



Climate change in flood risk management plans



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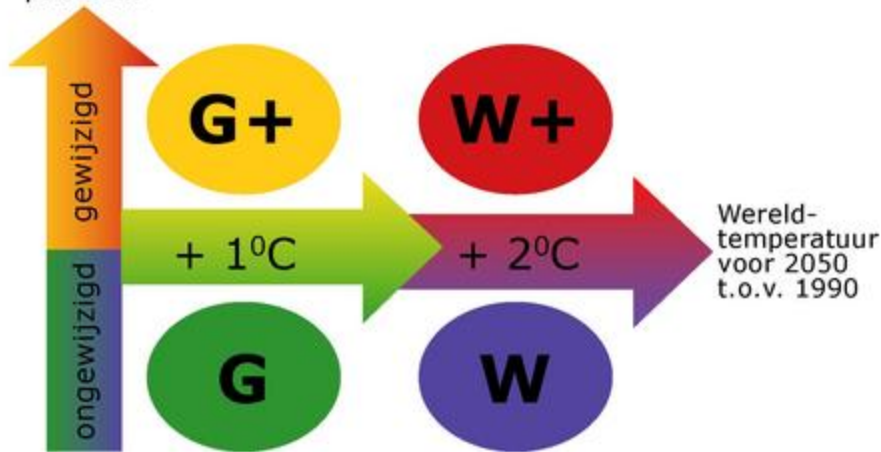


Investing in the future by working together for a sustainable and competitive region

