Healthcare Service Delivery, Extreme Weather & Chronic Stressors

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Lower Mainland Facilities Management

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Strengthening Resilience for Healthcare Service Delivery

✓ Assess climate risks

✓ Identify resilience actions

✓ Highlight mitigation co-benefits

✓ Review challenges & lessons learned
Project Method

SUSTAINABLE AND CLIMATE-RESILIENT HEALTH CARE FACILITIES TOOLKIT

Project Method

Buildings & Infrastructure

Operations
Sustainability
Climate Risk Preparedness

Assets & Utilities

Contextualize result with site consultation
Conduct resilience assessments
Select and customize tool
Project Method

1. Select and customize tool
2. Conduct resilience assessments
3. Contextualize result with site consultation
Resilience Actions: Examples

**Extreme events**
- **Flood** water contaminating drinking water causing grid water system failure
- **Heat wave** overloading cooling system causing failure(s)

**Resilience actions**
- Install a rainwater harvesting system for utility use
- Plan equipment upgrades according to projected climatic averages & ranges

**Chronic stressors**
- Decreasing snowpack reducing water availability
- Increasing average temperature resulting in gradual increase in # hot days causing discomfort
Resilience & Mitigation Co-Benefits

**Resilience Action**

- Plan upgrades & retrofits to climate projections
- Local food & fuel supply chains

**Mitigation**

- Improved energy efficiency & conservation in buildings
- Fit-for-purpose HVAC systems & critical equipment
- Local, diverse & distributed supply chains
Sustainability & Mitigation Co-Benefits

- Install electric vehicle infrastructure & incentives
- Integrate renewable energy redundancy
- Evolve procurement standards & practices
- Train frontline staff on heat-related illnesses
- Demonstrate passive haus for optimal thermal comfort
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<thead>
<tr>
<th>Challenges</th>
<th>Lessons</th>
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<tr>
<td>Leadership &amp; organization <strong>buy-in</strong></td>
<td>Align with <strong>mandates</strong> &amp; frameworks</td>
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<td>In-region <strong>knowledge &amp; capacity</strong></td>
<td>Develop <strong>communities of practice</strong></td>
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<td>Action <strong>implementation</strong></td>
<td>Identify <strong>action paths</strong> &amp; prioritize <strong>scalability</strong></td>
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<td>Silos &amp; specializations</td>
<td>Use an <strong>holistic</strong> &amp; <strong>inclusive</strong> approach</td>
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Resilience Actions - Adaptation Plans
THANK YOU!

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Questions?