

# POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

ANNUAL  
CONFERENCE

# 2022

30 November  
1 December, 2022  
Brussels, Belgium

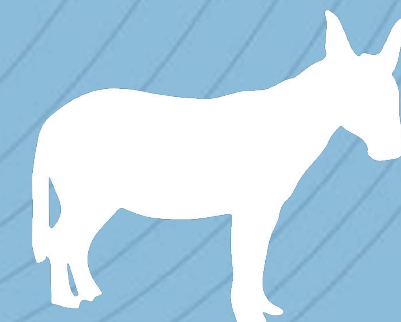


#POLIS2022

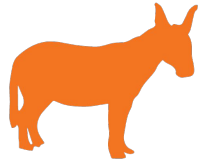
# How to implement the modal shift on a regional level?

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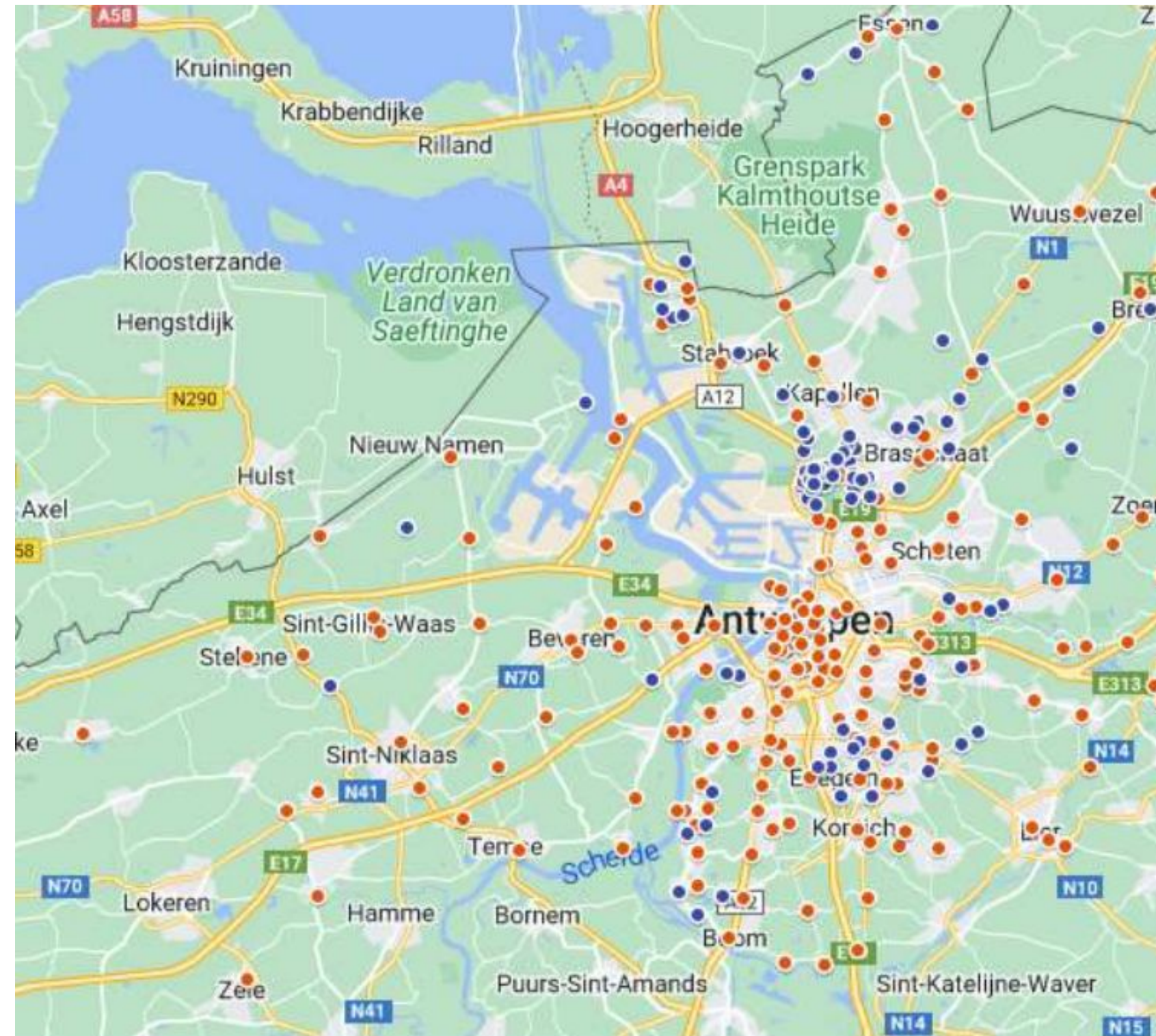


