

Emergency Management: emerging themes and the future

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Presentation covers

1. Our World

2.Themes

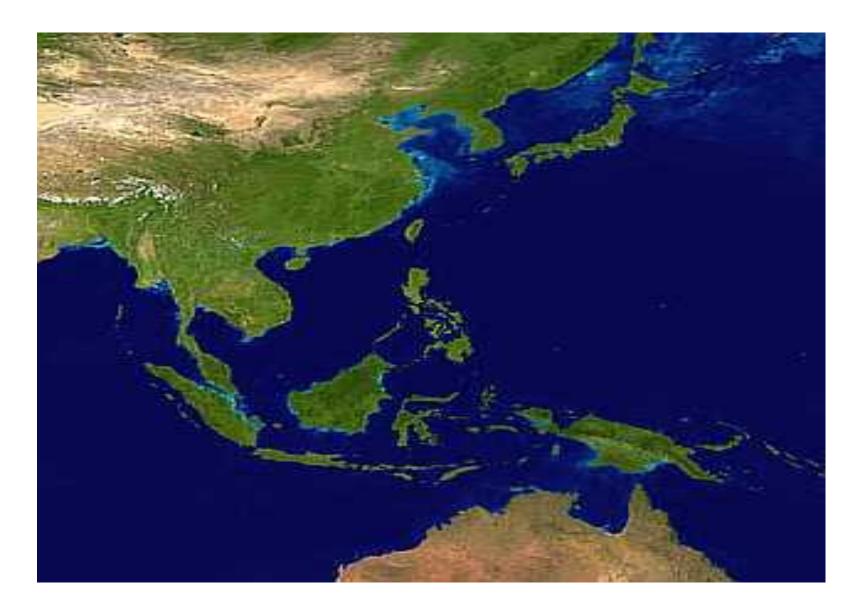
3. Thoughts now

4. Thoughts future



Our World





Unofficial

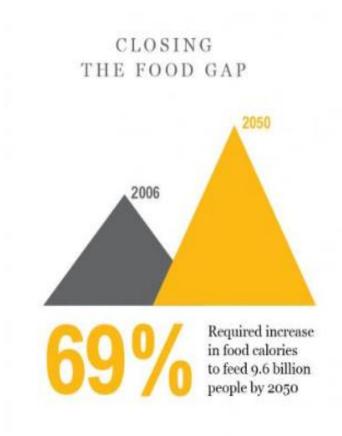


