



# *Planning and Design of Active Mode Networks in Cities*

*Ilse Galama*





# Content Presentation



**Introduction AM**



**Research Question**

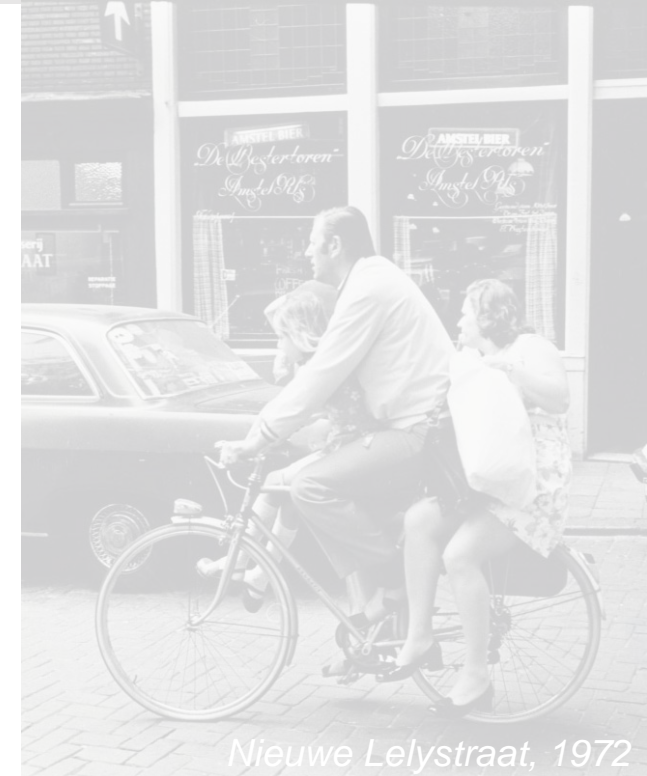


**Approach**



**Social Relevance**

# Content Presentation



**Introduction AM**

*Active Modes*  
walking & bicycling

**Research Question**

**Approach**

**Social Relevance**



# *Introduction – Active Modes*



- Positive effect on cities
  - health benefits citizens
  - less congestion
  - more sustainable
  - more liveable
- Cities worldwide: want to improve their bicycling and walking shares



*Amsterdam, 1975*

# *Introduction – Active Modes*



- AM Measures not always successful
- Unknown:
  - which steps/measures are most critical or effective
  - how these steps depend on the context of each city



