

# What is flood modelling?

Flood modelling is like making a detailed weather forecast, but for flooding. It helps predict where water will spread and how deep it will be when it rains heavily or waterways overflow.

## What information is used in flood modelling?

Flood experts use a range of information:



### Infrastructure data

Roads, levees and drainage systems all affect water flows.



### Natural terrain

Soil type, ground height, and land use.



### Climate factors

Rainfall patterns, rising sea levels, and extreme weather help predict future floods.

## How does flood modelling help Melbourne?

Flood models help:



### Emergency services

Early flood warnings help emergency services respond quickly and give people time to evacuate or protect their home.



### Council planning

Flood models help engineers and planners to design buildings, drainage, roads and other infrastructure to withstand and reduce the impacts of flooding.



### Communities

Flood models give us the information we need to educate communities on how to prepare for flooding.

## How does flood modelling help you?

Flood models are used to create flood information and maps, which you can use to:



### Know your flood risk

They help identify an area's flood risk, which can influence your decision to buy property or renovate your home.



### Protect your home

Flood maps show you how a flood could affect your property, which can help you take action to prevent flood damage.



### Prepare for disruption

Flood maps show you which roads and buildings could be most affected by a major flood, including schools, hospitals and businesses.

## Where can you learn more?

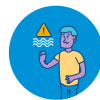
Click on the links below to explore flood models and how they impact your area.



### Understanding flood impact



### How to assess your personal flood information



### Understanding your community flood risk