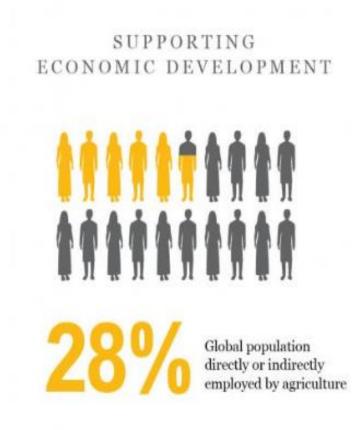
We live increasingly in a "VUCA" world

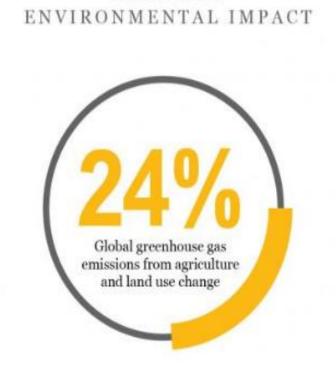




The great balancing act ahead of us - More food and less greenhouse gases







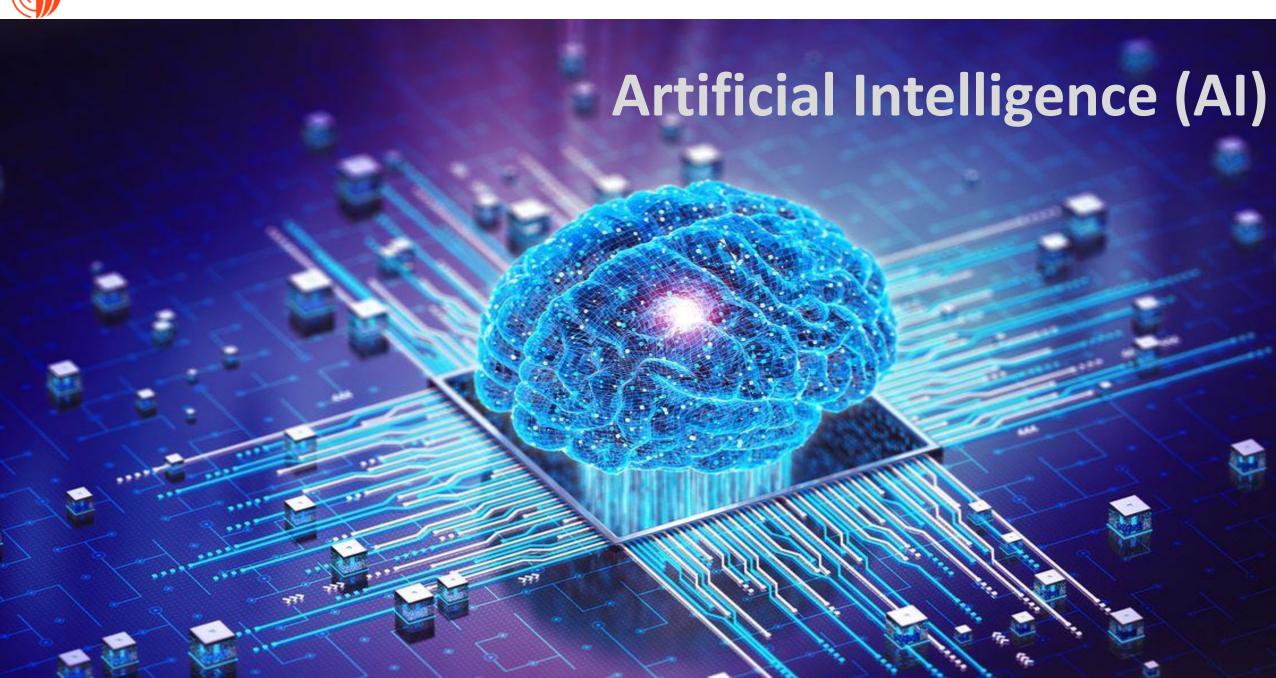
REDUCING





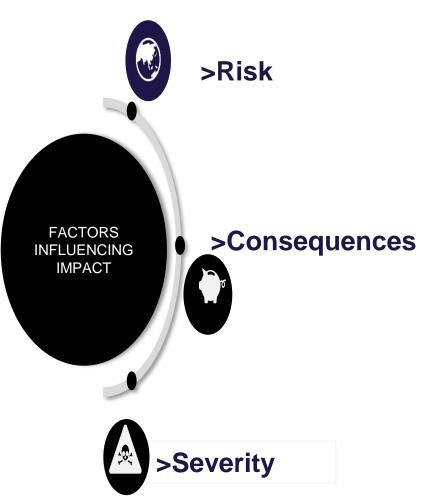


