

Project Conclusions and Recommendations

3rd CEC Virtual Expert Workshop







Re-visiting: Context for Trinational Partnerships

- Creating sustainable, institutional partnerships to:
 - Improve prediction and forecasting of extreme events
 - Enhance preparedness for creating effective, timely responses
 - Build the resilience of communities to cope with extreme events
- Value-Add for trinational cooperation:
 - Building on existing partnerships
 - Enhanced forecasting and responses by formulating common approaches
 - Real-time sharing of data and information
 - Reduced economic impacts
 - Cost-savings in data gathering and analysis



- Incorporation of flood-costing methodology in planning for community resilience
 - Uptake into policies at federal, state/provincial and municipal level
- Communities/regions use the most suitable data and information
 - Improved data and tools to support decision making for flood management at the local and national levels
- Enhanced capacity of local and regional emergency managers
 - Improved information sharing for preparedness and emergency response



- Flooding causes significant economic impact across Canada, Mexico, US
 - At least US\$ 17 billion in 2013-2017
- Centralized data gathering creates comprehensive information
 - CENAPRED (Mexico) provisions state-level data
 - Multiple agencies in Canada and the United States make data collection incomplete and complicated
- Flood economic impact data are collected unevenly by various sectors
 - Particularly difficult to find indirect damages and losses



Project Recommendations





- Create mechanisms for real-time provisioning of economic-impact data
 - First responders (link up with other CEC initiatives)
 - Strategic planners at different levels of government
- Engage Indigenous leaders and researchers in resilience-building mechanisms
 - Apply at different levels of governments
- Increase awareness of the comprehensive costs of flood-related impacts
 - Engage first responders, emergency managers and the public
 - Differentiate between direct damages, indirect damages and additional costs/losses
- Commit financial and human resources to enhance data and create new knowledge



Recommendations: Enhanced Data Management

- Streamline data gathering approaches
 - Follow best practices in data collection, management and transparency
 - Particularly applicable to Canada and the United States
 - Fill information gaps, particularly sectoral impacts
- Include Indigenous measures of flood impact in data gathering
 - In-depth engagement with Indigenous communities and leadership
- Create a centralized data repository for the three countries
 - Greater collaboration in joint flood responses and resilience building
 - Analyze continental scale patterns and trends
 - Benefit from economies of scale
- Facilitate flow of data from/to the insurance sector, ensuring confidentiality
- Undertake capacity building and training for data collection, management



- Investigate methods for interlinking economic impacts of cascading hazards
 - Extend CEC methodology for application to wildfires, droughts, hurricanes, snowstorms, landslides
- Conduct in-depth analysis on spatial representation of data
- Link flood-cost data to flood risk maps at different scales
 - Better design future efforts to build resilience
- Explore best practices to integrate simulation models
 - Focus: Assessing long-term indirect economic impacts