

Overview of Draft Objectives, Actions and Outcomes

Stakeholder Workshop
January 28, 2014

**Draft - Does not Represent a Decision
or Position of Government**

Draft Strategy Elements

Goals:

- Increase public safety and avoid personal hardships;
- Reduce flood damage to properties, infrastructure and the environment;
- Increase community resilience;
- Achieve cost savings for the taxpayers of New Brunswick; and
- Reduce uncertainty about flood risk, leading to better decisions.

Draft Strategy Elements

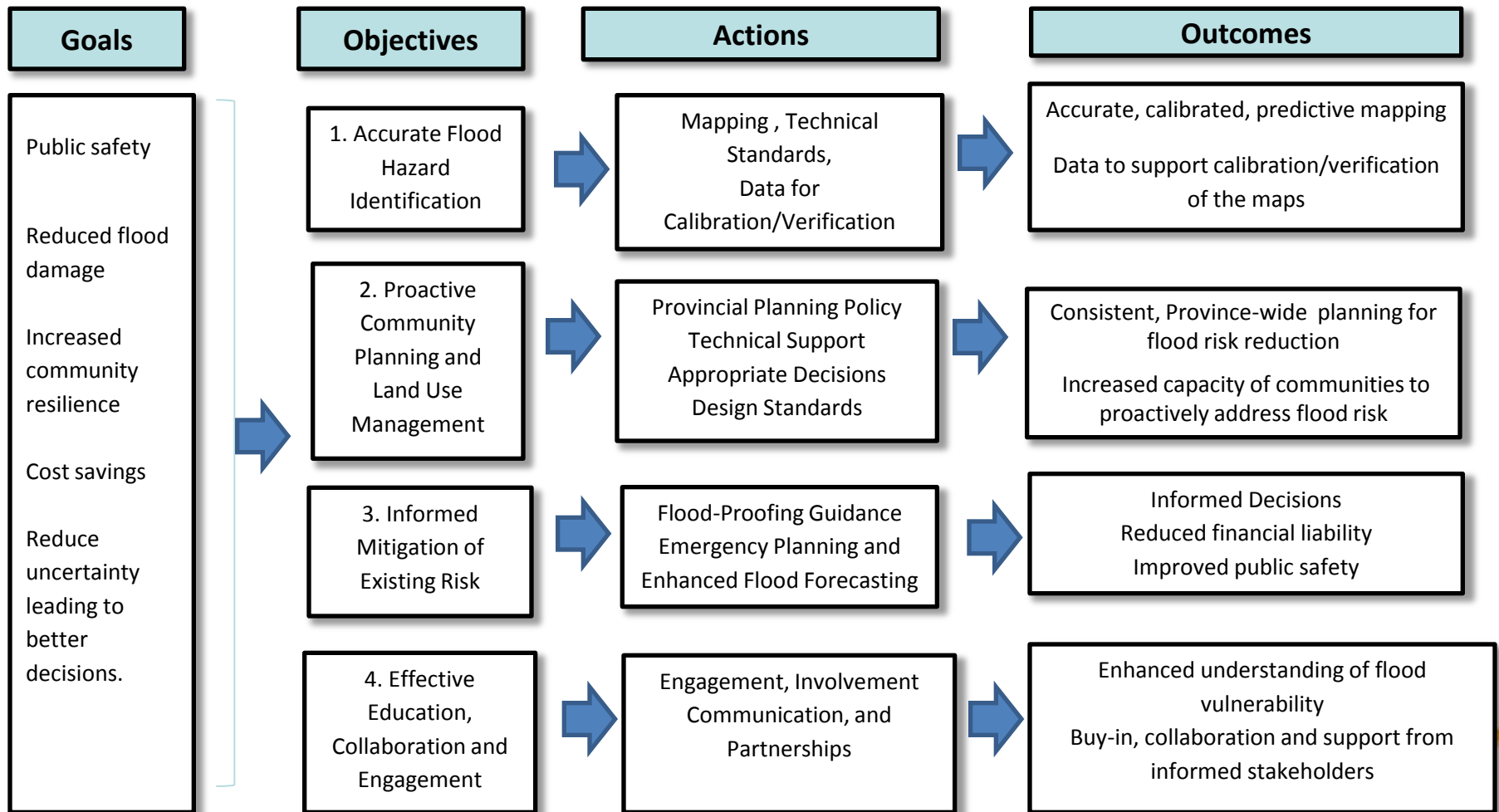
Objective 1: Accurate Flood Hazard Identification for the Public: *Accurate identification of locations where future floods are likely to occur.*

Objective 2: Proactive Community Planning and Land Use Management: *Fair and equitable planning to manage flood risk for future development.*

Objective 3: Informed Mitigation of Existing Risk: *Reduced risk for people, buildings and infrastructure already located in flood hazard areas.*

Objective 4: Effective Education, Engagement and Collaboration: *Greater public awareness about flooding and a greater degree of engagement and collaboration in managing flood risk.*

Draft Framework: New Brunswick Flood Risk Reduction Strategy



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Questions

- Is the objective worthwhile (necessary, important)?
- Are there key actions that in your opinion are missing in order to achieve the objective? What are they?
- Who should be leading the actions? What role should there be for others than government?
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Objective 1

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Objective 1: Accurate Flood Hazard Identification for the Public

