Disaster Management & Risk Reduction Overview

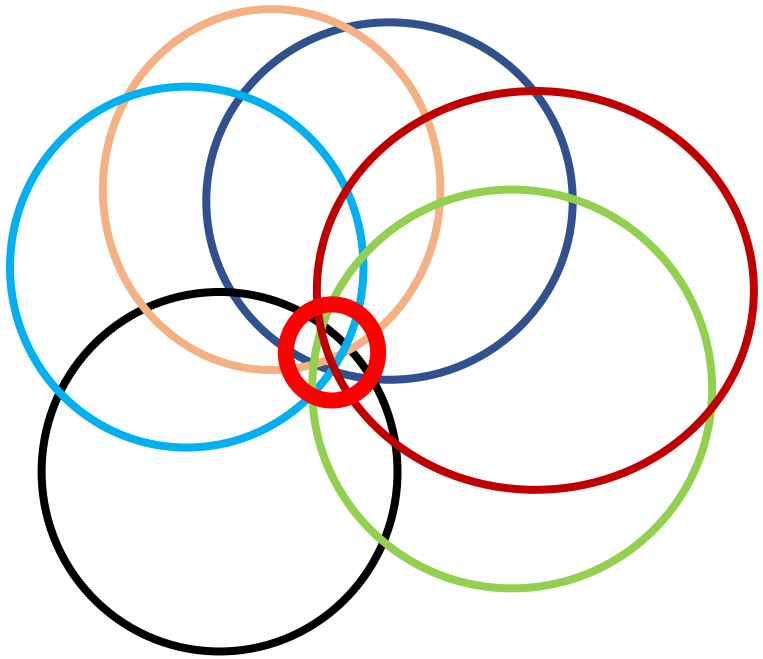
Dr Hayley Squance

HS

Unlocking Potential,
Building Resilience.

Fast onset

Less animals impacted



Many animals impacted

Slow onset

- Marine oil spill
- Geological, meteorological, infrastructure failures
- Biosecurity
- Welfare hoarding cases
- Technical Rescue
- Marine animal stranding

Why Bother with AEM?

Not just animal owners affected

Video: Firefighter Christchurch, Port Hill Fire Horse evacuation permission to use

Animal Emergency Management

- Management function for animal welfare in emergencies

- Emergency management four phases
  - Mitigation
  - Planning
  - Response
  - Recovery

Emergency Management

- Mitigation
  - Building consent, appropriateness of land use
  - Reducing stock density
  - Stockpiling supplemental food
  - Investing in breeds that cope with conditions eg draughts
  - Vaccination programmes
- Planning
  - AEM Plans
  - Public Education
  - Training
- Response
  - Impact and need assessment
  - Rescue, Shelter, Field hospital, field triage
  - Intelligence
- Recovery
  - Restoration of infrastructure
  - Reunification, assess response

VS-CP & VC-RP

Aspect	Contingency Plan	Response Plan
Scope	All phases of DM	Response (and some early recovery)
Focus	Risk scenarios, systems thinking, resource planning	Immediate operational actions
Timeline	Before, during, and after an emergency	During and shortly after an emergency
Used for	Preparedness, continuity, strategic alignment	Incident response, logistics, coordination
Approach	Strategic	Tactical

AEM Principles

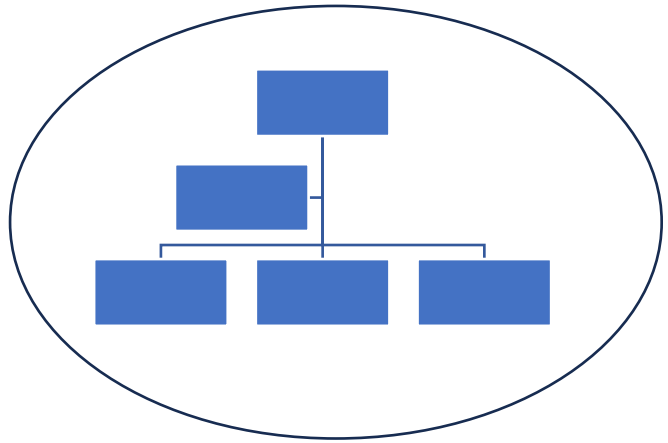
- All species & all hazards approach
- Multiagency
- Transdisciplinary approach
- Human-animal-environment centric
- Humane outcomes

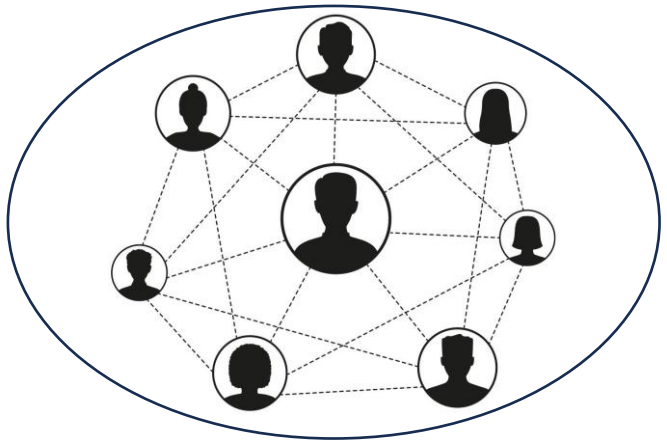
Decisions made in mitigation and preparedness will impact response and recovery

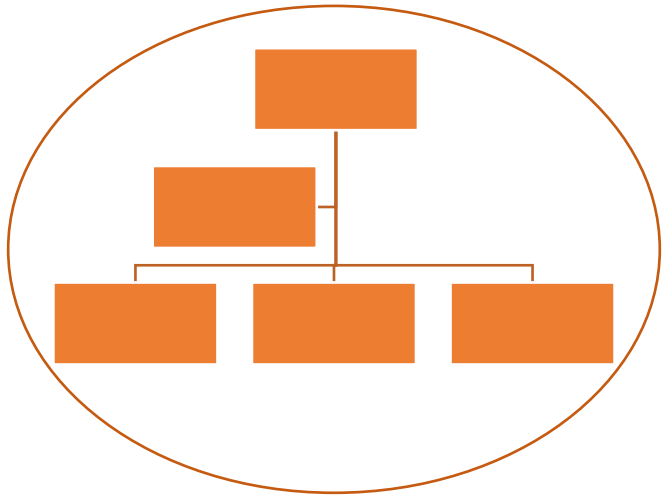
We don’t rise to the level of our plans; we fall to the level of our connections.

