

The Municipal Flood Line Mapping Project

PRESENTATION TO THE NOVA SCOTIA FEDERATION OF MUNICIPALITIES

6 NOVEMBER 2019



Cow Bay, NS
Jan 2018, CBC

Background Information

- ▶ Why does DMAH care about flooding?
 - ▶ Municipal Government Act
 - ▶ Statements of Provincial Interest
 - ▶ Emergency Management Office (EMO)
 - ▶ Front lines and Disaster Financial Assistance Arrangement (DFAA) Admin
 - ▶ Grants and Infrastructure
 - ▶ Flood Risk Infrastructure Investment Program (FRIIP)

Background Information

▶ Past Work

▶ Gas Tax Transfers to Municipalities

▶ Integrated Community Sustainability Plans (ICSPs)

▶ Climate Change

▶ Municipal Climate Change Actions Plans (MCCAPs)

▶ Flooding was the number one theme across NS

▶ Municipalities need guidance and support to address flooding

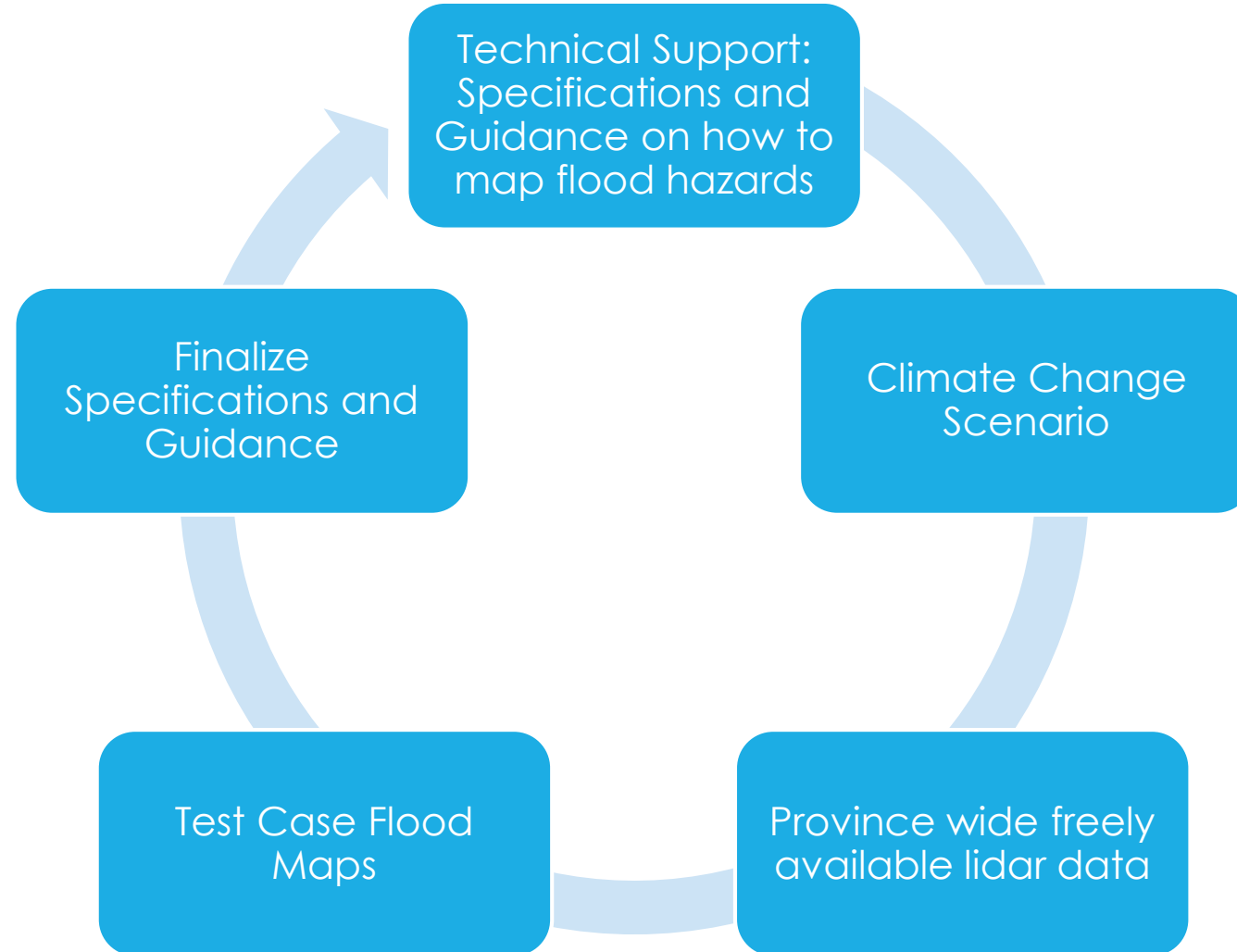
▶ Municipal Floodline Mapping Project (MFLM)

