

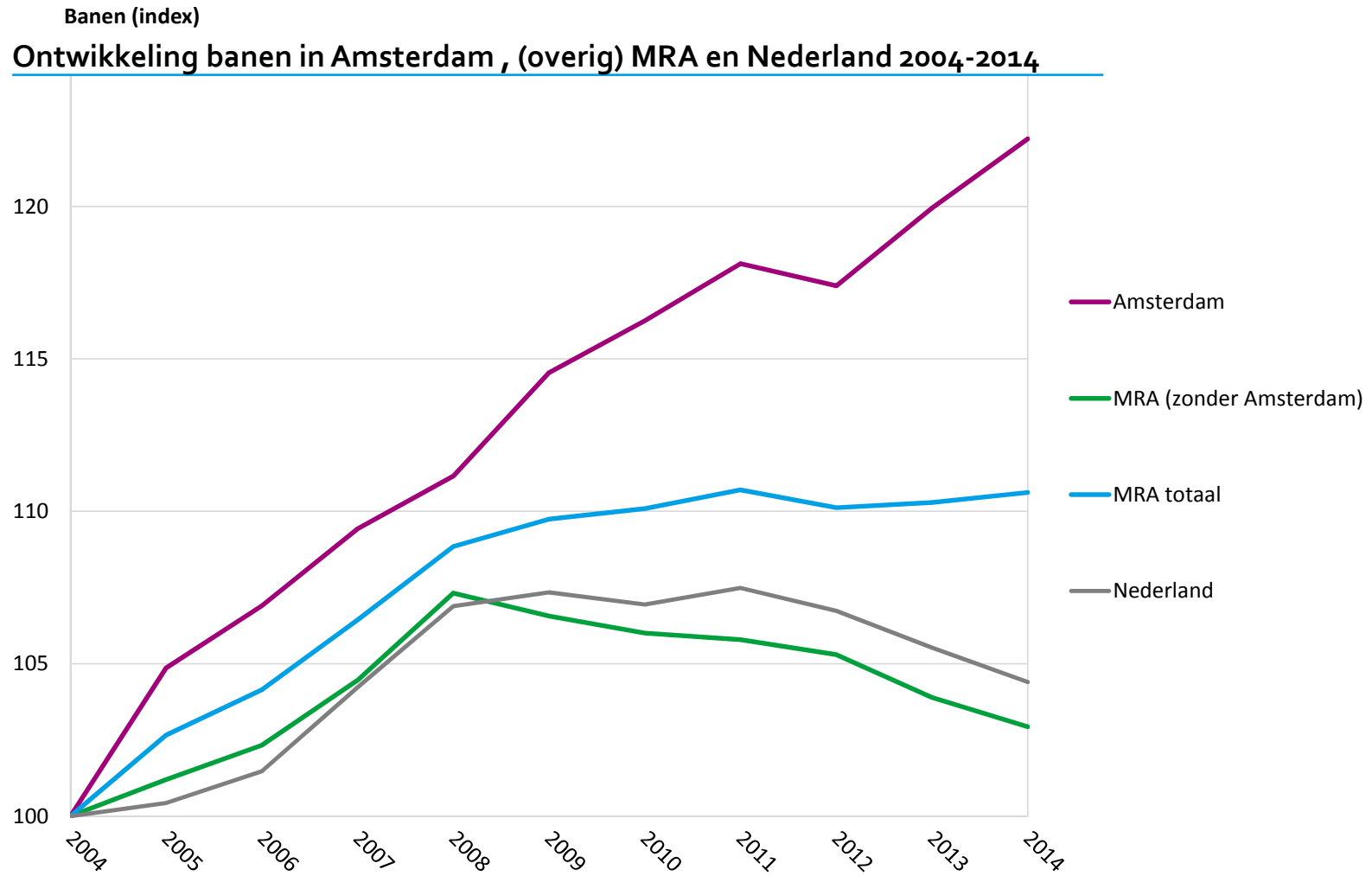


Gemeente
Amsterdam

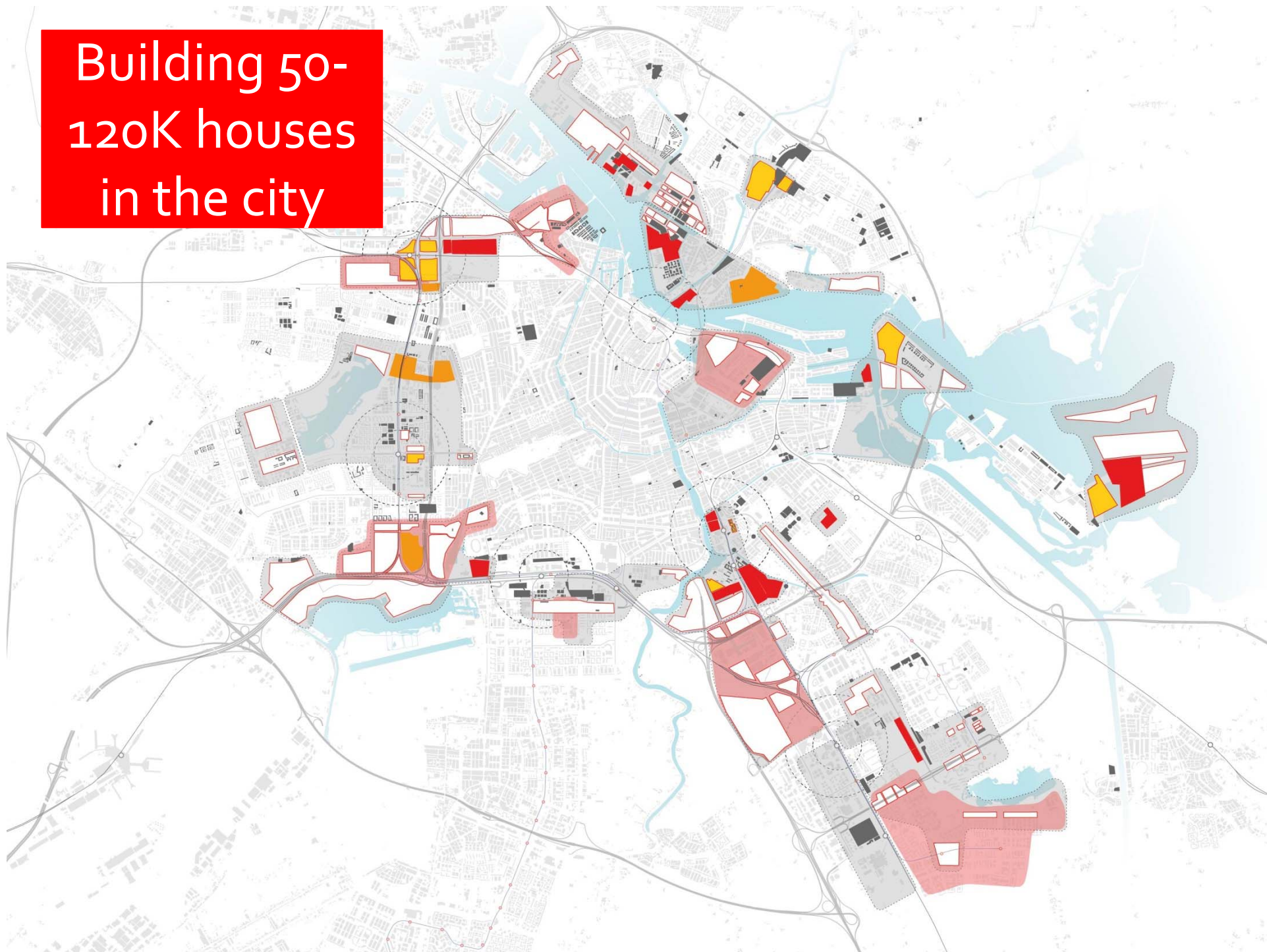
Embracing growth while limiting adverse mobility effects