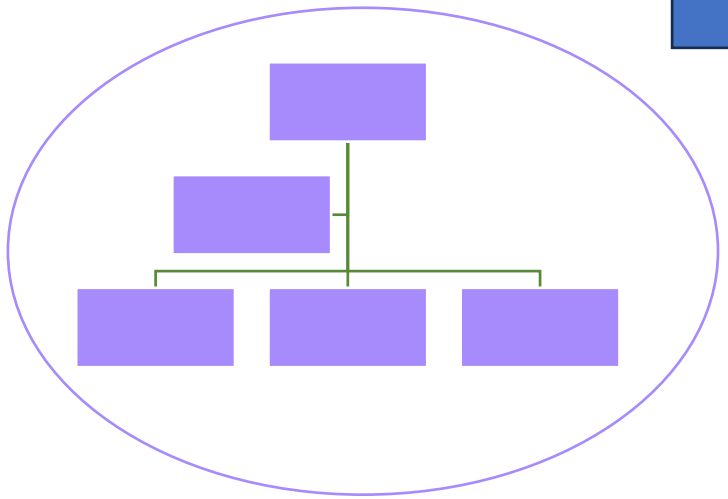
– Inspired by systems thinking

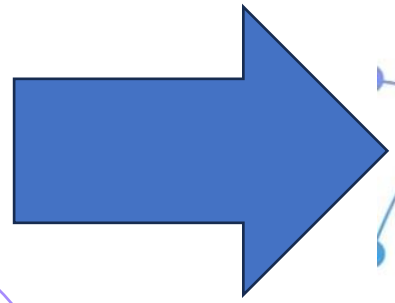
Connection & Networks

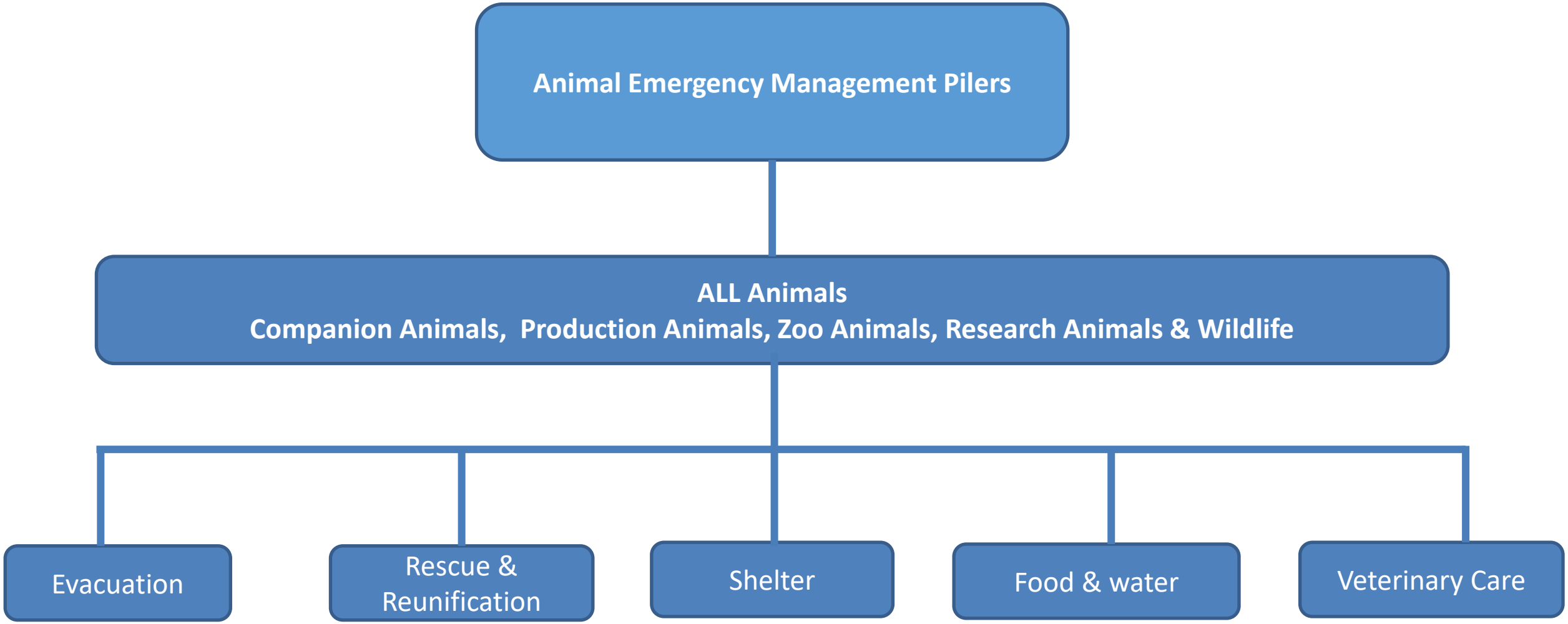











Animal Emergency Management Pilers
ALL Animals
Companion Animals, Production Animals, Zoo Animals, Research Animals & Wildlife
Evacuation
Rescue & Reunification
Shelter
Food & water
Veterinary Care

Roles for Veterinary Professional's Response and Recovery

- First responder
- Emergency Operations Centre
- Emergency Shelter Teams
- Veterinary Practice Preparation
- Collaborative Intelligence Contributors
- Local Veterinary Practice Coordination Hubs
- Recovery Navigators
- Trusted Advisors

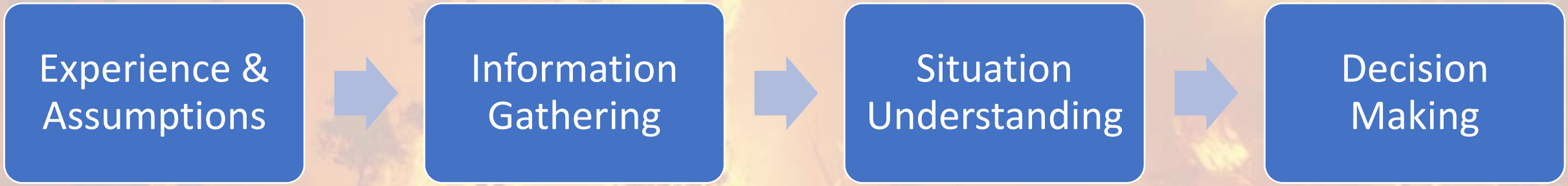
Response phases

- Monitoring
- Activating a response
- Deployment
- Escalation
- De-escalation

IMT – Response Tasking

- Setting the scene
  - Build a constructive and positive culture
  - Set operational periods, response objectives
  - Response tempo – schedule
  - Initiate Action Plan

