



Cultural Heritage Agency of The Netherlands  
*Ministry of Education, Culture and  
Science*

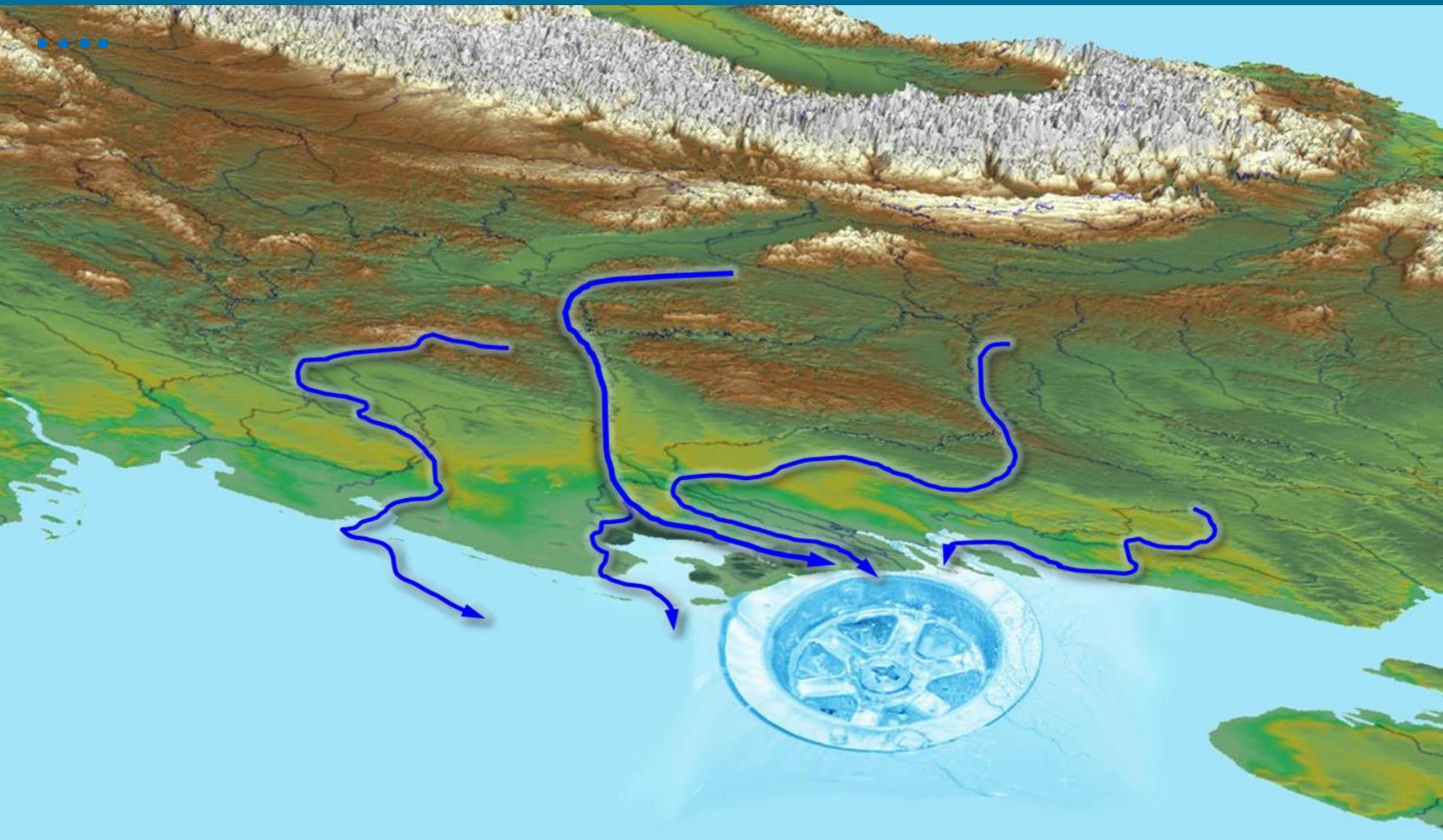


# Nederland- Waterland

**Dealing with water.....  
of all times**

**Ellen Vreenegoor  
Program leader Water, Heritage and Space**

# Dealing with water...



The Netherlands, land in the delta



# Dealing with water ....



Hunters and gatherers in a prehistoric landscape



# Dealing with water....



Roman villa on the highest and driest location



