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#### Tentative overall conclusion:

- Short term economic damages likely to be minor.
- Over the longer term effects are potentially large.
- Lack of awareness of long term impact.

### Concrete results and recommendations:

- Methodology for resilience assessment of physical infrastructure.
- Methodology to assess consequences for embankments.
- Relation between temperature/rainfall and pipe failure frequency.

#### Recommendations

- Develop adaptive strategy for the long term.
- Make networks robust under present climate conditions.

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## Challenges for the 2<sup>nd</sup> half

- Realization of research in subprojects, as planned
- Linking the networks to understand systemic effects
- Continuing the multidisciplinary work
- Extending the engagement with the outside world and raising awareness

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# **Key publications**

- Bollinger, L.A., Dijkema, G.P.J. and Nikolic, I. Resilience of Electricity Infrastructures to Climate Change. Adaptation Futures 2012, Tucson, USA, 30 May 2012.
- Bhamidipati, S., Telli van der Lei, Paulien Herder (2012): From mitigation to adaptation in asset management for climate change: a literature review, accepted for 7th World Congress on Engineering Asset Management (WCEAM), Korea, October 8-10, 2012
- Chappin, E. J. L. & van der Lei, T. (2012), Modelling the adaptation of infrastructures to prevent the effects of climate change an overview of existing literature, in 'Third International Engineering Systems Symposium Design and Governance in Engineering Systems Roots, Trunk, Blossoms', Delft, 18-20 June 2012
- Dijkema,G.P.J., L.A. Bollinger, M. Snelder, C.W.J. Bogmans, E.J.L. Chappin,I. Nikolic Infrastructure Networks, Climate Adaptation and Hotspots - Researching the Interconnections, Exploring Adaptation, *Planet Under Pressure 2012*, London.
- Maas N. (2012) Modelling as knowledge brokerage Instruments, in 'Third International Engineering Systems Symposium – Design and Governance in Engineering Systems – Roots, Trunk, Blossoms', Delft, 18-20 June 2012

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