



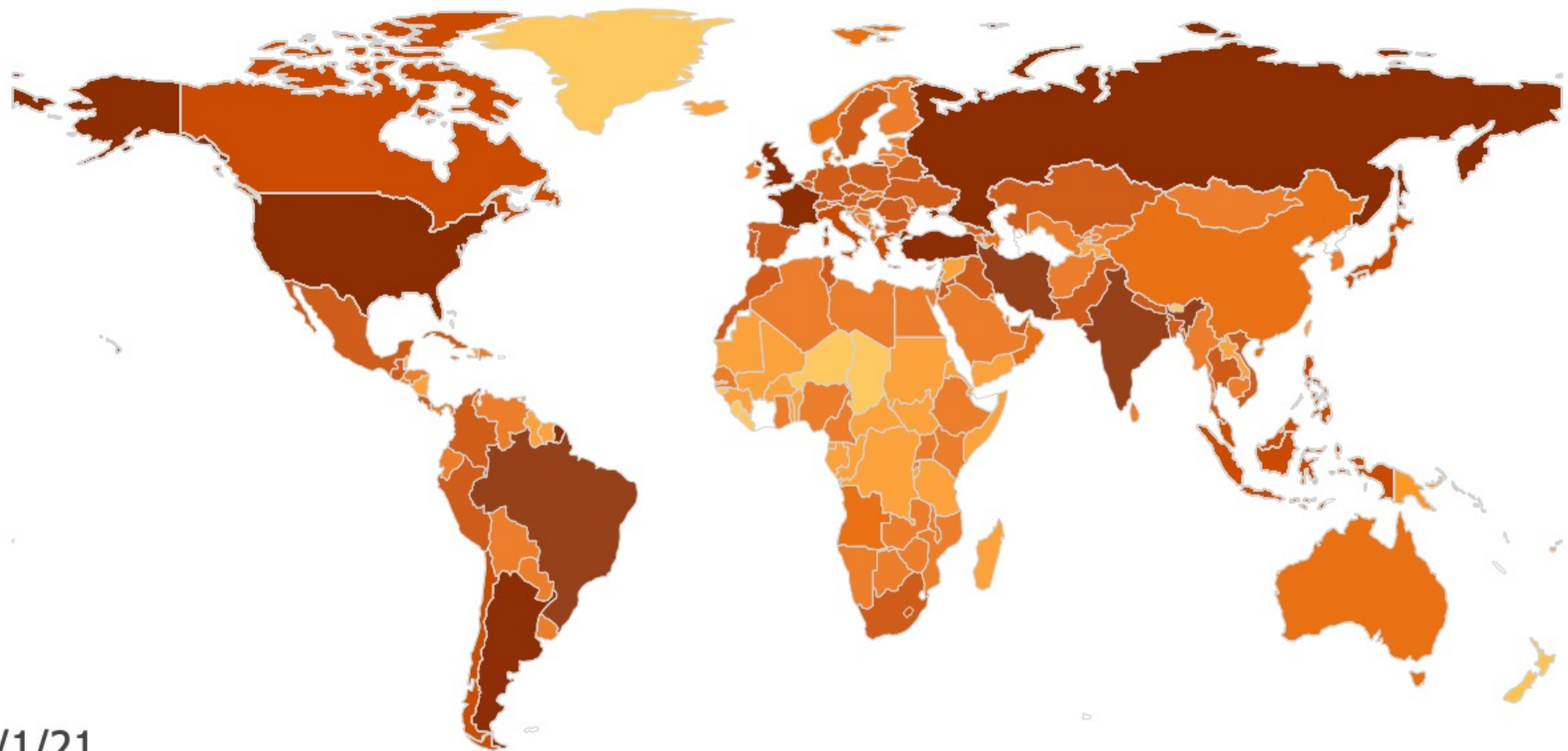
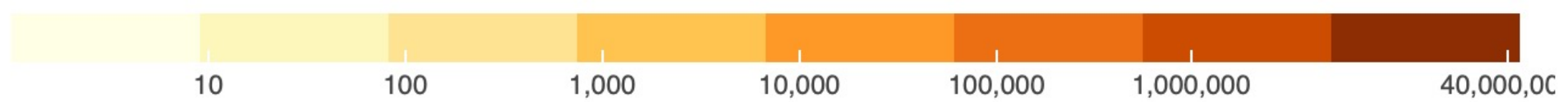
CHANGING AND INCREASING BIOSECURITY RISKS TO FOOD AND NUTRITION SECURITY: AN OVERVIEW.

