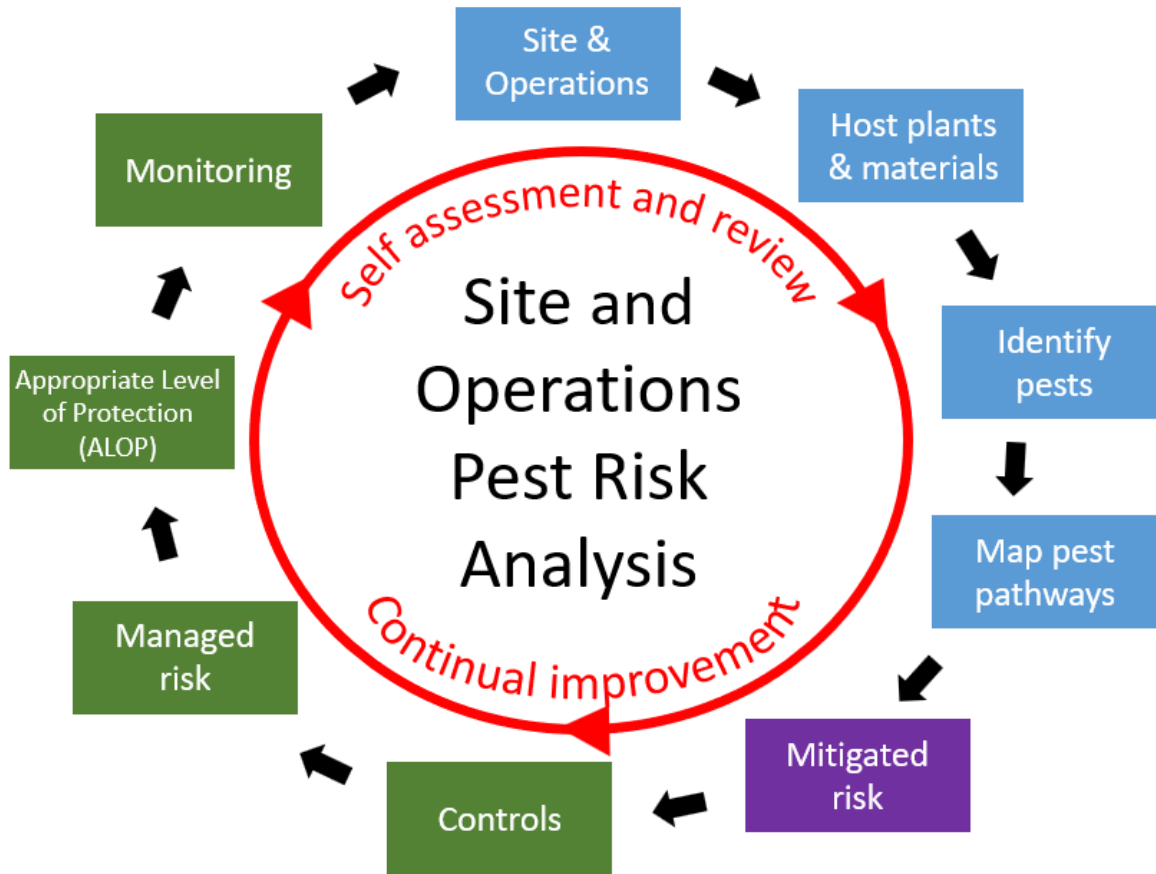
knowledge required for professional operators to issue plant passports:

Article 89 1. (a) of regulation 2016/2031 on protective measures against pests of plants.

Possess the knowledge to carry out the examinations of notifiable pests that could affect the plants, plant products and other objects concerned, and the signs of the presence of those pests, the symptoms caused by them, and the means to prevent the presence and spread of those pests.



