# Urban flooding modelling

The need for data!

## Flood model calibration and validation

### Calibration and validation is part of the modelling!

Can we improve these tasks by collecting and curating flood data?

#### What data do we need?

- Location (x, y; coordinate system?)
- Flood depth (units? time resolution?)
- Localised flood velocity (units? time resolution?)

• ...

Where to store data?

How to store data?

## Data-driven flood modelling

## Data-driven model results accuracy is influenced by the quantity and quality of data used data for training

Can we make our flood data open and usable by "everyone"?

#### What data do we need?

- 1D (point) time series? (x, y; coordinate system?)
- 2D time series! (regular (squares or hexagons) grids? Irregular meshes? raster format? Spatial and time resolution resolutions))
- Flood depth or flood level(?); Flood velocity (units?)
- Maximum water depth and velocity?
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#### Where and how to store data?

• Common data repository? Pointers to data repository?

## Let's start sharing flood data to improve our flood modelling!

We can achieve more when agreeing to have an urban **flood data standard! share data** in an open **flood data platform!**