# Dealing with water.....





**Reclamation of land and dewatering by digging ditches**



# Dealing with water ....



Westfriese omringdijk



# Dealing with water



Dike constructed on a 12th century river bank



Tiel, on a 16th century Jacob van Deventer map



# Dealing with water.....



Adaptation to the annual flooding



# Dealing with water.....



Tidal sluices, tidal mills using the tide movement



## Dealing with water ....



Construction of dams in the river: dam towns



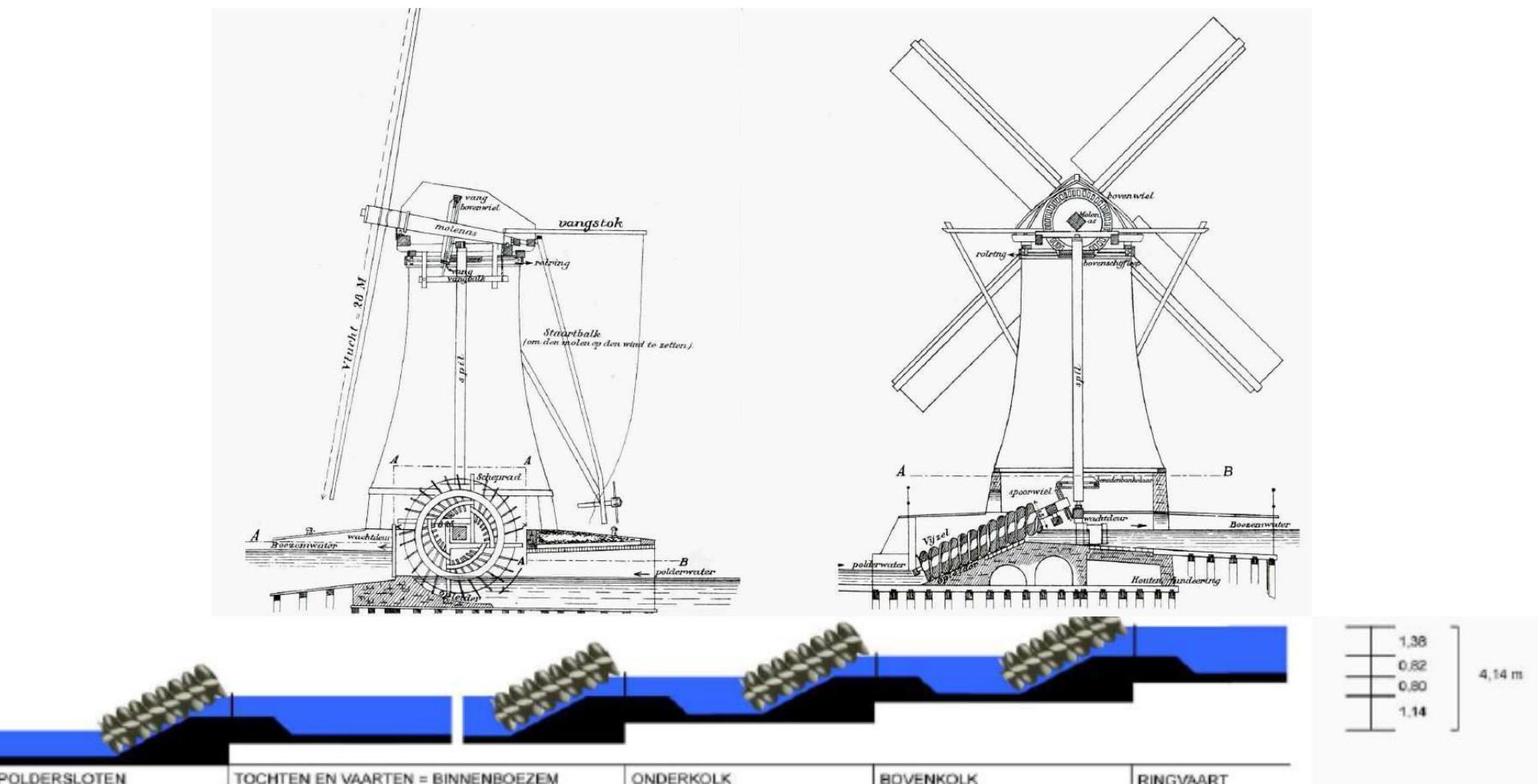
# Dealing with water ....