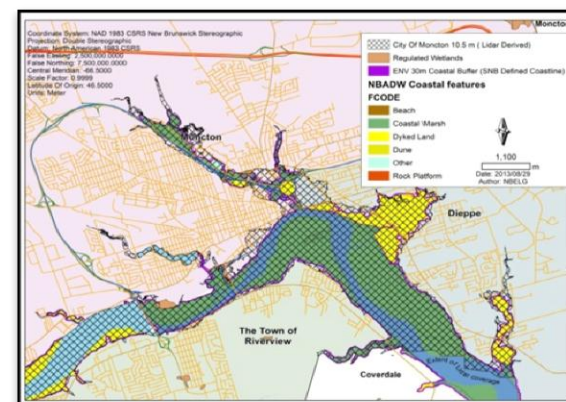
Challenges:

- Many of NB's flood hazard maps are decades old and do not incorporate anticipated impacts of climate change.
- Accurate flood hazard mapping requires a variety of inputs including accurate topographic information and environmental data.
- Not a one-time activity due to on-going changes in climate, land cover and land use.

Objective 1: Accurate Flood Hazard Identification for the Public

Draft Actions:

1. Update and add to New Brunswick's existing set of flood hazard maps.
 - Adopt appropriate technical mapping standards
 - Acquire necessary data
 - Calibrate completed mapping
 - Establish renewal cycle
2. Engage local communities in the flood hazard mapping process.
 - Partner with other jurisdictions, educational institutions, technical experts and local communities



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Objective 1: Accurate Flood Hazard Identification for the Public

Desired Outcomes:

- Accurate, calibrated, predictive mapping.
- Maps are based on up to date technical standards and incorporate latest climactic information.
- Available data to support calibration/verification of the maps.

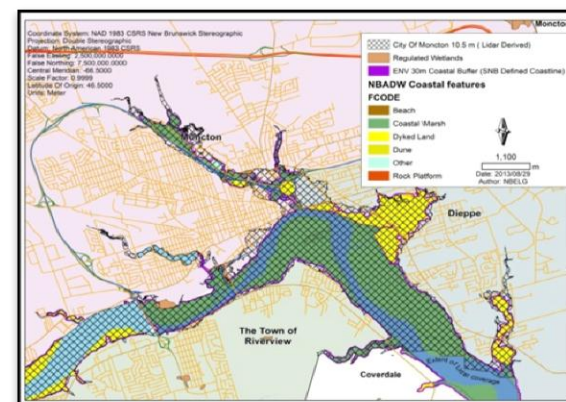
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Objective 2

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Objective 2: Proactive Community Planning and Land Use Management:

Challenges:

- Past approaches to land use planning in NB have led to an inconsistent response to flood risk across different communities.
- Some inappropriate development has continued to occur on lands that are subject to flooding.
- Drainage systems (e.g. ditches and culverts) need to incorporate the latest climactic data into their design and sizing.

Objective 2: Proactive Community Planning and Land Use Management:

Draft Actions:

3. Develop a provincial policy to guide development and activities in flood hazard areas along with supporting information for communities.
4. Make sure that flood risk is addressed when the province funds or approves development and activities.
5. Promote design and engineering standards for storm water management based on the latest available climate data.



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Objective 2: Proactive Community Planning and Land Use Management:

Desired Outcomes:

- Consistent, province-wide planning approach for flood risk reduction.
- Increased capacity of communities to proactively address and respond to flood risk.
- The Province leads by example by considering flood risk in the location, design, funding and approval of new development and infrastructure.

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Objective 4: Effective Education, Engagement and Collaboration: *Greater public awareness about flooding and a greater degree of engagement and collaboration in managing flood risk.*

Objective 3: Informed Mitigation of Existing Risk

Challenges:

- Development exists along rivers and coastlines in areas prone to flooding putting the people, buildings and infrastructure in these areas at risk.
- There is no province-wide flood forecasting system for rivers other than the St. John River basin.

Objective 3: Informed Mitigation of Existing Risk

Draft Actions:

6. Provide guidance on how to “flood-proof” public and private property and infrastructure.
7. Engage regions and municipalities to ensure that flood contingency plans are prepared and practiced.
8. Make enhanced flood hazard/forecasting products available to assist in emergency planning efforts.
9. Investigate the feasibility of extending river flood forecasting beyond the St. John River.



Objective 3: Informed Mitigation of Existing Risk

Desired Outcomes:

- Individuals, businesses and communities have the tools they need to make informed decisions about how best to protect private and public property from the impacts of flooding.
- Reduced public and private financial liability.
- Improved public safety.

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Objective 4: Effective Education, Engagement and Collaboration:
Greater public awareness about flooding and a greater degree of engagement and collaboration in managing flood risk.

Objective 4: Effective Collaboration, Education and Engagement

Challenges:

- Resources are scarce, therefore innovative ideas and approaches are needed to address funding needs.
- People may not be fully aware of the location of their properties in relation to flood hazards, or fully understand the risks involved in living and working in these areas.
- Preparing predictive flood hazard mapping is complex and it is important for local communities to have an opportunity to understand how the maps are produced.

Objective 4: Effective Collaboration, Education and Engagement

Draft Actions:

10. Improve and build on existing tools for education, communication, collaboration and engagement.
11. Provide support, analysis tools, and guidance to help communities implement community-based flood risk reduction plans.

Objective 4: Effective Collaboration, Education and Engagement

Desired Outcomes:

- Enhanced understanding of flood vulnerability.
- Buy-in, collaboration and support from informed stakeholders.
- Required resources are available to support the renewal of the province's existing set of flood hazard mapping.

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