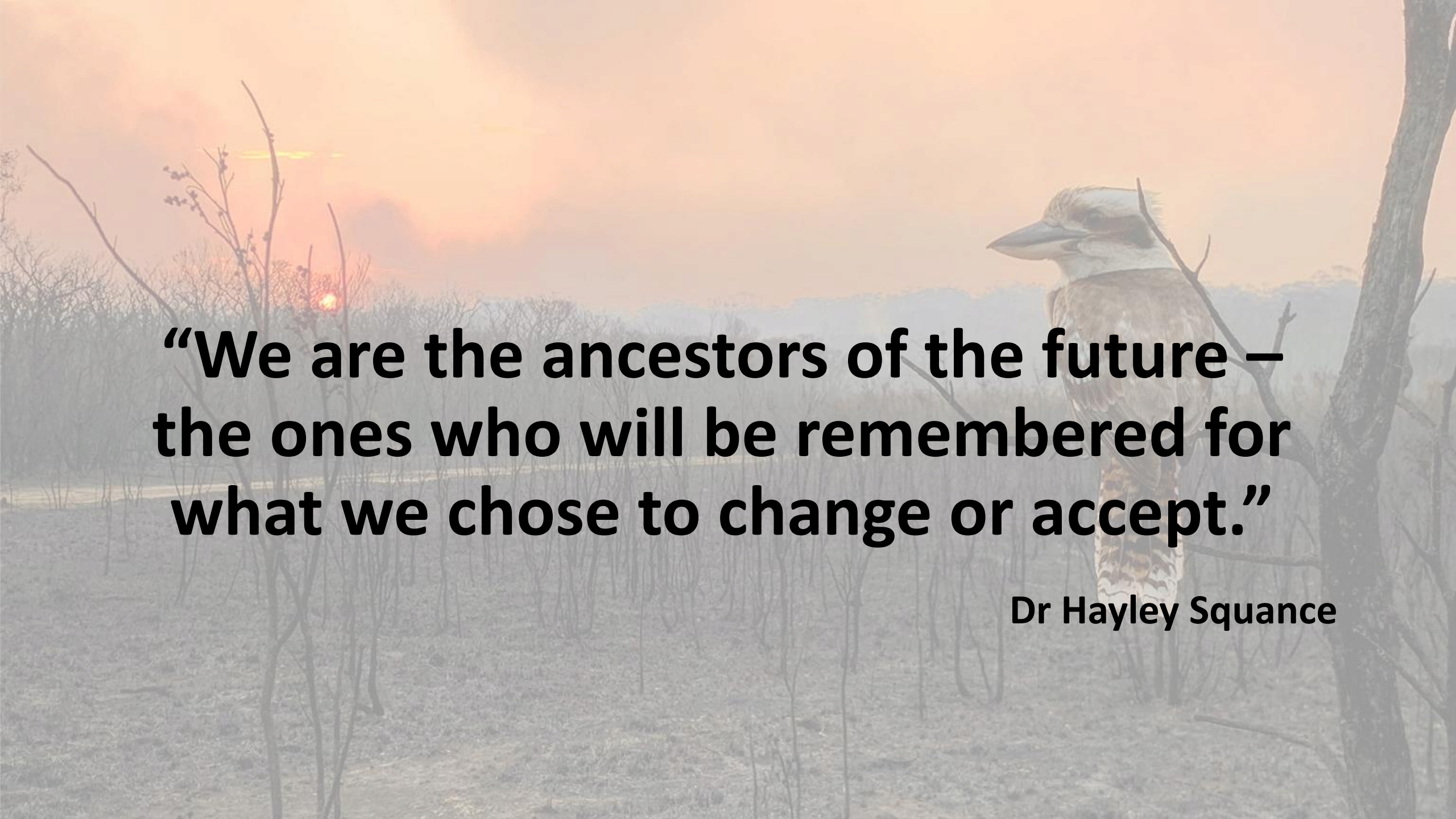
Decision Making Process



Collaborative Intelligence

- Decision making is initially based on assumptions & previous experience
- Situational awareness
- Information → Intelligence
- Ground truthing

Stronger together.
Multiple truths,
woven with humility.


“We are the ancestors of the future – the ones who will be remembered for what we chose to change or accept.”
Dr Hayley Squance

COLLABORATIVE
HELP

Response Lessons

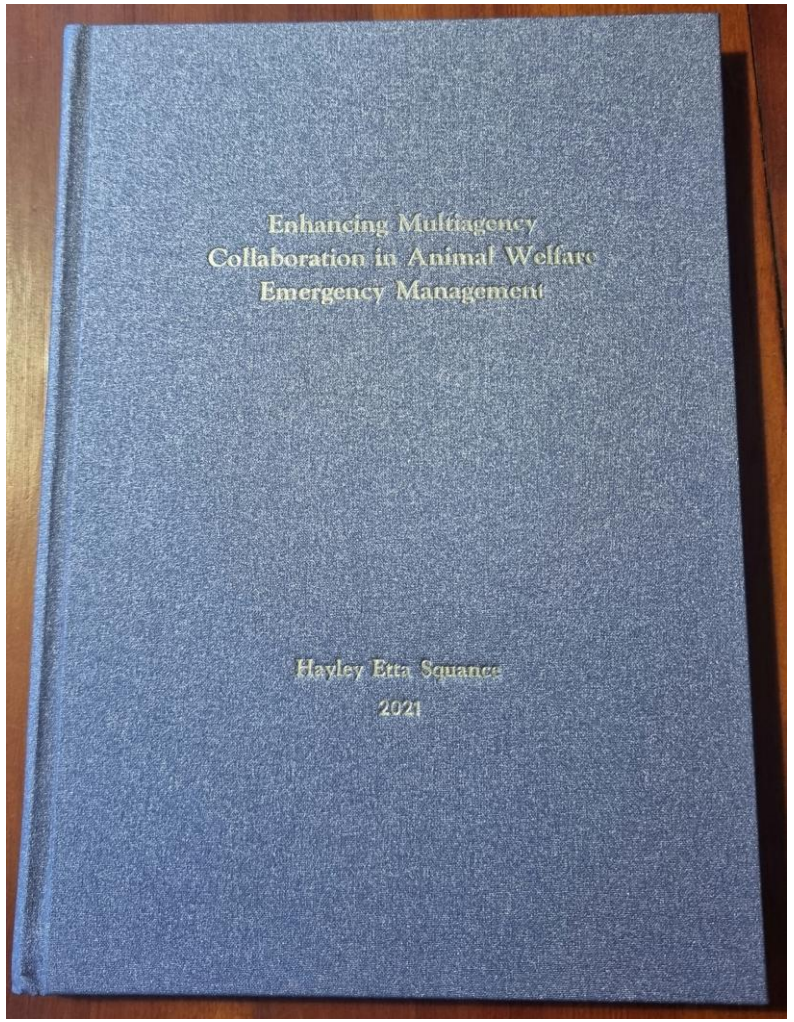
- Shift from inclusion to integration
- Include animal welfare as a key response objective
- Animal welfare on IMT
- Integrate the presence of animals throughout all response functions
- Relational focus – not compliance (biosecurity)

Response Lessons

- Seeing is believing
- Management on property – cordon management
- Management of misinformation
- Holistic consequence management
- Core role of change management

