

DECADIESE: a new method to assess buildings' sustainable value through functional performance and externalities integration

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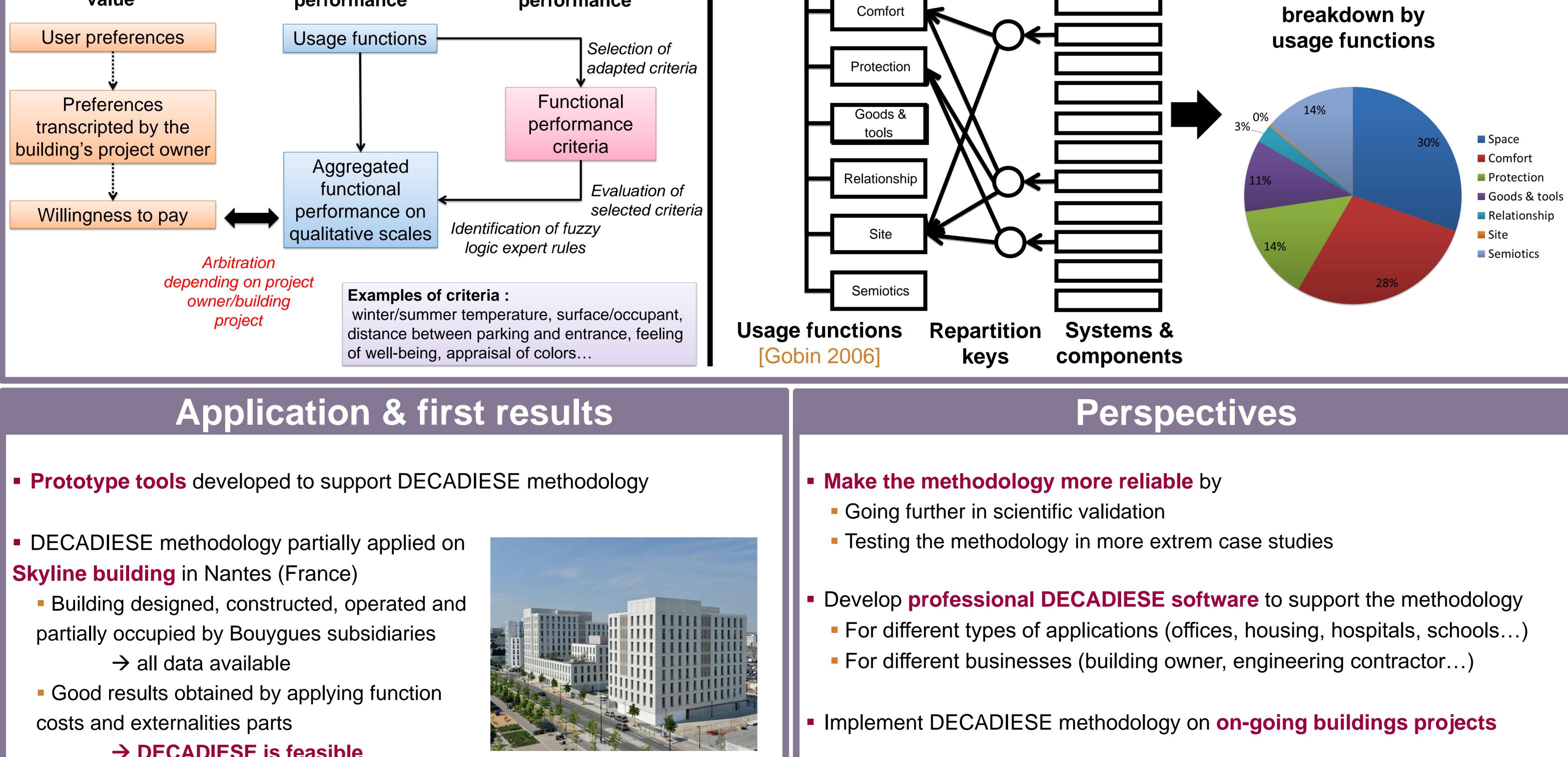
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	Externalities	2 Detect potential externalities	Externalities	4 Activate externalities associated with functional performance > threshold	Externalities	5 Evaluate willingness to pay for selected externalities			Aiding decision for buildings' project owners thanks to:
-		Stakeholders		Functional performance criteria		Investment costs		Exploitation and end-of-life costs	 A functional perspective centered OD USERS
	Usage functions	1 Define prescripted functional performance	Usage functions	3 Evaluate functional performance	Usage functions	6 Break down investment costs by functions	Usage functions	7 Break down exploitation and end-of-life costs by functions	 Externalities elicitation to identify new value creations
	Functional performance domain					Usage function costs domain			
	Approach based on a list of 95 functional performance criteria and fuzzy logic to aggregate functional performance on usage functions Perceived value Performance					Approach based on Value Management and Functional Analysis [NF EN 12973:2000, Ehrlenspiel et al. 2006]			
						Building Space			Costs



- - \rightarrow DECADIESE is feasible
- **Serious game** developed and run for one day to test appropriation of the methodology by real building sector's actors
 - \rightarrow High interest from these actors
 - \rightarrow New directions for future developments

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