knowledge exchange



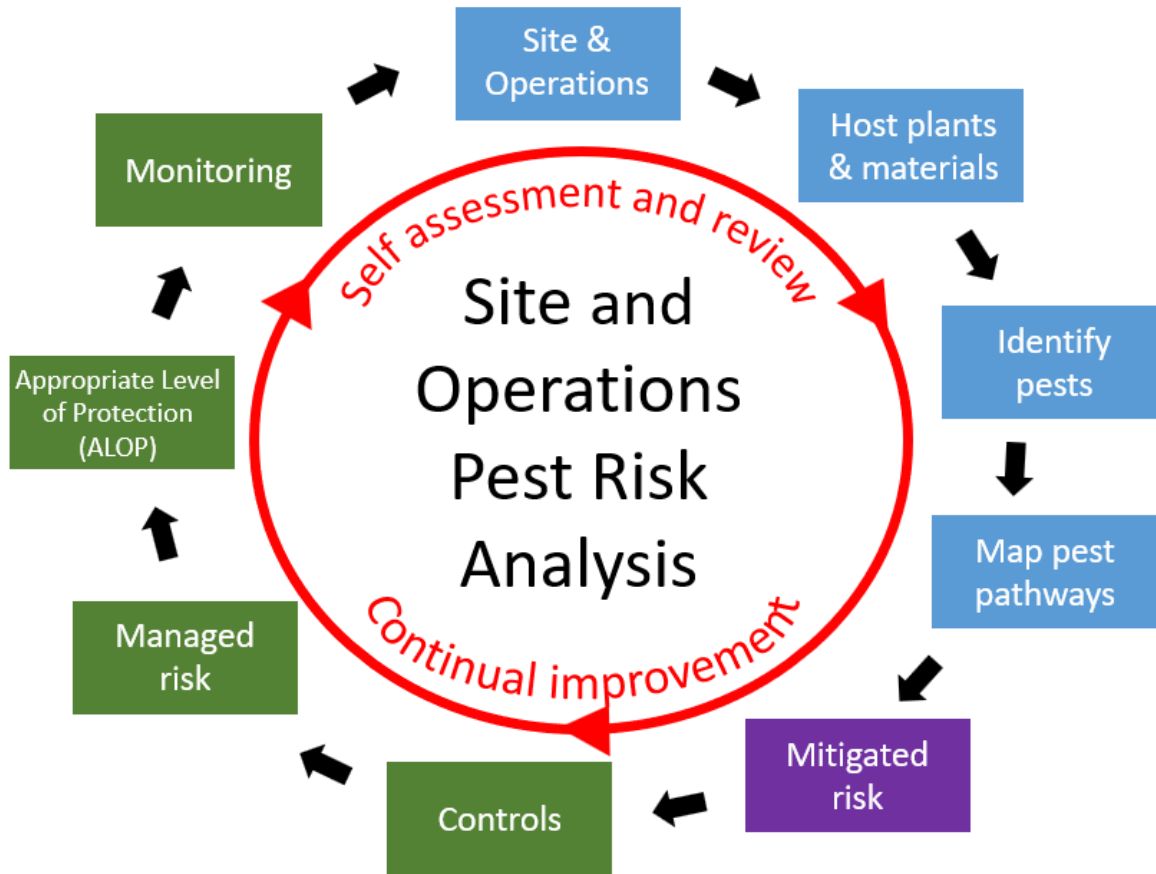
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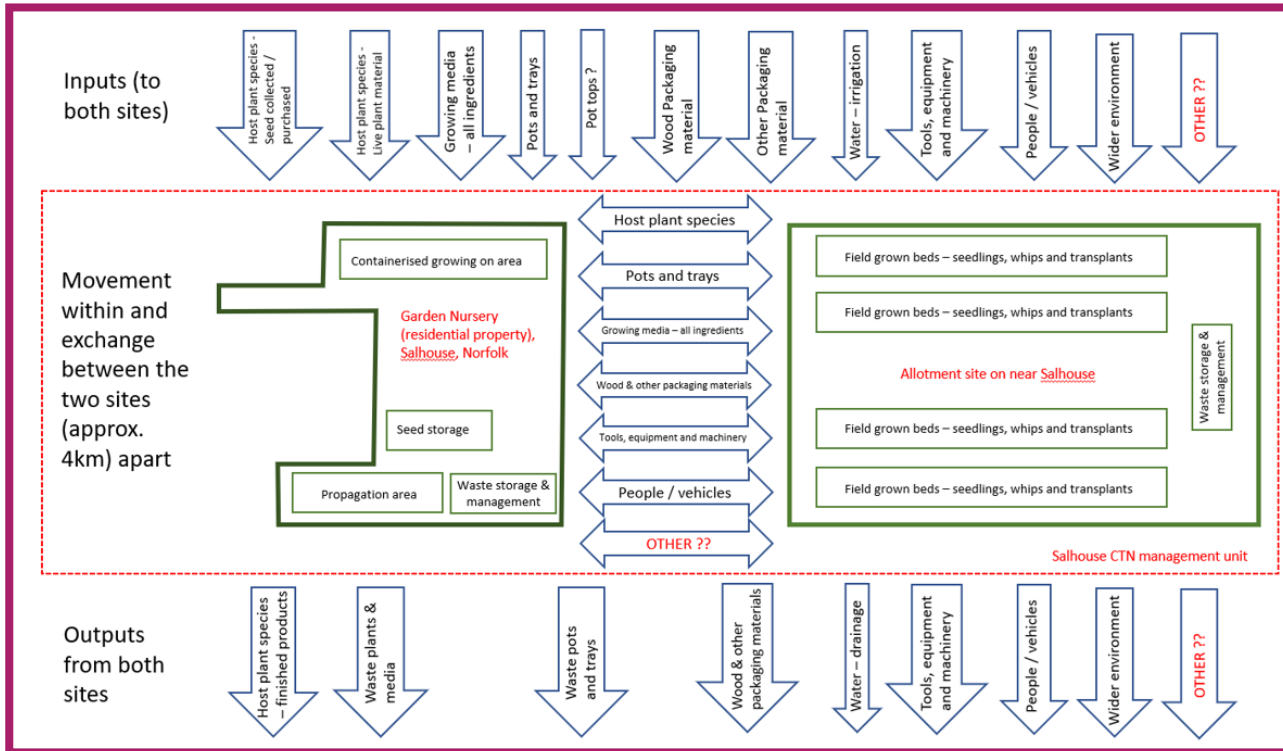


knowledge exchange



Possess the knowledge of notifiable pests and the signs of those pests to prevent the presence and spread of those pests.

