

#### Building a responsible future by anticipating long-term impacts of disruptive products

Robin Lecomte, Bernard Yannou, Guillaume Thibaud, Roland Cahen

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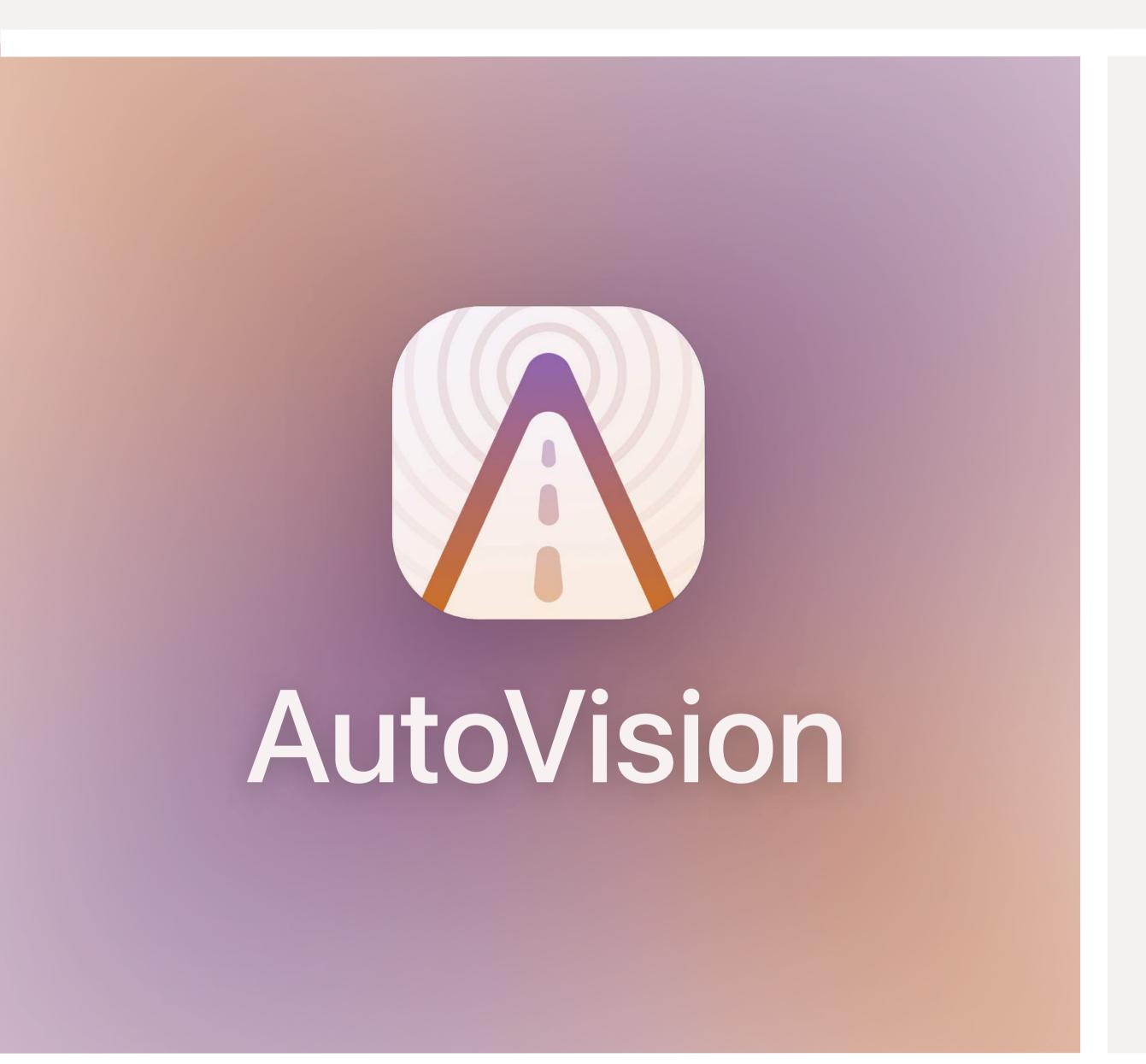


## Building a

# Responsible Future

By anticipating long-term impacts of disruptive products

The case of Vehicle
Autonomous Vehicle



#### What is the problem?

When dealing with disruptive products such as autonomous vehicles, designers and decision-makers face a challenge in predicting their long-term impact, unlike with traditional products. This can result in an "open-loop" design process that may have irreversible consequences for people, the environment, and society in the long run.

#### Existing knowledge is available but dispersed





Numeric simulations

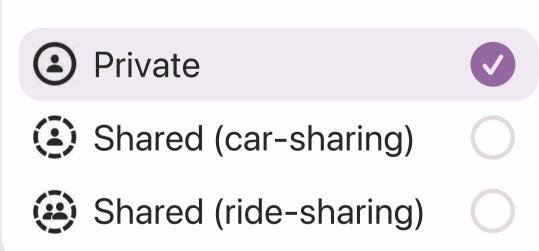
#### How to use this knowledge to help designers and decision-makers?

