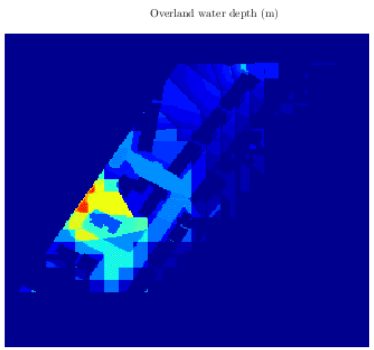
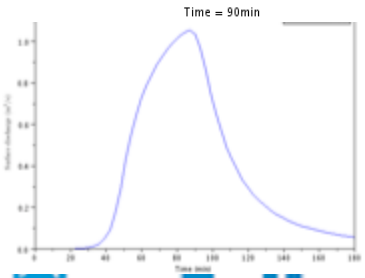
The importance of visualisation tools for stakeholders involvement

Now

Simulation Time

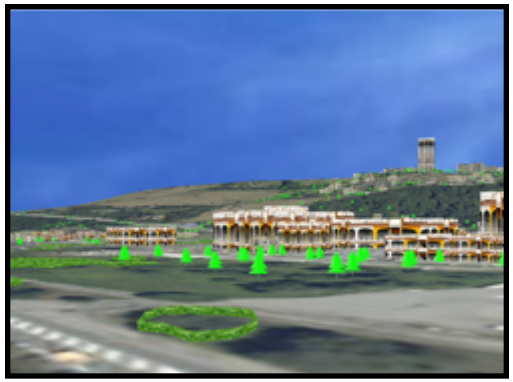
- Water depth
- Velocity grids
- Discharge
- Infiltration
- Runoff
- …





Time Step = 0

That we want



+

Simulation

+

Interaction

Interactions

- Before the simulation
- During the simulation
  - Loop structure of Multi-Hydro
- After the simulation
  - Output downscaling

Visualisation

- GIS based
- 2D / 3D (4D with the simulation)
- Multi-platform

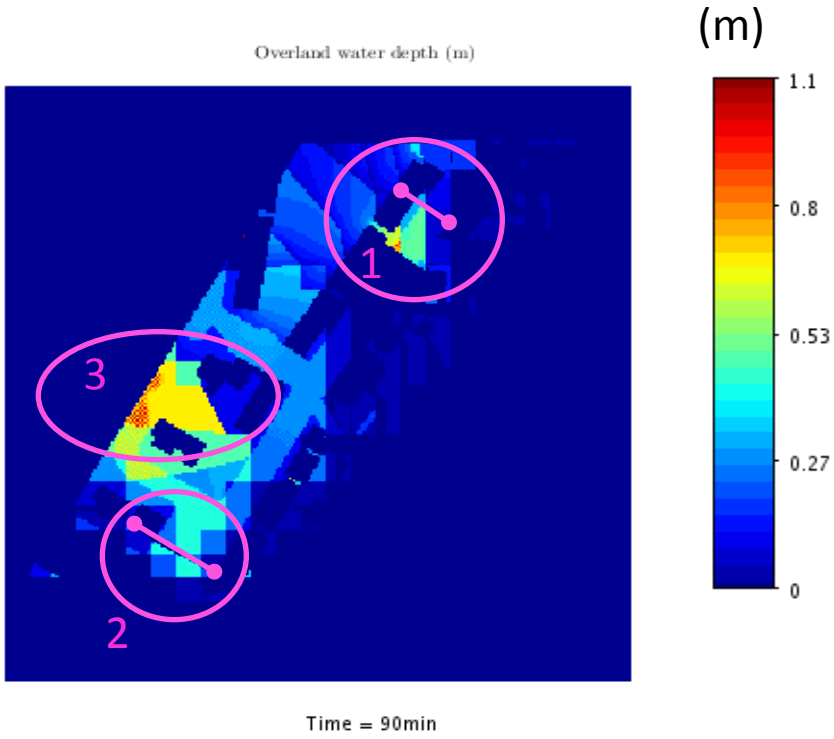
Example of interaction before the simulation

-> Manchester case study

– Implementation of flood resilient technologies (barriers)

– Results:

- **Area 1**: increase of water depth upstream and no water downstream of the barrier
- **Area 2**: no effect of the barrier, due to flow direction from northeast to southwest
- **Area 3**: small decrease of water depth



Rain Gain

Investing in Opportunities

This project has received European Regional Development Funding through INTERREG IV B.

nwe

INTERREG IVB

Questions ?

eit Knowledge & Innovation Community
Climate-KIC

BGD

École des Ponts
ParisTech

leesu
laboratoire eau environnement systemes urbains