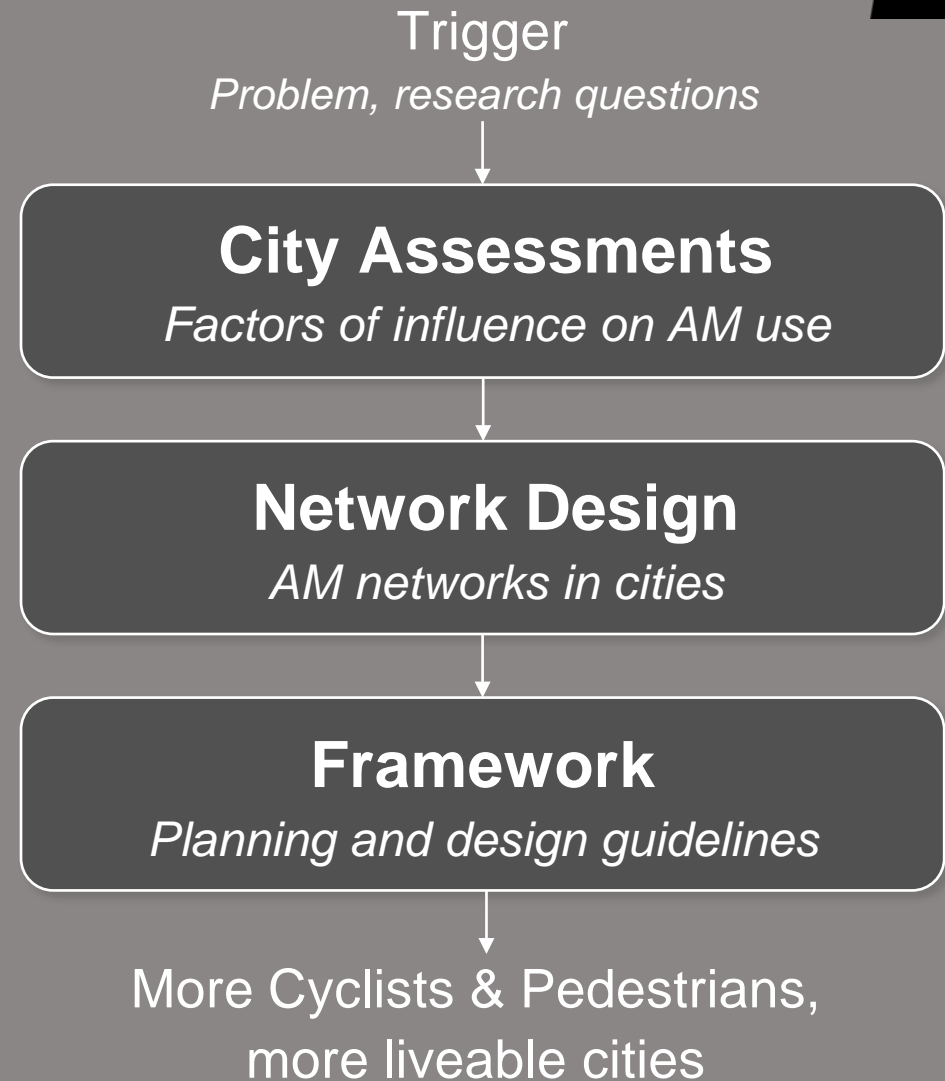
Washington, 1885

*How can various cities throughout the world design and plan an effective active mode network for their specific context, which stimulates the use of active modes, and most of all creates a liveable city?*

*How can **various cities** throughout the world **design and plan** an effective **active mode network** for their specific context, which stimulates the **use of active modes**, and most of all **creates a liveable city**?*