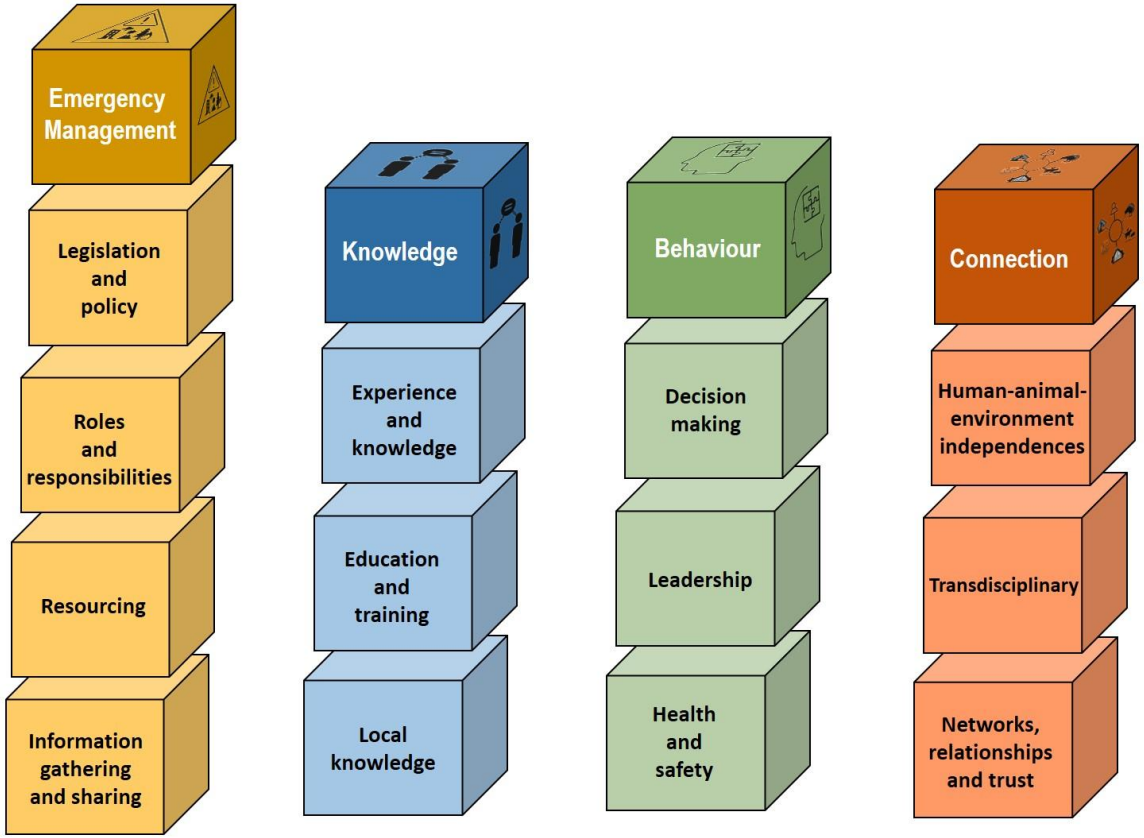
Consequences

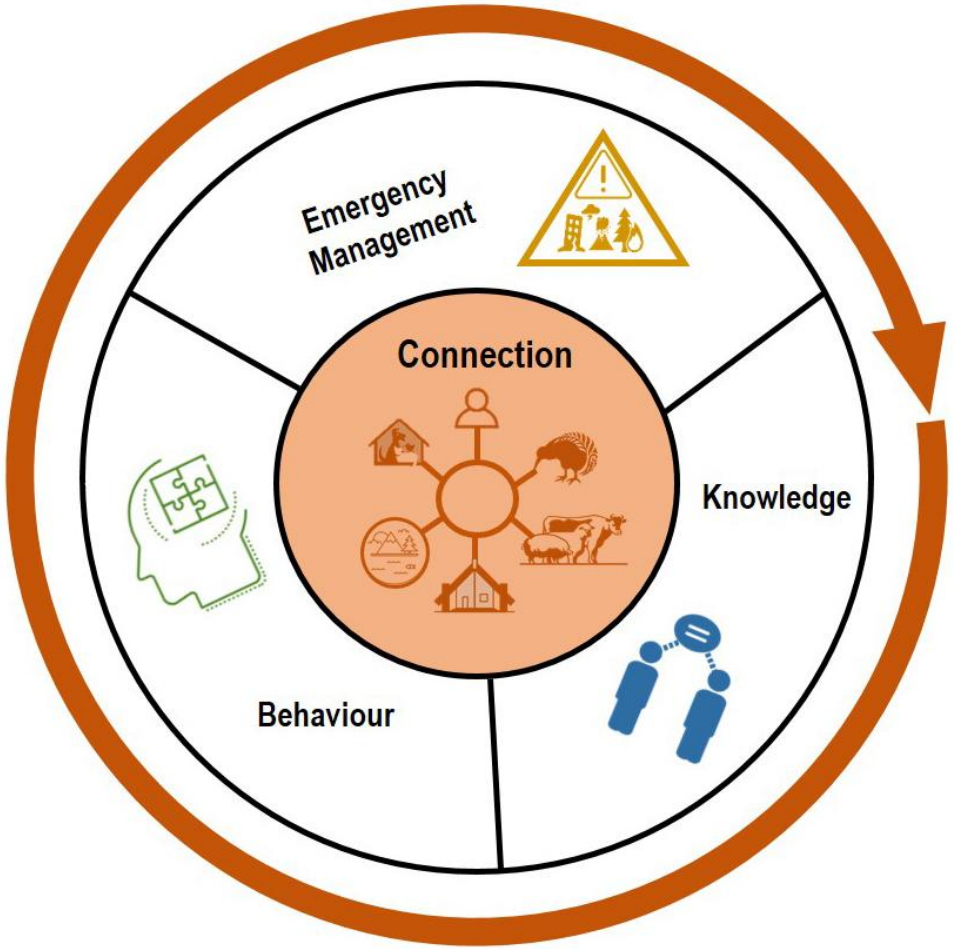
Enhancing multiagency collaboration in Animal Welfare Emergency Management PhD Action Research



