

# **planning support for sustainable urbanization**

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## **outline**

- **context**
- **goal**
- **background**
- **question**
- **methodology**

## context: cesar

- two sar: climate and environmental change and sustainable accessibility of the randstad
- study impacts of climate change on mobility and accessibility of randstad
- develop effective means to bring this knowledge where it belongs: the planning process



## context: cesar

- weather / climate and mobility
- urban environment and climate change
- planning support in different governance and control contexts
- planning support for sustainable urbanization

## research goal

**to contribute to the attainment of sustainable spatial planning by bringing knowledge of climate change and mobility behavior into planning processes**

## sustainable urbanization

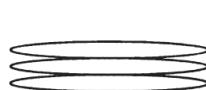


# planning process

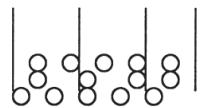
## communicative turn



*The phase model*



*The stream model*



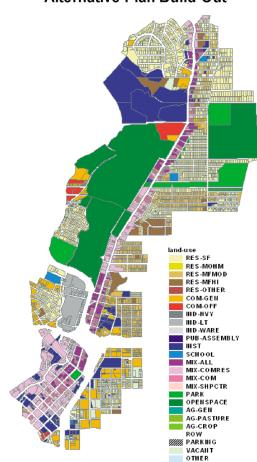
*The rounds model*

– and re-turn?



# planning support systems

Alternative Plan Build-Out



# planning support systems

Alternative Plan Build-Out



supply



# planning support systems

Alternative Plan Build-Out

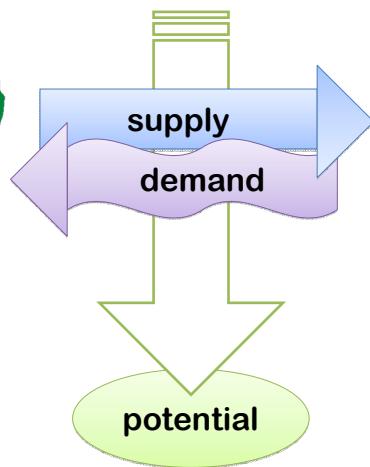
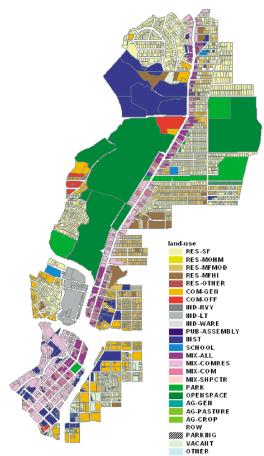


supply  
demand



# planning support systems

Alternative Plan Build-Out

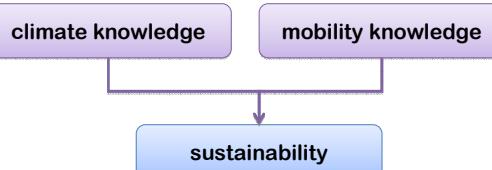


## research question

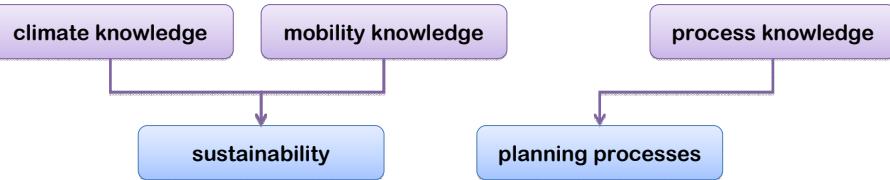
in what ways and to what degree can planning support methodologies assist in the achievement of sustainable urbanization, by providing innovative knowledge for and within interactive planning processes?

