



Natural Resources  
Canada

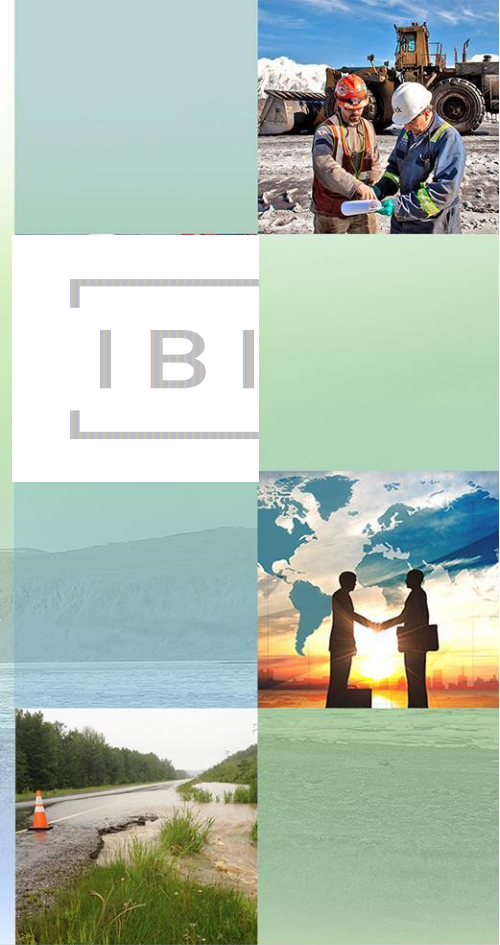
Ressources naturelles  
Canada

# CanFlood



## Flood Risk Modelling Committee Meeting 2

January 28 2021



Canada



# Outline

- Introduction
- Task 1 Feedback
- Open Discussion
- 0.4.2 Updates
- Planned Updates
- Next meeting

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

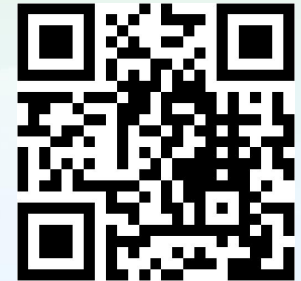


# Poll Question

Did you fill out the feedback form?

- Yes
- No

[www.menti.com/dymrszunst](https://www.menti.com/dymrszunst)  
[www.menti.com](https://www.menti.com), code 34 51 37 0



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



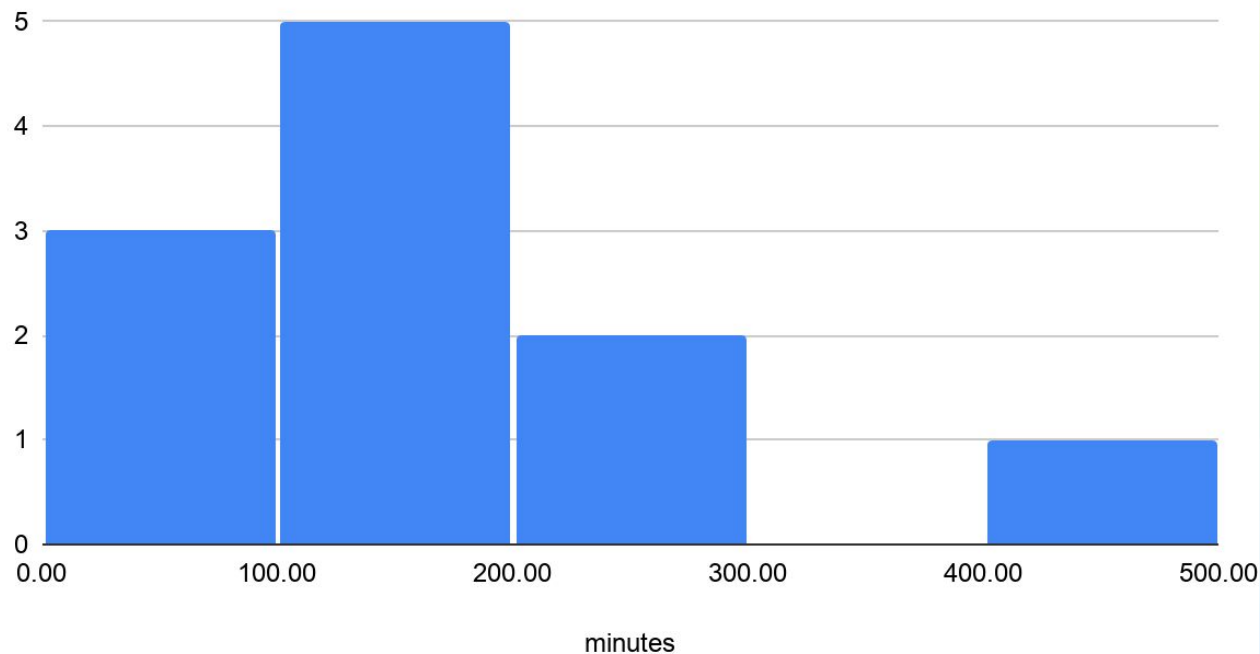
Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 