# Approach

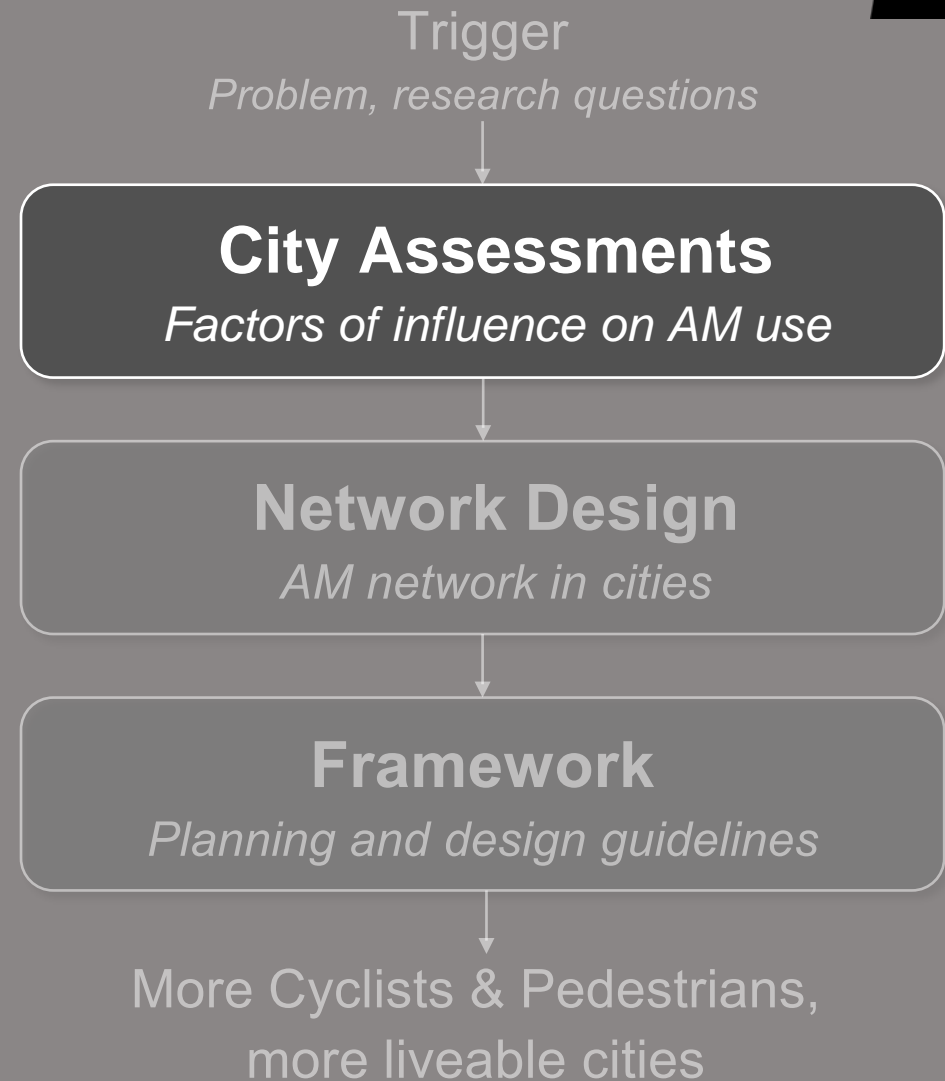


Advertentie, 1977



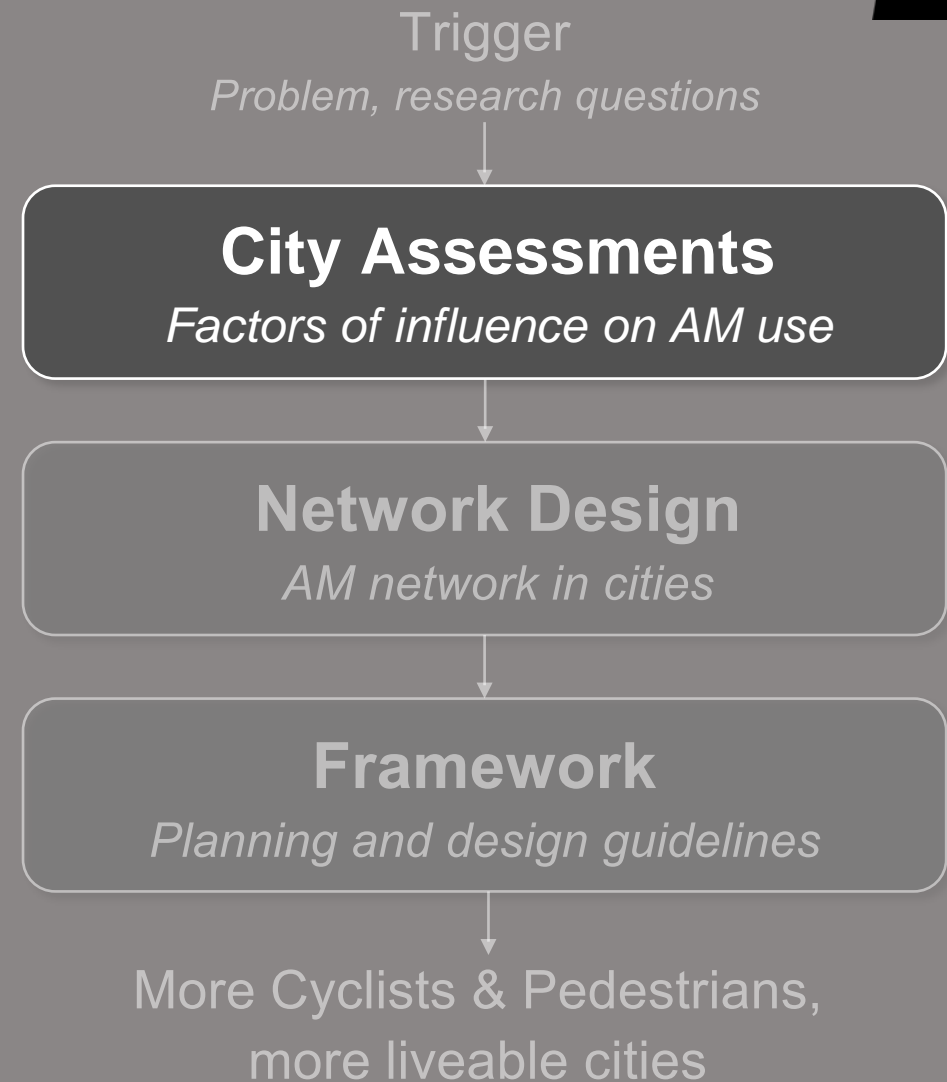


# Approach

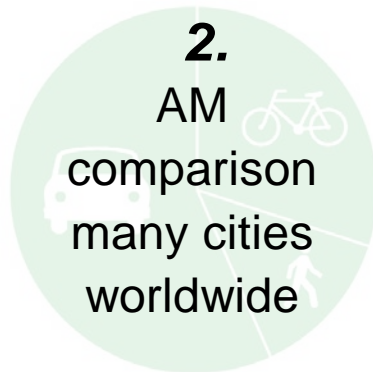




