



Innovation from the perspective of a client

**Leendert Bouter and
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**Ministry of Transport, Public Works and
Watermanagement**

The old situation

- Rijkswaterstaat as a 200 years old traditional hierarchical public authority
- 11.000 public servants
- detailed engineering
- contracting on lowest price bids
- stabile and transparent market

3250 km roads, 14 tunnels, 274 bridges, 150 sluices, 17 weirs, 3 storm surge barriers, 63.000 km² surface water, 3200 km vaargeul, 7 traffic management centres, annual budget 5 billion euro

Facing major challenges

- Climate change
- Severe congestion caused by increasing traffic
- High expectation by society of serviceability networks
- Increasing multi-complex projects
- High demands on safety, security and environmental issues

The way to go

- From separation of design and construct to an integration of all different phases
- From lowest price towards performance based awarding
- From a situation where every innovation is public property to an accepted balance between knowledge sharing and intellectual property
- From a dominant national oriented knowledge infrastructure to international open innovation

Innovation is crucial for approaching main challenges

When will something change

Have to



Able to

Want to

A well known formula

NT + OO = EOO

New Technology
Old Organisation

----- +

Expensive Old Organization

- Innovation of processes:
market model innovation
- Innovation of products:
creating focus and mass

Role

- Large infra-structural projects as enabler for innovation
- Ministry performing the demand function
- Ministry as facilitator of experiments
- Ministry as launching customer

Reconstruction highway A2

- Isolate urgency: *loss of 33 Meuro a year due to congestion*
- Define challenge: *acceleration from 2017 to 2010*
- Enable innovation: *design to market, bonus, alliance, no-claim agreement*
- Continuation: *knowledge transfer to other projects with an urge to accelerate*

... and further ...

- Professionalizing Intellectual Property
- Connecting and stimulating small businesses through SBIR
- Accepting and processing Unsolicited Proposals by market parties
- And last but not least ...

Need for international cooperation

- With other european networkmanagers
- With EU in Brussels
- With european knowledge institutes
- With european industry

RWS and EurekaBuild

- The results of ECTP helps the client to fulfill his responsibilities
- ECTP's vision 2030 and SRA's are an excellent start for EurekaBuild
- RWS emphasizes the need to have a special innovation program for the construction sector
- RWS likes the industry lead character of EurekaBuild which stimulates the implementation of innovations

Suggestions for innovation

- Techniques which reduce impact on environment: quality of air and surface water, traffic noise,
- Doubling the lifespan of networks (incl structures)
- Integrated design
- Procurement
- New construction techniques which offer more serviceability during construction and maintenance
- Techniques to use dredging material as construction material
- Techniques to reduce risk caused by soft subsoil

What we can offer

- Knowledge and expertise
- Pilot locations and enabler of innovation in large infrastructural projects
- Coordination with national contactpoint Eureka build
- Input in program committees of various european subsidy-programs
- Dedicated partner

Knowledge-conscious Innovation

- Innovation is a knowledge-intensive process
- Lot of knowledge still under-utilised
- Have to, Want to, Able to
- Nobody knows it all: Wisdom of Crowds
- Partnerships
- Entrepreneurship must be supported

The image features a dark teal horizontal bar at the top. Below it is a large area with a textured, abstract background in shades of teal and blue, resembling a watercolor or brushstroke effect. Centered in this area is the text "Thank you" in a bold, orange-yellow font.

Thank you

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