Rick Batelaan
Traffic and Public Space

Amsterdam is the economic engine

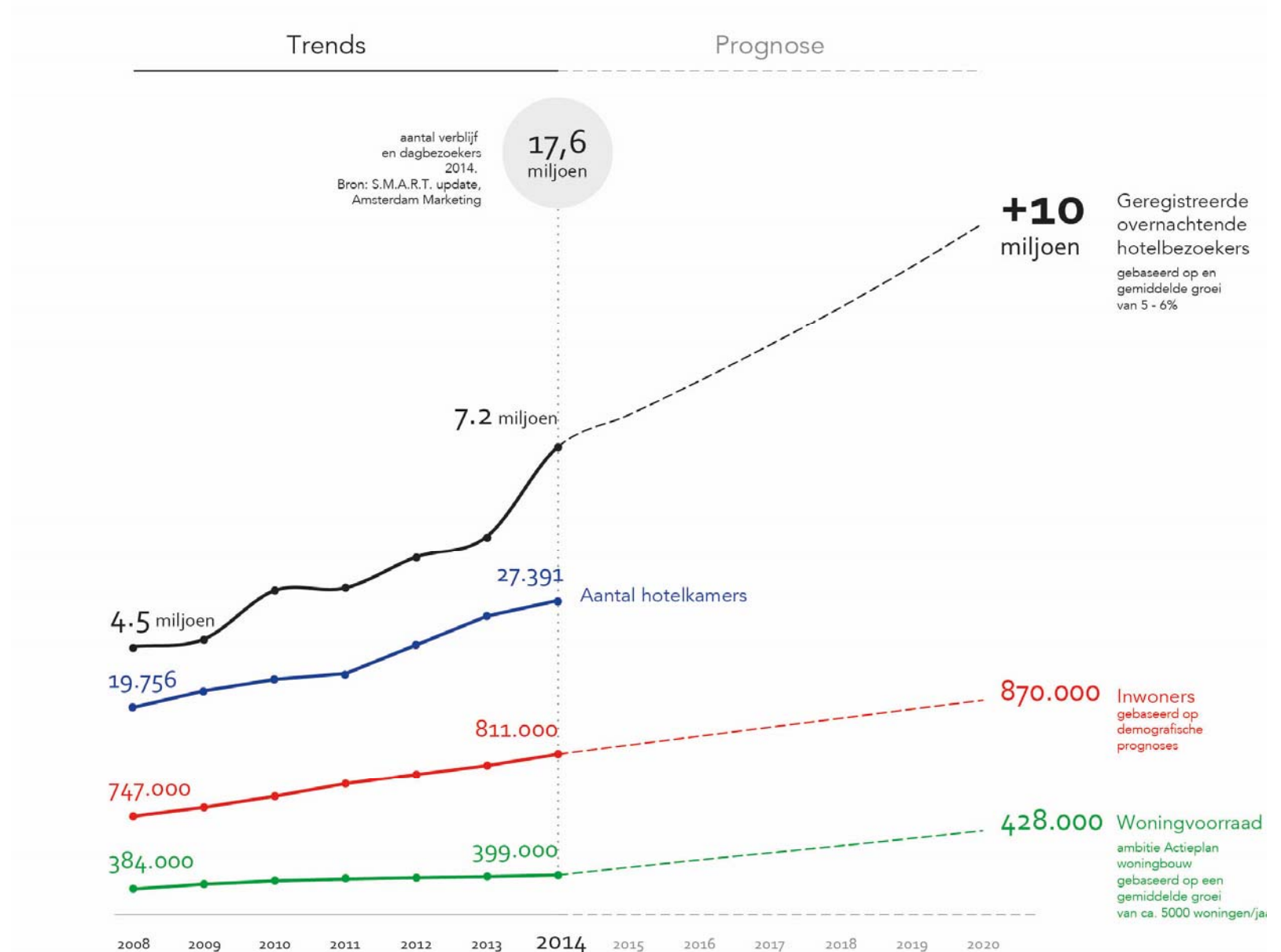


Building 50-
120K houses
in the city





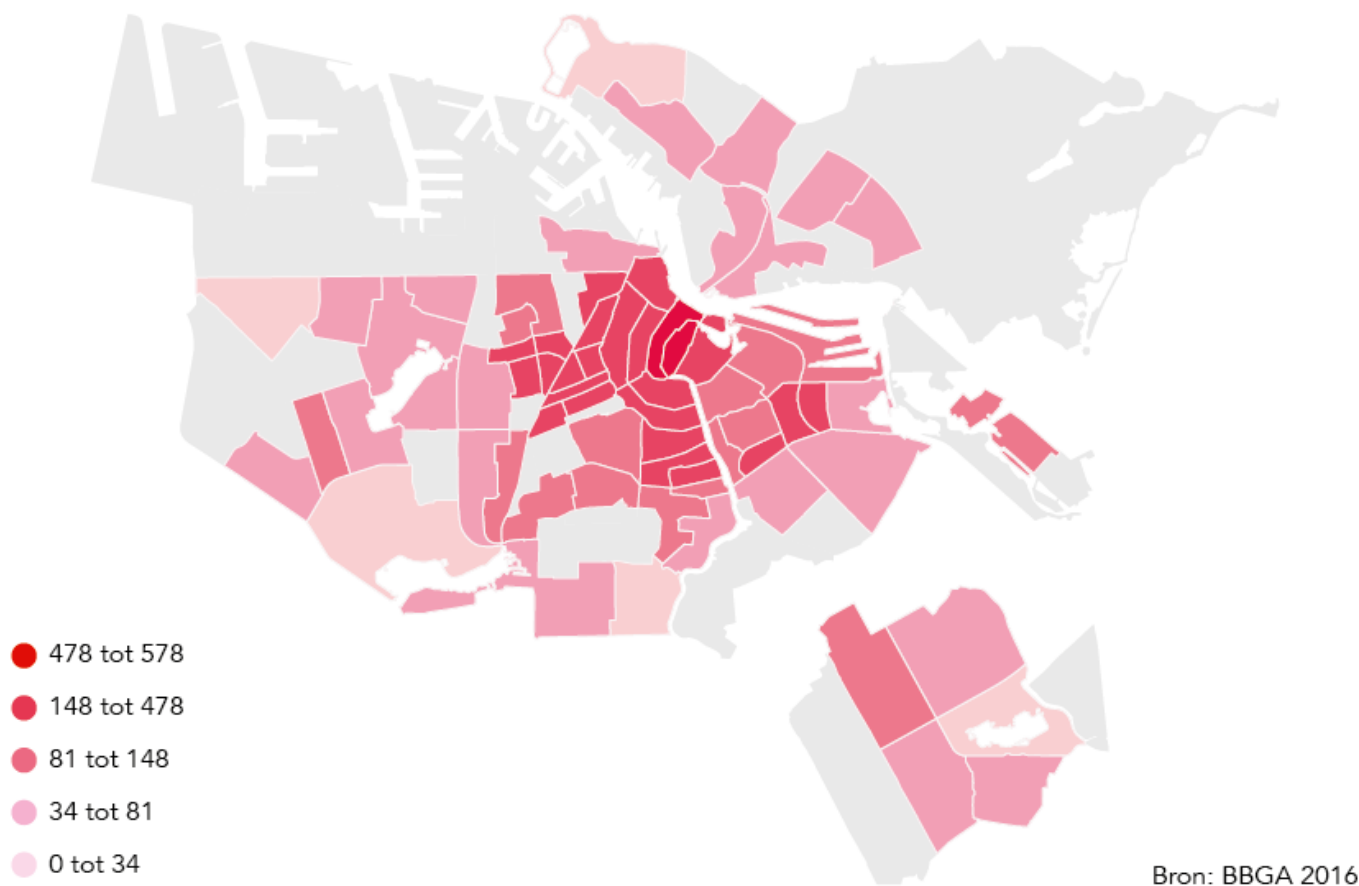
Trends in tourism and population





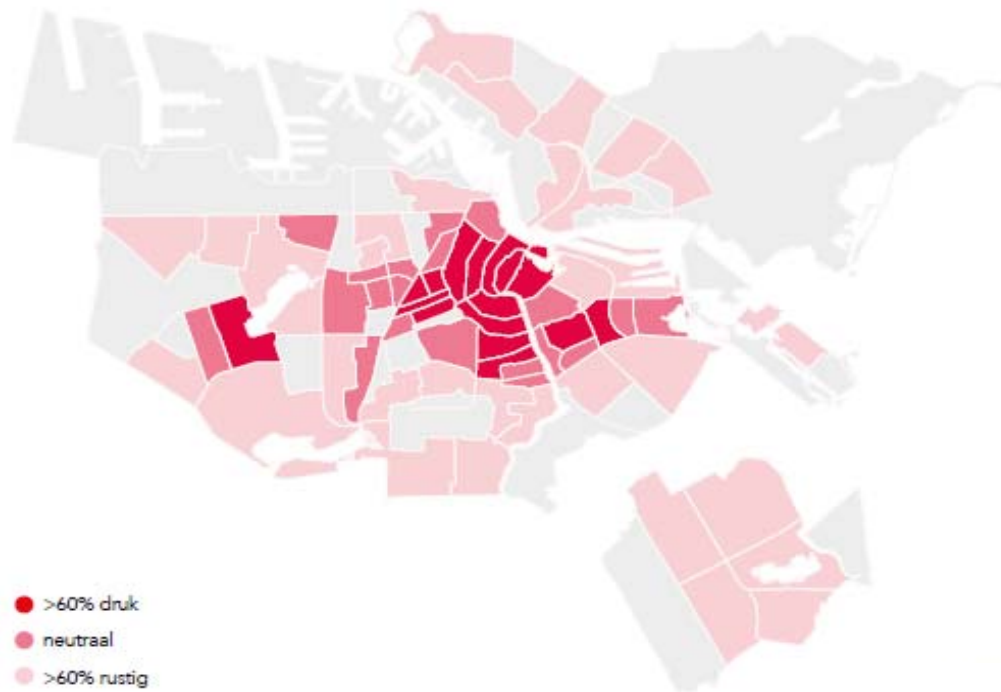