## Task1: Time Spent



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



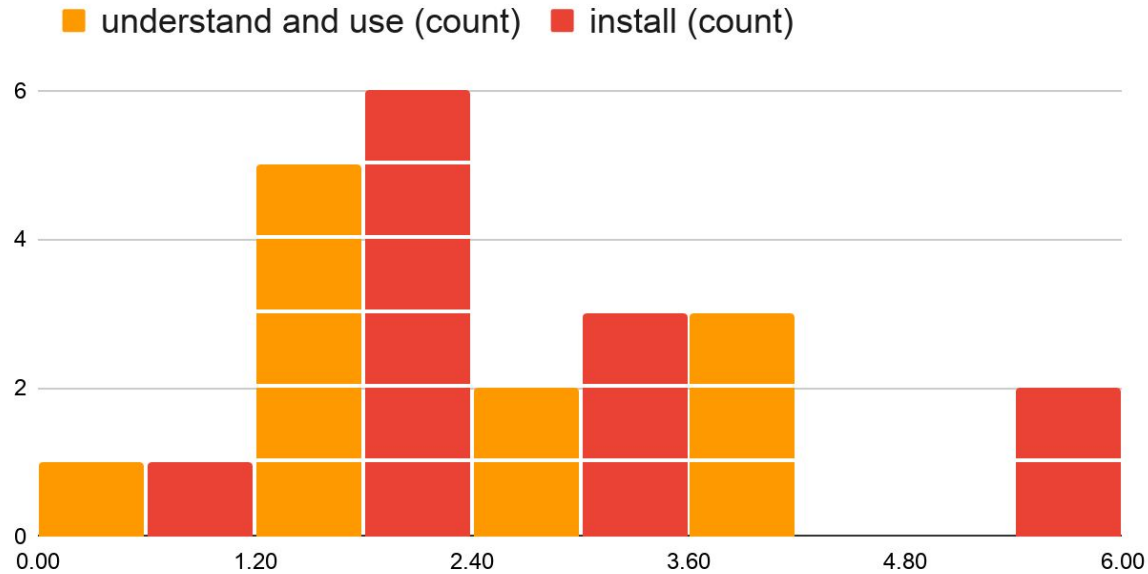
Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



## Task1: Difficulty Feedback



Very Easy

Extremely  
Difficult

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



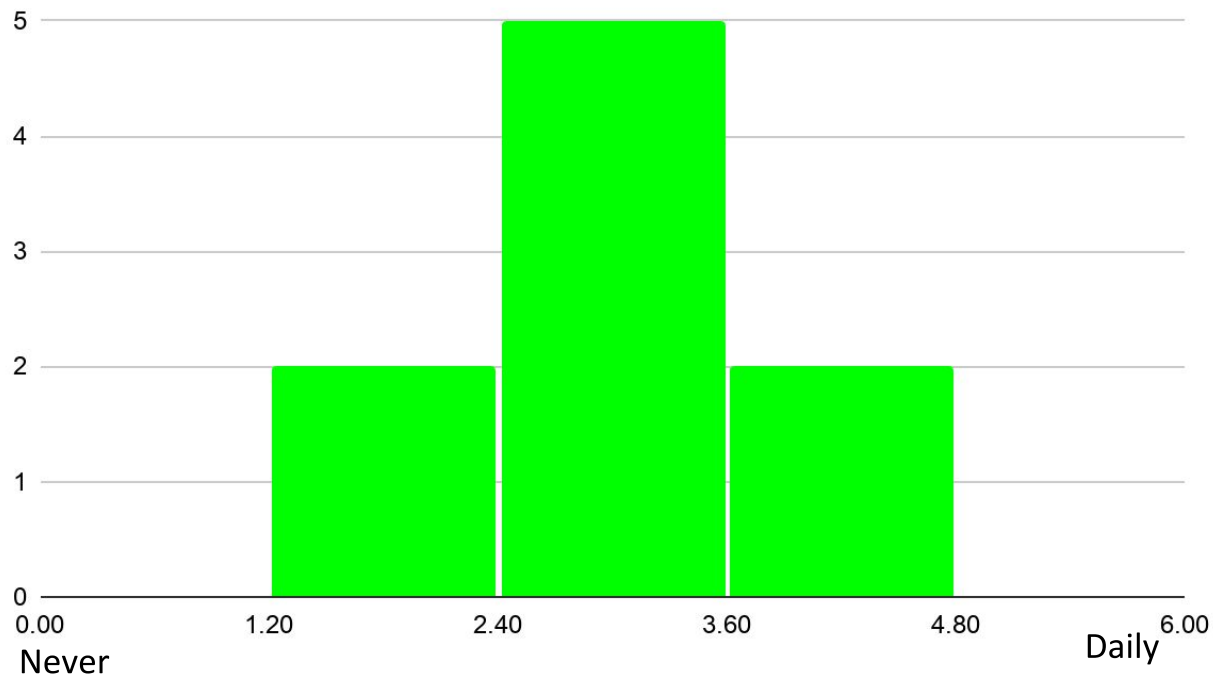
Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



