Introduction

- Round table: brief intro of participants

- History of modelling in Canada

- Role in flood risk modelling

- Gap in tools/motivation

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History of Flood Risk Modelling in Canada

Flood Risk Modelling Tool	Year Developed	Province	Scale	Spatial	Consequences Calculated
FDDBMS	Early 1980's	AB, SK, MN	● Bldg	No	Economic
FLDAM	1989	ON	● Bldg	No	Economic
PFDAT/RFDA	2014	AB	● Bldg	QGIS	Varies
HAZUS-MH Canada	2016	Canada	● Aggr ● Bldg	ArcGIS	Economic, Social Physical
ER2	2018	Canada	● Aggr ● Bldg	ESRI Maps for Office	Economic, Social Physical
LIRA		SK	● Crop	QGIS	Economic AGR
CanFlood	2020!	Canada	● Bldg	QGIS	Varies

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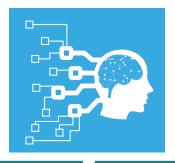Canada

Role in Flood Risk Modelling

Open

- Open Data
- Open Tools
- Collaborative
- Accessible

Standard

- Common Approach
- Scaleable
- Collaborative

Adaptable

- Build on modules

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Terms of Reference

- Primary goals

- Expectations

- Schedule

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What best describes your institution/role

Mentimeter

0	0	0	0	0	0
First Nation	Federal government	Provincial government	Local government	Academic	Consultant

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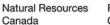
What is your experience with flood risk modelling?

Mentimeter

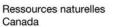| 0	0	0	0	0	0	0	0
Managing projects which use custom flood risk methods	Managing projects which use standard flood risk methods	Developing custom flood risk methods	Applying standard flood risk methods	Developing depth damage functions	Spatial analysis not specific to flood risk	Non-applied research on flood risk	Other
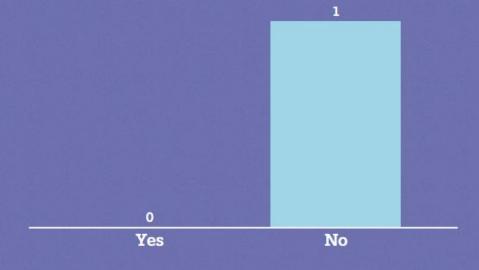
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CanFlood: Intro

- Object-based
- Transparent, open-source
- QGIS 3.10 plugin
- python 3.7
- built for Canada
- Beta 0.3.0 developed for NRCan and the LMFRA

Three toolsets:

1) Building model(s)
2) Running model(s)
3) Visualizing results

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Tutorial 2b

project: https://github.com/IBIGroupCanWest/CanFlood

plugin: /plugin_zips/CanFlood_040_20201208.zip

instructions: /manual/CanFlood_UsersManual_040.pdf

data: /tutorials/2

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Go to **www.menti.com** and use the code **43 32 49 5**

Which CanFlood capability are you most excited about?

▶ Mentimeter

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How do you see yourself using CanFlood?

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CanFlood: Project

- [User's Manual](#)

- [GitHub Project Page](#)
  - readme.md
  - installation
  - issues

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CanFlood: Planned Features

Web-Connections:

- GAR15 Flood Hazard Layer

- National Flood Hazard Data Layer (NFHDL)

- National Human Settlement Layer (NHSL)

- National Pollutant Release Inventory (NPRI)

Build Tools:

- Canadian Damage Function Library

- Reconcile SOFDA Input Formats

Results Tools:

- Spatial Aggregation

- Scenario Comparison

- Benefit/Cost Ratio Calculator

- Property Level Mitigation Measures

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Committee: Task 1

- Install CanFlood (see readme.md)

- Read 4 page 'Introduction' in User's Manual

- Do tutorials 1a, 2a, and 4a

- Complete feedback form

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Committee: Task 1

- What if I get stuck?

    1) Check the readme.md

    2) Check existing issues

    3) Post a new issue (instructions)

- Do not email Nicky!

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Committee: Task 1

- Timeline

| Dec 16th: Meeting 1 | Committee: Task 1 | Jan: Meeting 2 | Consultant: Incorporate | Spring: Meeting 3 | Summer: Distribute 1.0 |

- Questions on Task 1?

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Go to **www.menti.com** and use the code **43 32 49 5**

How do you feel about the task?

ℍ Mentimeter

Strongly disagree

I have the technical capabilities to complete the task

I have the time to complete the task

I will complete the task before the next meeting

Strongly agree

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Next Steps

MEETING 2

Feedback from tutorials

January 2021

February 2021

MEETING 3

Test your own data

CanFlood Modifications & Refinements

March 2021

March 2022

CanFlood Modifications & Refinements

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