Where are the crowds in public space?

Objectief Verblijvers Dichtheid Index



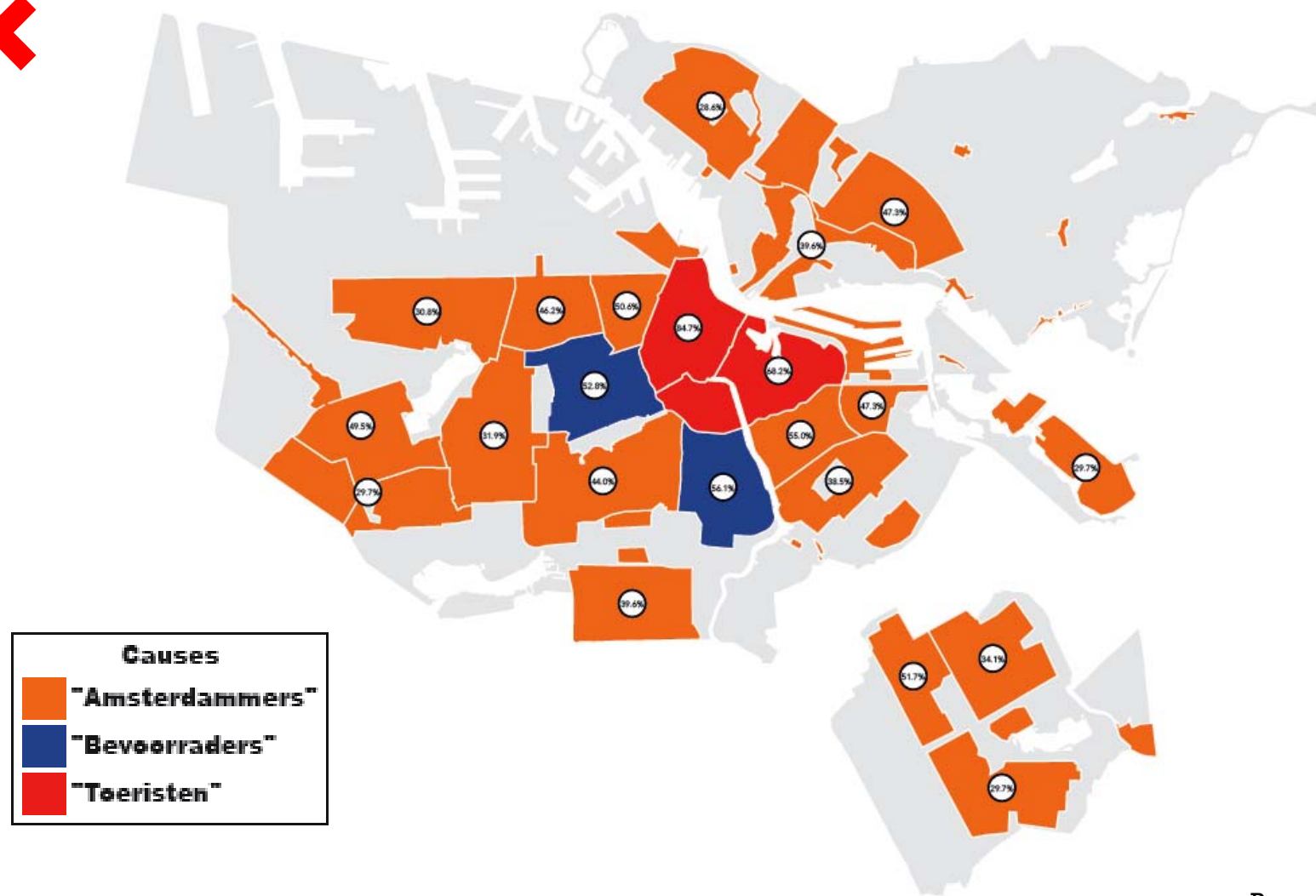
Residents in Centrum and South experience more crowds

Experienced crowding by residents per neighbourhood in 2016





What crowding nuisance do residents experience?