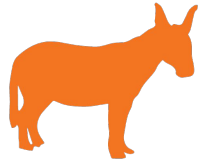
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# Regional system - Antwerp

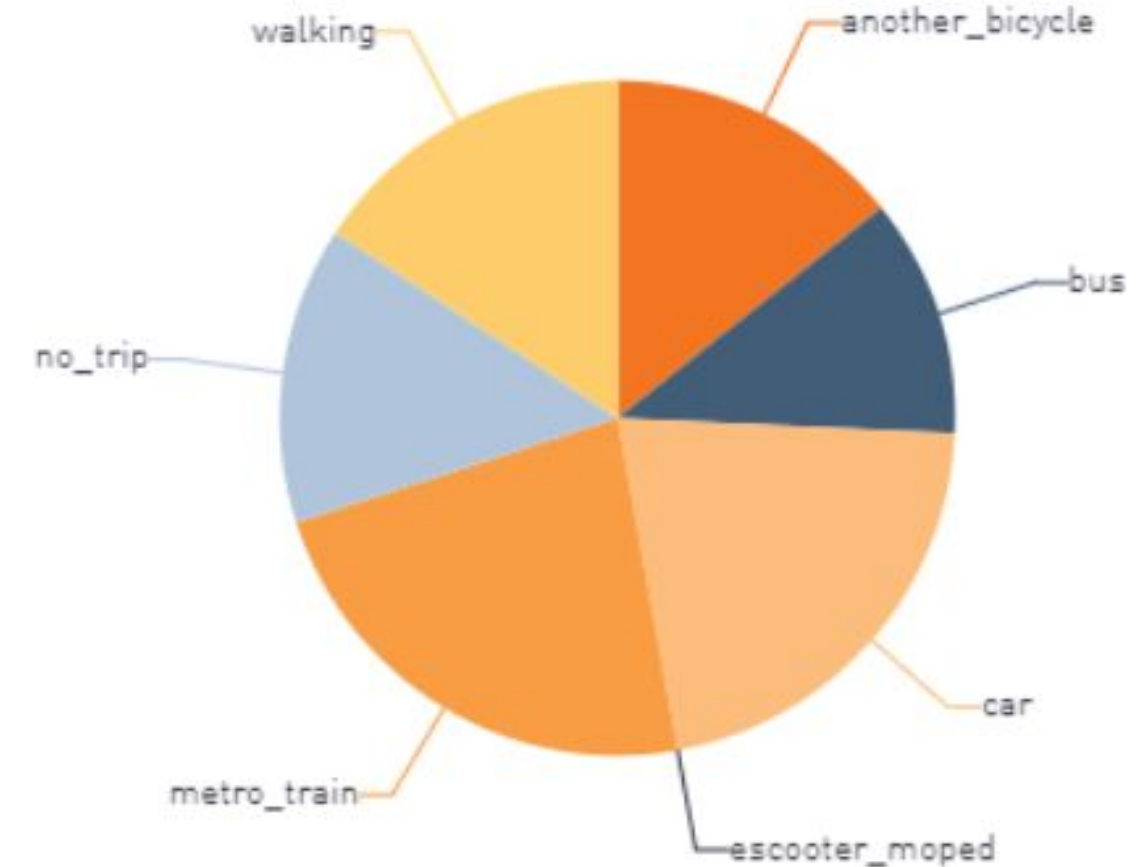
- 1650 e-bikes in the Antwerp and Waasland transport region
- 400 extra (e-)bikes through several partners
  - Municipalities, schools, businesses, etc.
- Operational area of 1640km<sup>2</sup>
- Furthest points are 62km apart
- More than 400 virtual hubs (geo-fencing)
- 10 year contract (5yr. extension possible)