knowledge exchange



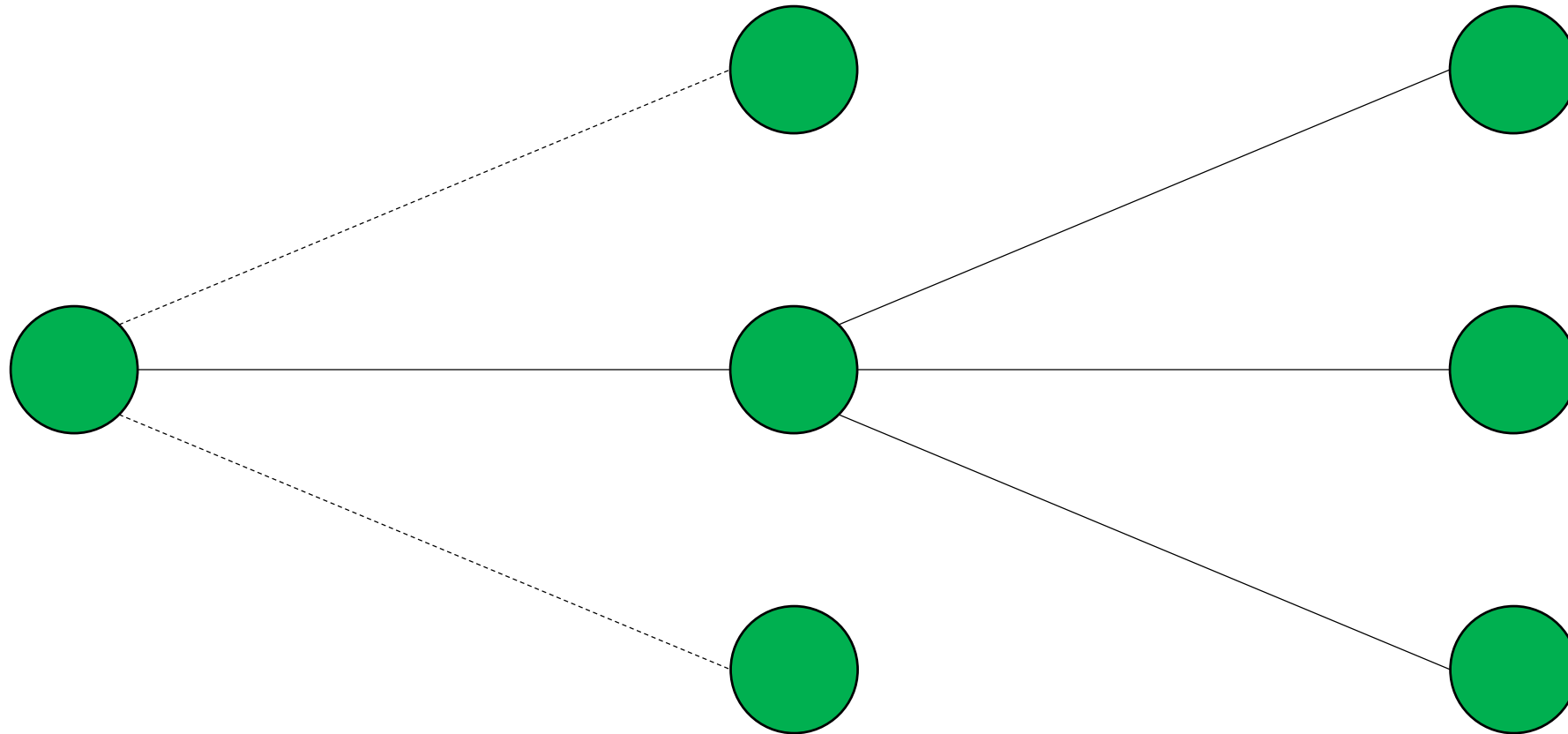
Rating	Colour & score				
	Blue	Green	Yellow	Orange	Red
Likelihood, spread, impact, value at risk, etc.	1	2	3	4	5
Likelihood x impact	1-4	5-9	10-14	15-19	20-25
Overall UK risk rating	1-14	15-29	30-44	45-59	60-125

Pathway / operation (4)	Likelihood	Consequences of pest entry establishment and spread	Risk (5)	Control (6)	Risk with control in place (7)
Seed collection	Highly unlikely	High	Medium risk - of spreading a pest or disease via collection activities	Assess seed collection sites for the presence of the notifiable diseases that are set out in the pest versus hose Risk assessment. Always follow seed collection protocol.	Low
Seed storage	Highly unlikely	Low	Low risk	Monitor seed for signs of pest and disease and contain, assesses and act as required (i.e. report, treat or destroy safely).	Low
Brought in live plant material	Unlikely	High	High risk - the movement of live plant material is considered to be a high risk activity	Salhouse CTN seldom purchases plant material to grow on - if so then purchase from Phy certified nurseries. Do not accept plant material or plants from unknown sources.	Low
Pots and trays	Unlikely	High	Medium risk - from using recycled pots	Clean using suitable sterilisation technique (PHMS - section 6) and / or use new propagation trays and pots	Low
Growing Media - includes all growing media constituents e.g. sand, perlite, bark, soil	Likely	High	High risk - the movement of live plant material is considered to be a high risk activity	Purchase growing media from reputable supplier with biosecurity policy that states any growing media has been treated appropriately (e.g. PAS 100)	Low
Pot tops	Unlikely	Low	Low risk	Not used at Salhouse CTN	Low
Wood Packaging Material (WPM)	Highly unlikely	High	Medium risk - of spreading a pest or disease via WPM	Directly imported pallets are not used at Salhouse CTN - any pallets used shall be checked for signs of Plant pests - e.g. signs of exit holes etc.	Low
Other packaging material	Highly unlikely	Medium	Low risk - Be aware of plant pests and diseases on packaging material	Little packaging material is received at Salhouse CTN - all items deemed to present a risk to be checked.	Low
Water (irrigation)	Likely	High	High risk - plant pathogens can be carried in contaminated irrigation water	Mains water used - likelihood of pest or diseases being circulated in irrigation is therefore low	Low
Tools, equipment and machinery	Unlikely	Medium	Medium - risk of transmitting pests on tools, equipment and machinery from other sites	Ensure that all are cleaned using suitable sterilisation technique (PHMS - section 6)	Low
People and vehicles	Unlikely	Medium	Medium risk - from on footwear from other sites (e.g. walking in woodlands)	Communicate cleanliness standards to people and vehicles that visit the two sites. Ensure all footwear and vehicles are assessed and treated accordingly. Boot washing facilities provided on allotment site.	Low
Wider environment	Likely	Medium	High risk - from spread of pests and diseases across landscapes (e.g. Ash dieback, Phytophthora ramorum and Oak Processionary Moth)	Remain vigilant for pests and diseases that are spread via the wider landscape. Report any suspicious symptoms or identified notifiable pests to the relevant authorities - be particularly aware of pests that may spread from plants cultivated on the Salhouse CTN sites. It is acknowledged that some pests will spread irrespective of Salhouse	MEDIUM / LOW
Water (drainage)	Likely	Medium	High risk - pests and diseases (particularly oomycetes e.g. Phytophthora)	Site is freely draining with no puddling on either of the two sites	Low
Waste material - growing media, plant material	Likely	Medium	High risk - plant pests can proliferate and be spread in contaminated waste material	Assess waste storage and management systems for potential to harbour and proliferate plant pests - caution of use recycled compost and ensure that suspect waste plant material, growing media and packaging are suitably stored and disposed of.	MEDIUM / LOW
Waste pots, packaging material and other items	Unlikely	Medium	Medium risk - pests and diseases can spread from the sites on waste material as eggs or resting spores.	Assess waste storage and management systems for potential to harbour plant pests - ensure that waste material are suitably stored and disposed of.	Low