# Approach





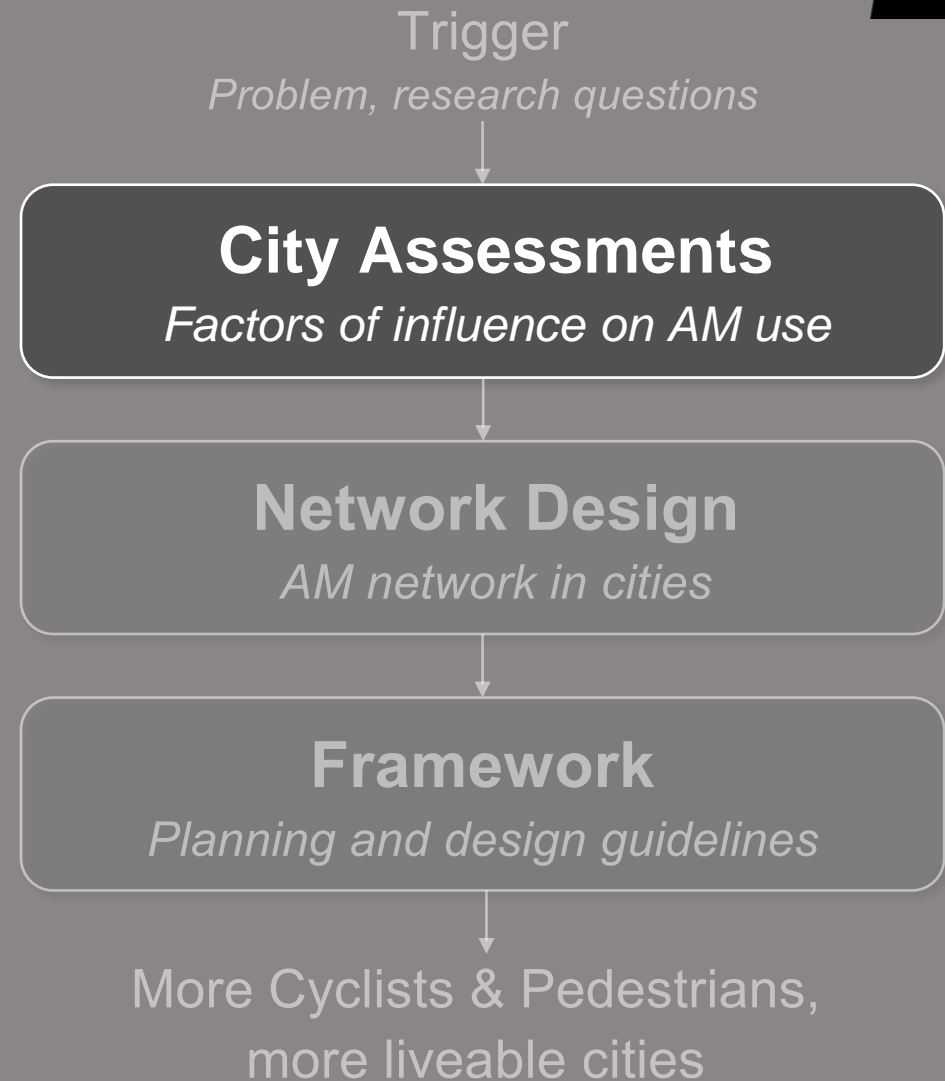


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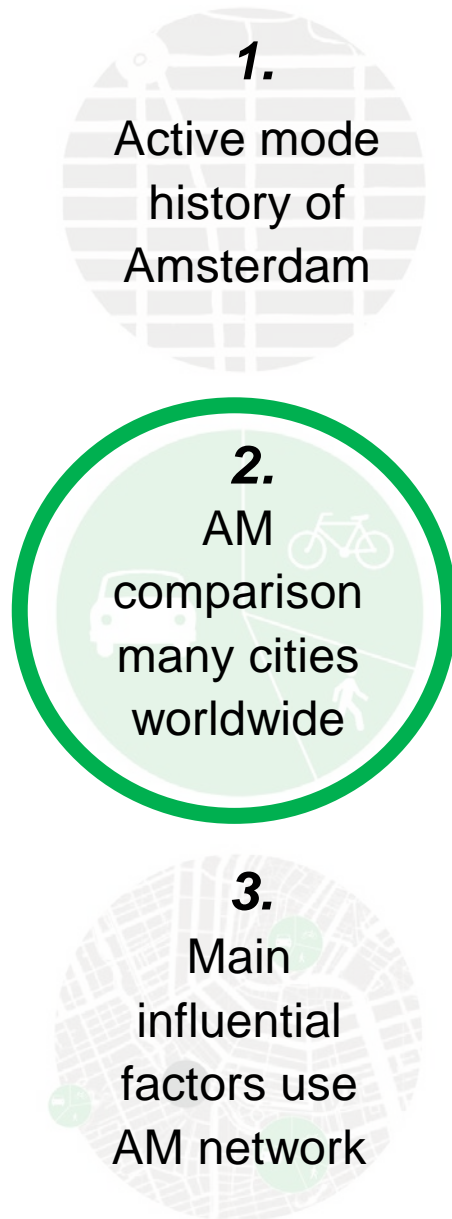