Bron: OIS, 2016



City growth and traffic effects

Two cases

Pedestrians



Taxi





Crowdmanagement Experiment

SAIL 2015





Experiment Dashboard Crowd Management



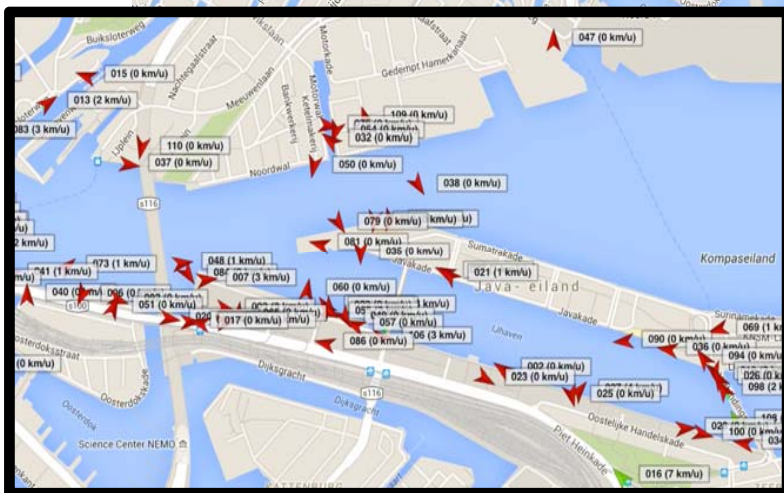
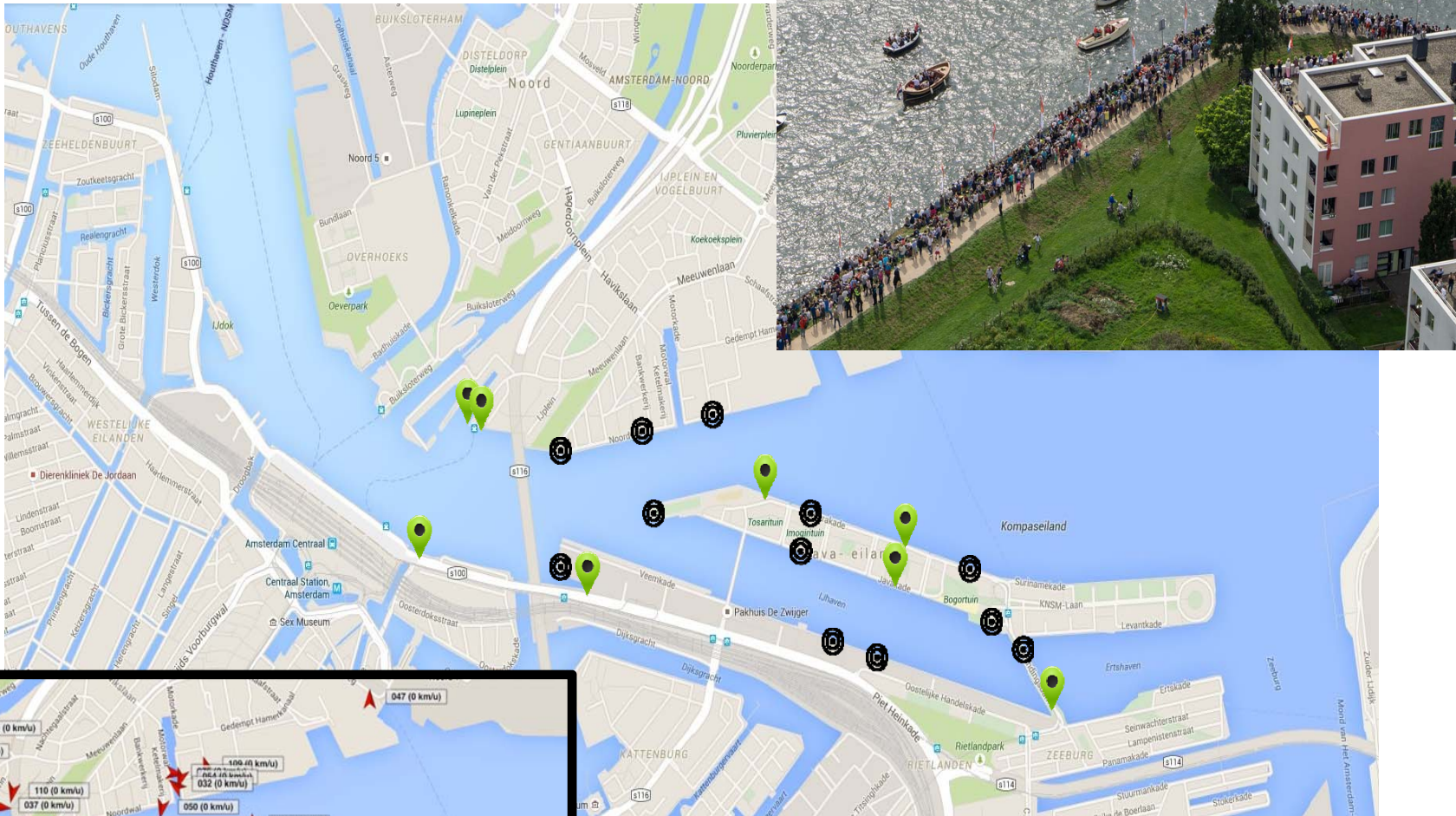
New techniques

- Real Time Presentation on Topographic Map
- **Cooperation City**, TU Delft, DAT.Mobility