Fuel production for growing cities



# Dealing with water ....



POLDERSLOTEN

TOCHTEN EN VAARTEN = BINNENBOEZEM

ONDERKOLK

BOVENKOLK

RINGVAART

Drainage by wind-water mills (polder mill)



# Dealing with water ....



World Heritage site: *De Beemster*



Food production for growing cities



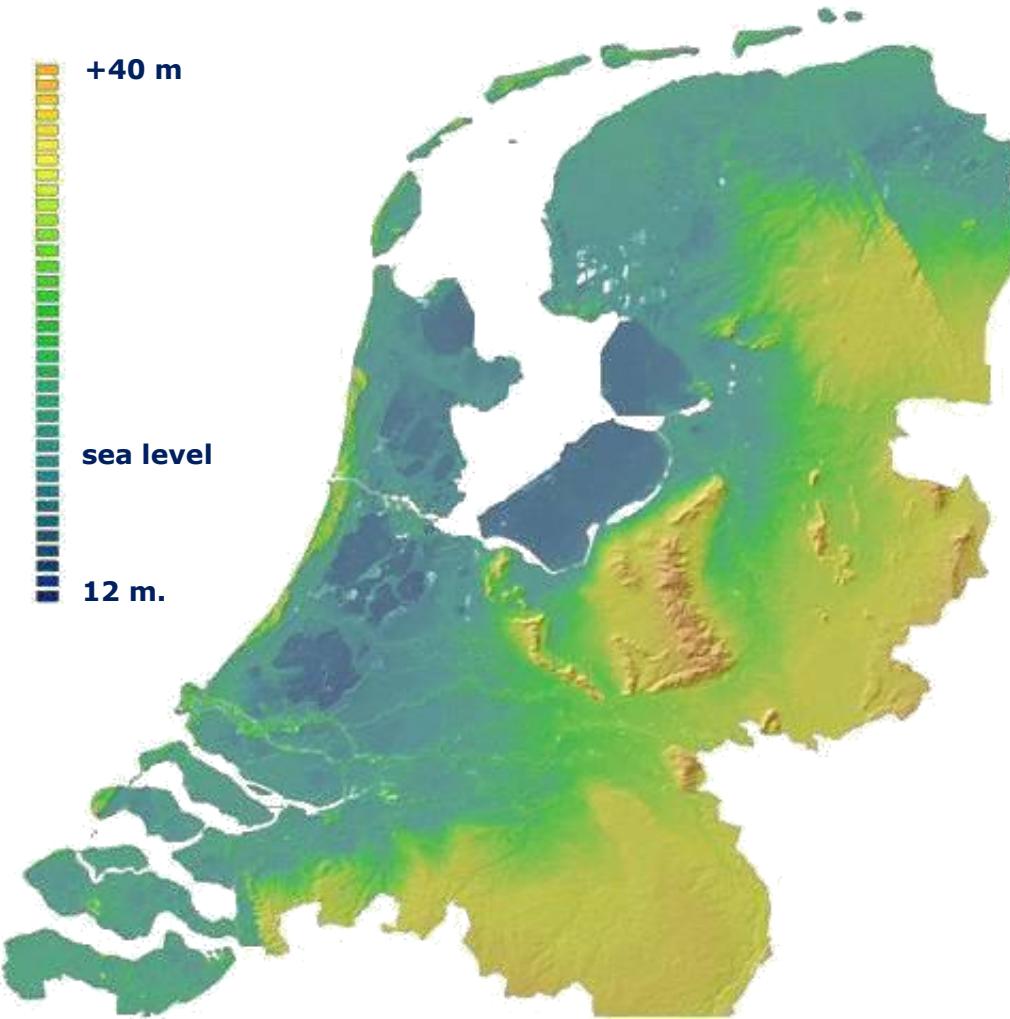
# Dealing with water ....