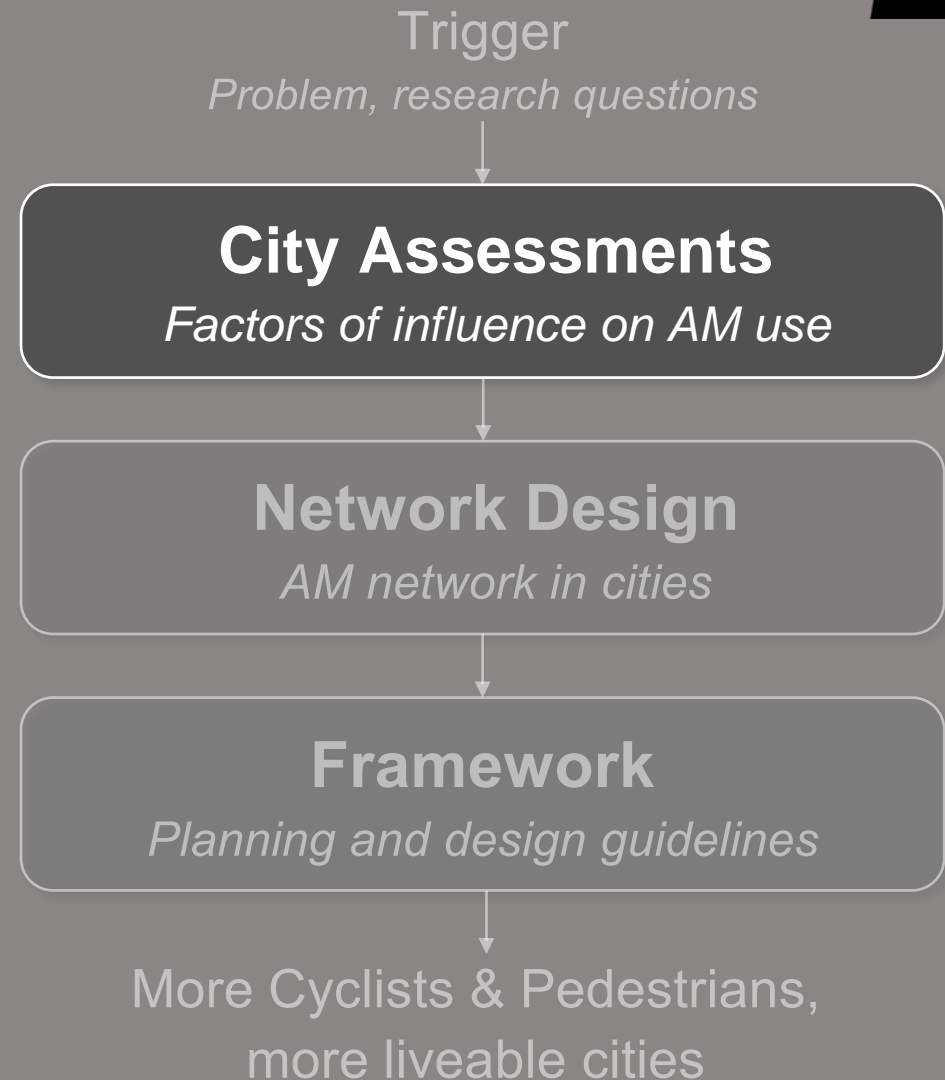
# Approach







# Approach



## 2. AM comparison many cities worldwide



### 1. Which cities?

NEW YORK CITY

AMSTERDAM

BOGOTA

MELBOURNE

etc...

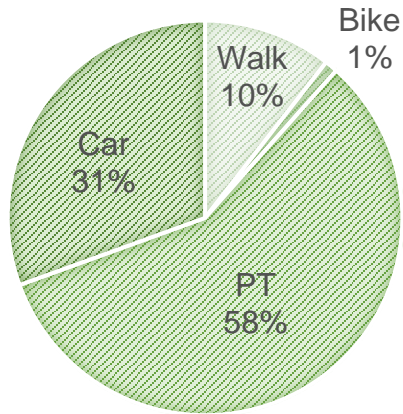


## 2. AM comparison many cities worldwide

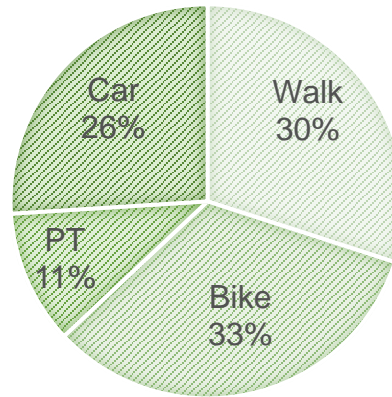


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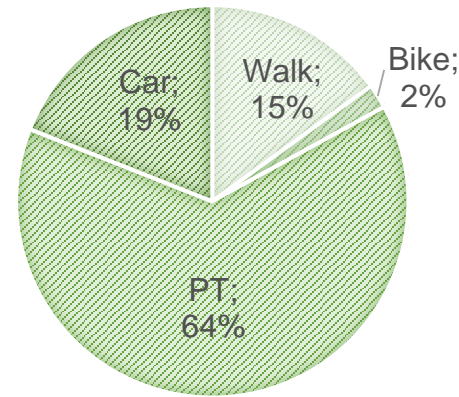
NEW YORK CITY