Goals

- Indicators, Confirmators, Predictors
- Decision Support for Crowd Management

Smart Cameras, WiFi



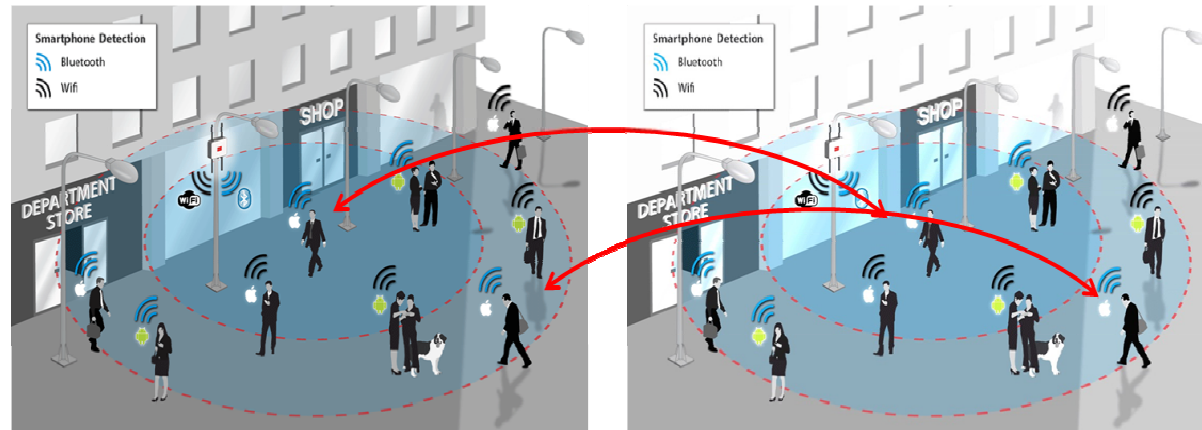
Telcamera + WiFi

GPS Trackers

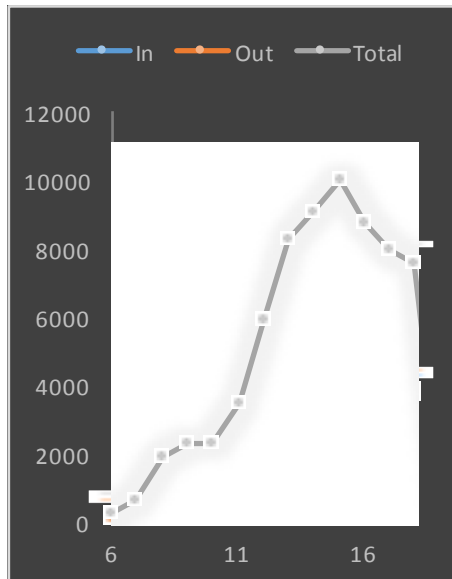


■ Wifi Sensors

DATA collection

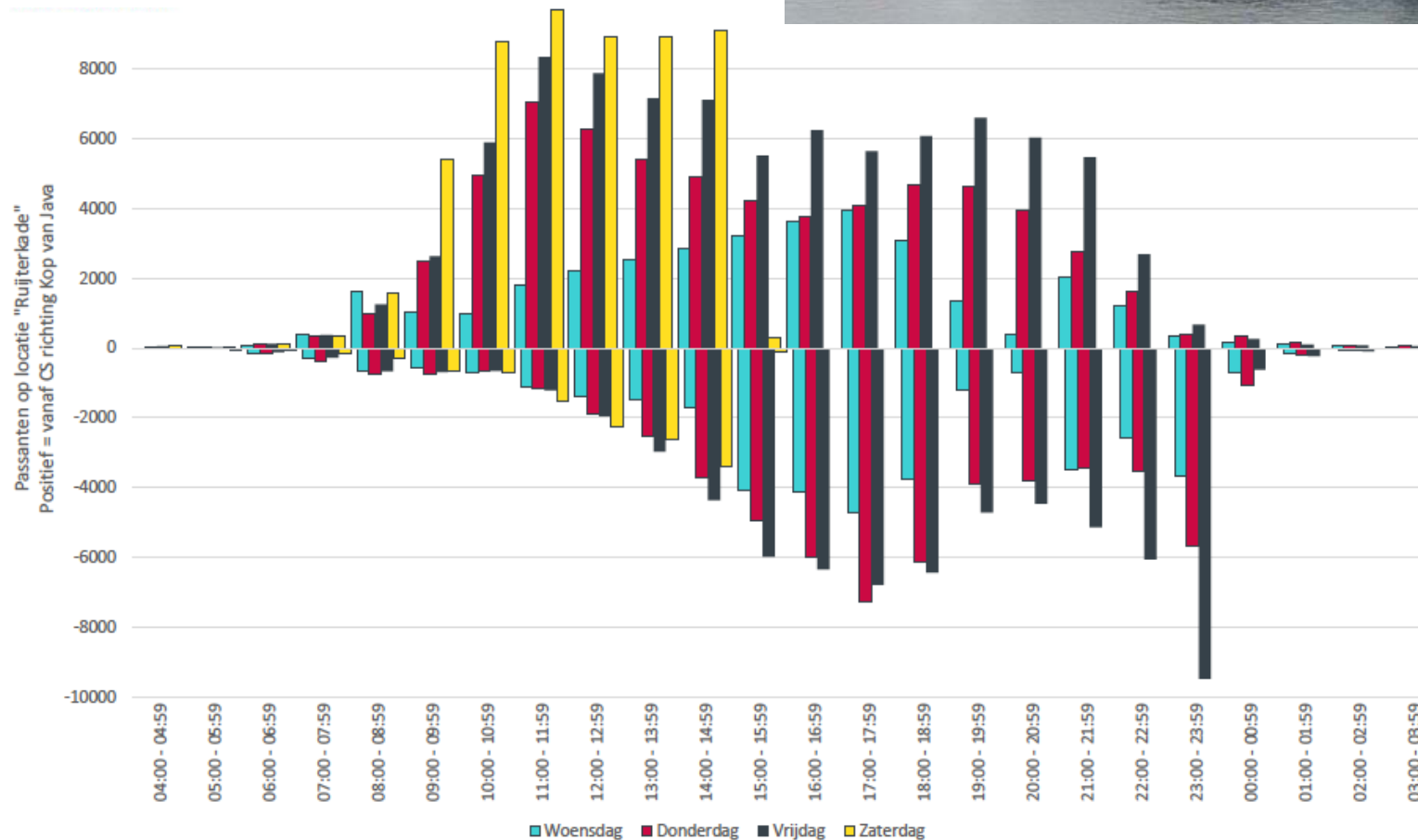


■ Smart Cameras



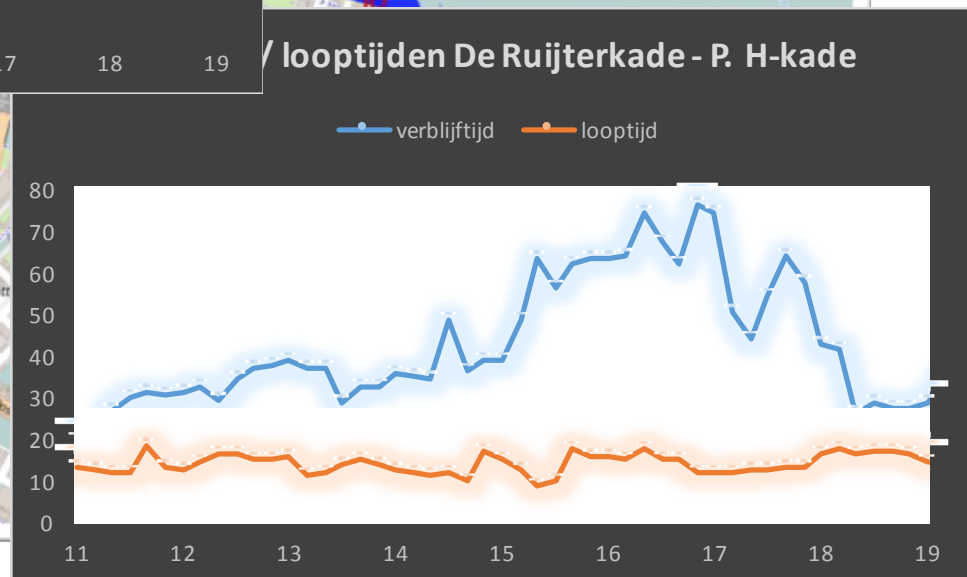
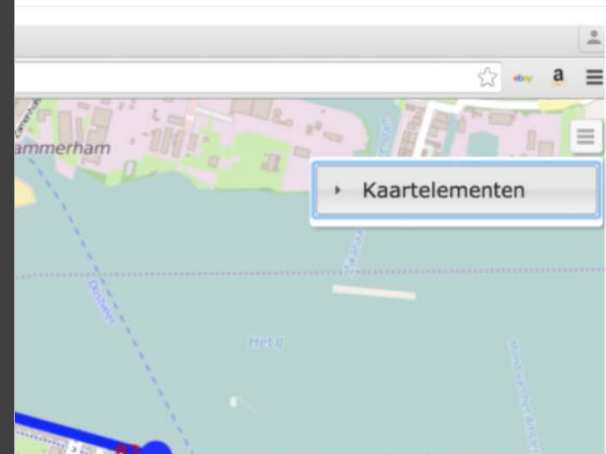
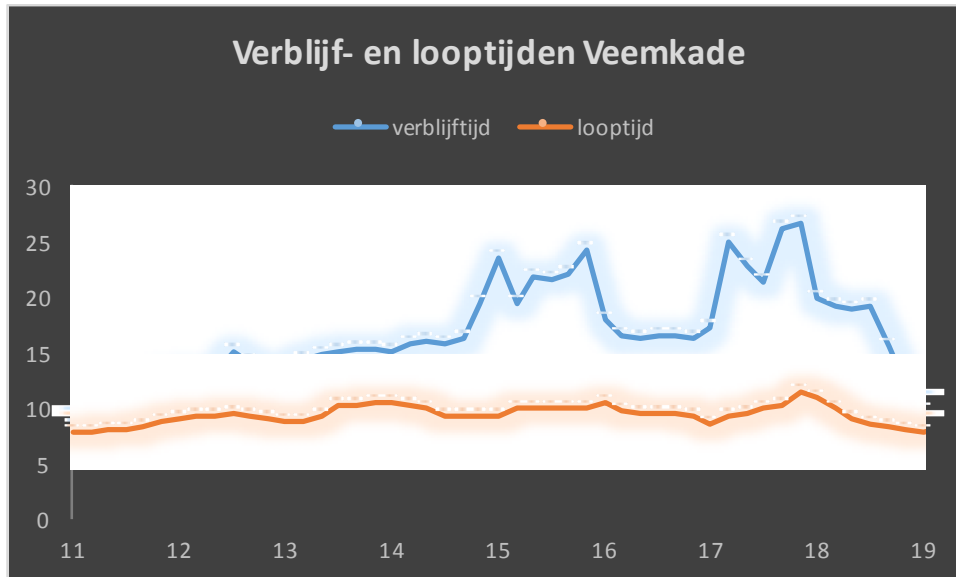