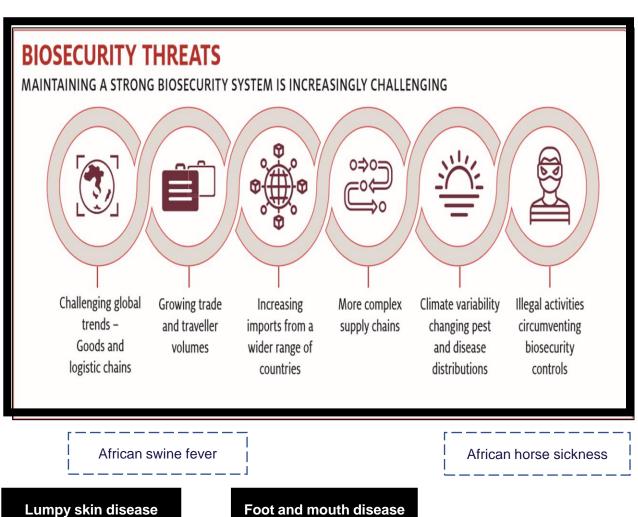






Biosecurity risks are increasing

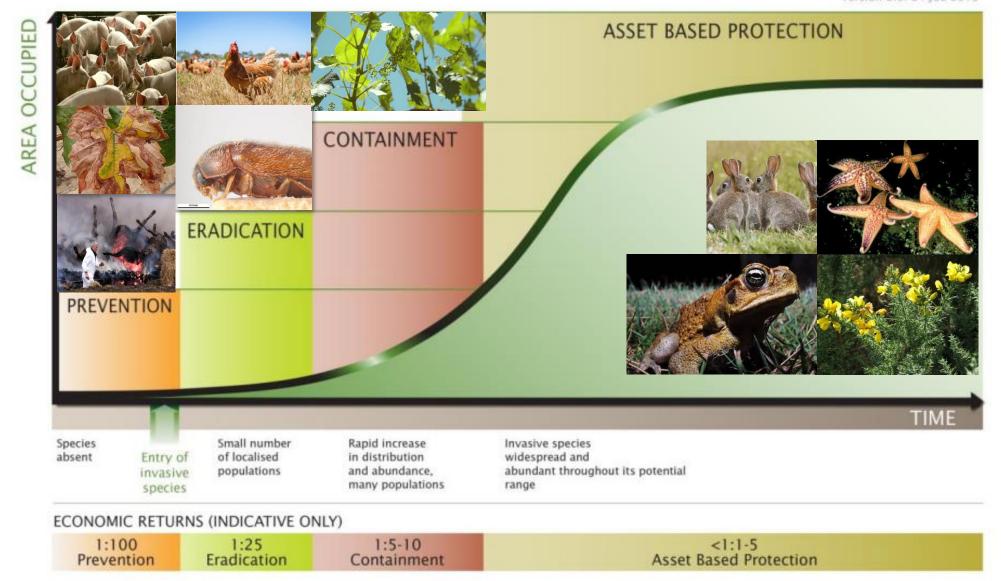




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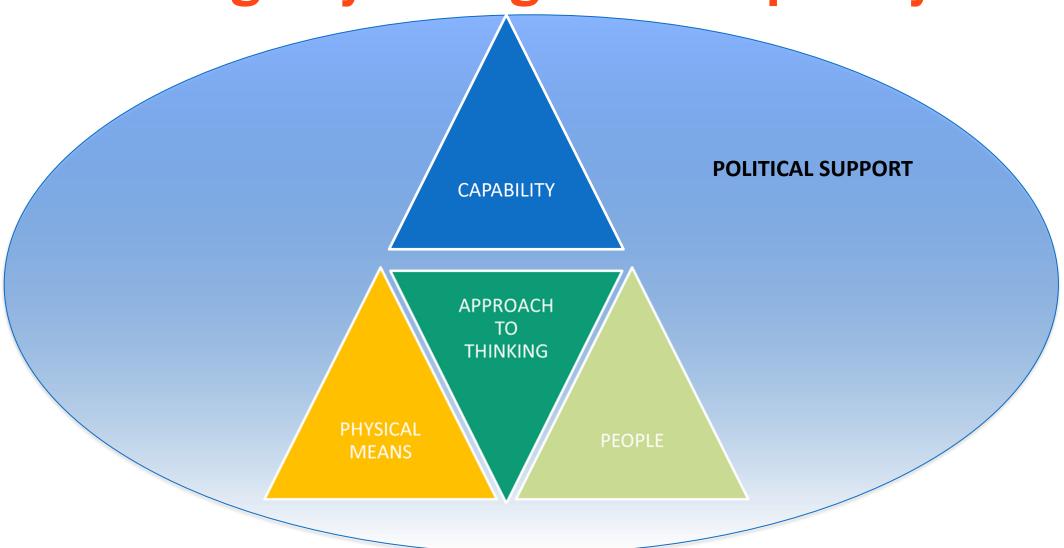
GENERALISED INVASION CURVE SHOWING ACTIONS APPROPRIATE TO EACH STAGE