▶ DMAH with support from Environment and Geonova (Internal Services)

The Project

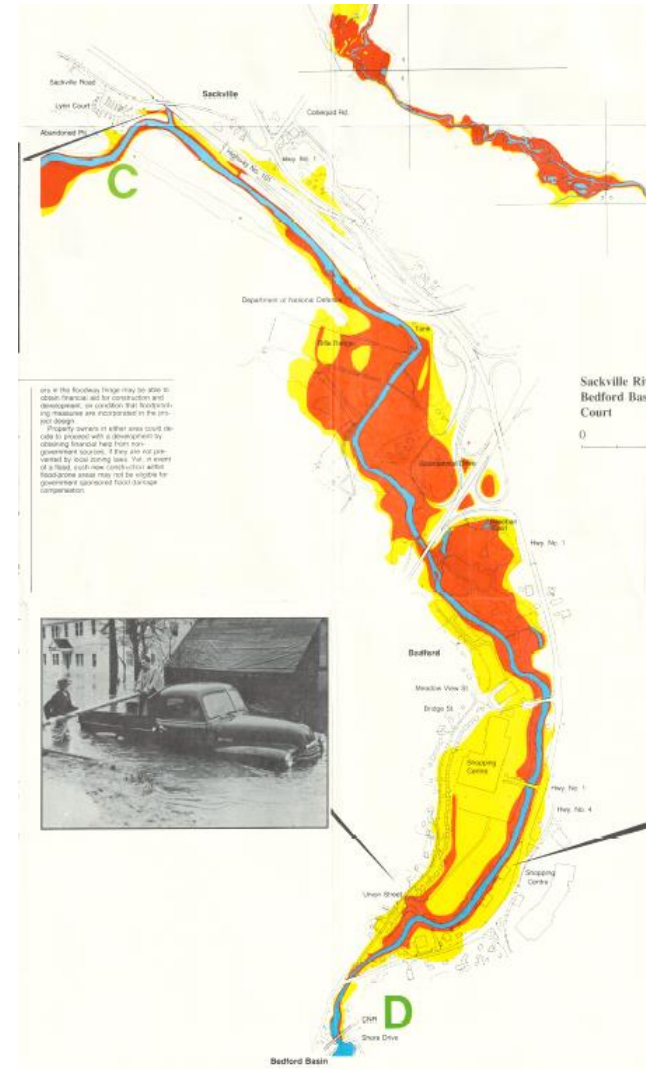
- ▶ National Disaster Mitigation Program – Public Safety Canada
 - ▶ Provincially/Federally Cost Shared
 - ▶ 2018/2019 – 2019/2020
 - ▶ \$1.9M
- ▶ Objectives
 - ▶ Remove barrier for Municipalities
 - ▶ Map Flood Hazards to discourage development in unsafe places
 - ▶ Climate Change Adaptation Planning