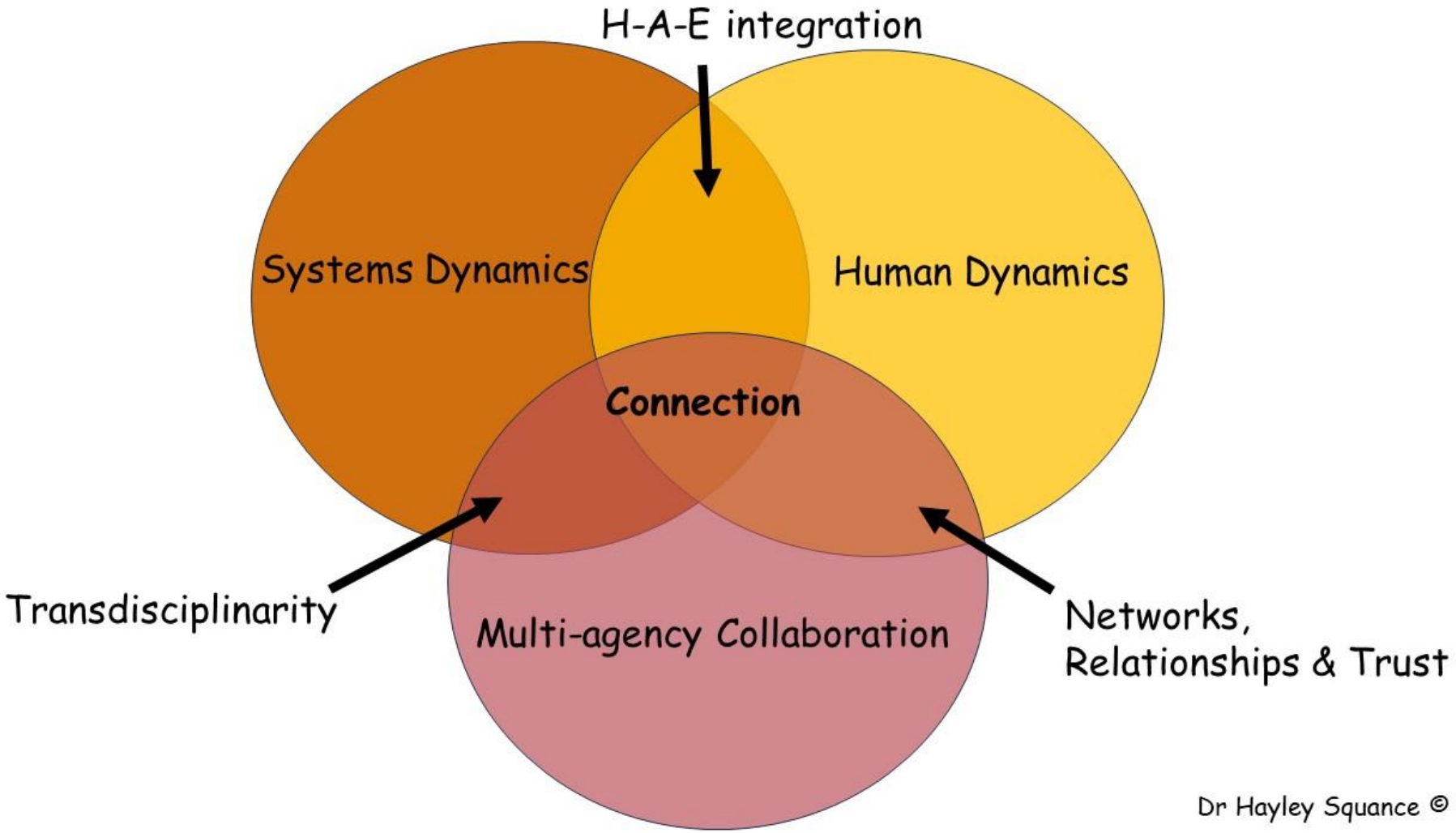
Link to thesis

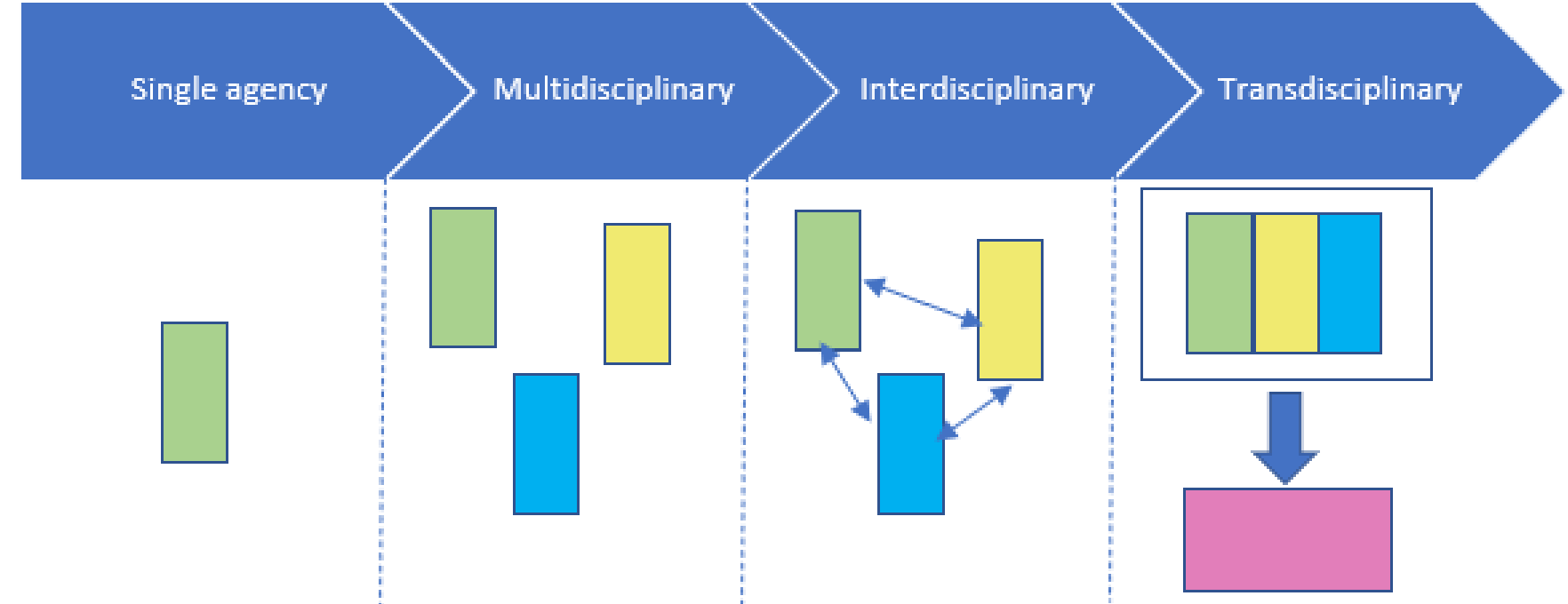
Challenges & Opportunities





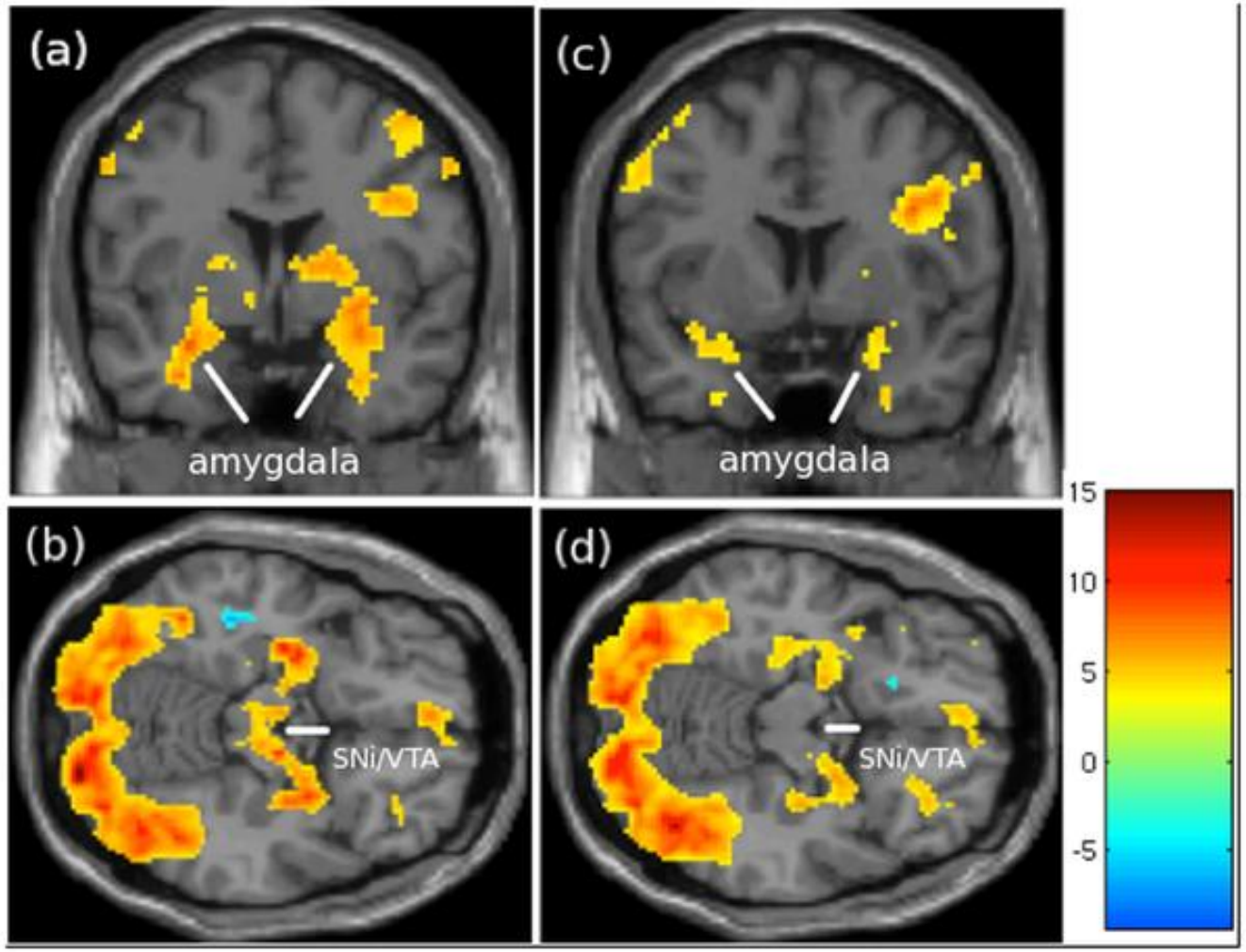
The Power of Connection





Source: Adapted from Matsuura and Razak (2019)

Figure 3. Greater activation for own child (OC) vs. fixation cross (FX; a,b) and own dog (OD) vs. FX (c,d) contrasts in mothers who are dog owners (n = 14).



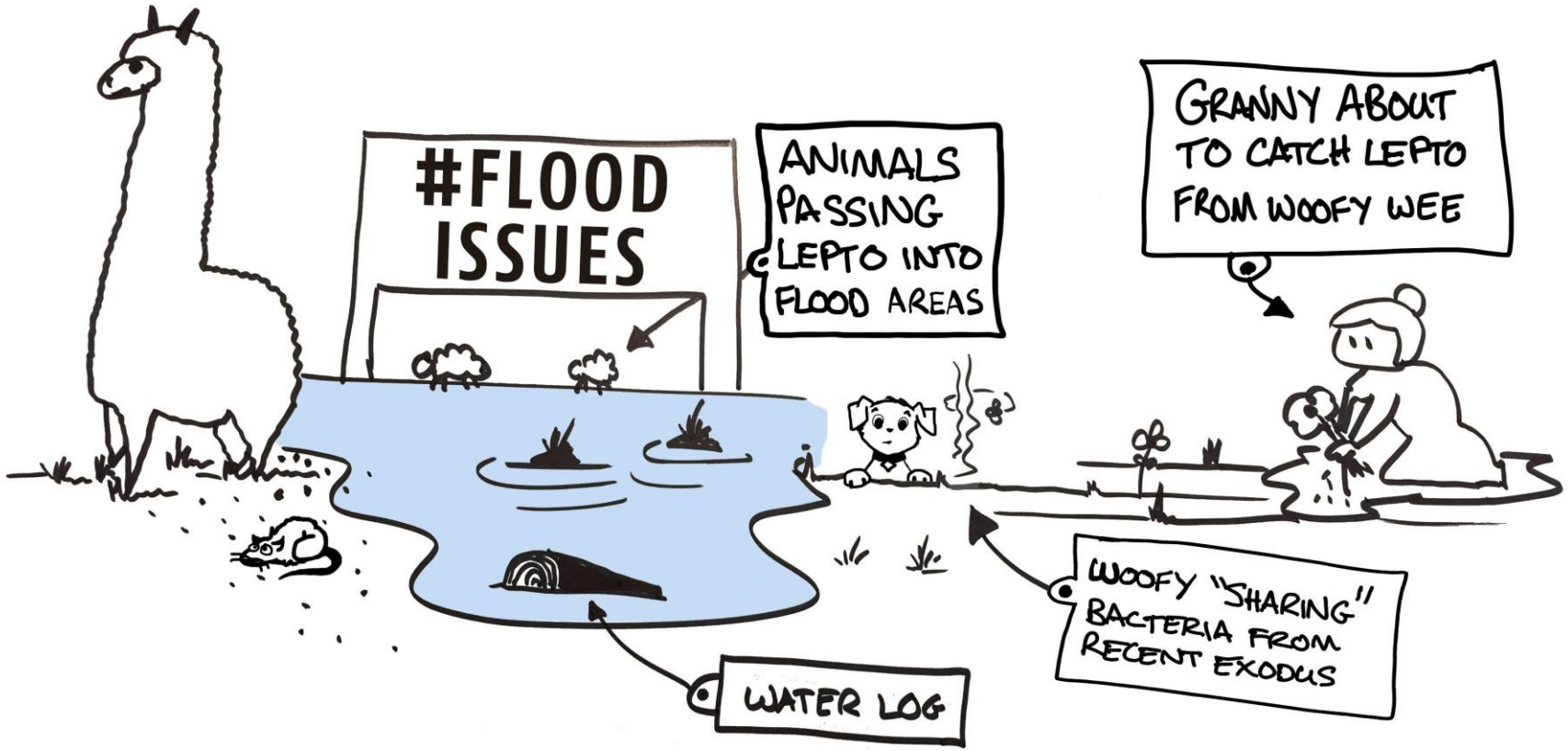
Stoeckel LE, Palley LS, Gollub RL, Niemi SM, Evins AE (2014) Patterns of Brain Activation when Mothers View Their Own Child and Dog: An fMRI Study. PLOS ONE 9(10): e107205. https://doi.org/10.1371/journal.pone.0107205