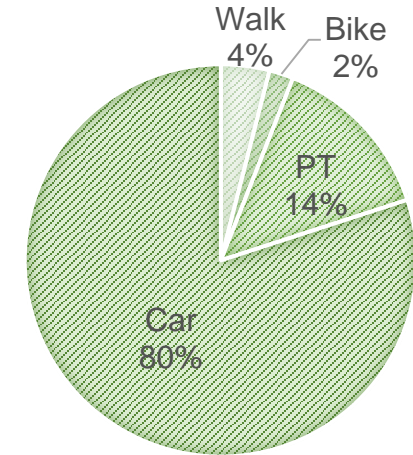
AMSTERDAM



BOGOTA



MELBOURNE



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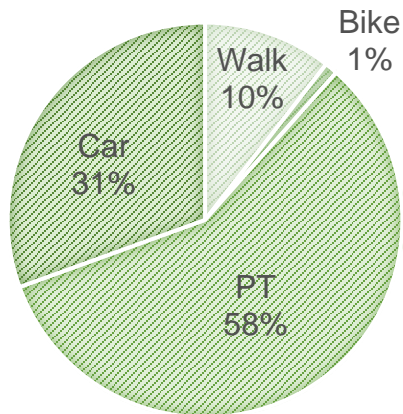
### 2. How to collect data?

## 2. AM comparison many cities worldwide

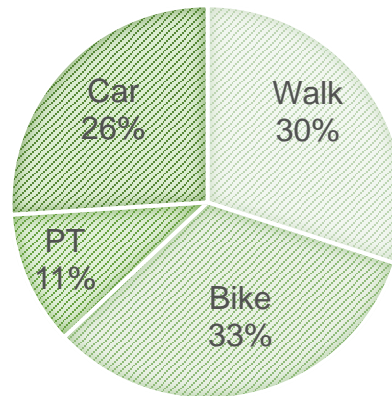


### 1. Which cities?

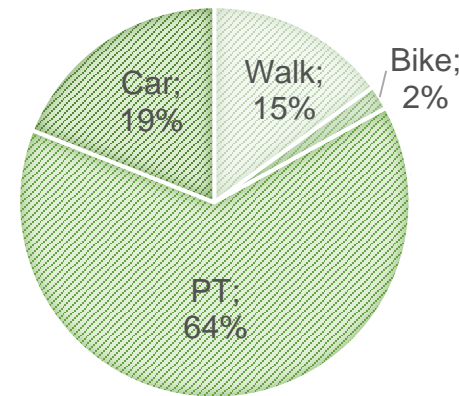
NEW YORK CITY



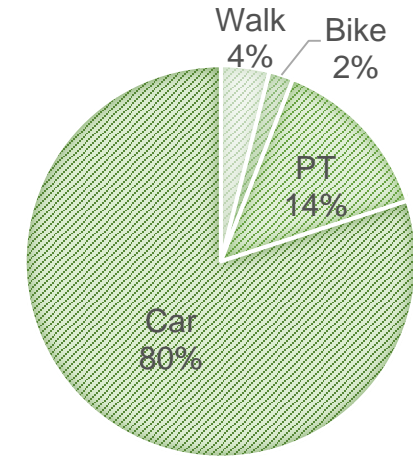
AMSTERDAM



BOGOTA



MELBOURNE



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### 2. How to collect data?

### 3. What factors influence AM use?

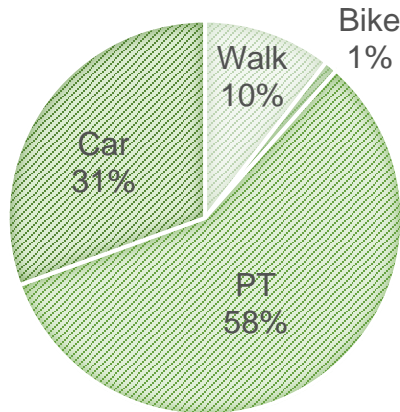
e.g. street density, land-use, public transport, climate, bike/walk-culture, safety, parks, buildings, .....

## 2. AM comparison many cities worldwide

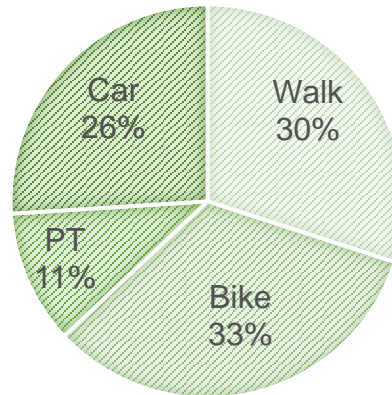


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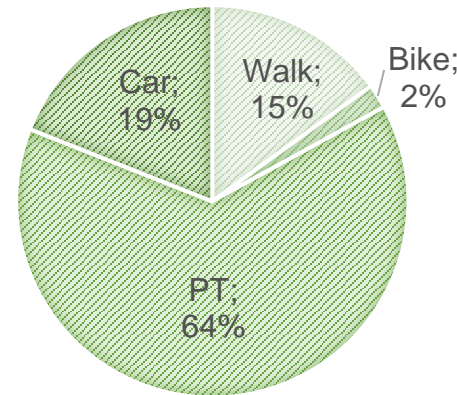
NEW YORK CITY