Professor Andrew Robinson

CEO, Centre of Excellence for Biosecurity Risk Analysis

Achatina fulica — The Giant African Snail





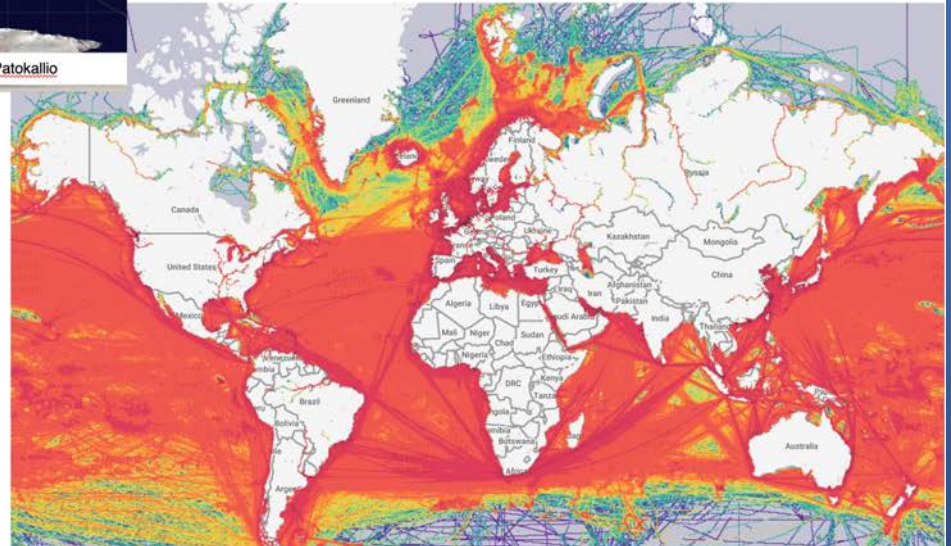
11/1/21

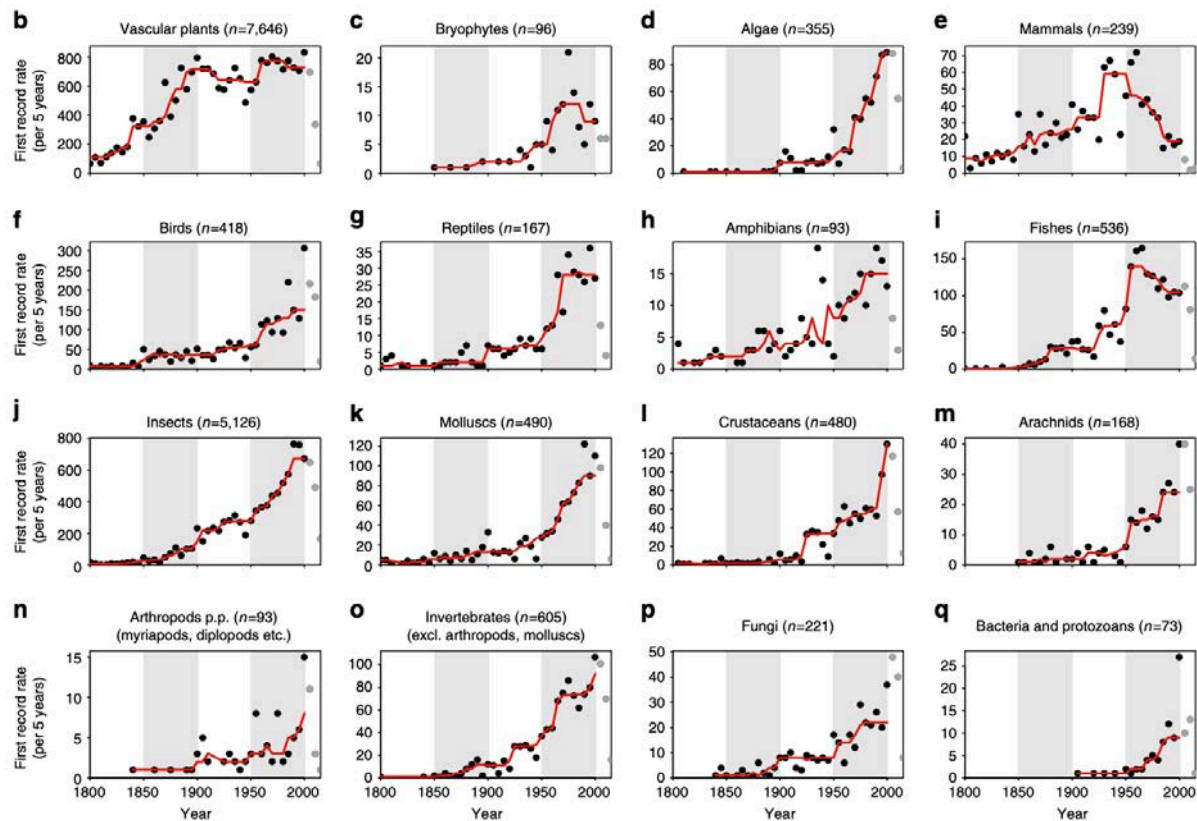


Source: Jani Patokallio

Flight routes

Shipping routes





Seebens *et al.* (2017) Nature Communications

What is biosecurity?

- Hum-drum answer
- Popular answer
- Right answer

Hum-drum: Biosecurity is ...

- Biosecurity is the suite of activities undertaken by stakeholders to reduce the impacts of invasive species.

Hum-drum: Biosecurity is ...


- Biosecurity is the suite of activities undertaken by stakeholders to reduce the **impacts** of invasive species.
- Plant production