Cross referencing plants and materials handled / managed with notifiable pests on UK Plant Health Risk Register

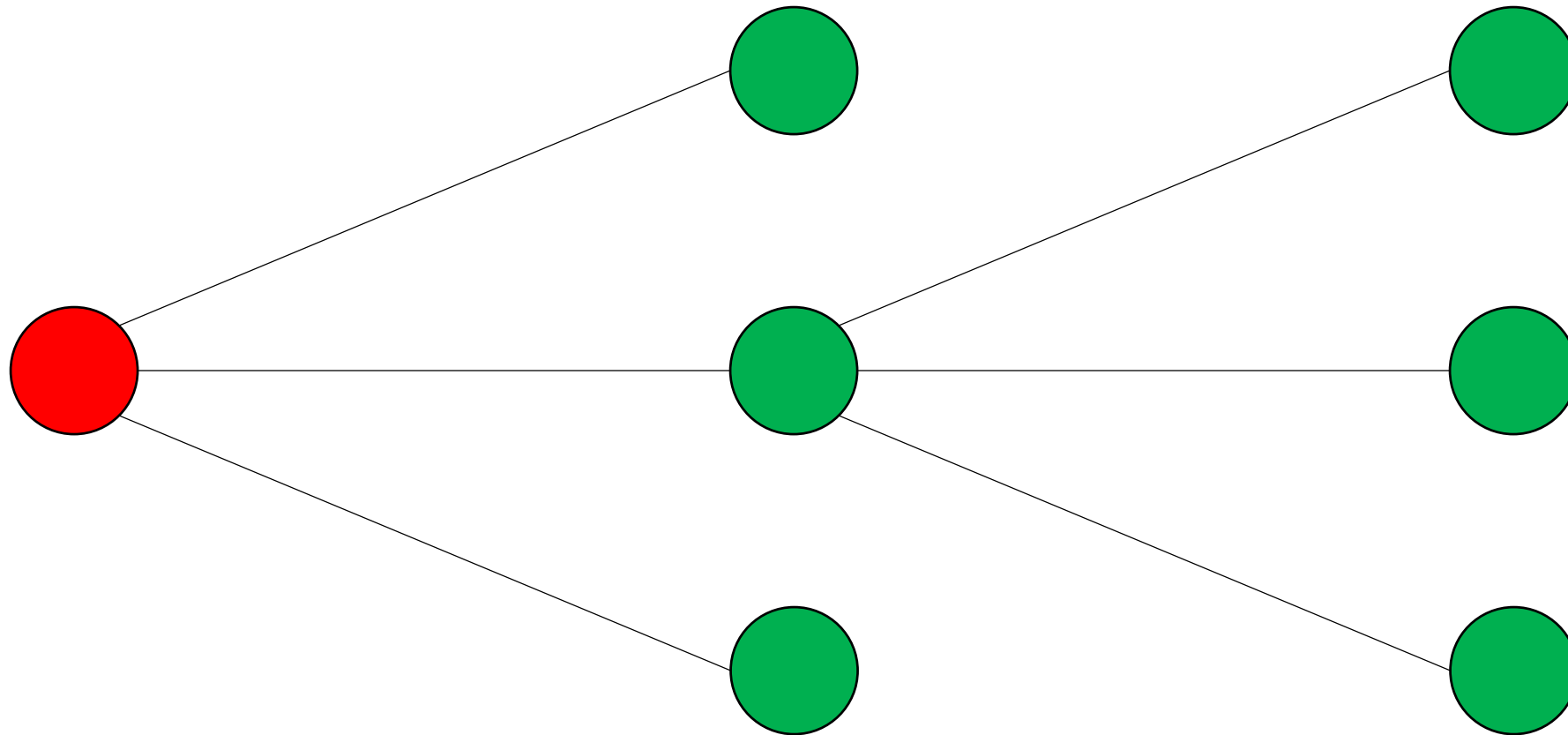


Alert response systems



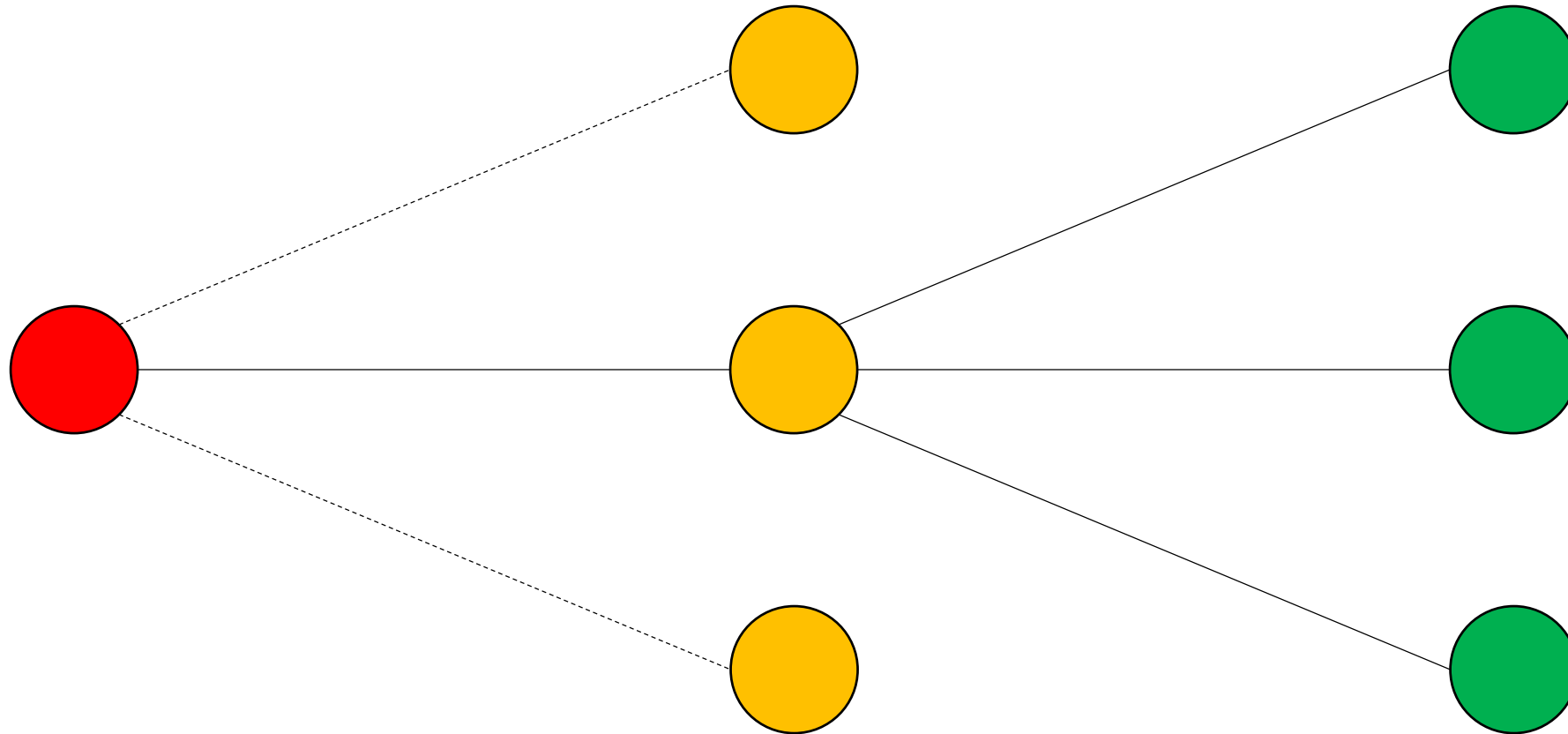
Supply Chain Management (5.1) and Traceability (7.2)

