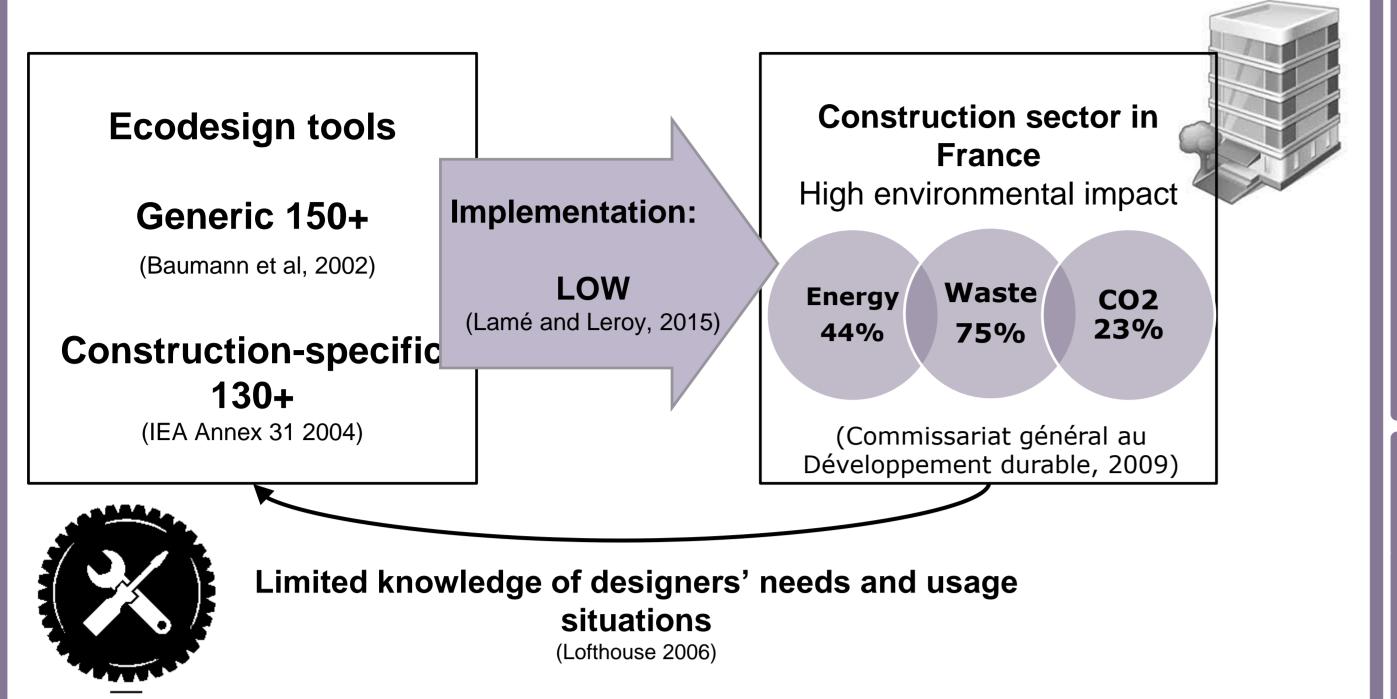


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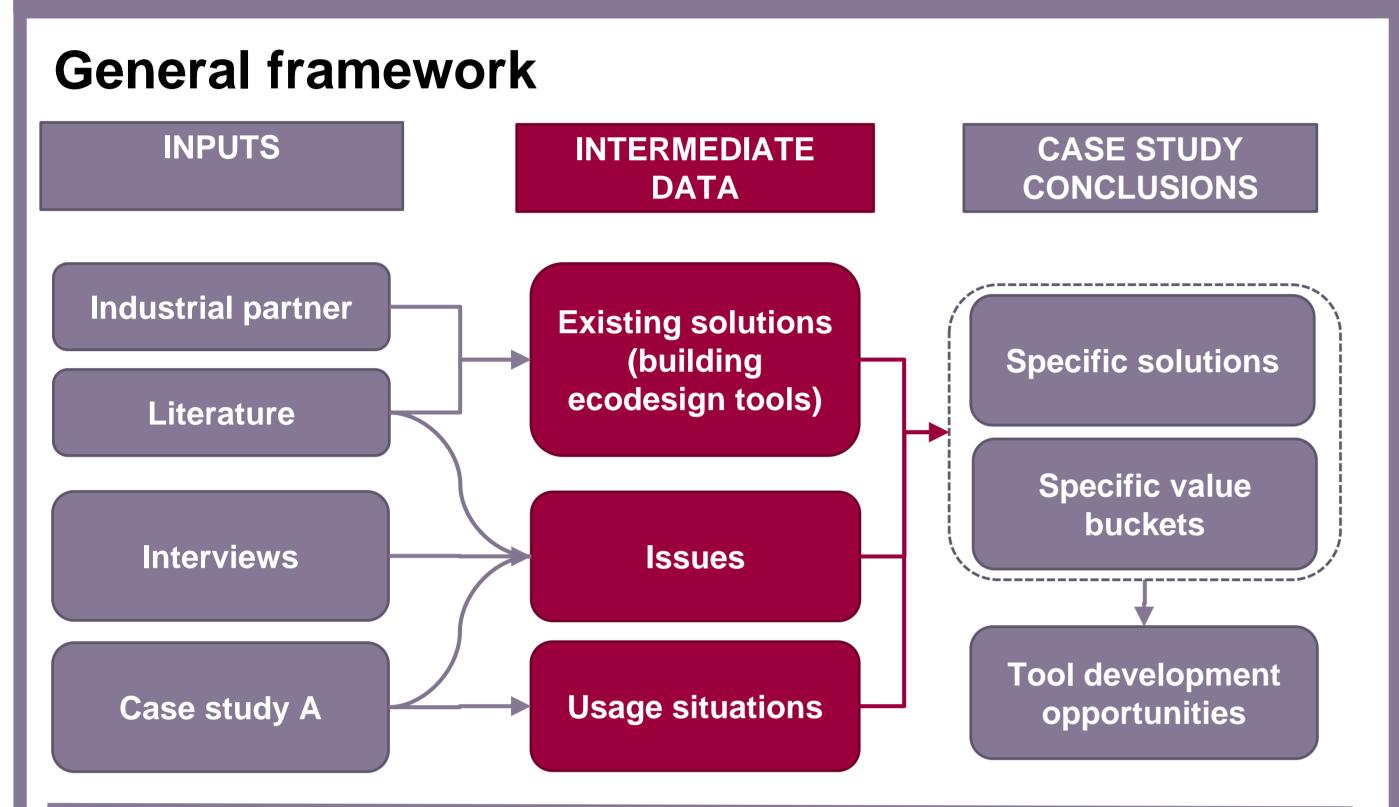
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# Development opportunities of ecodesign tools for the building sector - A French case-study