- Animal production
- Environmental health
- Human health
- Social amenity
- ... and another 11.

Hum-drum: Biosecurity is ... \$319B

- Biosecurity is the suite of activities undertaken by stakeholders to reduce the **impacts** of **invasive species**.
- **Plant production** – **fall armyworm**, *Xylella fastidiosa*
- **Animal production** – **Foot and Mouth disease**, **Avian influenza**
- **Environmental health** – **Myrtle rust**, *Xylella* (yes, again)
- **Human health** – **COVID**, **Ebola**, **SARS**
- **Social amenity** - **RIFA**
- ... and another 11.

What is biosecurity?

- Hum-drum answer
- Popular answer
- Right answer



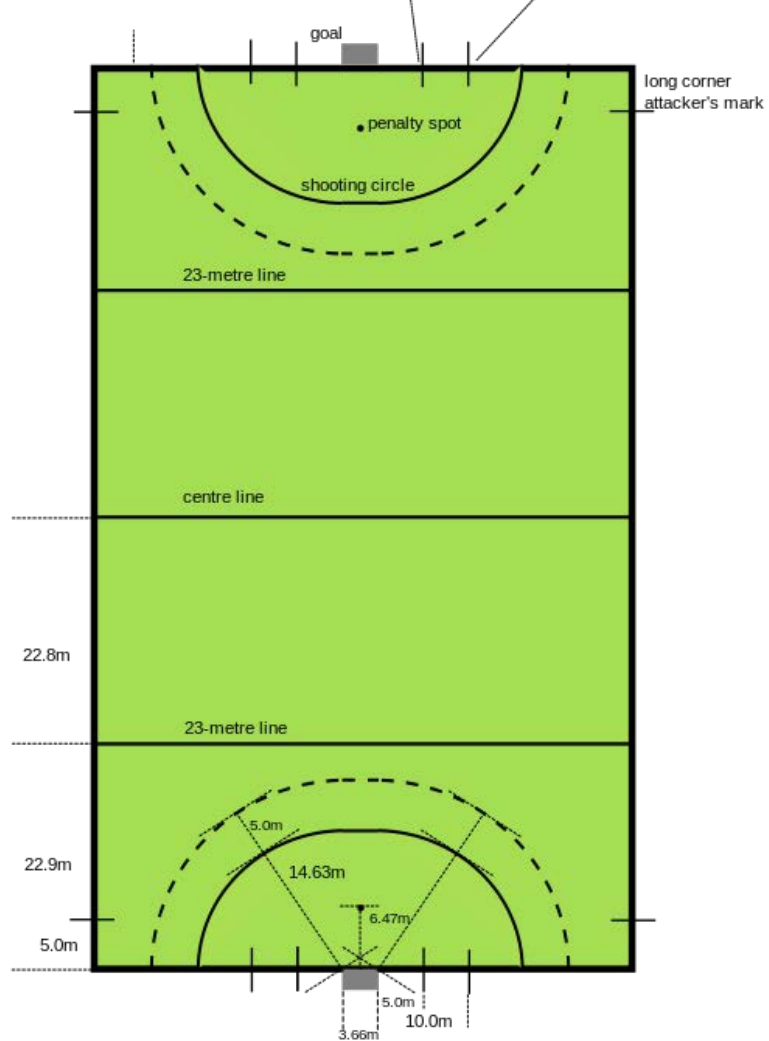
Popular: Biosecurity is ...