Comparing days, supporting crowdmanagement

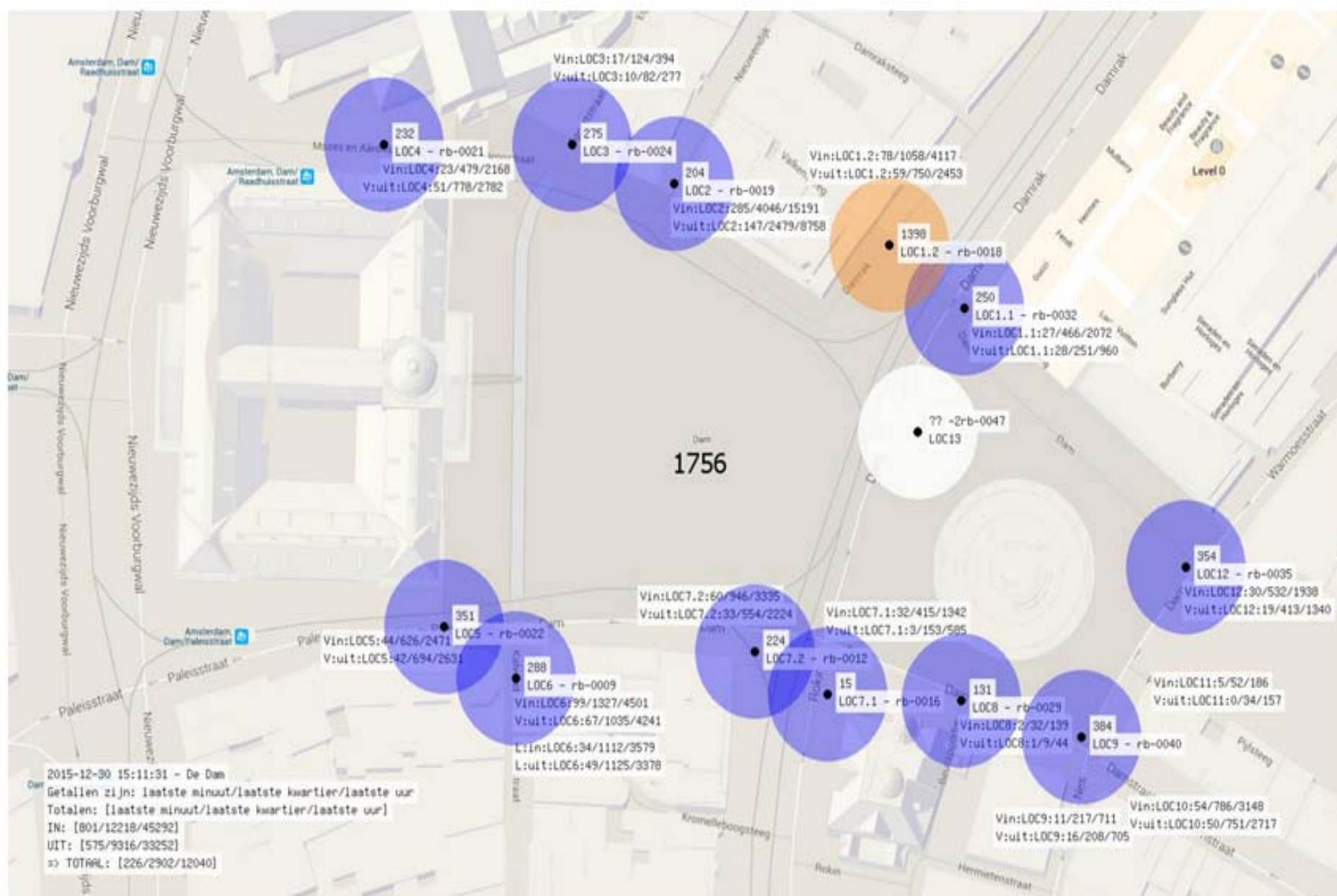




walking speed and presence time



Publiekstelling Amsterdam / De Dam





Follow up: Dynamic Crowd Monitoring

Measures:

- Permanent monitoring - cameras wifi - hot spots
- Crowdmanagement strategies

Next:

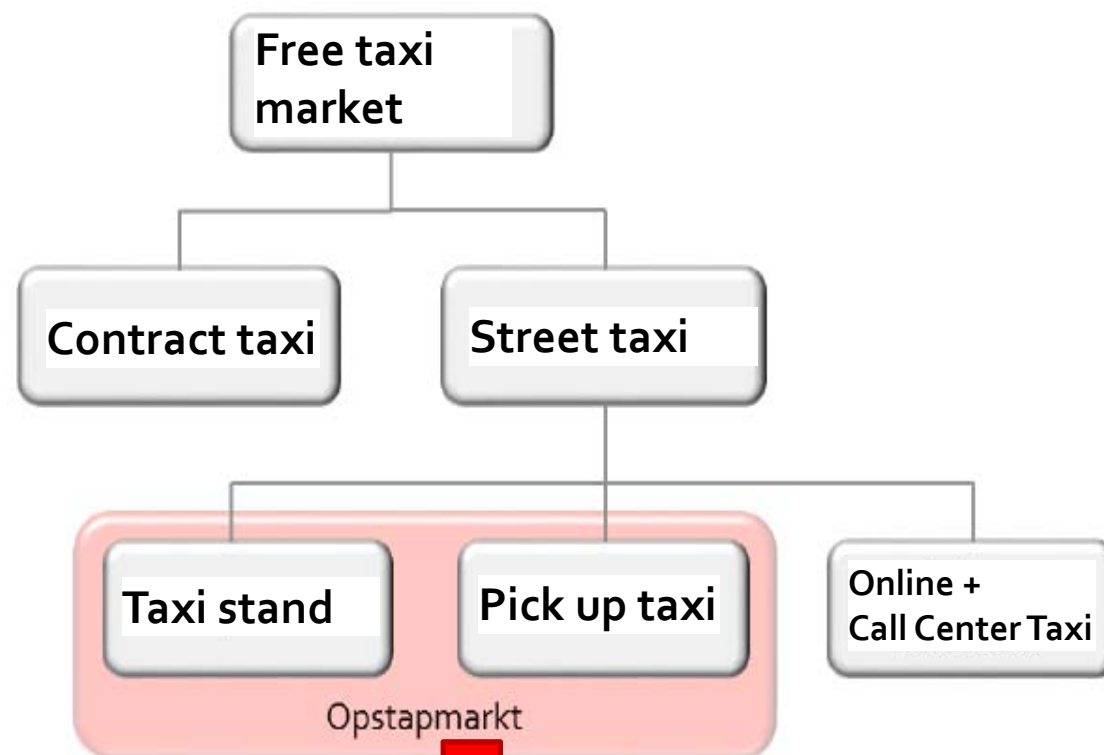
- Developing Crowd Monitoring System
- Experiment in Red Light district
- Pilot in Kalverstraat shopping area