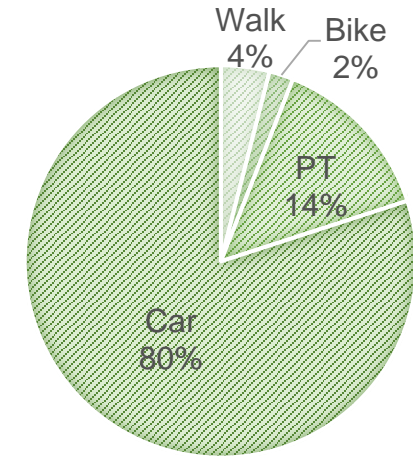
AMSTERDAM



BOGOTA



MELBOURNE



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### 2. How to collect data?

### 3. What factors influence AM use?

e.g. street density, land-use, public transport, climate, bike/walk-culture, safety, parks, buildings, .....

### 4. How can we categorize these cities?

e.g. 'AM-maturity', link to Amsterdam AM history, .....



# Approach

Trigger

*Problem, research questions*

**City Assessments**

*Factors of influence on AM use*

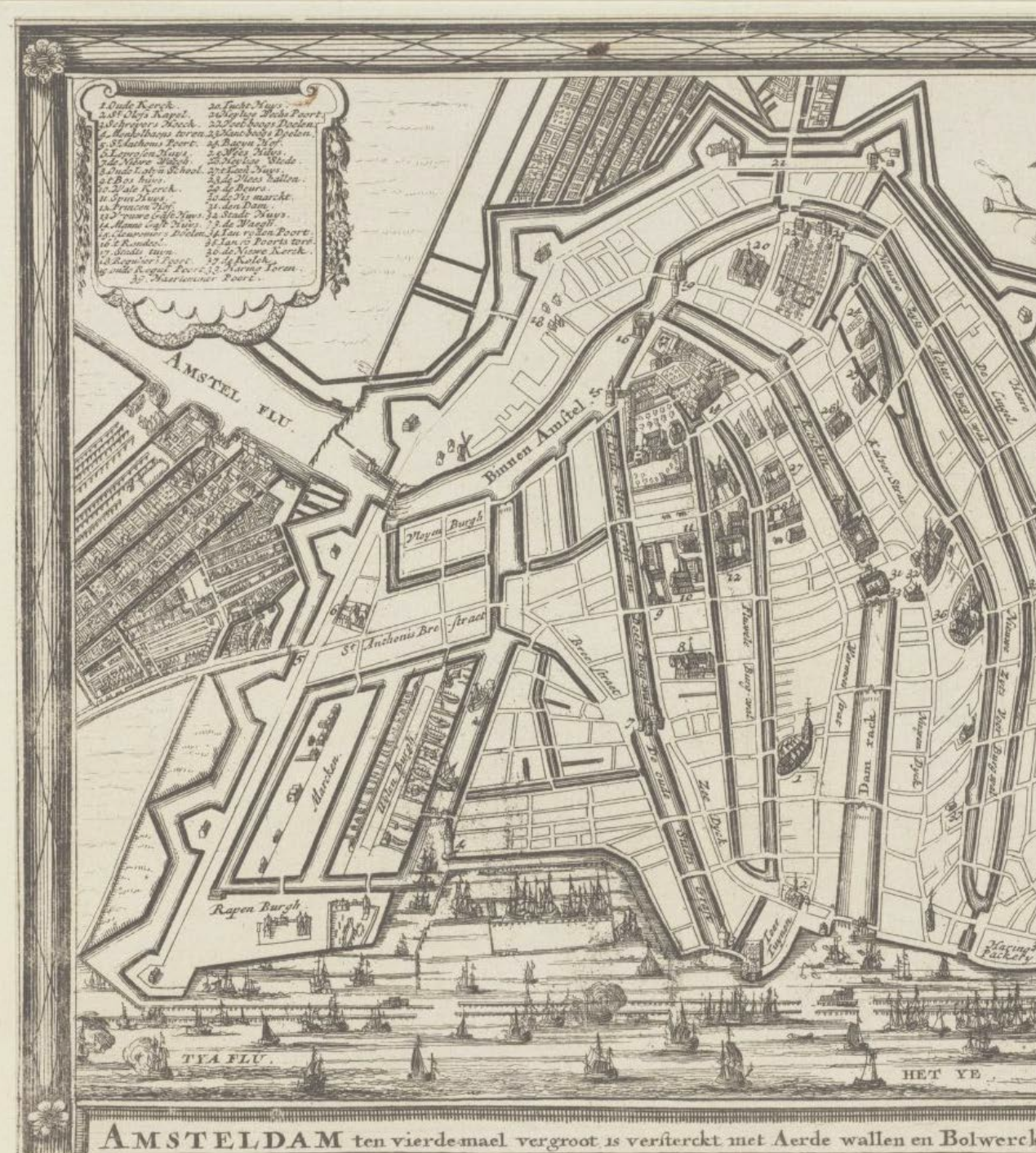
**Network Design**

*AM network in cities*