## Task1: Utility in future work



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Task 1 Feedback



## Typical Flood Risk Modelling Tools:

- Manual or custom scripts (R, QGIS, ArcGIS, FME)
- HAZUS
- MIKE Flood

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Task 1 Feedback



## Strengths:

- Simple csv outputs
- Fast
- User friendly
- Free, open-source

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada





# Task 1 Feedback

## Issues:

- Installation
- Task 4a errors
- Tutorials unclear (Acronyms, background)
- Bugs (and error messaging)
- Window sizing behavior

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Task 1 Feedback



## Weaknesses:

- Guidance on QGIS (use and installation)
- Tutorials focus on economic impacts
- Risk Curve extrapolation

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



# Task 1 Feedback

## Additional Features:

- Workflow Chart
- Guidance on data preparation
- Version control, software maintenance
- Packing for integration with other tools
- Polygon results styles
- Polygon offset raster sampling

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

# Discussion



## Open discussion:

- Anything to emphasize / clarify?
- Anything to add?

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

# 0.4.2 Updates



- GUI improvements
- Users Manual Improvements (Acronyms)
- Inventory Template Constructor
- Vulnerability Function Library
- Web Connections (GAR15 and NPRI)
- Expanded event relation treatments
- Optional detailed outputs
- Additional Plotting (Styles, Stack, Fail Split, Comparison)

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# 0.4.2 Demo



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 



# 0.4.2 Install

From [README.md](#):

1. Uninstall plugin (then re-start QGIS)
2. Download [latest zip](#)
3. Install plugin from new zip

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

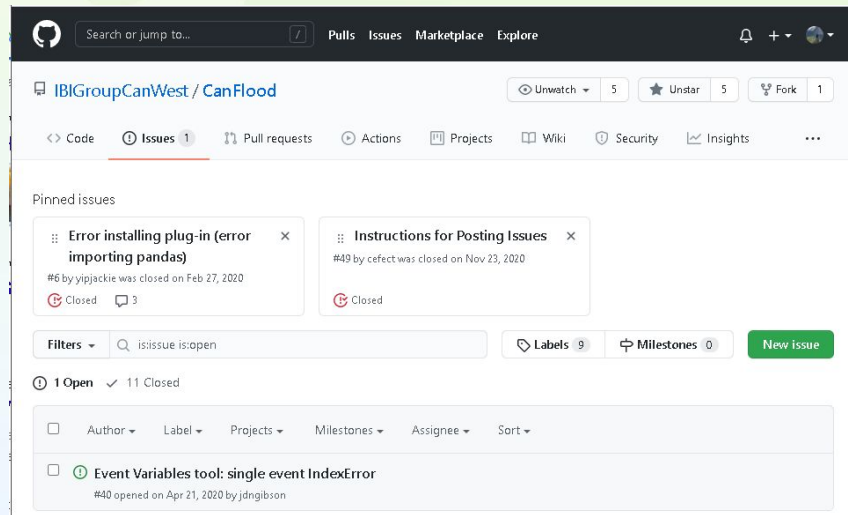
Canada

# 0.4.2 Issues



From [Instructions for Posting Issues](#):

1. [Check for a similar issue](#)
2. Check your install
3. [Create a new Issue](#)



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada



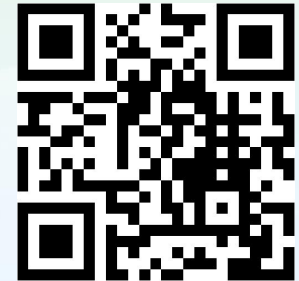
# Poll Question



Can you install and test the new release?

