

Effectiveness of adaptation to climate change in The Netherlands

K. de Bruin, H. Goosen, R.A. Groenveld, E.C. van Ierland
Wageningen University
(karianne.debruin@gmail.com)

2010 International Climate Change Adaptation Conference
Gold Coast, Queensland, Australia
30th June, 2010

Critical points

Cost-benefit analysis

1. Data requirement
2. Types of costs and benefits
3. Discounting

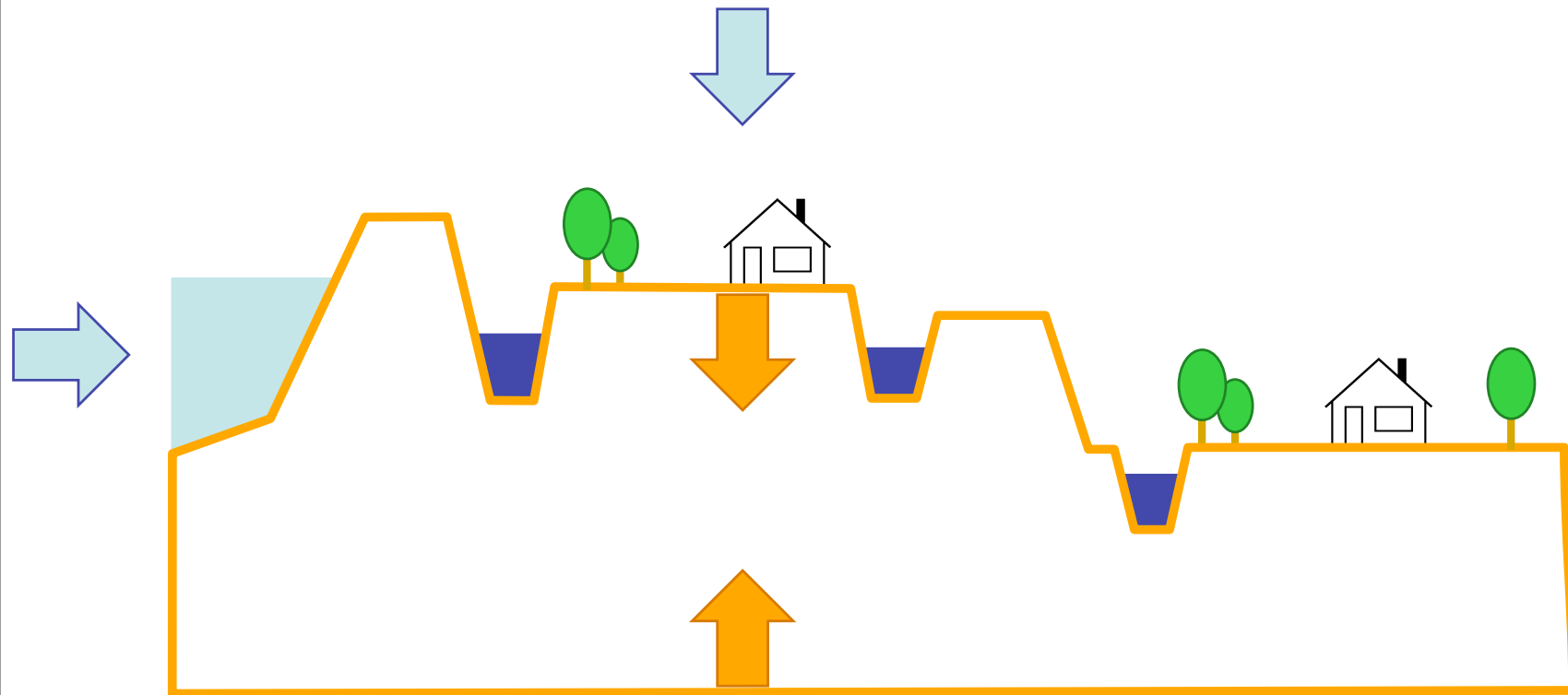
Case

‘Climate proofing’ spatial planning at six meters below sea-level



Gemaal Abraham Kroes (Xplorelab)

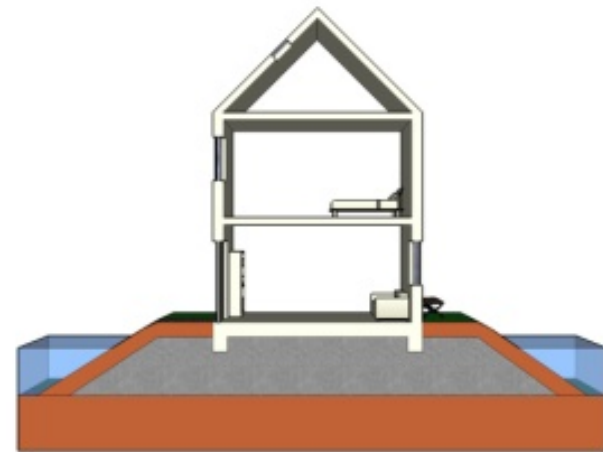
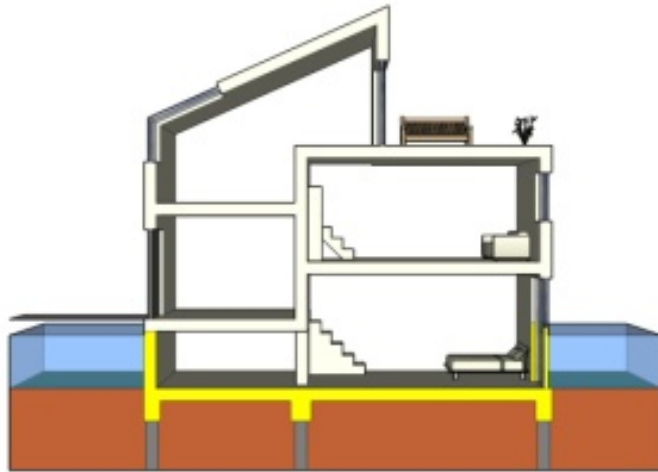
1. Data requirement