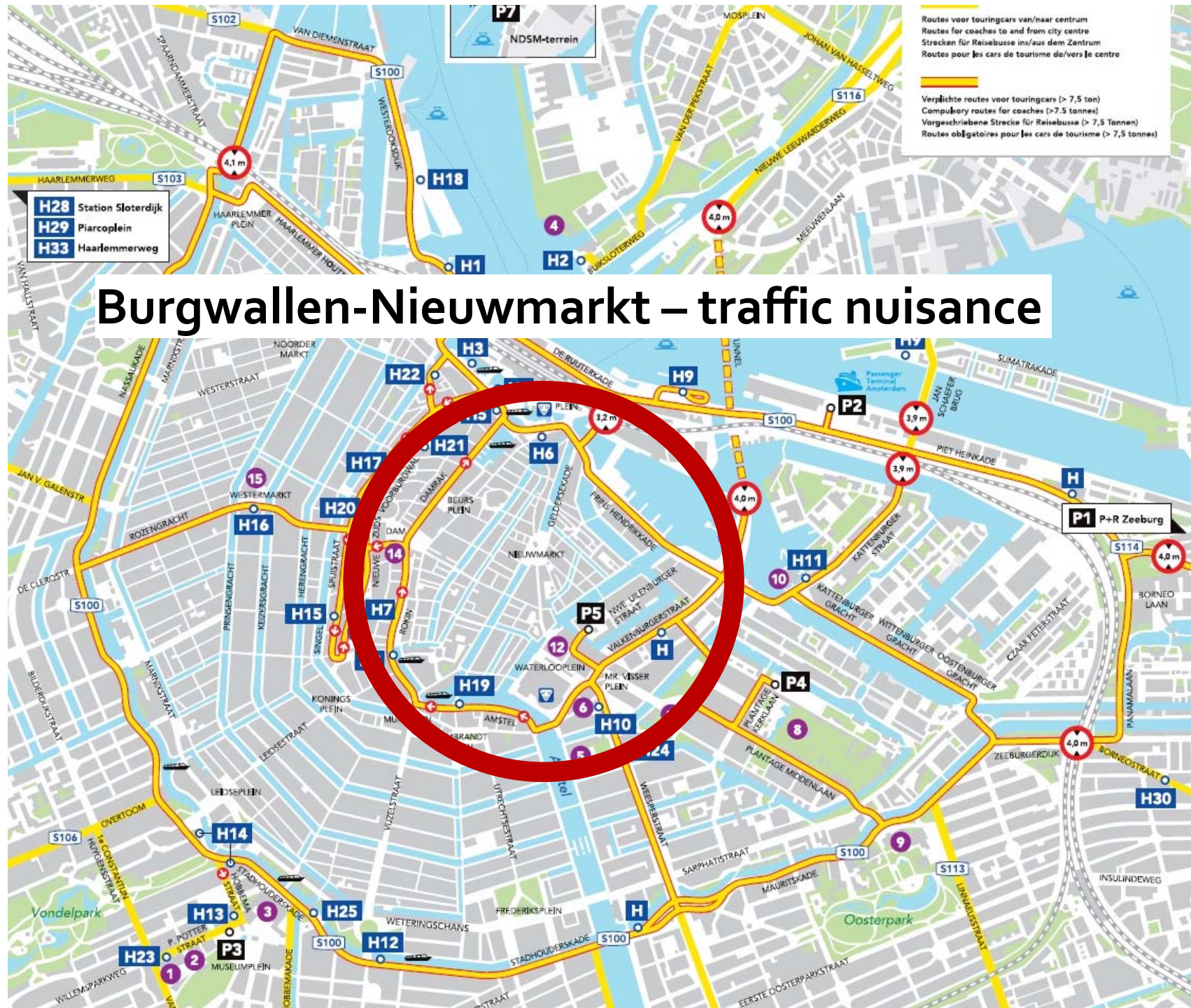


The Dutch Taximarket



9 Amsterdamse Toegelaten Taxi Organisaties (TTO's)

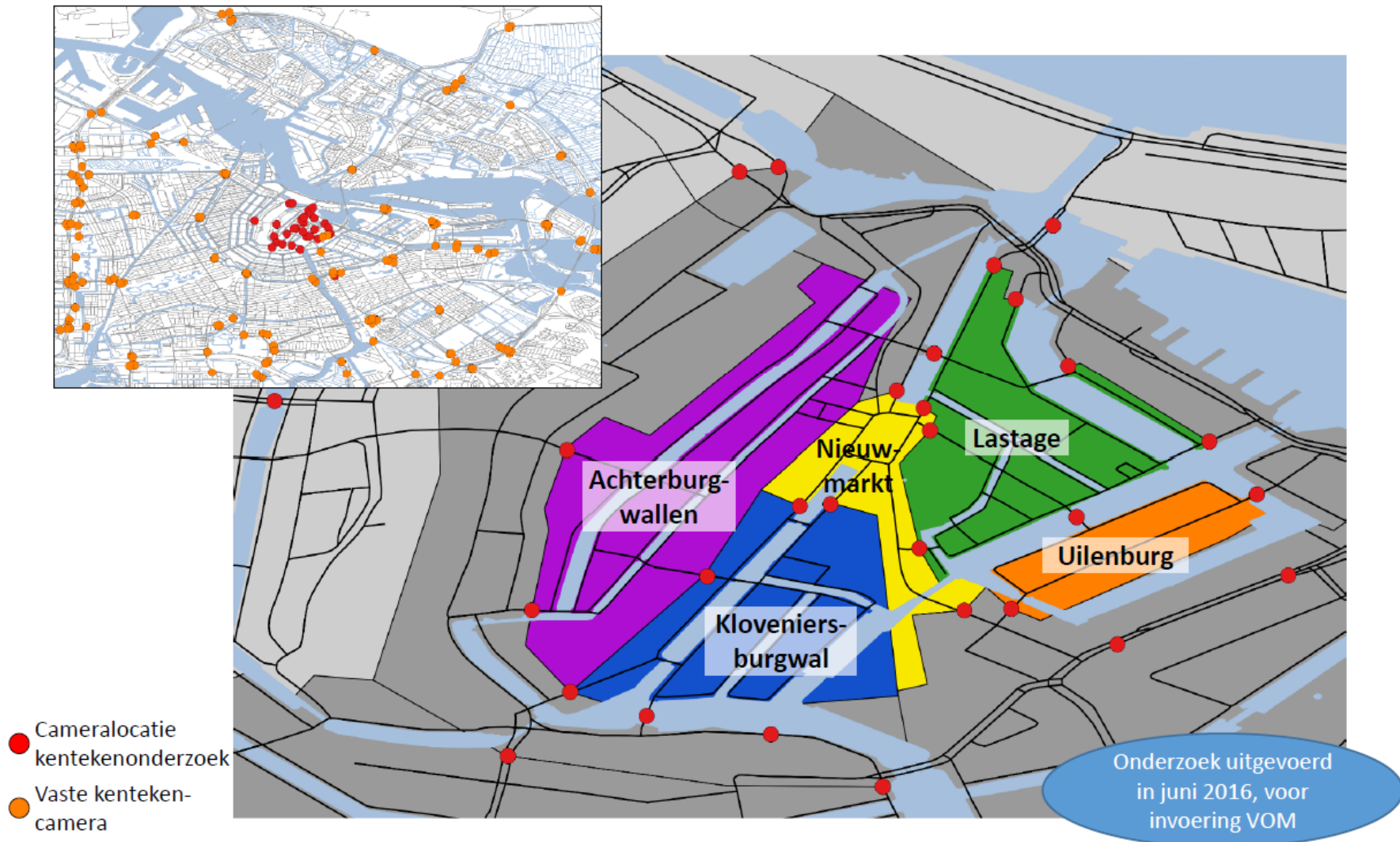




Burgwallen-Nieuwmarkt – traffic nuisance

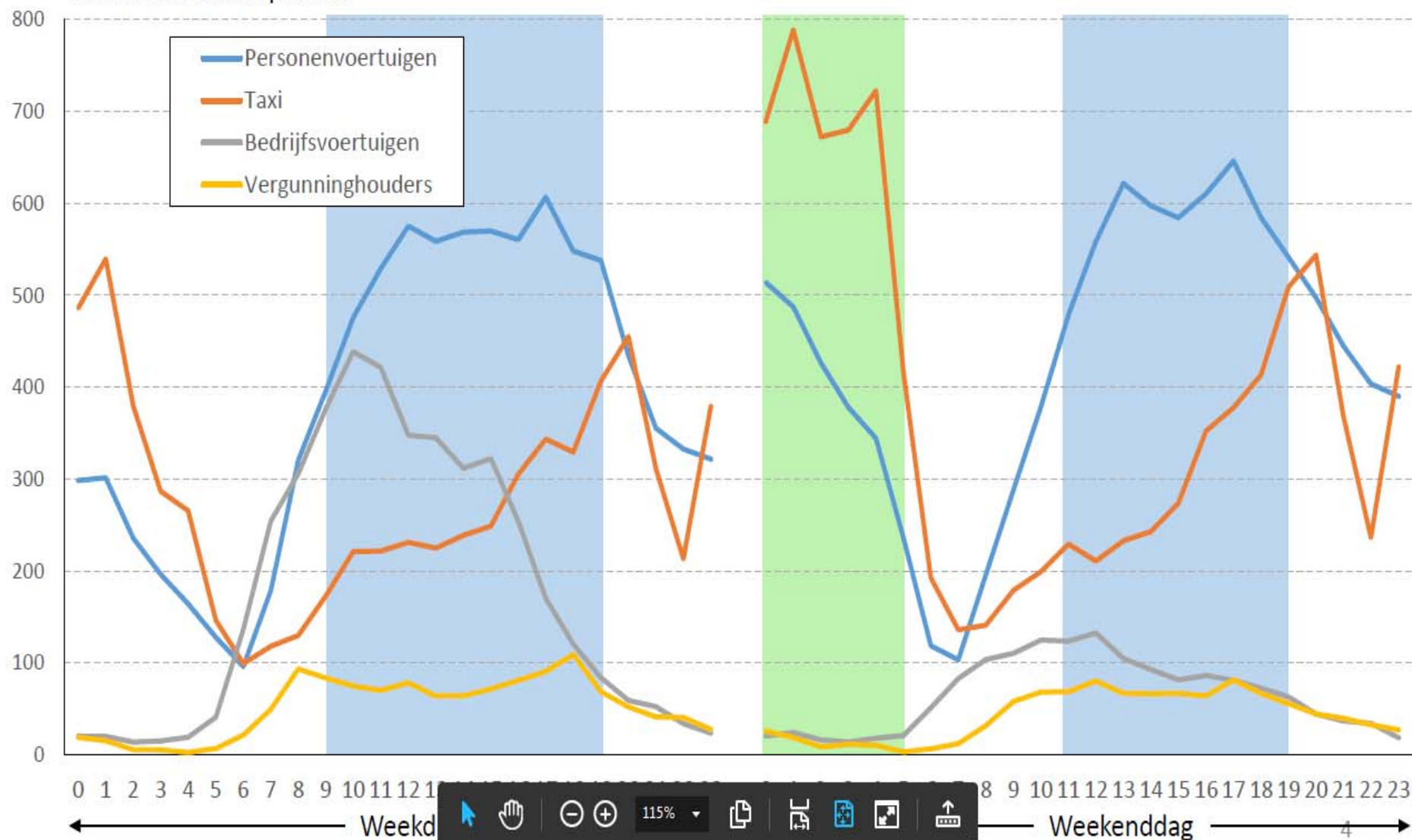
24/7 Licenseplate monitoring

Camera's zo geplaatst dat in- en uitrijdend verkeer van vijf deelgebieden in de Oudezijde nagenoeg volledig wordt gemonitord



's-nachts en 's-avonds vooral verkeer van taxi's en personenauto's; doordeweeks overdag ook veel bedrijfsvoertuigen