Project Components

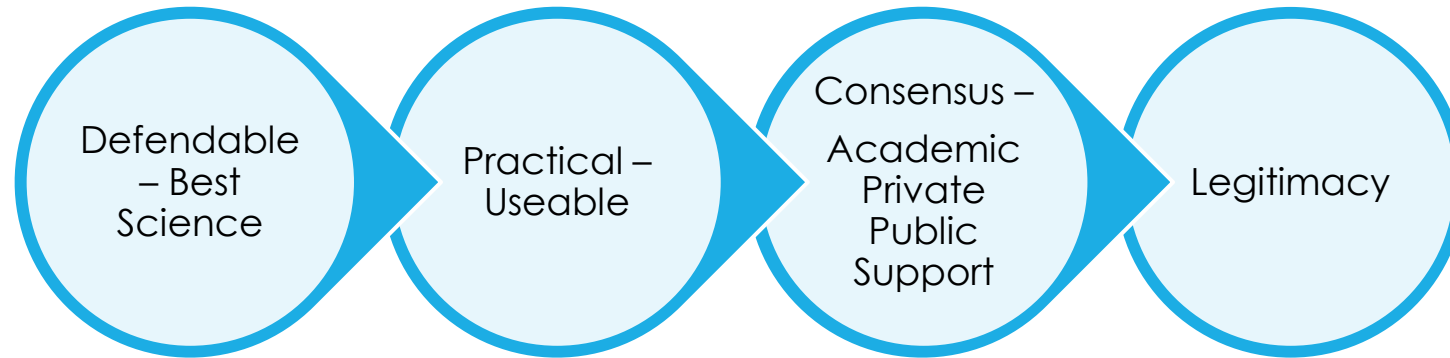


Statement of Provincial Interest

- ▶ **Floodway Fringe** means the outer portion of a flood risk area, between the floodway and the outer boundary of the flood risk area, where the risk of flooding is lower, with an Annual Exceedance Probability of 1% (on average once in one hundred years), and floodwaters are shallower and slower flowing
- ▶ **Floodway** means the portion of a flood risk area where the risk of flooding is greatest, with an Annual Exceedance Probability of 5% (on average once in twenty years), and where flood depths and velocities are greatest



