



Hot Spot Integrated Decision Making (ID)

The core of IMR research is formed by the Hot Spots – six collaborative networks of researchers in different disciplines with a joint interest in a specific research topic.

INTEGRATED DECISION MAKING

Planning in regards to sustainable urban areas, reducing energy consumption, operational risk management in the finance sector, or adaptive delta management is complex. The decision makers involved have to deal with a network of stakeholders with different problem perceptions, different and often conflicting goals and diverging preferences for solutions across the individual organisational and societal level.

Therefore, decision makers require scientific theories and methods that:

- acknowledge the complexity of this decision making;
- help to generate decision-supportive knowledge;
- translate this knowledge into effective intervention strategies.

ID focuses on developing and testing such theories and methods using empirical testing with data from Randomised Controlled Trials, surveys, games and lab and field experiments. The ID researchers come from various disciplinary backgrounds and apply theories and methods to domains such as regional and urban planning, transport, infrastructure, finance, energy and the environment, and healthcare.



We invite you to
change perspective

Institute for Management Research
Radboud University



www.ru.nl/imr/id

Integrated Decision Making

WHAT DOES ID OFFER?

ID provides methodological and analytical support in the following areas:

- problem analysis: specifying a joint vision on current problems and future objectives;
- future analysis: developing (participatory) scenarios to evaluate how a problem will evolve over time;
- solutions: generating alternative solutions to meet objectives;
- impact analysis: estimating the impact of alternative solutions;
- choice: evaluating alternative solutions, given the objectives, and choosing a preferred one;
- implementation: translating this knowledge into effective intervention strategies.



"Stakeholders interests are often insufficiently taken into account when solving complex societal problems. Our strength is that we account for stakeholders' problem perceptions and preferences when solving problems."

Prof. Vincent Marchau and Prof. Étienne Rouwette
Coordinators

EXTERNALLY FUNDED RESEARCH PROJECTS

Modelling complexity: an interactive approach

NGInfra & Alliander - Vincent de Gooy -
ert, Hans van Kranenburg and Étienne
Rouwette

Simulations for Innovative Mechanisms for
the Self-organising City

NWO, Joint Programming Initiative –
Erwin van der Krabben and Utz Weitzel

Smart Emission (Mappable project)

Stichting Techniek en Wetenschap – Linda
Carton

Multimodal Public Transport Networks

Breng Kenniscentrum Ruimte en Mobiliteit
– Henk Meurs

Proefprogramma Stedelijke

Hervestelling in Gelderland

Provincie Gelderland - Erwin van der
Krabben and Sander Lenferink

Smart Cities' Responsive Intelligent Public
Transport Systems

NWO – Henk Meurs and Vincent Marchau

Scenarios Nijmegen 2035

Nijmegen Municipality – Étienne
Rouwette, Vincent Marchau, Brigitte
Fokkinga and Monic Lansu

PROJECT SCENARIO ANALYSIS FOR THE CITY OF NIJMEGEN

The city of Nijmegen was considering a number of large investment projects, for instance regarding public transport, housing construction, further development of the university campus or reorganising healthcare. Many of these investments have long term impacts. To test how these investments will work out, given these uncertain future developments, the city decided to organise discussion meetings. The meetings focused on the question: Are we doing the right things to prepare for 2035?

In the meetings managers of the city of Nijmegen participated and mapped out trends and possible future developments.

Since it is impossible to predict the future, the next best thing is to identify the trends

that have most impact and to identify the range of what is possible. Following this logic, developments were combined into four scenarios for 2035: four different, but equally likely, descriptions of possible future situations. Investments and strategic plans were then tested against these scenarios.

This wind tunnelling exercise revealed a number of strategies that were successful, under a range of future uncertainties. However, strategies related to infrastructure construction in particular turned out to not be robust. Evaluation of the project revealed that participants have a clearer grasp of uncertain future developments and how the city of Nijmegen can prepare for these.

VISIT OUR DIGITAL MAGAZINE

NSM magazine is the online magazine of the Nijmegen School of Management. The magazine aims to inform our internal and external contacts of recent developments in our research.

nsm-magazine.net

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Radboud University Nijmegen 

IMR

It is the mission of the Institute for Management Research (IMR) to carry out state of the art research into complex problems of governance and management, with the aim of explaining the causes of these problems, and using that knowledge to create potential solutions. The complexity of the problems being studied calls for the combination of knowledge and expertise from multiple disciplines, and for collaboration with the societally relevant parties. IMR researchers achieve this mission by combining scientific excellence with societal relevance. This is reflected in the motto of IMR: creating knowledge for society.

CONTACT

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