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# Flood adaptation process

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#### DIRECTIVES

#### DIRECTIVE 2007/60/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 23 October 2007

on the assessment and management of flood risks

(Text with EEA relevance)



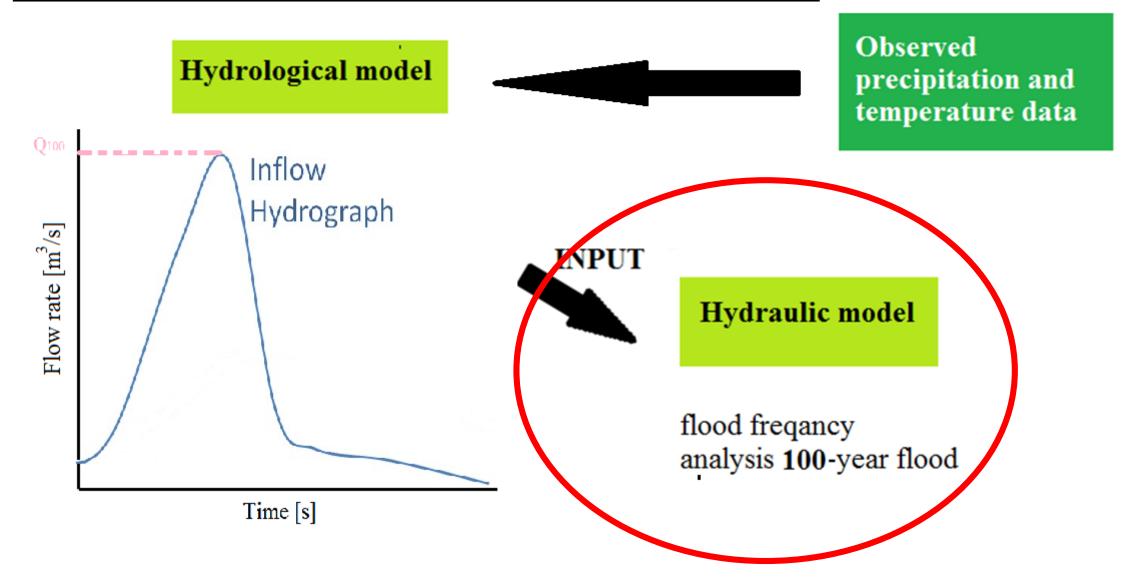
# **Preliminary** flood risk assessment

\* the significant floods which have occurred in the past

\*area where significant adverse consequences of similar future events might be expected



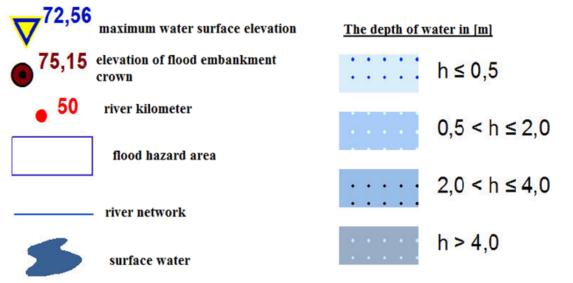
# Flood hazard and flood risk assessment