Alert response systems



Outbreak and spread

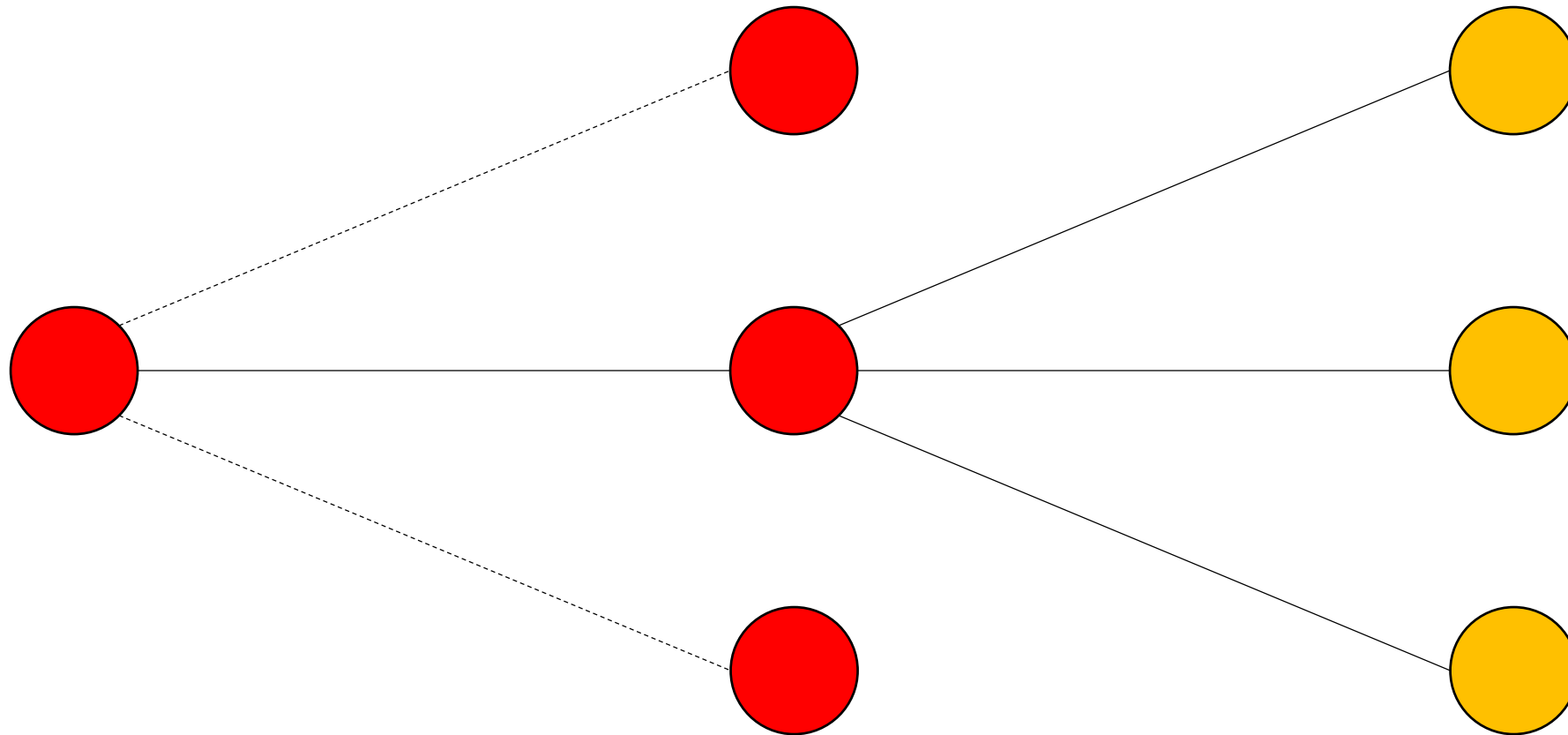
Alert response systems



Outbreak and spread



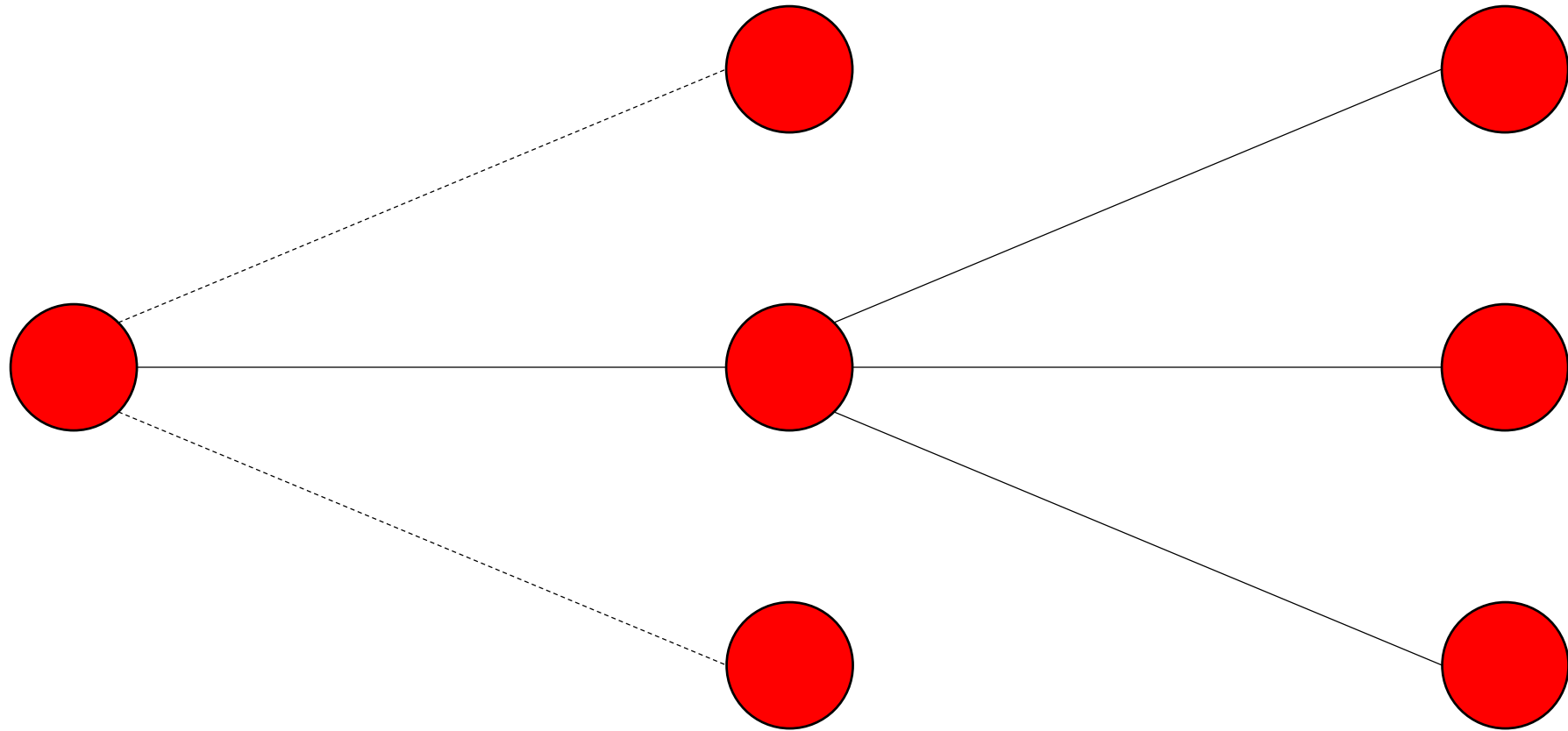
Alert response systems



Outbreak and spread