https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0107205

Stressed Brain Thinking

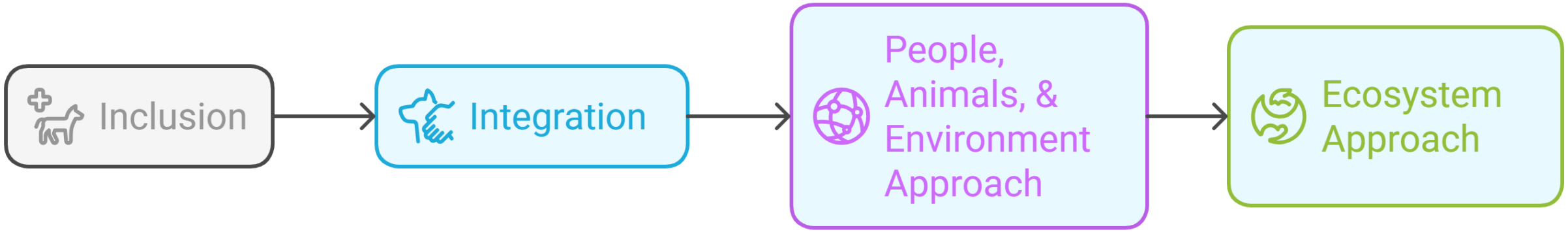
- Become hyper-vigilant - experience negative thinking, always seeing the negative
- Have a sense of urgency – I have to get it done and it has to be done now!
- Emotional - get really tearful, easily upset
- Black and white thinking
- Tunnel vision
- Worst case scenario thinking
- Poor concentration
- Forget everything, lose things etc
- Ruminating, thoughts going around and around

"If I had known of the work happening in the background, I wouldn't have felt so alone".