## INTRODUCTION



## METHOD

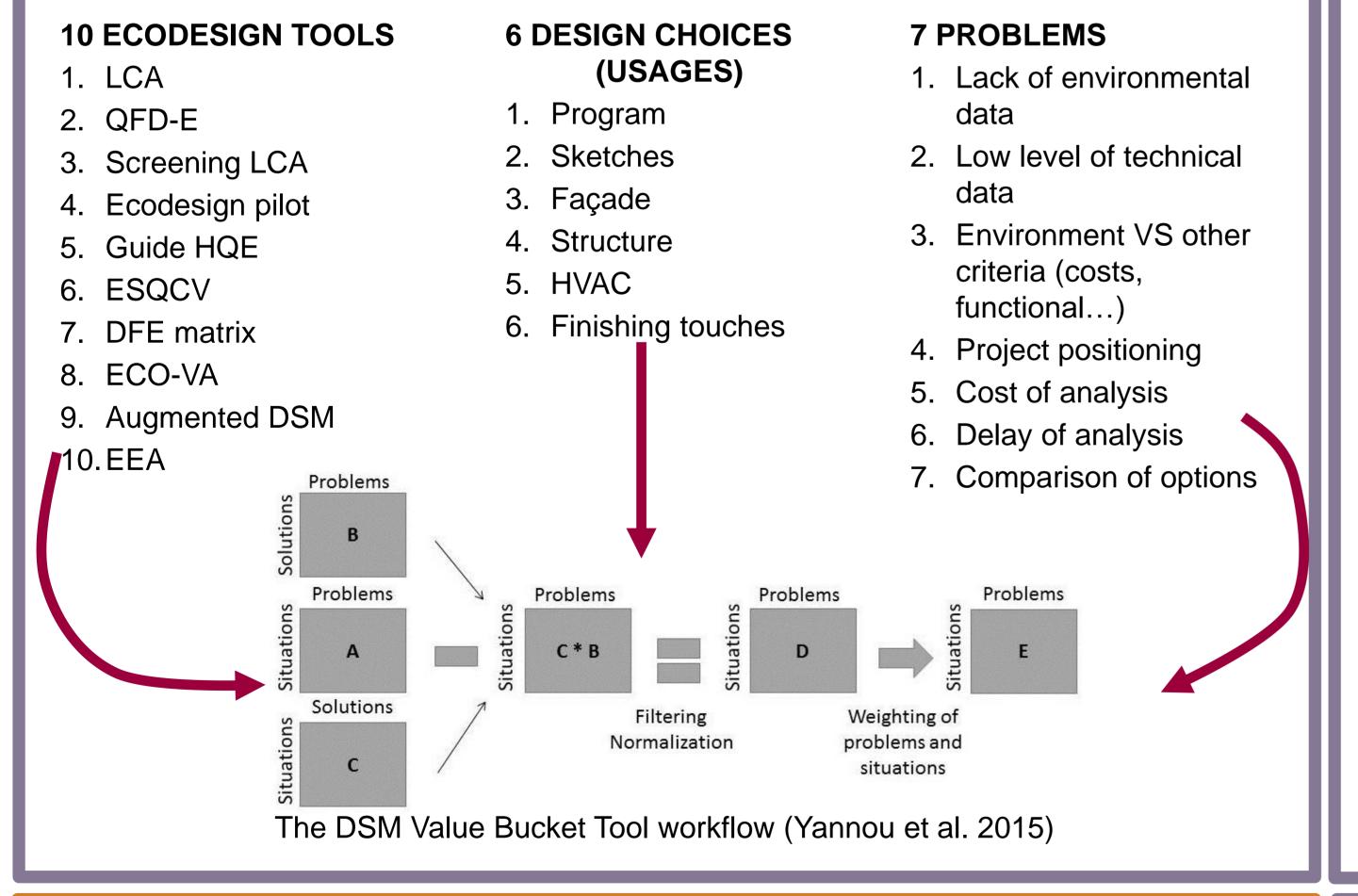


#### **Interviews:**

- 19 interviews in 14 French construction sector companies
- Full range of design phases participants

#### Case study:

- Large French promoter
- 2 « positive-energy » office buildings
- Document analysis
- 2 discussion meetings with project managers and environmental consultants



#### Références

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## **OBJECTIVES**

#### Main objectives are:

- •Understand designers' needs
- Identify and assess 10 ecodesign tools
- •Measure how ecodesign tools cover these needs
- Implement the *DSM Value Bucket Tool* (extracted from Radical Innovation Design© approach) to identify development opportunities of ecodesign tools

## RESULTS AND DISCUSSION



#### Opportunities for building ecodesign tool development

- 1. Positioning project environmental performance when writing requirements (Program stage)
- 2. Developing multicriteria assessment for Program, i.e. assess how requirements impact all dimensions of the project performance (Environment VS Cost)
- 3. Developing multicriteria assessment for sketches, i.e. how functionality, cost, delays and environmental impacts balance each other in early phases
- 4. Positioning project at the sketches stage

#### Surprises

- Lack of environmental data and cost of analysis are usually identified as big issue (literature & interviews)
- After computation, these problems are rated very low!

## CONCLUSION

#### Method

- DSM Value Bucket analysis provides new insights on designers needs
- Innovation approaches are valuable for developing ecodesign tools

#### **Next developments**

- Make sense of environmental analysis results, move from assessment to eco-design practices
- Include other criteria: initial cost, operational cost, maintenance easiness...