Version 2.0: 24 JUL 2013





The principles and components of any Emergency management capability





WOAH Emergency Management Preparedness





THEMES



Themes

- Finances and Resourcing
- EXERCISES and simulations
- Communication
- Hardware and Physical means
- Plans
- Collaboration
- - Agencies
 - Countries

- Training
- Systems
 - Legal
 - Hardware
 - Software
 - Design and use



Finances and Resourcing

- Cycle of Biosecurity budgeting it is a big problem of having constant commitment and budget
- Make it clear what you get for the finance and what not
 - What is the Minimal and what Scenarios can need
- Contingency planning must be a dedicated area that needs attention and not just a plan that sits there
 - Resources in place
 - Resources surge coordination
- Temporary hire (contractors) versus fulltime
- Know your stock of consumables and PPE and how to get more
- What Infrastructure is needed



EXERCISES and Simulations

- If you find Hope is part of your plan you need to plan better!
- Find the time make them happen
- Important EXERCISES can be done in small chunks
 - Desktop Drill Functional full scale
- Make them simple
- Multi-agency builds relationships and support. Promote One Health
- Ask the questions who will do what needs to be done?
- Identify Assess Practice Improve
- Make sure the lessons...... are indeed learned!
- EXERCISES can change your whole perspective



Communications

- Communications never been more direct or easy
- Misinformation never been so easy!
- Vital to start communications early seize the initiative
- Same message Single source of truth
- Find allies and 3rd party support
- Promote awareness, biosecurity and reporting
- Communicate Internally up and down
- Risk Communication is key
- Media Training and practice
- Serve a Truth Sandwich if needed!





MODERN COMMUNICATIONS – FRIEND AND FOE



Unofficial



We would rather die than let them kill our flock'

Sandra Barwick finds that Britain's sheep farmers are opposed to the Government policy of mass slaughter

ewes, said yesterday they three weeks, lambing will would rather die than see start in earnest, with possitheir healthy ewes bly 2,000 more to come. They slaughtered. will be in the fields up to 20

do our best to fight them at into the shed. This lambing the farm gates if we have to. I represents their income for would rather be dead than the next 12 months. come back to an empty farm. Compensation is not the

new jails to put farmers in. their stock is slaughtered, it They would have to bring will be six months before troops in to deal with us, not they can restock and 18 the animals, if they want to months before they have any carry it out. That's what income. They could not sureveryone is saving."

Sheen are their only seent

RIAN and Jose- kill the healthy sheep unless phine, Wheatley, they get their act together."

tenant farmers in They have 200 lambs at the Cumbria with 1,200 moment and, in another "We will not accept it," hours every day because said Mr Wheatley, "We will they cannot move the ewes

"They would have to build issue but it is also true that, if vive for that period.

The Wheatleys, who farm The Wheatleys believe at Inglewood, near Penrith, that the effect of the slaughhave built up their herd over ter will make sheep prices 20 years from only 50 ewes. rise by up to three times





Hardware and Physical means

- Lab technology needs staff that does not get burned out
- High throughput and robotics
- IT systems that collate information rapidly
- Means of transport for staff
- Means of transport for samples (dedicated collection system)
- Ability to set up Local Coordination Centres that make staff efficient
- It is not just about expensive kit it is about the people



Mobile Control Centre (Mark 1)





Mobile Control Centre (Mark 2)





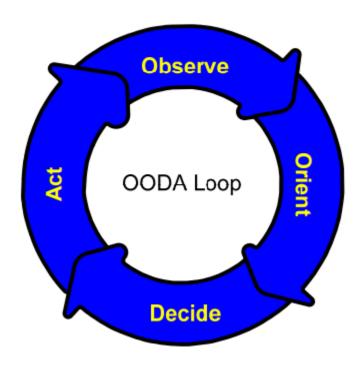
Plans

- Have a plan!
- Test the plan!
- Know how to actually deliver the plan!
- Confirm who and what will deliver the plan!
- Be prepared to change the plan!
- Have a "Battle Rhythm "to push through uncertainty and make decisions
- Have a simple agenda as part of every meeting
- Destruction, Disposal and Disinfection needs planning
- "Plans are for Amateurs Professionals do logistics!" Omar Bradley