Animals are the fault line of emergency response & recovery – where cracks in the system are first exposed



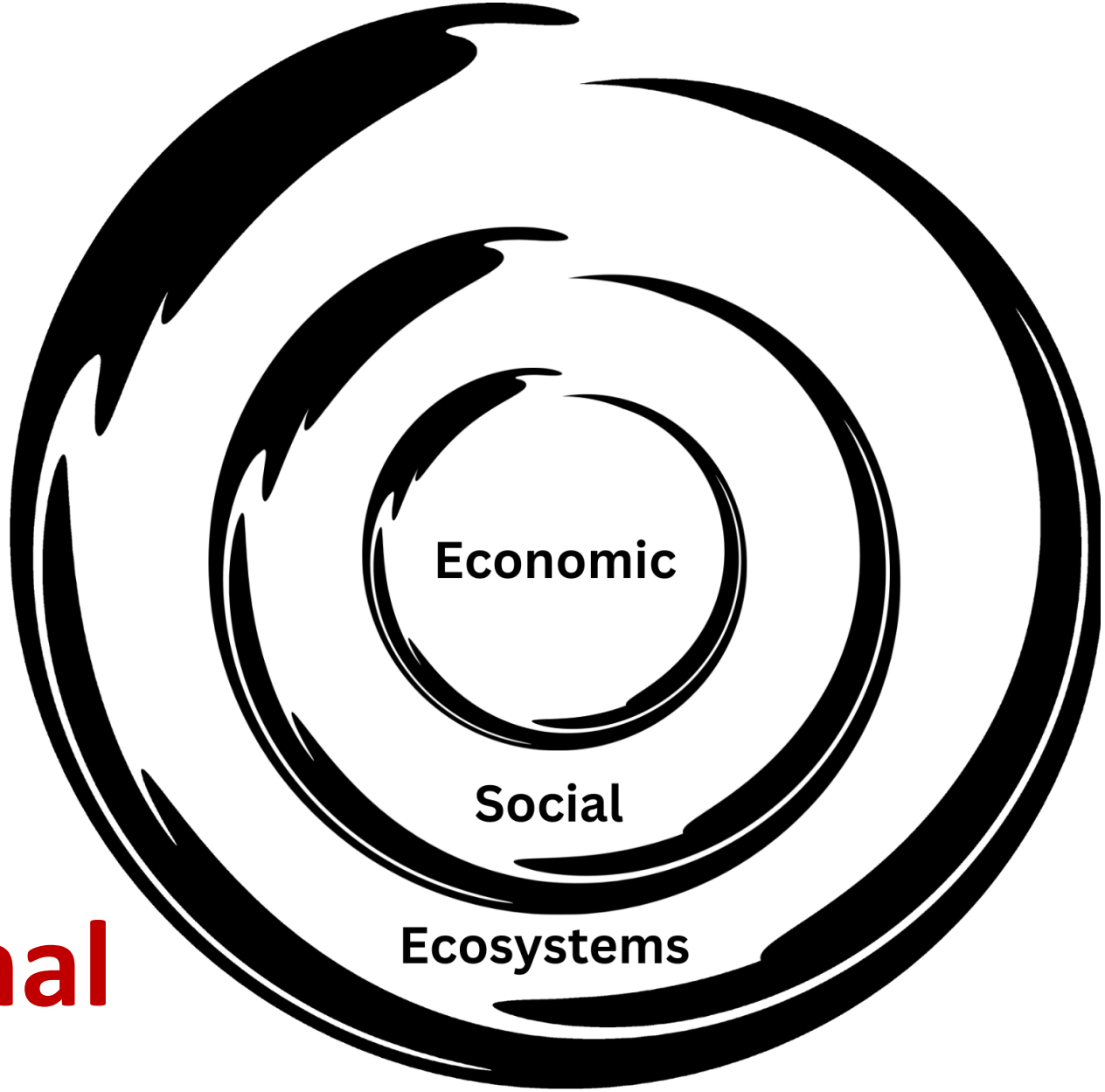
Integrating Animal Welfare into Emergency Management