*) Based on Melmer, J. (Hoogheemraadschap Schieland en de Krimpenerwaard). www.schielandendekrimpenerwaard.nl

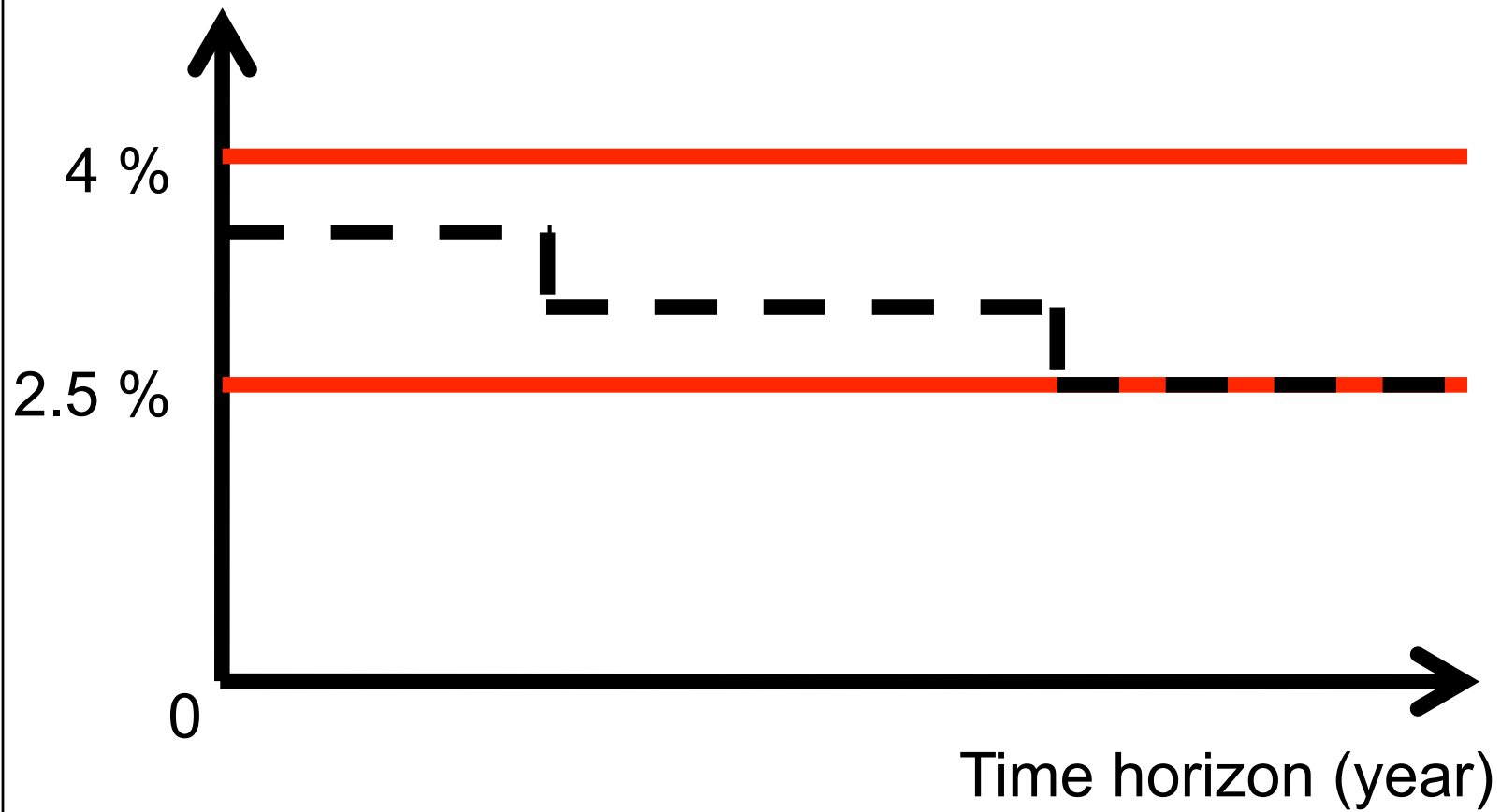
2. Types of costs and benefits

- Investment costs
- Reducing vulnerability
- Spatial quality



Climate proof construction of housing (TuDelft)

3. Discounting



Cost-benefit analysis plus

Multi-criteria analysis

Adapting to climate change in The Netherlands: an inventory of climate adaptation options and ranking of alternatives

K. de Bruin et al. (2009) Climatic Change 95(1-2)

Uncertainty

Investment in flood protection measures under climate change uncertainty

K. de Bruin and E. Ansink (in preparation)