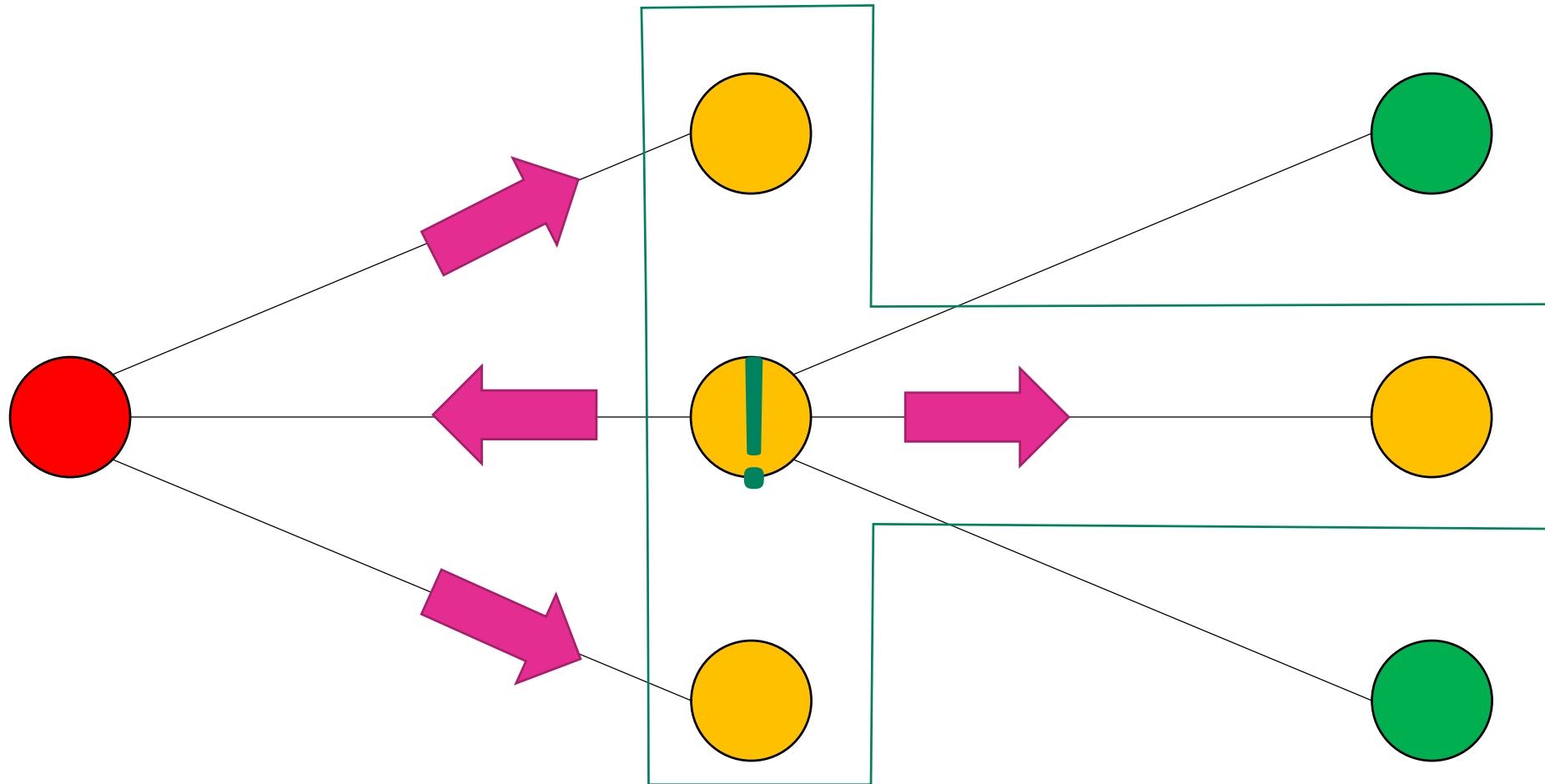
Alert response systems



Outbreak and spread

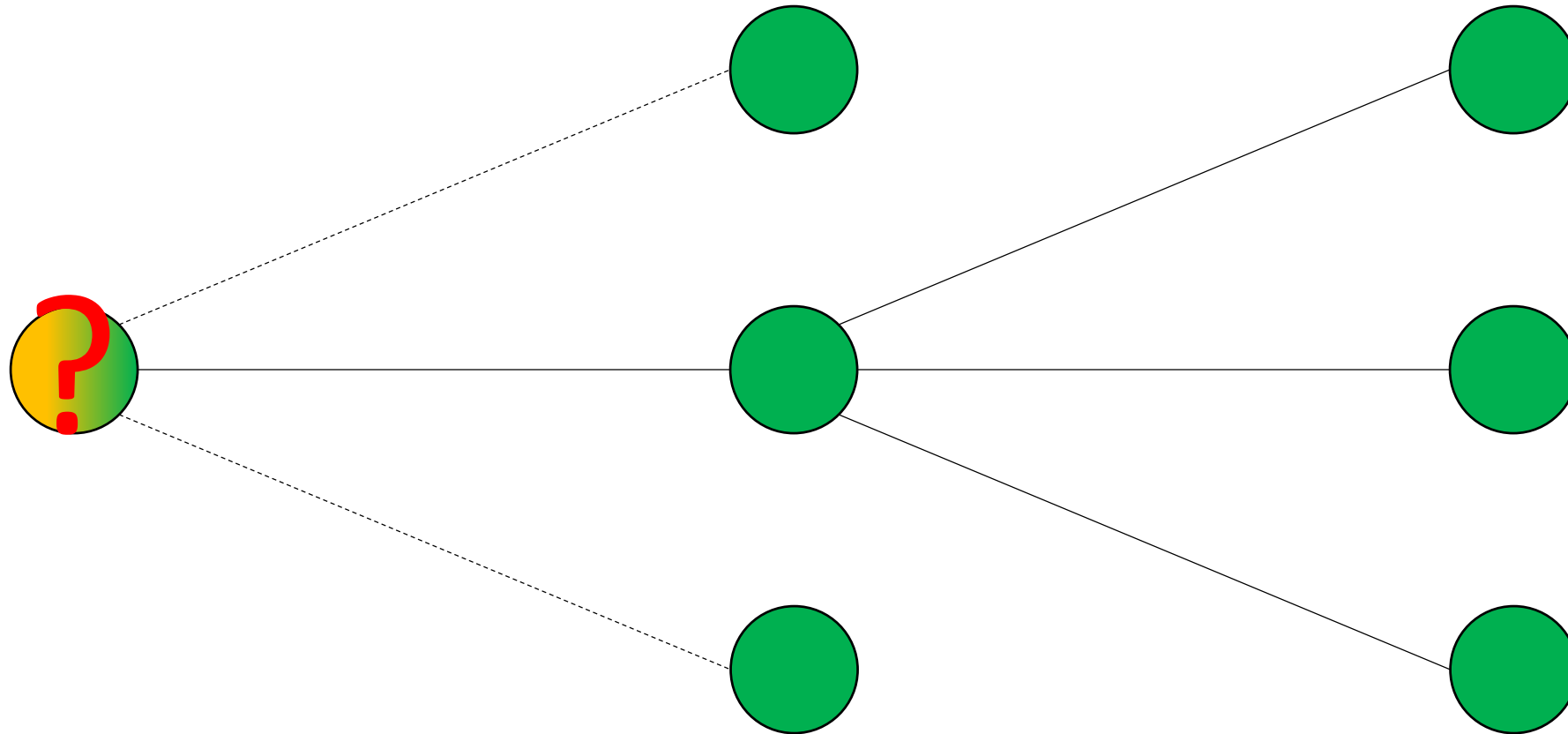


Alert response systems



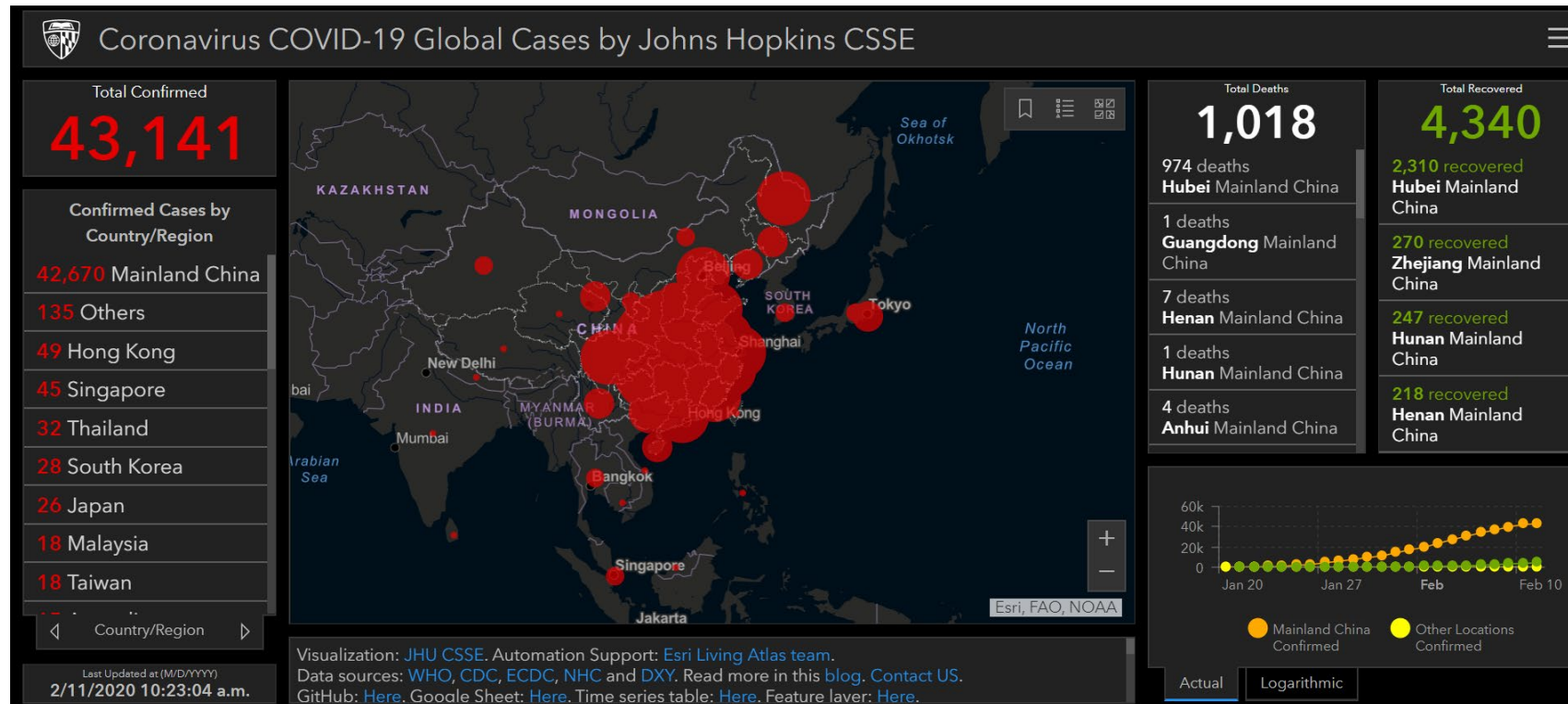
Interception – containment – **avoided outbreak**

Alert response systems



Vigilance & speed is critical - PHMS assess monitoring systems & response speed

Innovation for the future?



A call for help! A user-friendly system that can inform professional operators who handle live plant material of the risks to their site and the wider environment – software linked to live information?



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Thank you

Alistair Yeomans
Director of Plant Healthy Limited

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