OODA Loop Thinking

- Observe, Orientate, Decide, Act - Repeat





Collaboration

- Doing the right thing does not stop you having to explain
- SOPs and Website information makes it easier
- You need levels of collaboration i.e. input from the field, other agencies
- Do not be vet fixated many others contribute
- People collaborate better if they are listened to
- Making quick decisions wins friends
- Lack of cooperation is not personal talk to them
- Relationships allow action Trust allows speed whether a person or a state

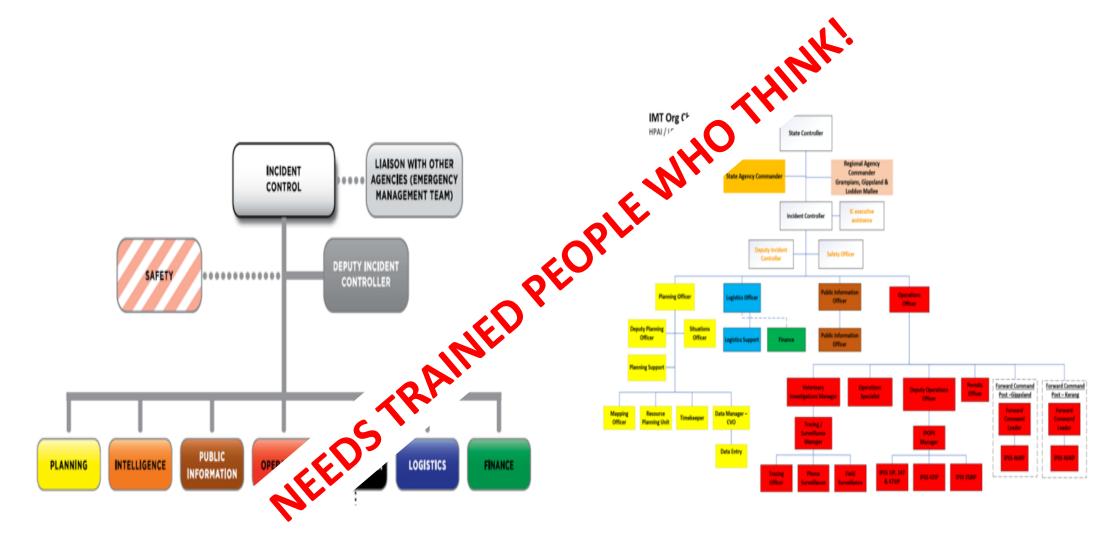


Training

- Training multiples the size of the team you have
 - For Government Veterinary Services
 - For Industry stakeholders
 - For Private Vets, farmers and other stakeholders
- Lots of opportunities GEMP, SEAFMD, EUFMD, WOAH
- EXERCISES and Simulation Exercises are good training
- Make career pathways on the Emergency Mgt side
- Remember veterinary paraprofessionals or Village Workers
- Beware of over training



Emergency Management structures





Systems

- Legal
 - Compliance and enforcement
 - Balance legal with education
 - Enforce
 - Suitable Policy
- Hardware
 - IT that enables
 - Digital movements systems
 - Traceability tech never more available
- Software
 - The right data input that helps make decisions
 - Modelling
 - Farm registration



Future Themes

- Increasing use of WGS use as part of understanding Epi
- Need to find a way to use rapid Point of Care tests ('penside diagnosis')
- Increasing us of online training and EXERCISES
- How to find a role for artificial intelligence
- Increasing size of farms
- Staff demographic changes



Future Themes

- Increasing centralisation in food chains i.e. large processors
- Meeting increasing data protection needs
- Border controls tech drones, animal recognition etc
- Permitting system for business continuity that is in use every day?
- Increasing level of Vector borne disease
- Traceability technology



Thank you