

# e-Health and the Haddon Matrix

- Where and How can e-Health Assist  
in Disaster Management -

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# Topics

## - Summary Briefing -

- Introduction
- The Haddon Matrix
- Preliminary Findings
- Future options and activities
- Conclusion

# Goals

- *By the end .....* -

- Will understand the need for expanding e-health applications throughout the disaster cycle.
- Will be familiar with the Haddon Matrix.
- Will recognise the value of the Haddon Matrix as a tool of value in general.



# Understanding *How* e-Health Can Help

- *The Haddon Matrix* -

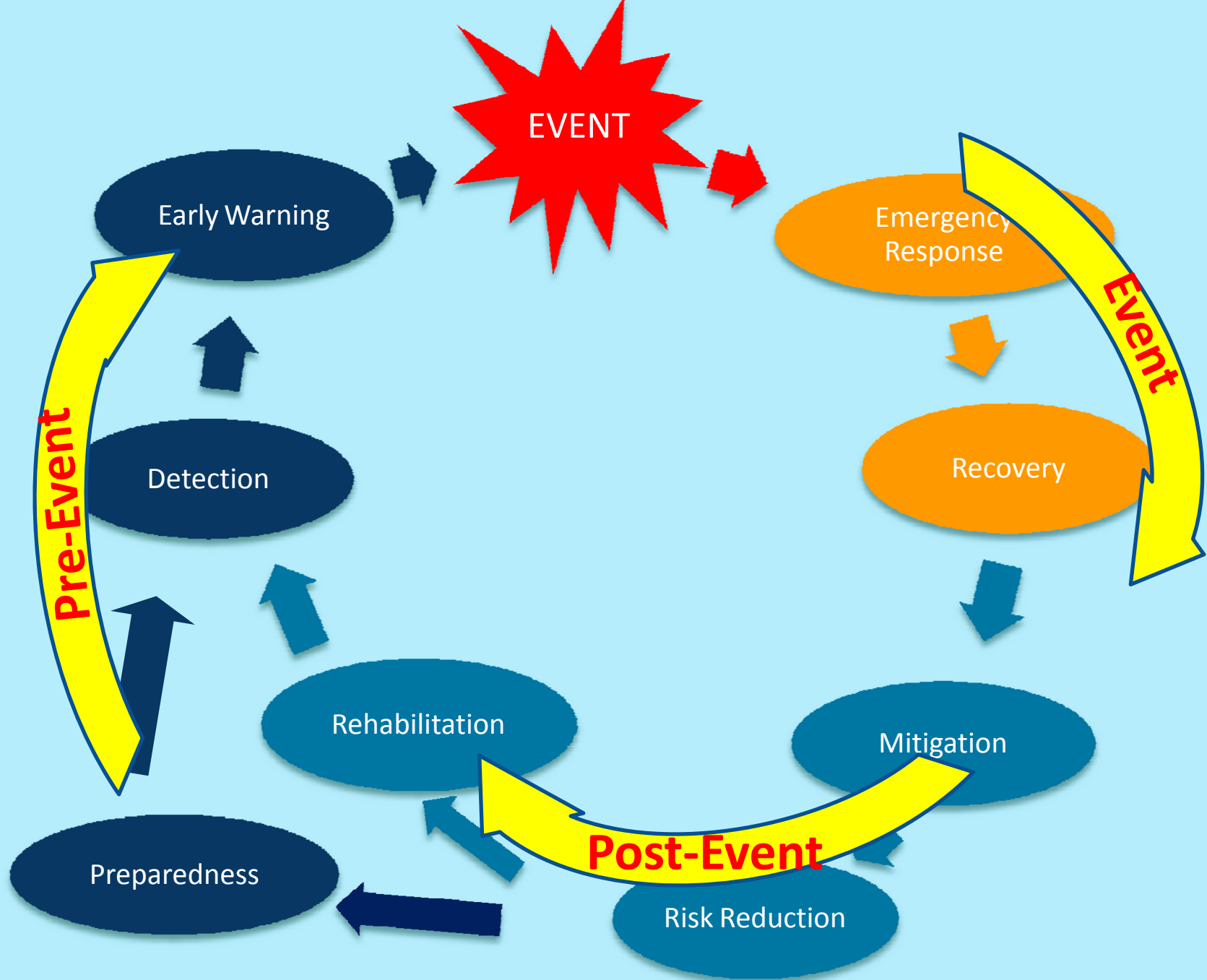
	Host	Agent	Physical Env't	Social Env't
Pre-Event				
Event				
Post-Event				

Haddon's Matrix

# The 'Value' of the Haddon Matrix

- Barnett et al, 2005 -

- “By dissecting a problem into its dimensions of time and contributing factors, the Haddon Matrix can be applied as a practical, user-friendly interdisciplinary brainstorming and planning tool to help understand, prepare for, and respond to a broad range of public health emergencies.”
- DJ Barnett, RD Balicer, D Blodgett, AL Fewes, CL Parker, JM Links. The Application of the Haddon Matrix to Public Health Readiness and Response Planning. *Environ Health Perspect.* 2005;113(5):561–566. broad range of public health emergencies.”



# Understanding *How* e-Health Can Help

- *The Haddon Matrix* -

<b>FACTORS</b>	<b>Human Factors</b>	<b>Agent / Vector Factors</b>	<b>Environmental Factors</b>	
<i>PHASE</i>			<b>Physical</b>	<b>Socio-Cultural</b>
<i>Pre-Event</i>				
<i>Event</i>				
<i>Post-Event</i>				

**Figure 1:** Haddon Matrix format



# Understanding *How* e-Health Can Help

- *The Haddon Matrix* ~ Pre-Event -

- Human Factors:
  - Risk assessment; risk communication; surveillance; primary prevention; preparedness training; first response planning
- Agent / Vector:
  - Prevailing conditions (e.g. weather; 'at risk' zones)
- Physical Environment:
  - Proximity; infrastructure (clinical / transportation)
- Social Environment:
  - Culture of readiness / trust; inter-agency collaboration

# Future Activity

- *Developing the 'e-Health Haddon Matrix' -*

- What are the Factors? (Human, Agent / Vector, Physical Environment, Social Environment)
  - Do Disaster Experts agree?
- What are potential e-Health solutions?
  - Do e-Health Experts agree?
- Virtual Delphi
  - Solid evidence-base
  - Rational resource for research options

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**Thank You**

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