AutoVision is a digital platform anticipating the long-term socio-economic and environmental impacts of autonomous vehicles concepts thanks to existing knowledge. It was designed to help users imagine future autonomous vehicles (stimulation) and test the impacts of their proposals (simulation).

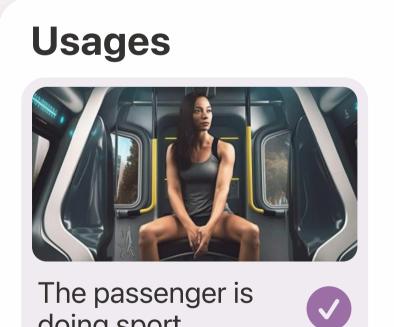
## Impact Guesser

The Impact Guesser mode enables the user to define a scenario for an autonomous vehicle and generates a weighted list of possible impacts.









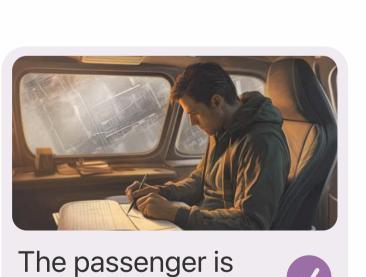
doing sport

**Robin Lecomte** 

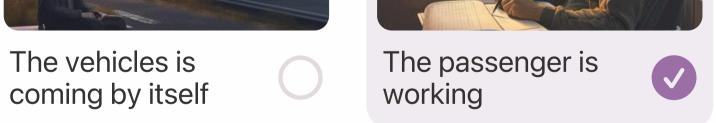
Stellantis / LGI / CRD

