Some remarks on Resilience in Rotterdam



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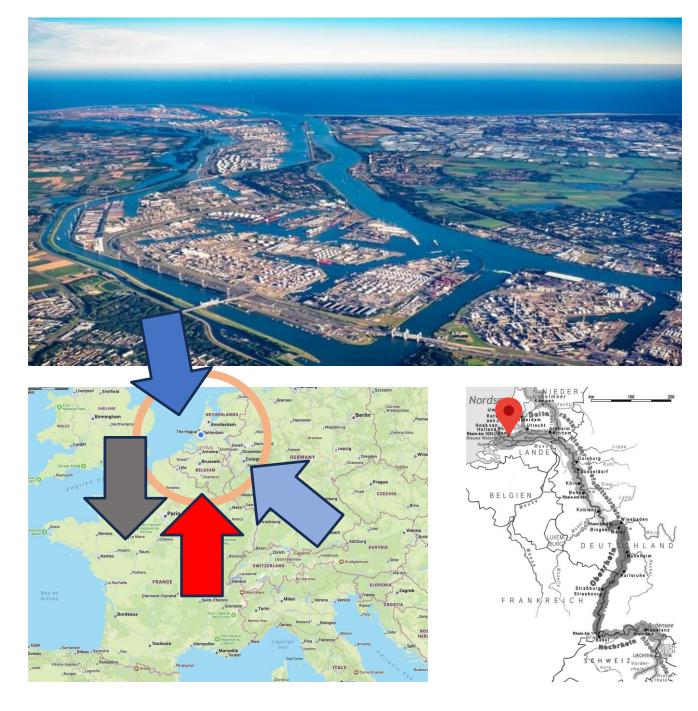






Rotterdam

- One of the world large port cities: Europoort
- Port, trade, logistics and industry
- 2.000.000 inhabitants
- Elevation: at or just below sea level
- Large backcountry: Halve of the EU is accessible through the Rhine
- Open access to sea and open access to backcountry
- Very reason for existence makes Rotterdam vulnerable to Climate Change







Management Simulations and Serious Games as a metaphor for policy and planning

Multimillion dollar question:

What do we mean by winning in the game?

- How do we score points?
- What are the rules of the game? What do the players have to do?
- Where do we get penalty points?
- Where are the conflicts between the players?
- Where is the opportunity for cooperation?





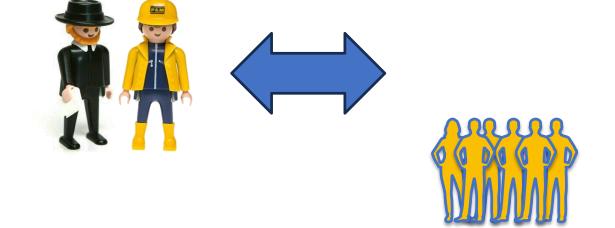


Man versus Nature

Survival games: How to optimize resources to survive in a hostile environment Casino games: How do we manage uncertainty and complexity in knowledge and modeling

How do we make sure the right policies are

How do we invite others to participate in







Man versus Man

building sustainable cities?

in place?

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Players join in the efforts of building a sustainable city

- What do we mean by winning this game?
- Players need to ask questions such as:
 - Whats in it for me? Why should I step in?
 - Can players define strategies?
 - How to deal with free riders? How to share the burden?
 - Do we have a credible referee, a credible government and authority?









Storm surge barrier Players:

- National government
- Semi-public Port Authority
- Private Shipping companies
- Etc

How do players win points, how do players lose points











Greening of local communities Players:

- Local government
- Local community
- Property owners
- Local shops and local
- Community center
- Churches, mosques and temples
- Public and private housing corporations

How do players win points, how do players lose points

GLOBAL COASTAL CITIES Summit 2023

The Right to Challenge

Adjusting the rules of the game

Local communities can take the initiative Local communities can challenge the government: we can do better Government support for planning, maintenance, financial