# Flood hazard and flood risk assessment (dept and extent of innundated area Q1)

#### Legend Flood hazard map

embankment

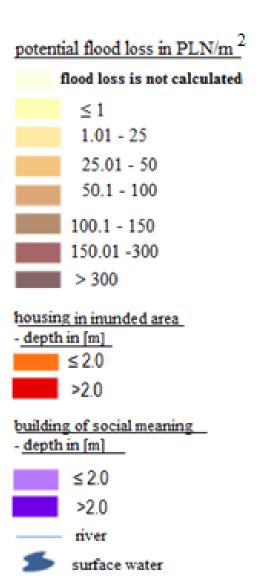






# Flood hazard and flood risk assesment Q1

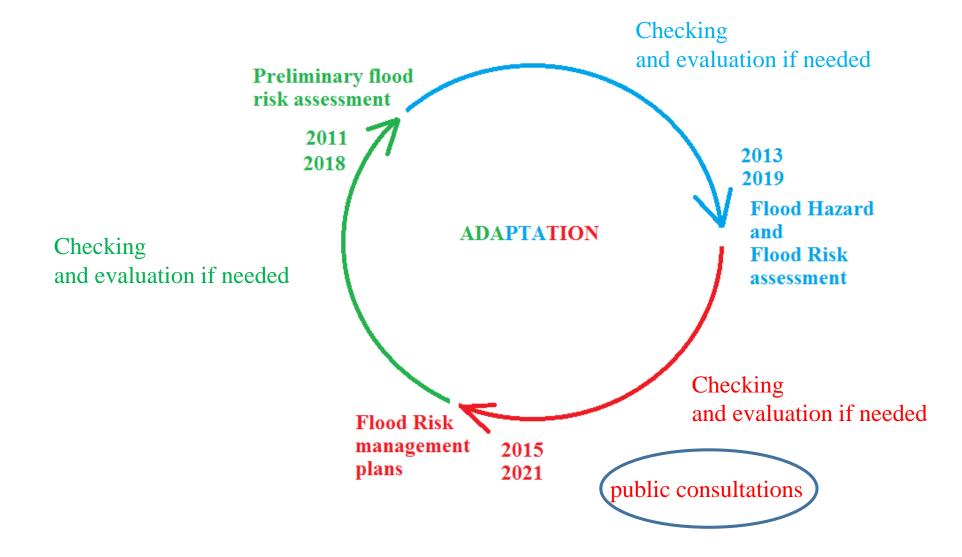
### Legend flood risk

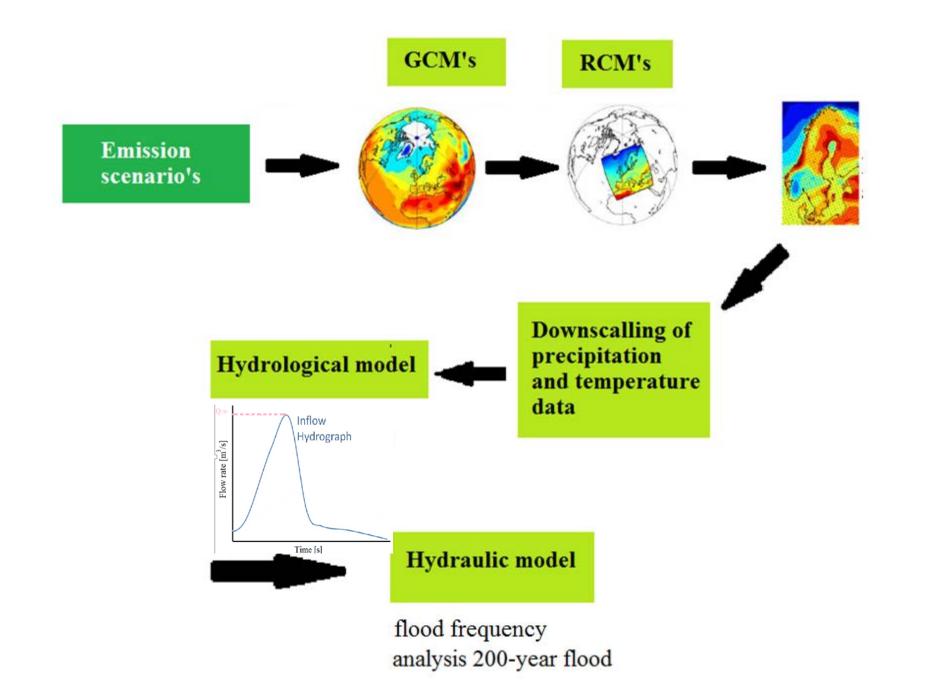






# Flood adaptation process





## Flood hazard and flood risk assessment

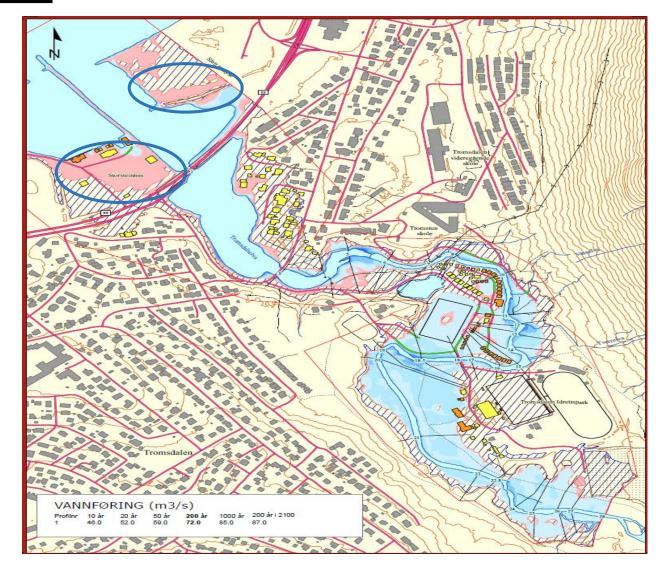
#### Legend

#### present 200-year flood depth [m]

- <0,5
- 0,5-1 >2
- 1- 1,5

#### Climate change in year 2100

flooded area while 200- year flood in year 2100



An example of flood inundation map with probability of flood occurrence 0,5%, in Norway, for the City of Tromsdalen

# Summary

- Flood hazard and flood risk maps are important information instrument in rising the social aweness of flood risk.
- Adaptation to floods is a process which has to be repeated periodically due to economic and climate changes.
- The Norwegian approach of including climate change into flood adaptation process might be a good guideline to apply in Poland in next flood adaptation cycle.

# Thank you for the attention



MINISTER ZDROWIA OSTRZEGA PRZED KWEJK.PI

## Sources:

- Flood hazard and flood risk maps <a href="http://geoportal.kzgw.gov.pl/imap/">http://geoportal.kzgw.gov.pl/imap/</a>
- Water Management Regional Boards map : <a href="http://www.kzgw.gov.pl/">http://www.kzgw.gov.pl/</a>
- Water regions map : http://www.powodz.gov.pl/