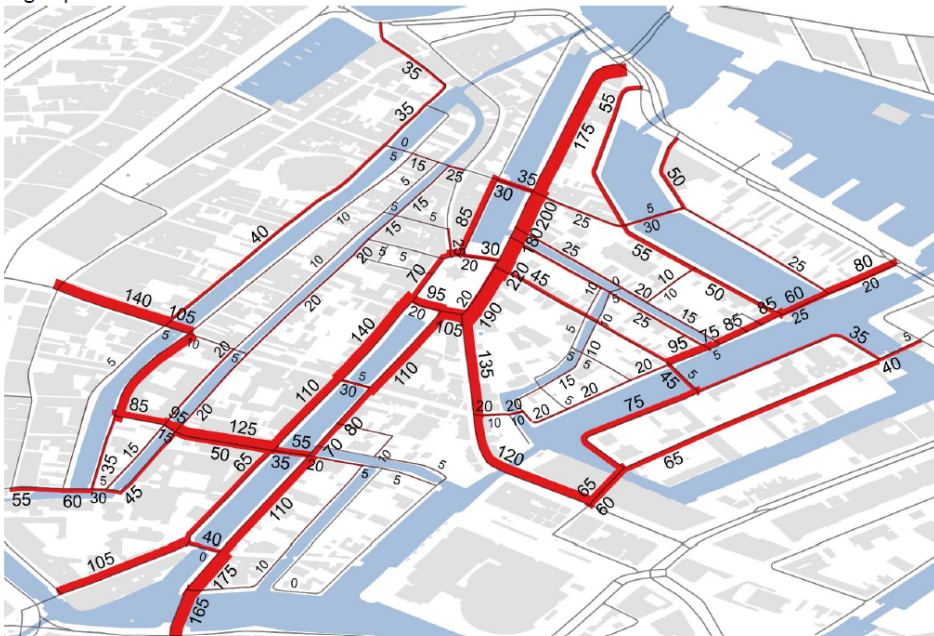
Intensiteit in- en uitrijdingen per voertuigtype
Gemiddeld aantal per uur



Car traffic Burgwallen – Nieuwmarkt

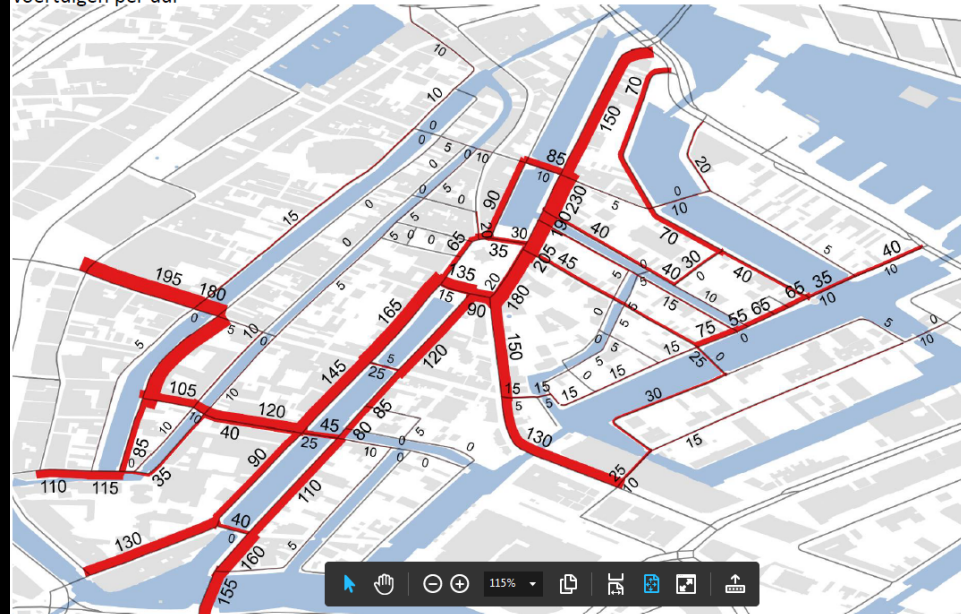
Day time

Verkeersintensiteit Oudezijde overdag
voertuigen per uur



Weekend night

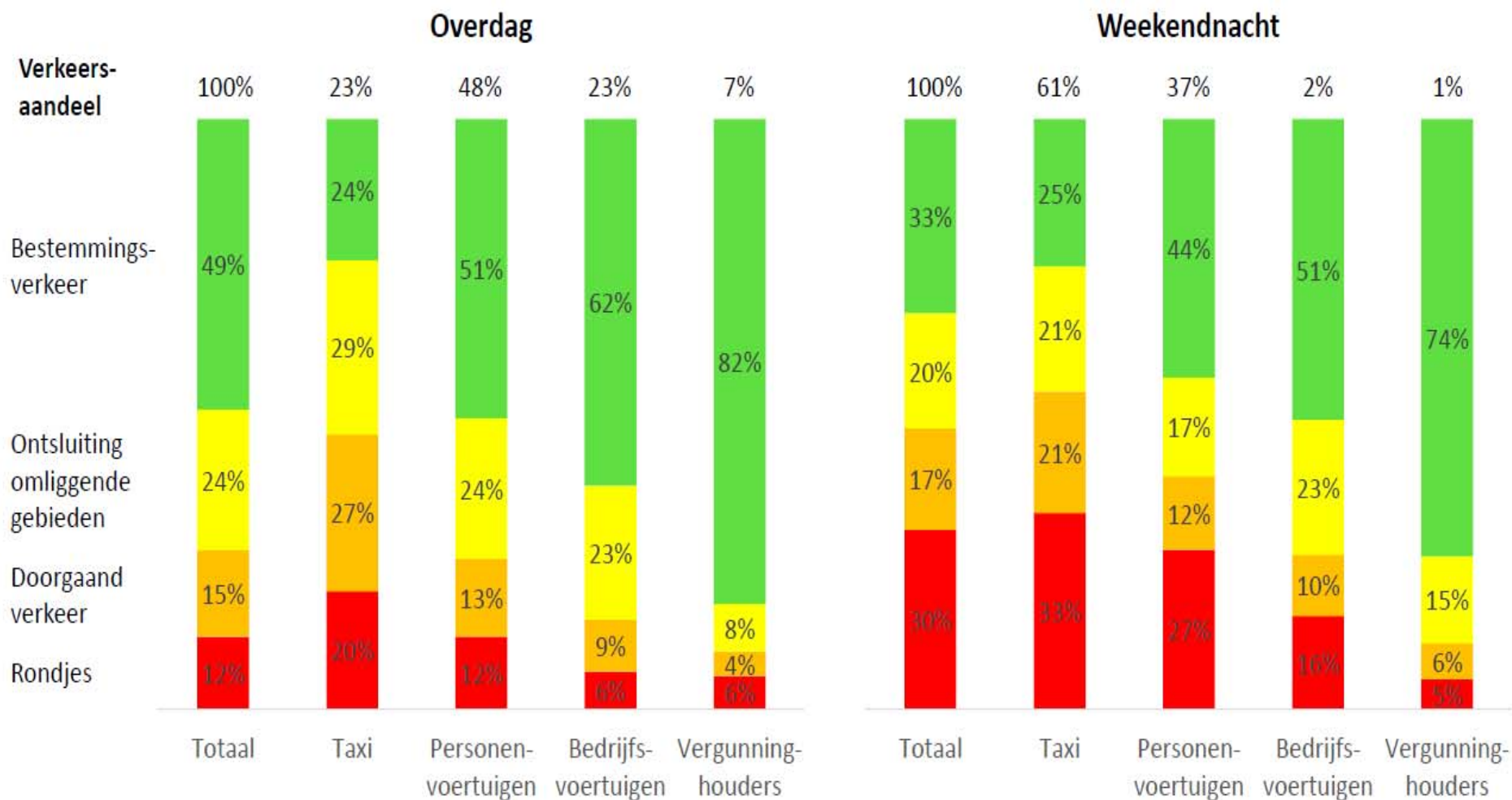
Verkeersintensiteit Oudezijde weekendnacht
voertuigen per uur



Dit betreft veel niet-bestemmingsverkeer: 's-nachts veel rondjes, overdag vooral doorgaand verkeer

Aandeel en samenstelling niet-bestemmingsverkeer per voertuigcategorie en dagdeel

%in- en uitrijdingen Oudezijde



Proposed traffic (taxi) measures weekend nights