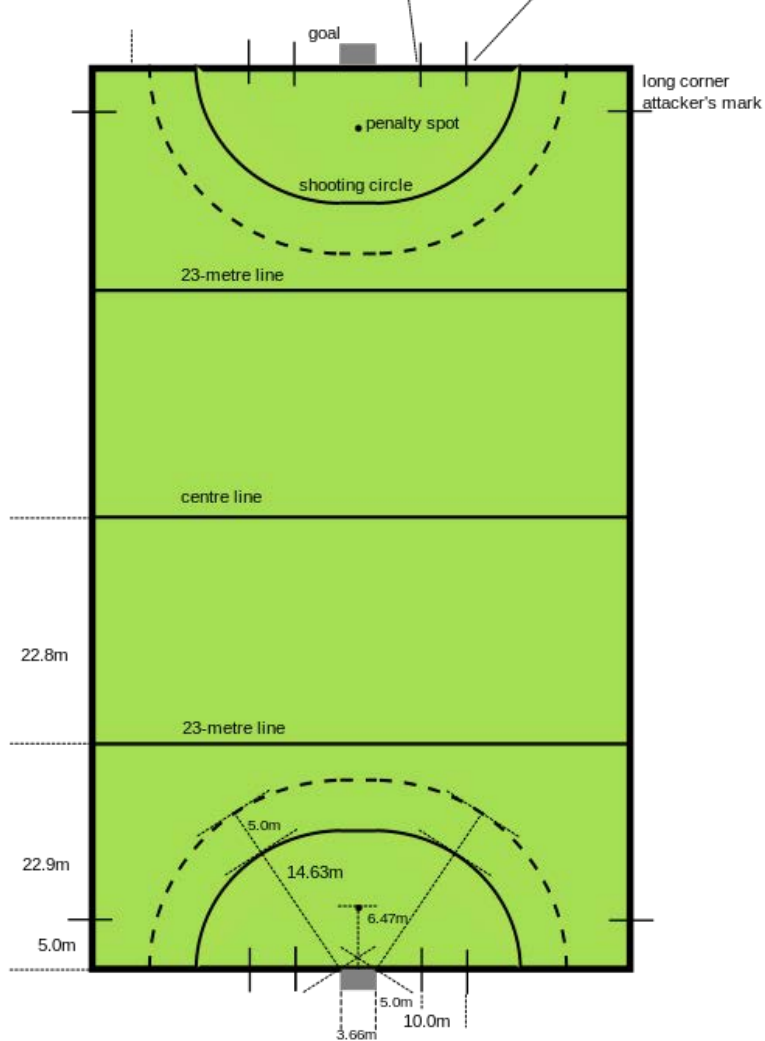
- Biosecurity border quarantine.



What is biosecurity?

- Hum-drum answer
- Popular answer
- Right answer





Intelligence, supply-chain monitoring

Border intervention

Post-border regulators

Us

Transcend The Border Focus for BMP

- Forwards: Track and predict global pest movements
- Midfield: Manage pathway risk via regulation; verify by intervention
- Defence: Study imminent arrivals
- Goalie: Harden what we control



Thank you

Winter is Coming

Professor Andrew Robinson
CEO, Centre of Excellence for Biosecurity Risk Analysis