Procedural

Perspectival

Relational



Inclusion

Integration

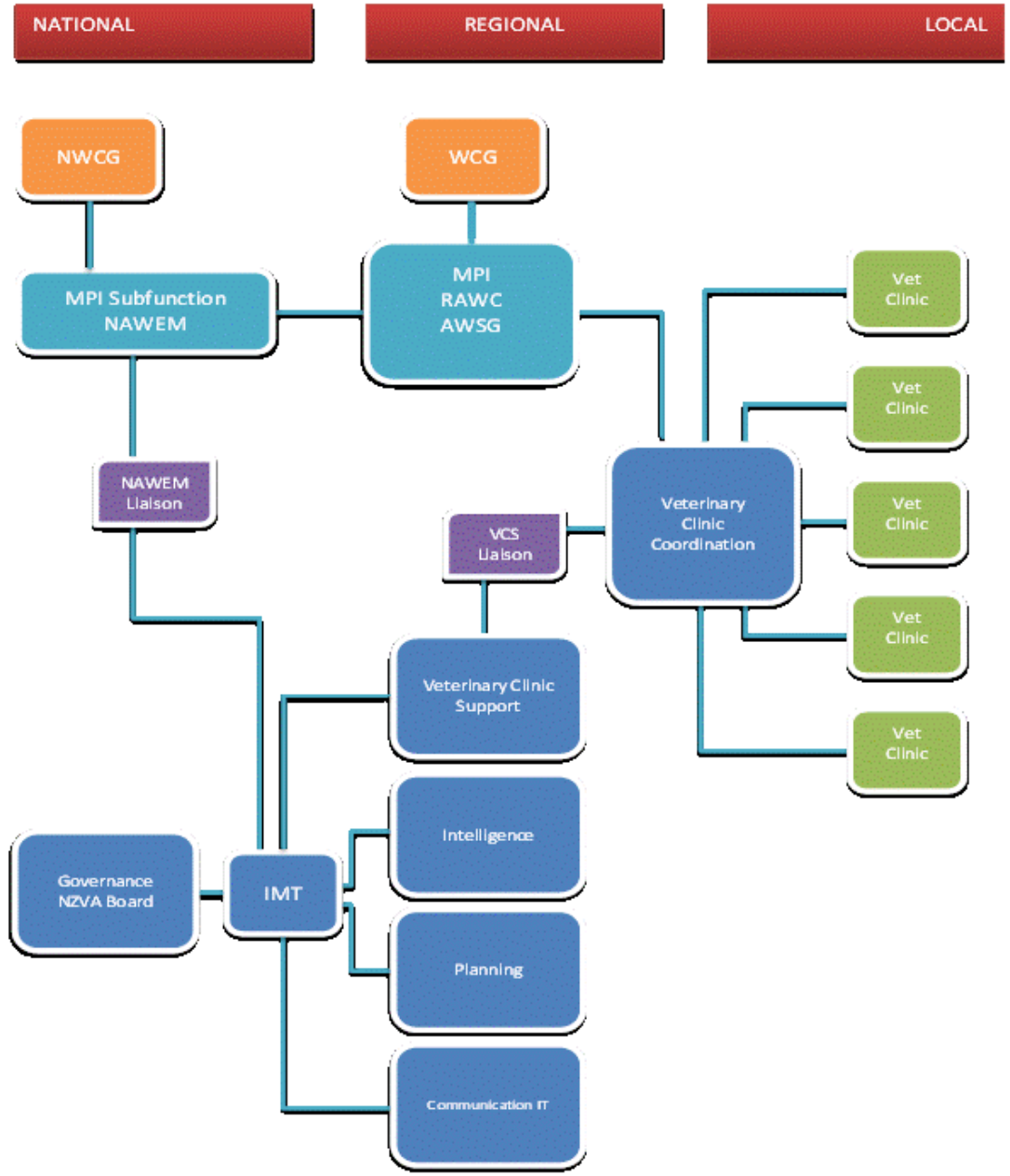
Co-ordinated Incident Management 3rd Ed

Responsiveness to community needs:

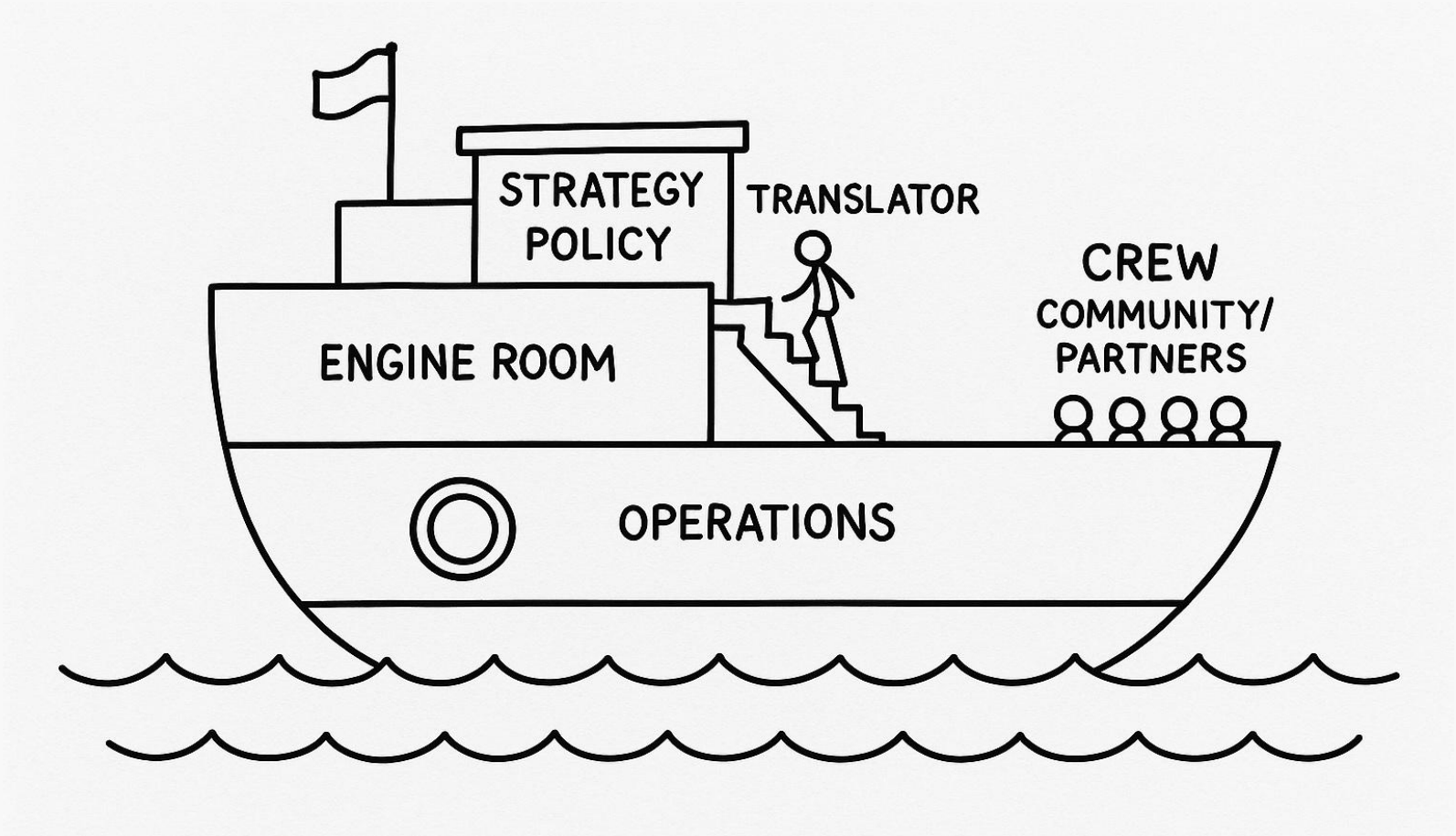
Any response should mitigate and manage the consequences of an incident on the affected individuals, families/whānau and communities, **including animals.**

Response personnel must ……. ensure the needs of affected people and **animals** are identified and met throughout the response and into recovery.

Officials' Committee for Domestic and External Security Coordination (2019), CIMS 3rd Edition, pg 8


NATIONAL
REGIONAL
LOCAL
NWCG
WCG
MPI Subfunction NAWEM
MPI RAWC AWSG
Vet Clinic
Vet Clinic
NAWEM Liaison
VCS Liaison
Veterinary Clinic Coordination
Vet Clinic
Vet Clinic
Veterinary Clinic Support
Vet Clinic
Intelligence
Governance NZVA Board
IMT
Planning
Communication IT

Translational Leadership



Strategies for OW in EM

Connection

Scarcity Mindset

“We won’t get full legislative change.”

“Animals are hard to integrate.”

“It’s a niche concern.”

“Work around the system.”

Possibility Mindset

“We don’t need permission to lead relational change.”

“Animals reveal where the system is already fragmented.”

“It affects the entire population — directly or indirectly.”

“Work through and with others to change the system.”

Kaitiakitanga

“The future is unwritten. The pen is in our hands, in our relationships, in our actions. Let’s be courageous in how we show up – not just for animals, but for the ecosystem we are part of.

Let’s choose kaitiakitanga –together.”

Dr. Hayley Squance

Unlocking Potential, Building Resilience.

Dr Hayley Squance

Hayley Squance Animal Emergency Management

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