...is in our DNA



# Dealing with water ....



Large part of the Netherlands below sea level



# Dealing with water ....



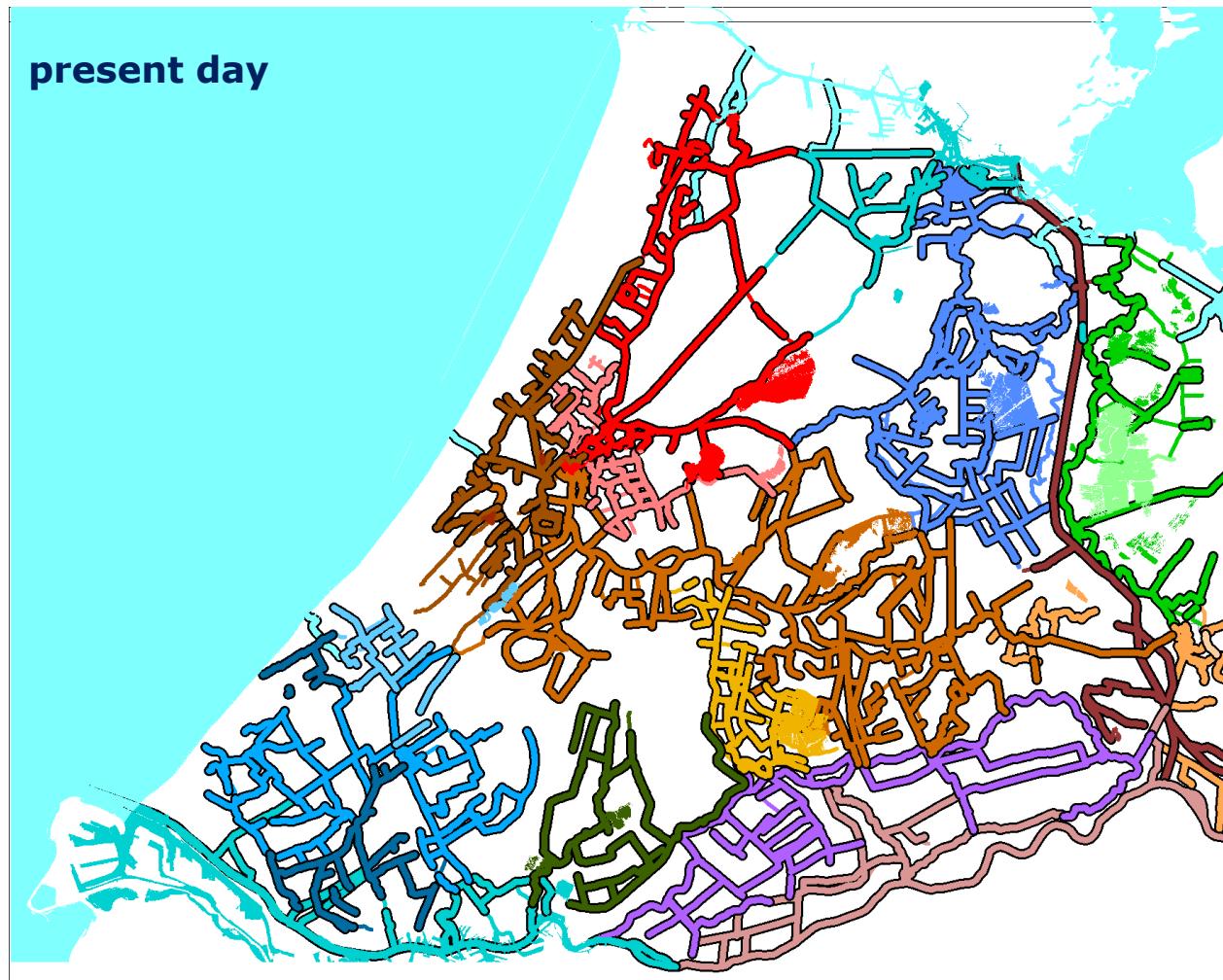
Afsluitdijk 1932



Brouwersdam 1972



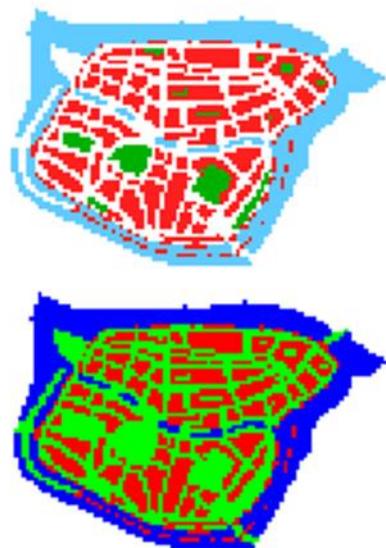
## Providing knowledge: building a GIS with georeferencing functions



The importance of history for modern climate adaptation strategies



# Integrating historic city plans in the stress test



Zwolle

built-over areas  
green spaces  
roads  
water

drainage

no or indirect drainage  
absorption into ground  
direct drainage into water

changes between 1575 and 2016

strongly deteriorated drainage  
strongly improved drainage

The importance of history for modern climate adaptation strategies



Using old waterways for climate adaptation



**Restore Sprengbeken for climate adaptation**



**Re-use a mill pond for climate adaptation**



02 Nederland,  
land van betekenis

## Timeline and guide water, heritage and space



Rijksdienst voor het Cultureel Erfgoed  
Smallepad 5  
3811 MG AMERSFOORT

postadres: postbus 1600  
3800 BP Amersfoort  
tel: 033-4217421

[info@cultureelerfgoed.nl](mailto:info@cultureelerfgoed.nl)  
[www.cultureelerfgoed.nl](http://www.cultureelerfgoed.nl)  
[www.erfgoedenruimte.nl/water/water](http://www.erfgoedenruimte.nl/water/water)