**Framework**

*Planning and design guidelines*

More Cyclists & Pedestrians,  
more liveable cities



Map Amsterdam, 1585





Amsterdam, 1955

# Approach





Amsterdam, 1954

# Approach

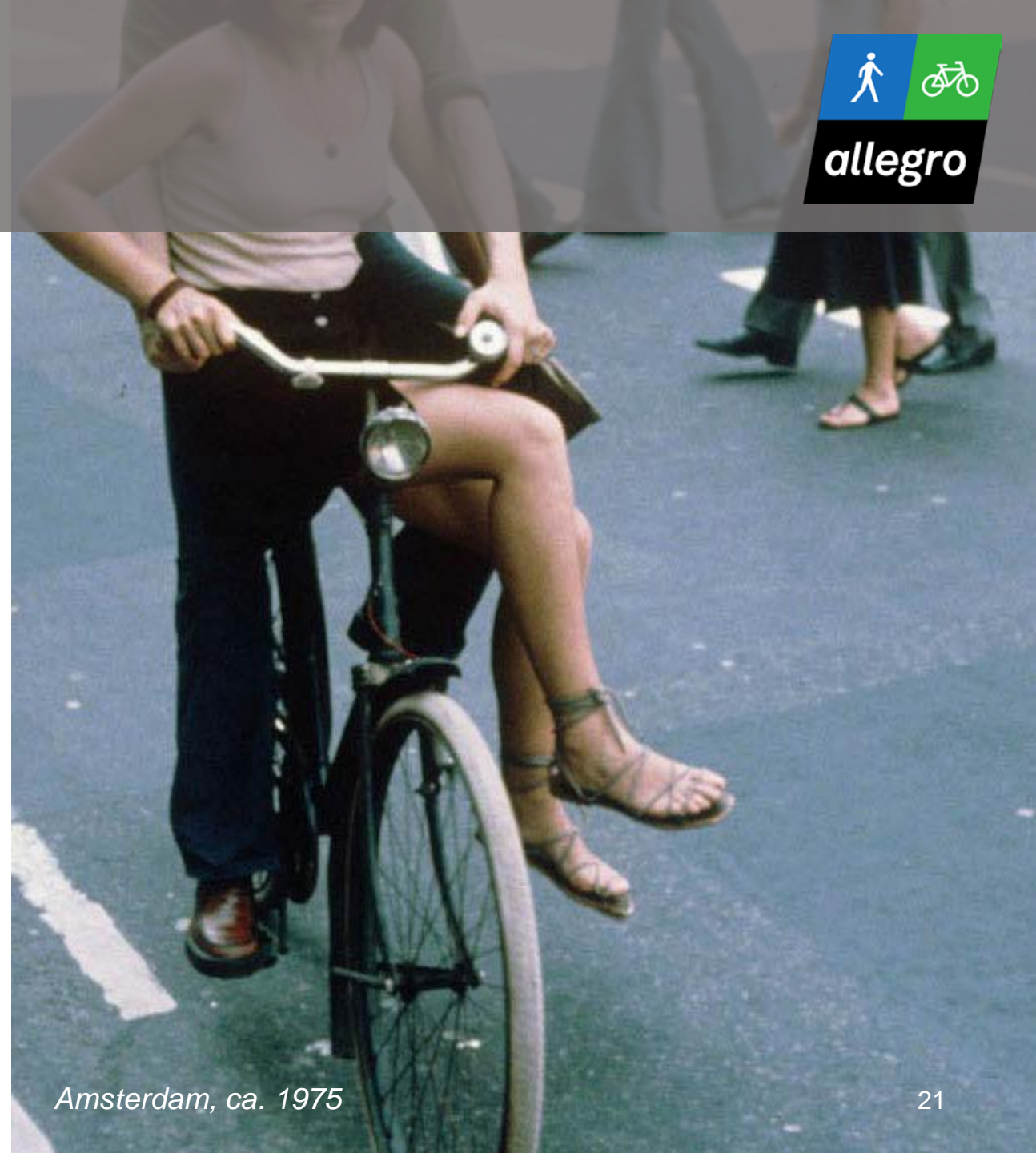




# Social relevance



- *Know the factors of influence on AM use, for different city-contexts.*
- *Tool for city planners and designers worldwide to increase the use of active modes, by improving their AM network step-by-step.*
- *More healthy citizens, less congestion, more liveable cities worldwide.*



Amsterdam, ca. 1975