- Yes
- No

[www.menti.com/dymrszunst](https://www.menti.com/dymrszunst)  
[www.menti.com](https://www.menti.com), code 34 51 37 0



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

# Future Updates



## In-Progress:

- National Flood Hazard Data Layer
- National Human Settlement Layer
- Reconcile SOFDA input formats
- Benefit/Cost Ratio Calculator
- Property Level Mitigation Measures

## Planned:

- Hazard event scaling
- Agriculture Vulnerability Model
- Critical Infrastructure Vulnerability Model
- Sensitivity Analysis

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

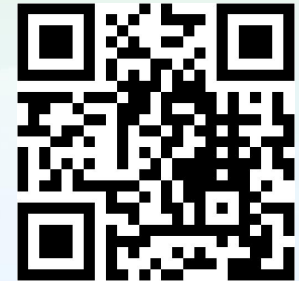
Canada 

# Poll Question



What other items should we consider?

[www.menti.com/dymrszunst](https://www.menti.com/dymrszunst)  
[www.menti.com](https://www.menti.com), code 34 51 37 0



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017

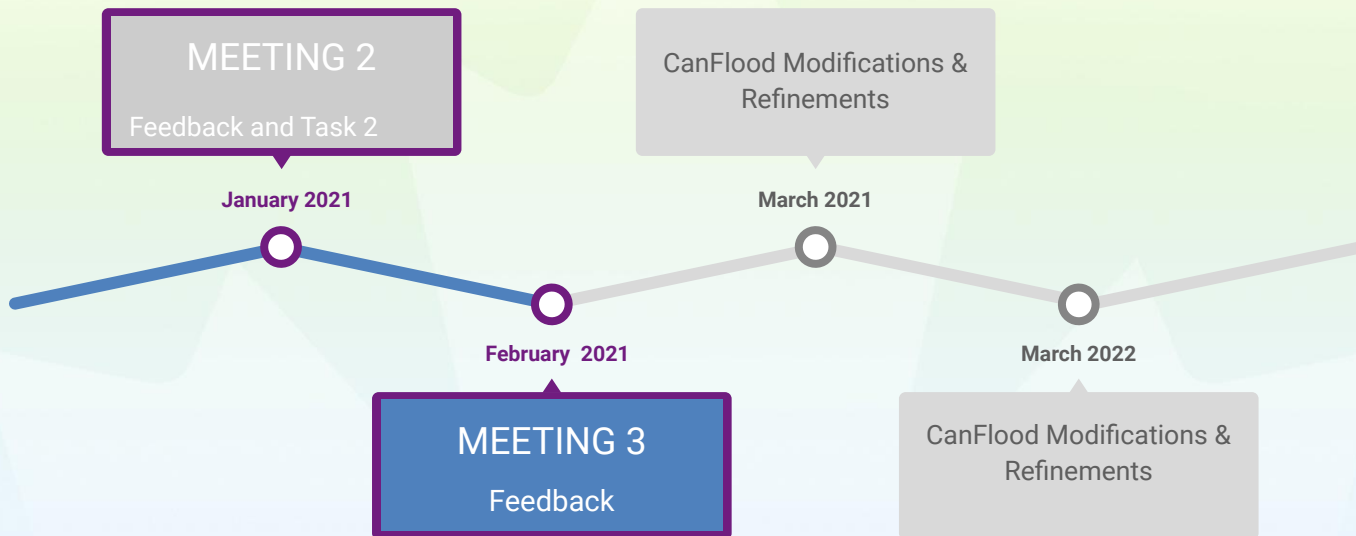


Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

# Next Steps



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Task 2



## Option 1: Build your own model

- Use existing data
- Transfer from another platform
- Start small!

## Option 2: Tutorials 2b, 2c, and 5a

Next meeting date

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Poll Question



Which Task 2 Option will you complete?

- Option A: build my own
- Option B: more tutorials
- Option C: other
- Option D: I probably won't have time...

[www.menti.com/dymrszunst](http://www.menti.com/dymrszunst)  
[www.menti.com](http://www.menti.com), code 34 51 37 0



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada

# Poll Question



Which meeting date works best for you?

- Feb. 23 @ 9:30 AM PST
- Feb. 24 @ 9:30 AM PST
- Neither

[www.menti.com/dymrszunst](https://www.menti.com/dymrszunst)  
[www.menti.com](https://www.menti.com), code 34 51 37 0



© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 

# Conclusion



Thank you

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources, 2017



Natural Resources  
Canada

Ressources naturelles  
Canada

Canada 