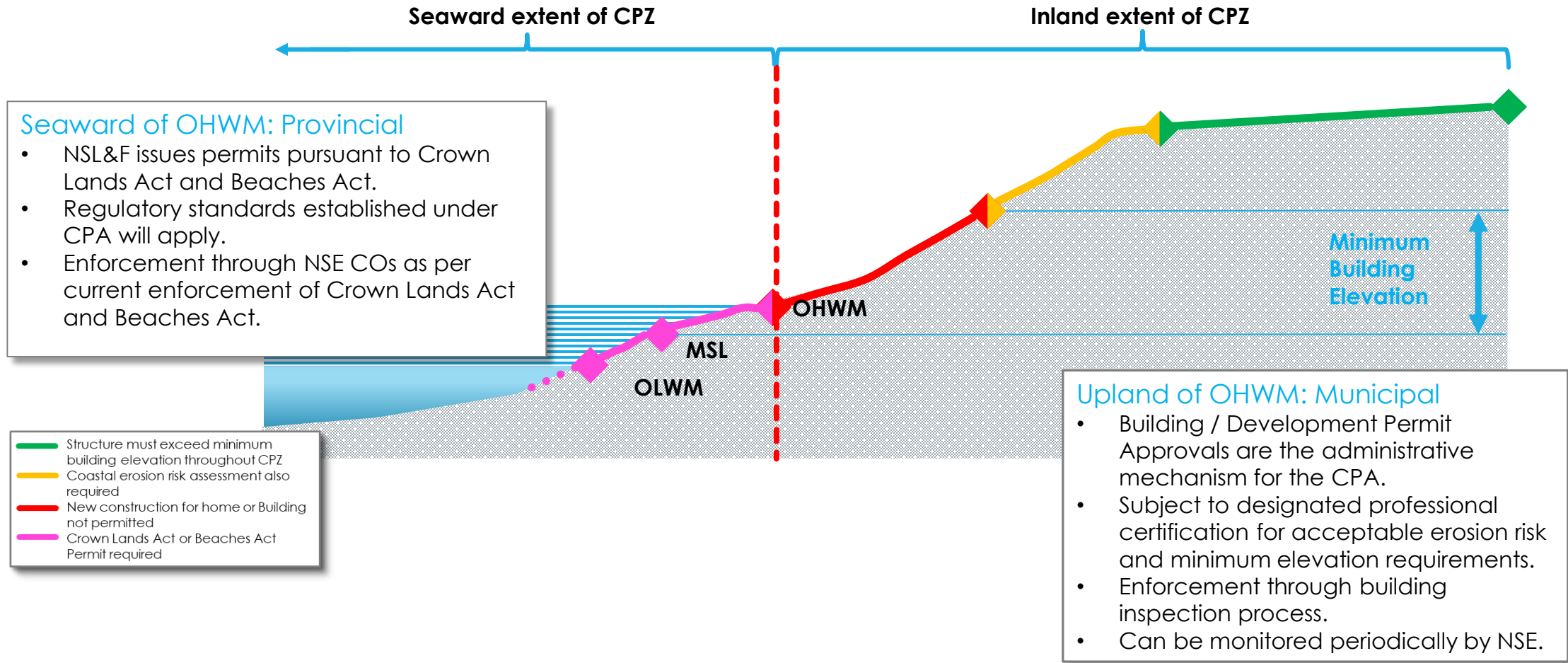
Climate Change



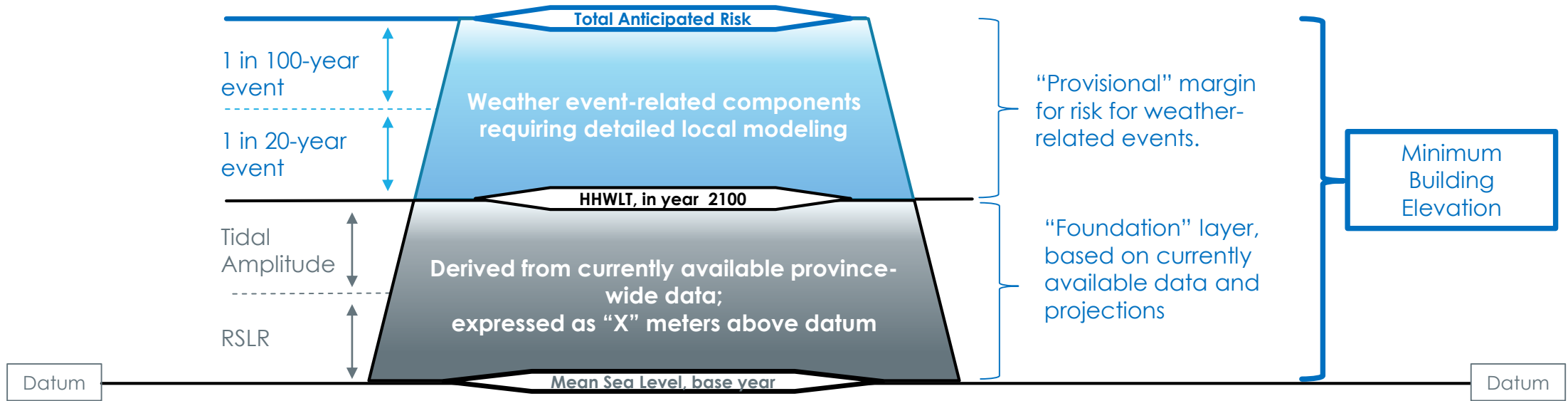
- ▶ Multidisciplinary Approach
- ▶ Interdepartmental Collaboration
- ▶ Academic Working Group
- ▶ Rainfall Changes and Sea Level Rise and Storm surge
 - ▶ Methods and Data
- ▶ Peer Reviewed
- ▶ Next Step is testing scenario



Coastal Protection Act



Comparing Statements of Provincial Interest and Coastal Protection Act



So where are we at?

- ▶ Draft climate change scenarios complete
- ▶ Specifications and guidance underway
- ▶ Test case areas selected and short list of consultants selected
- ▶ Aiming to finish flood mapping project by end of fiscal
- ▶ Coastal Protection Act Regulations under development and consultation will be happening in the next while



Truro, Exit 14, Jerry Watson