

The Decision Deck project

Report from the specifications committee

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Objectives

- **Considerations** on the decision aiding process and the inputs and outputs of MCDA methods
- Definition of **standards** for the Decision Deck project:
 - XML description of the inputs and the outputs of MCDA methods
 - Formal descriptions of a general MCDA process
- Proposals of various **architectures** for the Decision Deck platform

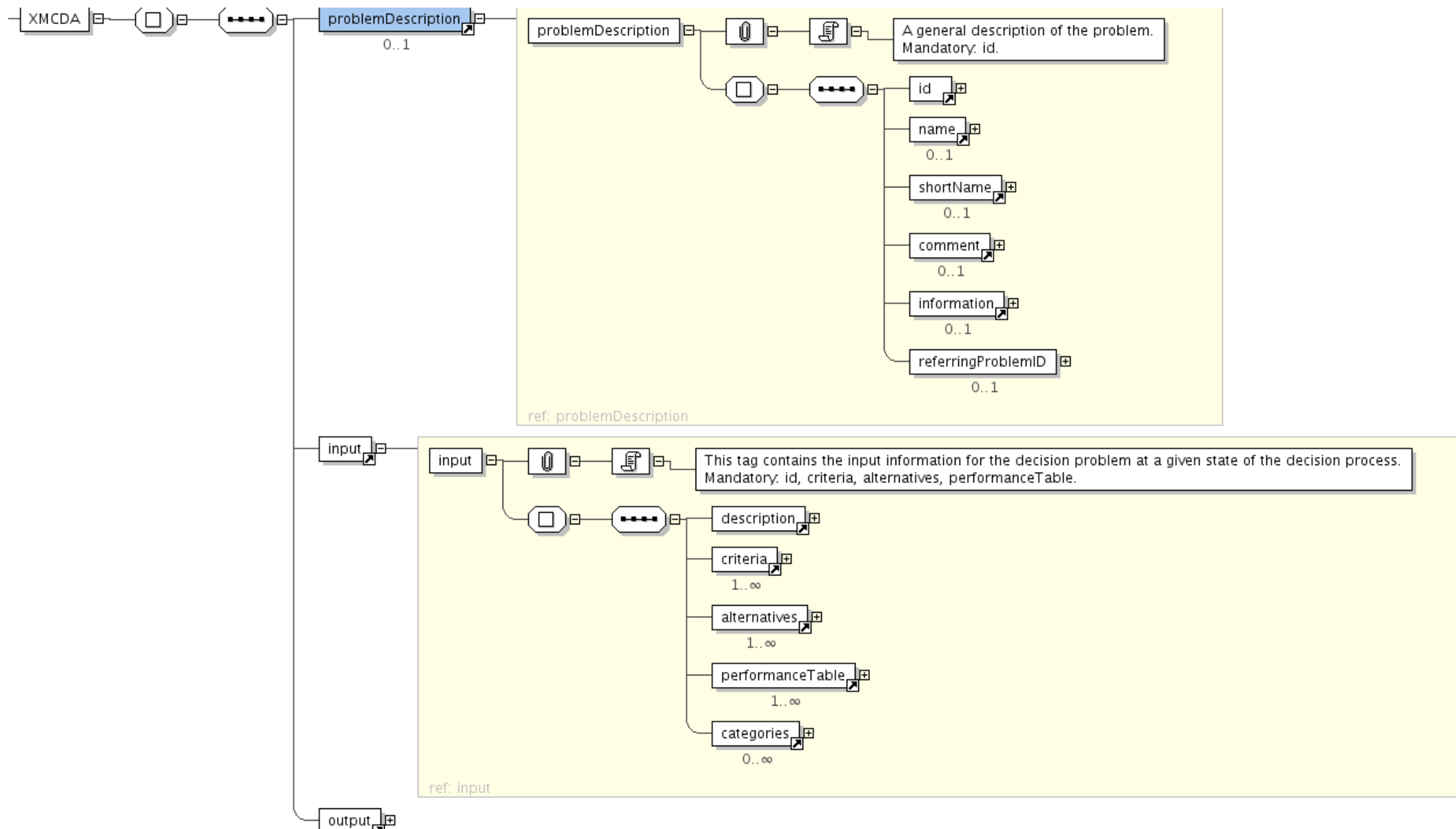
Current active members

- R. Bisdorff, *Université du Luxembourg*
- P. Meyer, *Télécom Bretagne*
- V. Mousseau, *Paris Dauphine*
- M. Pirlot, *Faculté Polytechnique de Mons*
- M. Zam, *Karmiksoft*
- G. Dodinet, *Karmiksoft*
- ...

Achievements

- Brainstormings on the **inputs** and **outputs** of MCDA methods
- List of **common inputs** of MCDA methods
- First proposal of an **XML schema** for the inputs

Current XML schema



Example XML file

```
<problemDescription>
  <name>Car Selection Problem</name>
  <information>
    <stakeholders>Patrick Meyer</stakeholders>
  </information>
</problemDescription>
<input>
  <description>
    <id>01</id>
  </description>
  <criteria>
```

Example XML file (continued)

...

```
<performanceTable>
```

```
  <evaluation>
```

```
    <alternativeID>mazda</alternativeID>
```

```
    <performance>
```

```
      <criterionID>price</criterionID>
```

```
      <value>
```

```
        <real>12500</real>
```

```
      </value>
```

```
    </performance>
```

...

Purpose

- One common *grammar* to describe the inputs and outputs of MCDA methods
- Ease **communications** with and between methods
- Allow to easily adapt any method as a **web service**
- **Composition** of methods
- **Simplify** the representation of the inputs and the results
- ...

Let's have a look at **XMCDA** !