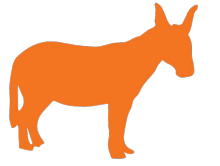




# Impact

- Focus on modal shift
- Connection with mobility hubs
  - P+R locations
  - Public transport (tram, bus, train)
- Replacing car trips with e-bikes
  - 17% in general
  - 25% during rush hour
  - Saving 40gr. of CO2 per kilometer on average
- Running operations with focus on sustainability





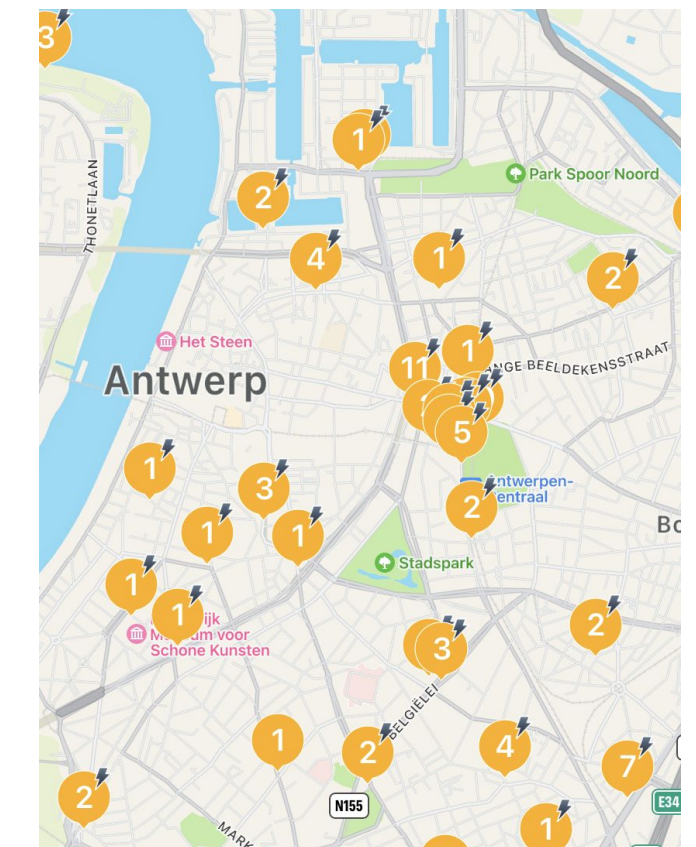
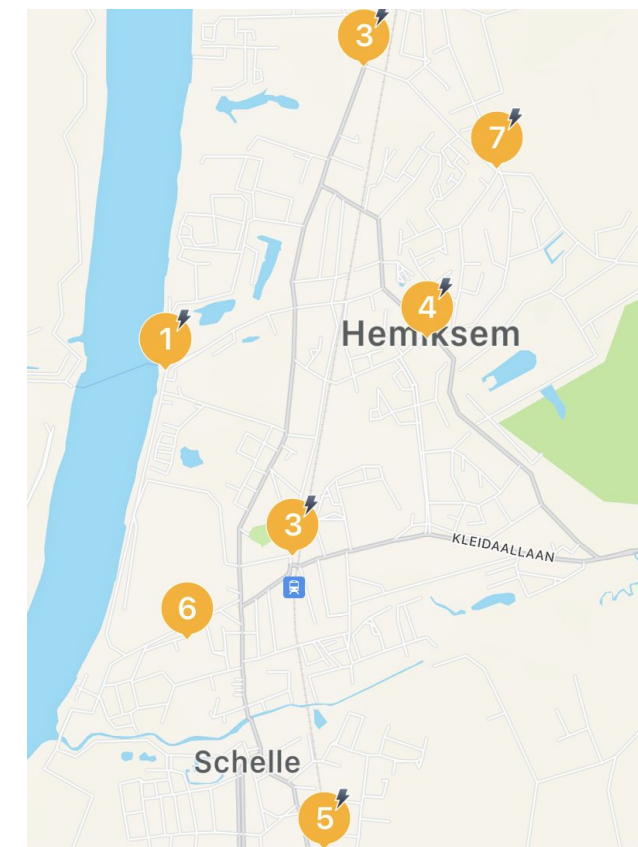
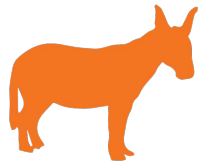
# (Great!) Tender design

