# Innovative public decision making assisted by design theory: is it possible?

I. Pluchinotta<sup>1</sup> A. Kazakçi<sup>2</sup> A. Tsoukiàs<sup>1</sup>

<sup>1</sup>LAMSADE-CNRS Paris Dauphine University (France)

<sup>2</sup>MINES ParisTech (France)

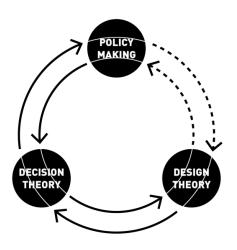
irene.pluchinotta@dauphine.fr

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#### Overview

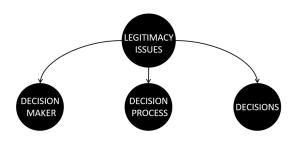
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#### Introduction



We are interested in using design theory for policy-making. We aim at formalising the policy design process

## Public Decision Making

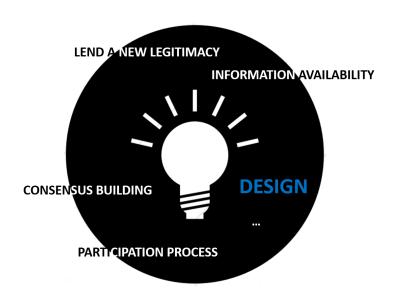


Complexities inherent to public decision making:

- Use of public resources
- Participation of multiple stakeholders (different values, interests...)
- Long-time horizon
- Accountability



## Innovation in policy making



## Innovation in policy making

#### Why innovative design is important?

- We lack a methodology aiding to generate sets of policy design alternatives
- The traditional policy-making methodologies are mainly concerned by:
  - i) economic evaluation of given alternatives (ex-post, ex-ante);
  - ii) consensus building through participatory processes by best practices analysis.

#### What could be innovative in using design?

- create unforeseen alternatives
- create unforeseen scenarios
- imagine unforeseen participation (values, opinions....)

## Design theory

#### Design theory:

- aims at assisting any process of creating 'objects'. These 'objects' do not exist within our knowledge but can be designed out of it
- describes the design activity as a specific form of reasoning
- uses a formal language (mathematical, computer oriented, taxonomic)

#### C-K theory:

- Hatchuel and Weil (1999) suggest a distinction between concepts (propositions about new objects) and their interaction with the knowledge (propositions about known objects) of the designer
- The interaction and co-evolution of concepts and knowledge is the main engine through which design progresses

## An example of design of alternatives

A Municipality plans to build a bridge in the near future. Beforehand, the Municipality needs to decide whether or no to buy the land to host the bridge



A common practice to design alternatives is to expand the set of variables

ob	-o-b
o¬b	¬ob



We have a formal language for expanding variables

We have a formal language for expanding variables

We have a formal support for designing policies

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We have a formal support for designing policies

We explore how design theory can be matched with constructive decision analysis in order to assist the innovative public policy design

## Thank you.

irene.pluchinotta@dauphine.fr