# research steps / methodology

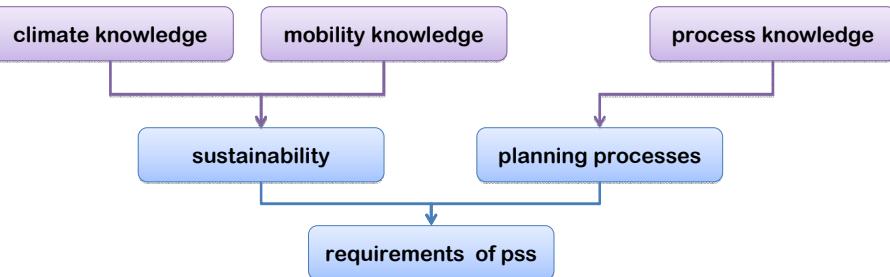
## research methodology



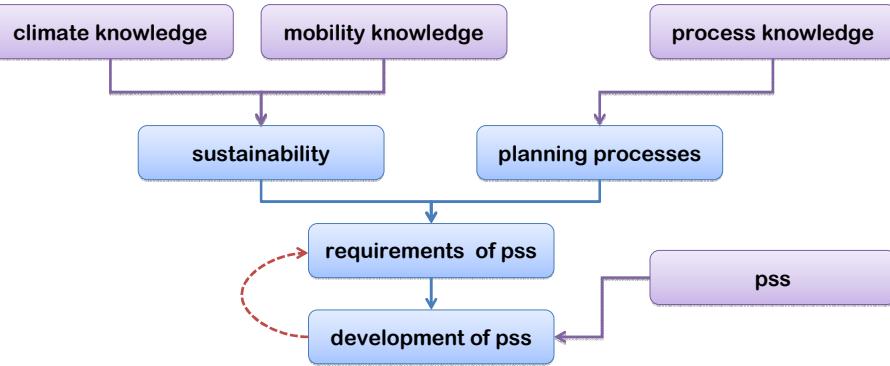
# research methodology



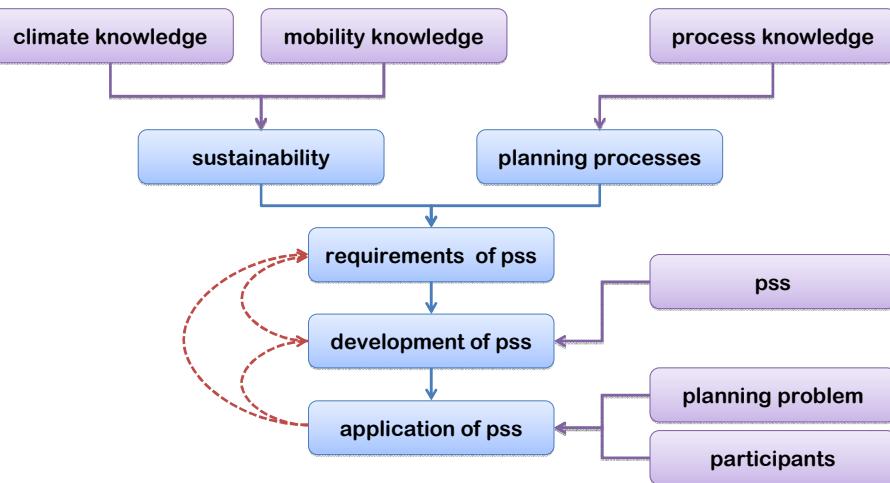
# research methodology



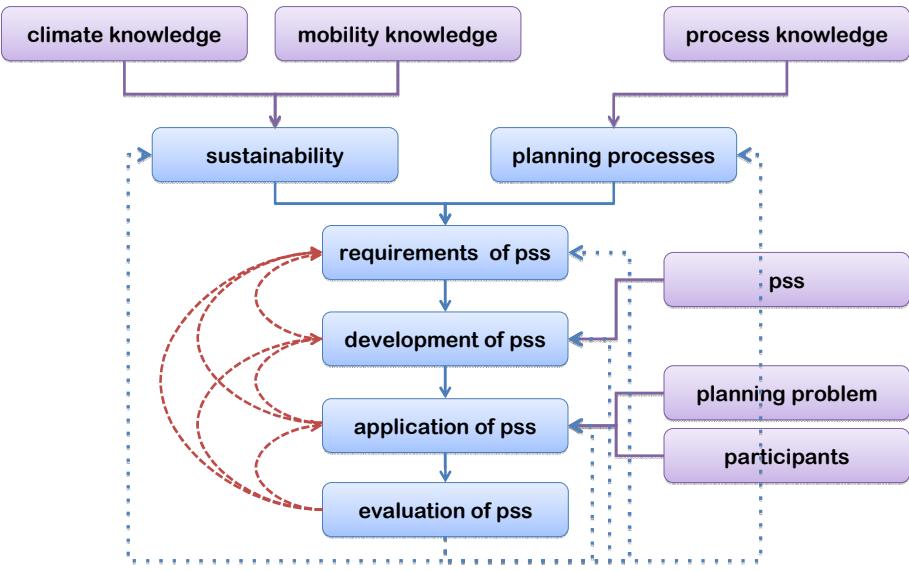
# research methodology



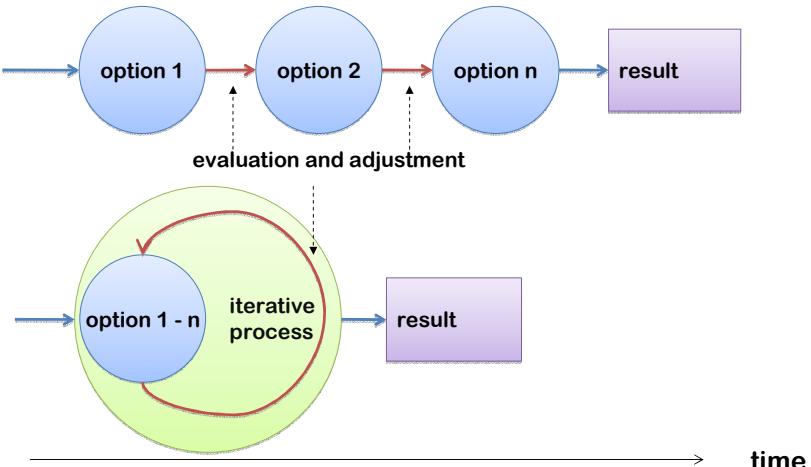
# research methodology



# research methodology

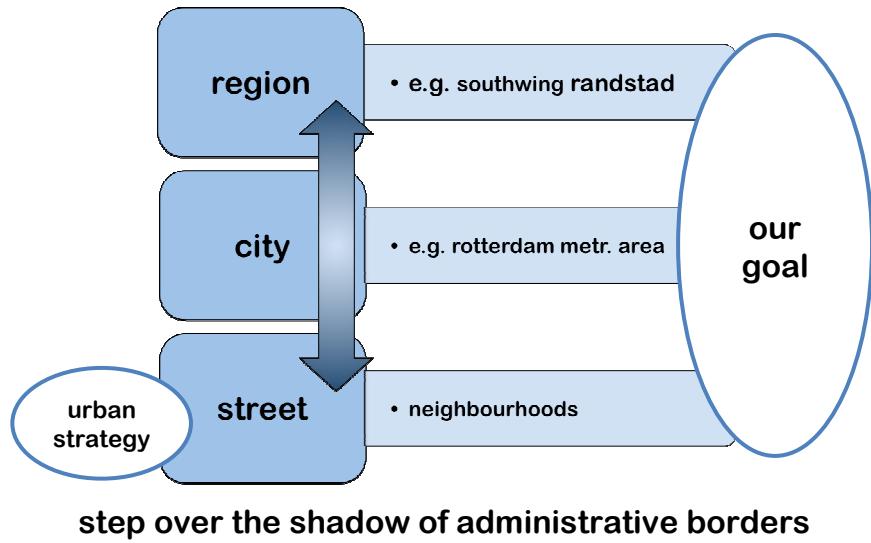


# requirements of pss

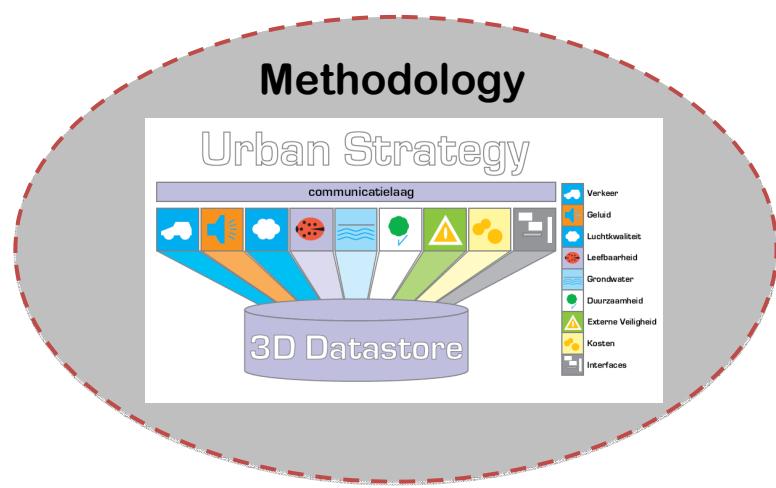


facilitate – not dictate the planning process

## requirements of pss



## development of pss



## application of pss



planning for sustainable urbanization

## evaluation of the pss

- “better informed” planning?
- “more sustainable” plans / scenarios?

evaluation of effectiveness

## **we aim to achieve**

- “better informed” planning and  
“more sustainable” plans / scenarios

**...due to innovative planning support**

**thank you for your attention**

research funded by:



additional questions / suggestions:  
contact me at [n.vandervaart@geo.uu.nl](mailto:n.vandervaart@geo.uu.nl)

more info on cesar research consortium:  
check the cesar blog at <http://cesar.nvdv.eu>