Integration of Psycho-Social Aspects into Risk Assessment & Management and Decision –Making in a Population Health Approach

Louise Lemyre, Ph.D., FRSC School of Psychology, Faculty of Social Sciences Director of 'Groupe d'Analyse Psychosociale de la santé', GAP-Santé McLaughlin Research Chair on Psychosocial Aspects of Risk and Health Center on Governance & Institute of Population Health University of Ottawa And DRDC-CSS Psycho-Social Science Cluster Leader



www.gapsante.uOttawa.ca louise.lemyre@uOttawa.ca

uOttawa

Lemyre, 2008









## Expanding Our Focus: A Population Health Interdisciplinary Approach

### Traditional

- Mortality, Morbidity
- Hazard
- > Occurence
- Individual vulnerability
- > Response
- Treatment
- Decision-Making

### Population Health

- + Social, Resilience
- + Consequences
- + Continuous Pre&Post
- + Community capacity
- + Preparedness
- + Prevention
- + Shared Governance

Lemyre, 2008



# <section-header>







# Relationships Among Elements of the P-RAM Framework











Score	Material / Agent	Equipment to Manufacture & Deliver	Technical Expertise	Knowledge	
<b>9</b> 8	material readily available	no specialized equipment	low level	readily available	
7 6	material easily produced	standard laboratory and dissemination	bachelor degree or technical school level	standard open literature	
5		equipment			
4 3	material difficult to produce	some specialized equipment	advanced technical training	specialized scientific literature or declassified military documents	
2					
1 0	material very difficult to produce or	custom designed / manufactured equipment	advanced specialized technical training	closely held military information	
Fro	) acquire	al. DRDC,2008	1	High 28 - 30 Medium 19 - 27 Low 9 - 10	

9 10,000+ / 100,000+ International Extensive international disruption; Restoration / recovery on the order of decades \$1,000 B   8 [8 = 5,000 / 50,000] International Extensive international disruption; Restoration / recovery on the order of decades \$1,000 B   7 [7 = 2,000 / 20,000] National Extensive national disruption; Restoration / recovery on the order of years [7 = \$50   6 1,000 / 10,000 [5 = \$00 / 5,000] [5 = \$2 B	0 B 200 B] 0 B]
7 [7 = 2,000 / 20,000] National Extensive national disruption; Restoration / recovery on the order of years [7 = \$50   6 1,000 / 10,000 \$10 B [5 = \$500 / 5,000] [5 = \$2 B	i0 B]
5 [5 = 500 / 5,000] [5 = \$2 B	
	2 B]
4 [4 = 200 / 2,000] Provincial moderate - Provincial disruption; Restoration / recovery on the order of months [4 = \$500   3 100 / 1.000 \$100 M \$100 M	500 M] И
2 [2 = 50 / 500] [2 = \$20	20 M]
1 [1 = 20 / 200] Local Minimal impact on capability or capacity, ; [1 = \$5 M capacity, ;   0 10 / 100 or fewer Performing / capacity, ; Performing / capacity, ;	5 M]

Impact	Relative Technical Feasibility			
	High	Medium	Low	Very Lov
Catastrophic	Extreme	Extreme	High	Moderate
Critical	Extreme	High	High	Low
Moderate	High	Moderate	Moderate	Low
Low	Moderate	Low	Low	Low

factors Vulnerability and Intelligence Judgement to establish a risk prioritization rating)								
Vulnerability	Intelligence Judgement							
	Severe	Substantial	Moderate	Low				
Extreme	Immediate	Immediate	High	Emerging				
High	Immediate	High	High	Discretionar				
Moderate	High	Emerging	Emerging	Discretionar				
Low	Emerging	Discretionary	Discretionary	Discretionar				