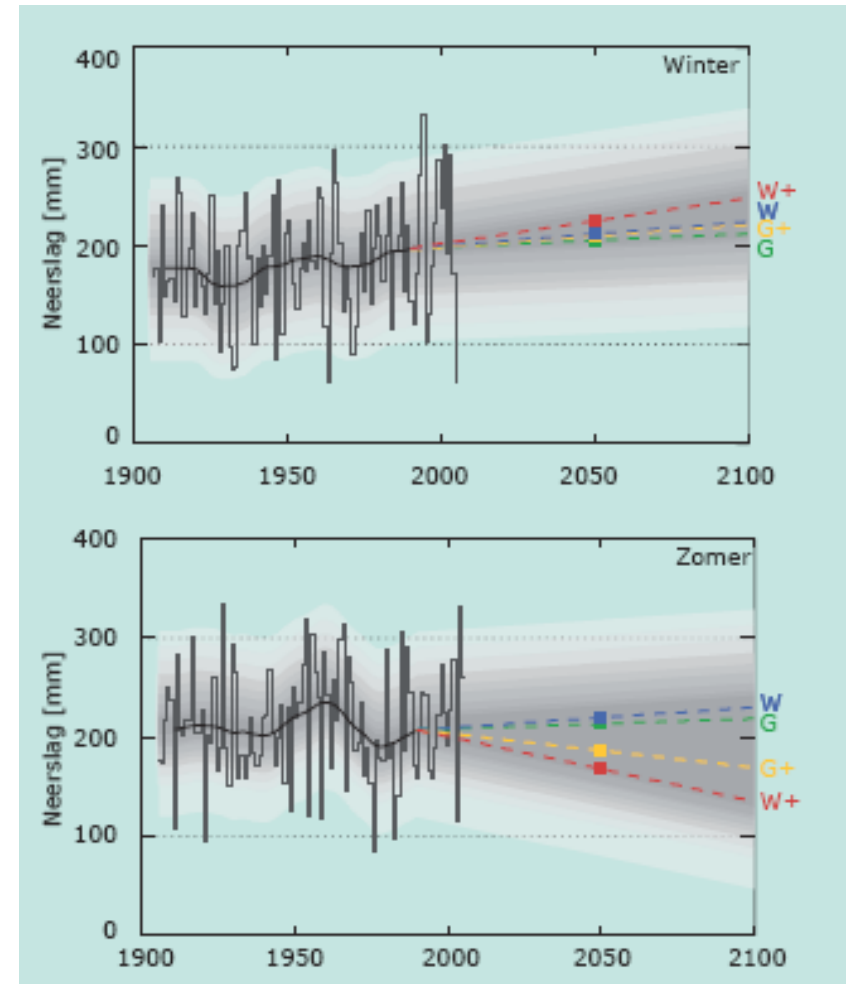


Climate change in the Netherlands

Luchtstromings-
patronen

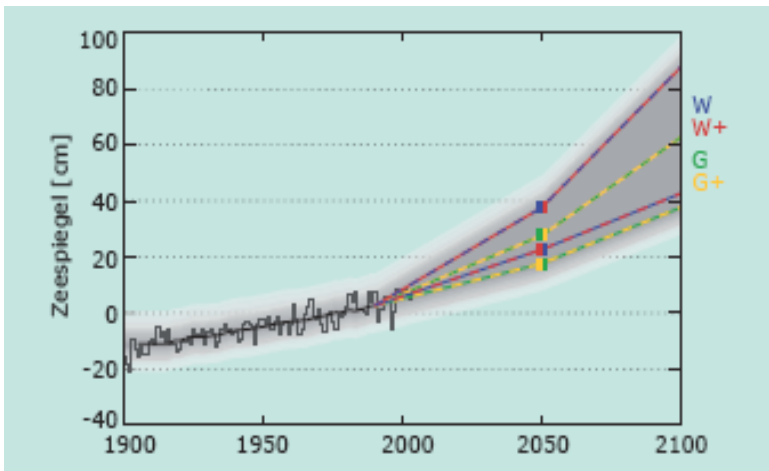
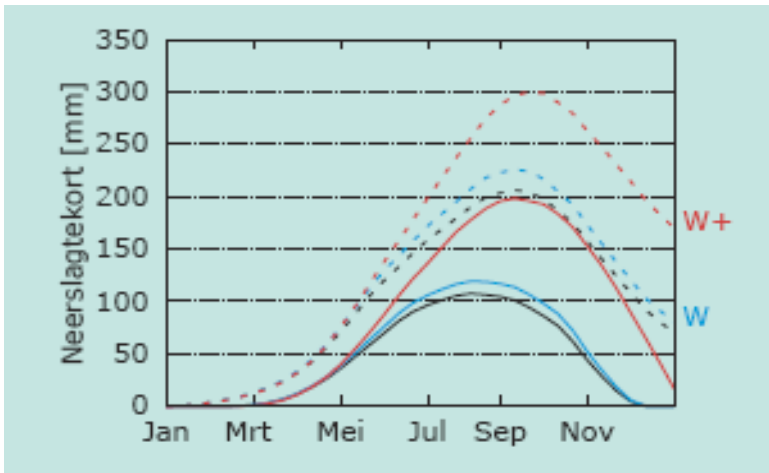


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Climate change in the Netherlands



	2050	G	G+	W	W+
Average summer temperature		+0,9°C	+1,4°C	+1,7°C	+2,8°C
Coldest winter day per year		+1,0°C	+1,9°C	+2,1°C	+3,8°C
Average rainfall		+3%	-10%	+6%	-19%
Nr of days with > 01 mm rain		-2%	-10%	-3%	-19%
10-days sum of rain that is exceeded 1/10 year		+13%	+5%	+27%	+10%
Potential evaporation		+3%	+8%	+7%	+15%
absolute rise sea level		15-25 cm	15-25 cm	20-35 cm	20-35 cm



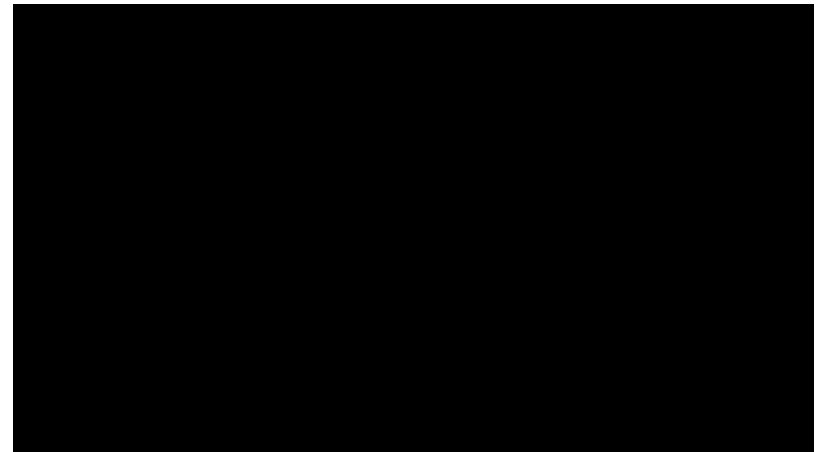
National Agreement on Water

- Pluvial flooding
- Horizon 2050
- High probability (1/50 – 1/100), small consequences



Delta Programme

- Climate change on national scale:
 - Safety
 - Fresh water supply
 - Urban development and restructuring
- Horizon 2100
- Tipping points





Flood Directive

- Top-down approach
- National FRMP finished
- Administrative character
- Questions and deficiencies 2012-2015

- Prevention, protection, preparedness



What's next

- **Dominant factors**
 - Climate change
 - Subsidence
 - Economic growth (or lack of it)
 - Population growth



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