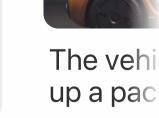
PhD Student



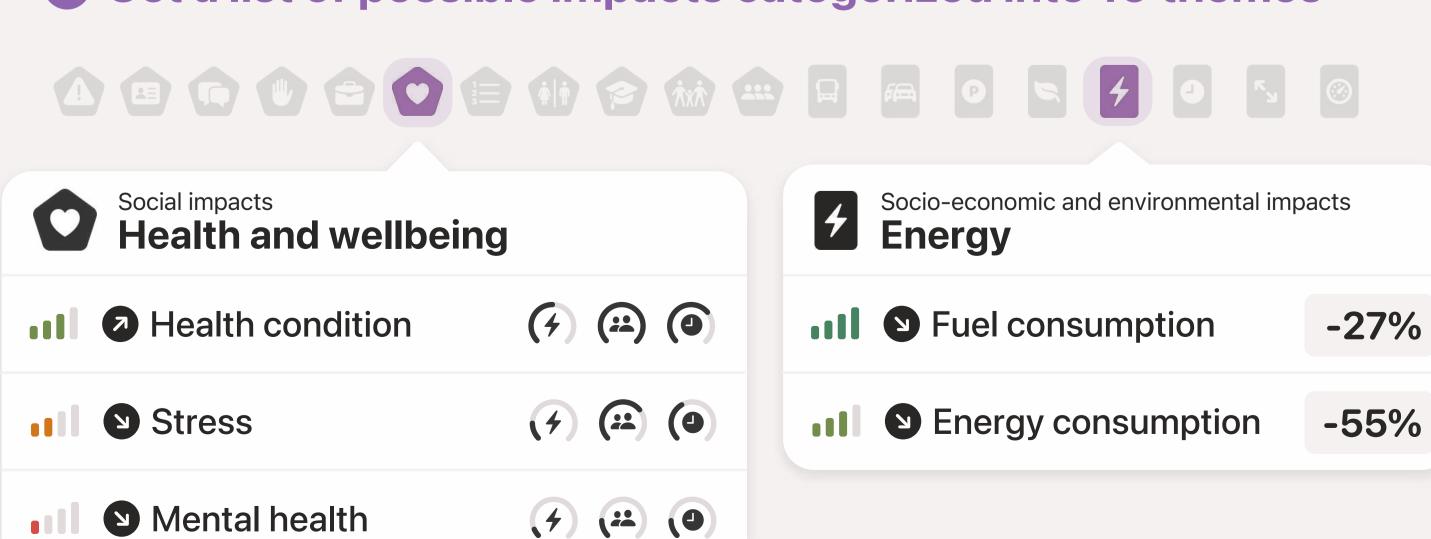








#### 2 Get a list of possible impacts categorized into 19 themes

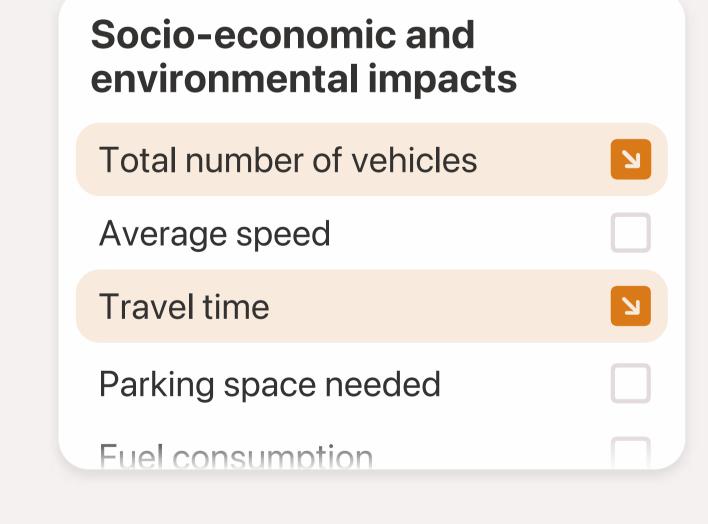






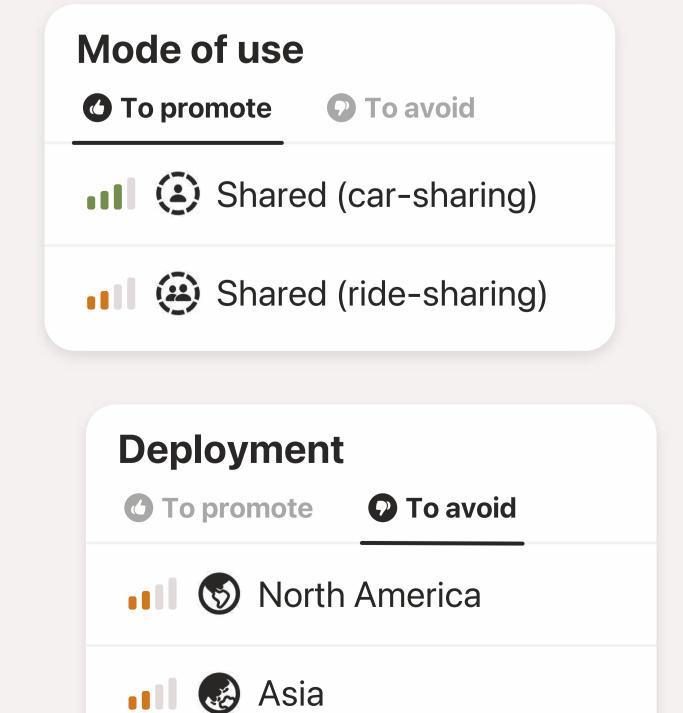
The Advisor mode allows the user to choose which impacts are most important to avoid or prioritize and provides a list of suggestions accordingly.

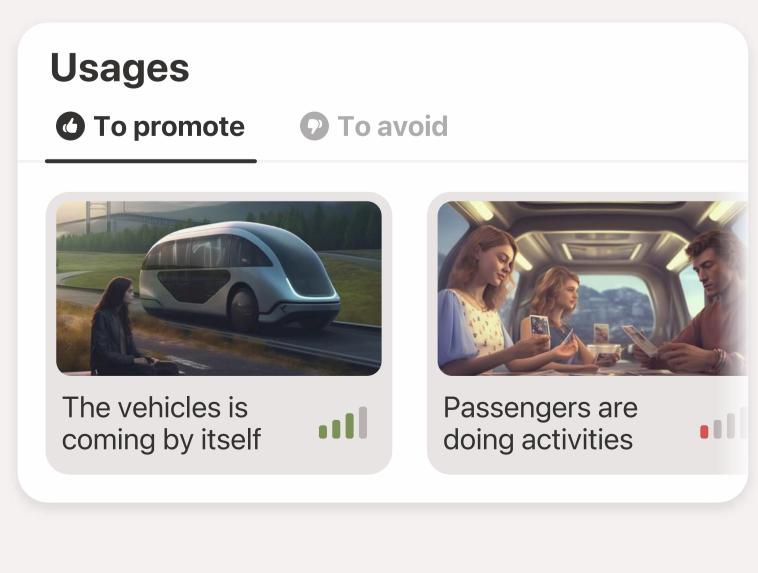
### 1 Define a strategy

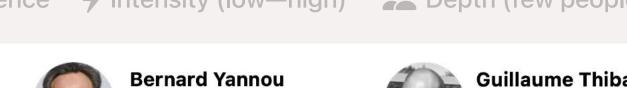




#### 2 Get suggestions to define your AV concept







Thesis director

LGI — CentraleSupélec









Level of confidence