- Long term operation
- Operator gets part of revenue
  - Increased trips should lead to increased revenue to carry costs
- Inclusion of areas around the city to increase audience
- Use of virtual hubs to increase flexibility
  - Future: 10% docking stations with charging at popular locations can further reduce total cost
- Long range e-bikes
  - 100km (8+ trips) per full battery
  - Comfortable for short and long term usage



# Area

- Connecting the urban areas with rural areas
- Urban
  - Dense network
  - High concentration of hubs (~150 m radius)
  - Less e-bikes per hub (3-5 bikes per hub)
  - Short trips
  - Mixed users (visitors, subscribers, commuters, and local)
- Rural area
  - 1-3 stations per town
    - Mostly linked to train station/mobility hubs in town
  - More e-bikes per hub (12-24 bikes per hub)
  - Less concentration of hubs in area (~5km radius)
  - Longer trips
  - Mostly local usage

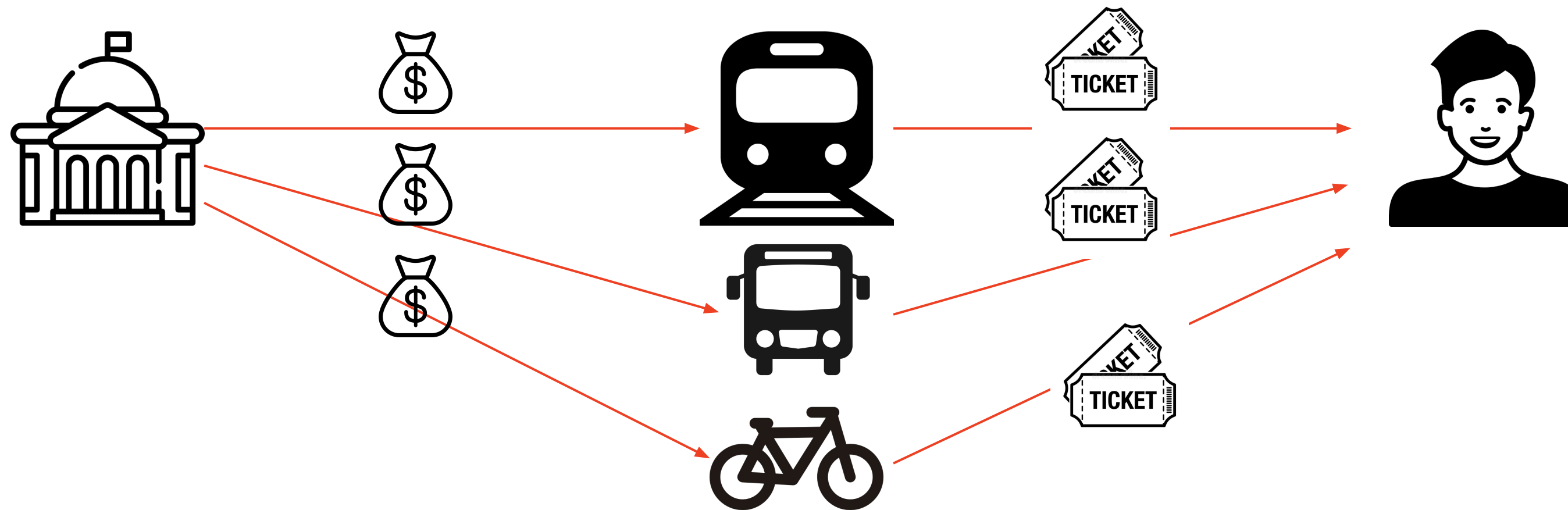


Donkey availability, same scale maps, rural vs urban areas



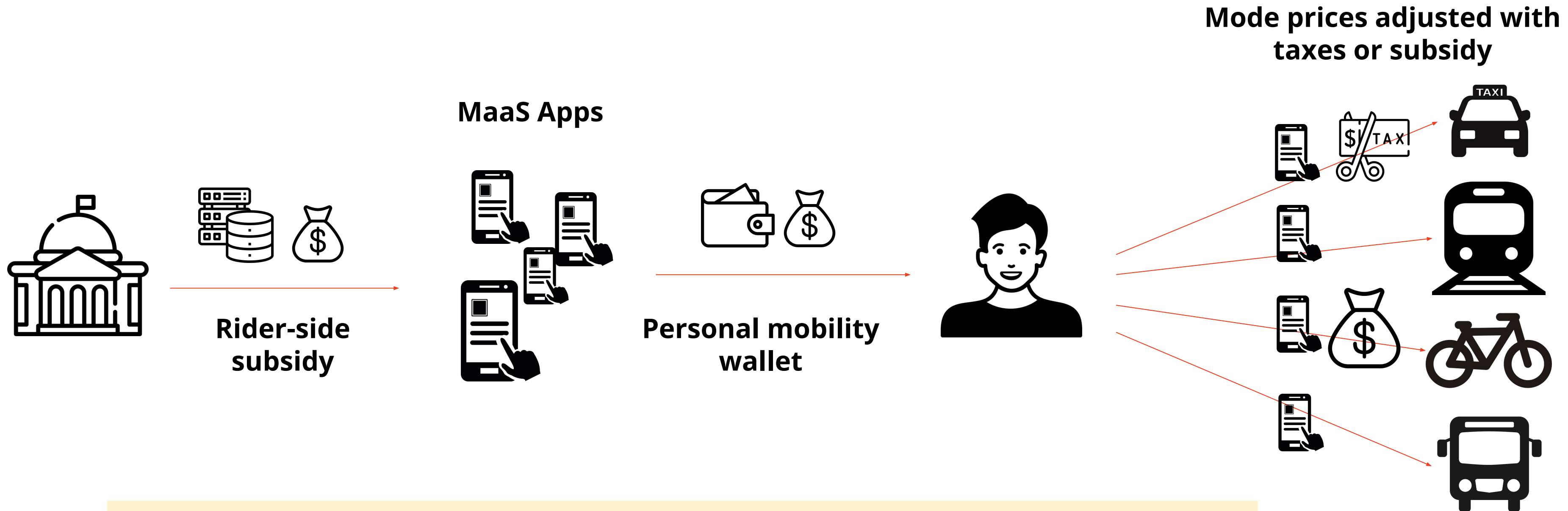
# Fully-integrated future and modal shift (1/2)

Current public funding and user experience in terms of access to transport



# Fully-integrated future and modal shift (2/2)

## Possible future public funding and user experience



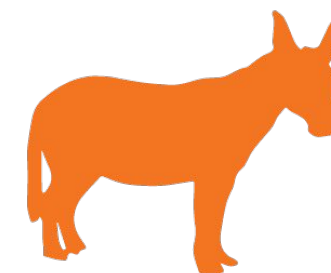
Expect **3x - 10x multi-modal riders** once public transport and new mobility options are seamlessly integrated



# Thank you for your attention!

For questions:

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