



SMART STATIONS IN SMART CITIES

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Amsterdam Central Station – transformation challenges of the 21th century mobility hub

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4b Smart Facility Management

UNDER THE HIGH PATRONAGE OF

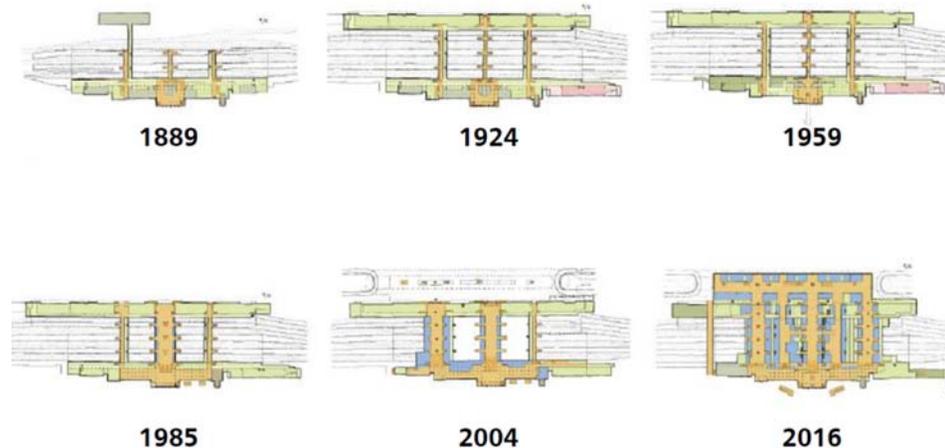


ORGANISERS

- ❖ Amsterdam Station Island
- ❖ Multifunctional Terminal Building
- ❖ Shared Mobility and Space
- ❖ Research challenges

THE STATION ISLAND

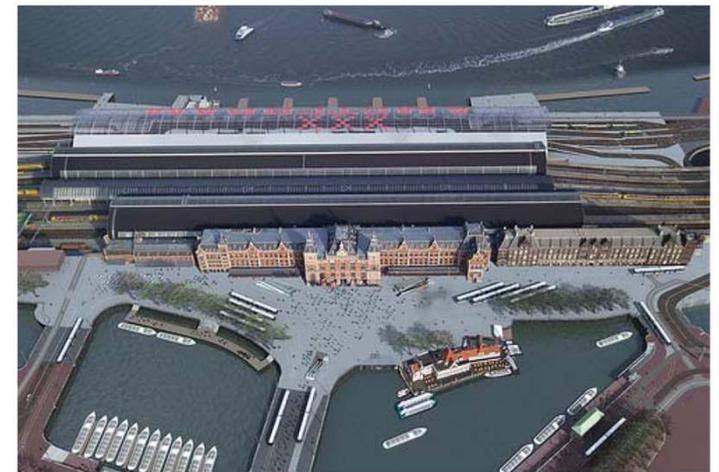
- Until 1985 the transformations of the station island took place mainly within the structure of the station building designed by Pierre Cuyper (1881-1989). The recent developments can be divided in:
 - 1985-2004, the planning phase of the Masterplan by Bentheim Crouwel & City
 - 2004-2017, its implementation and further elaboration.



MULTIFUNCTIONAL TERMINAL BUILDING



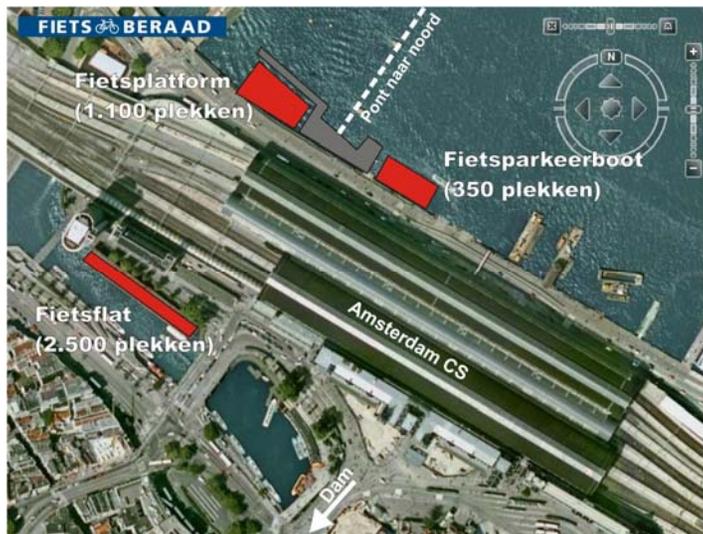
© Benthem Crouwel Architects



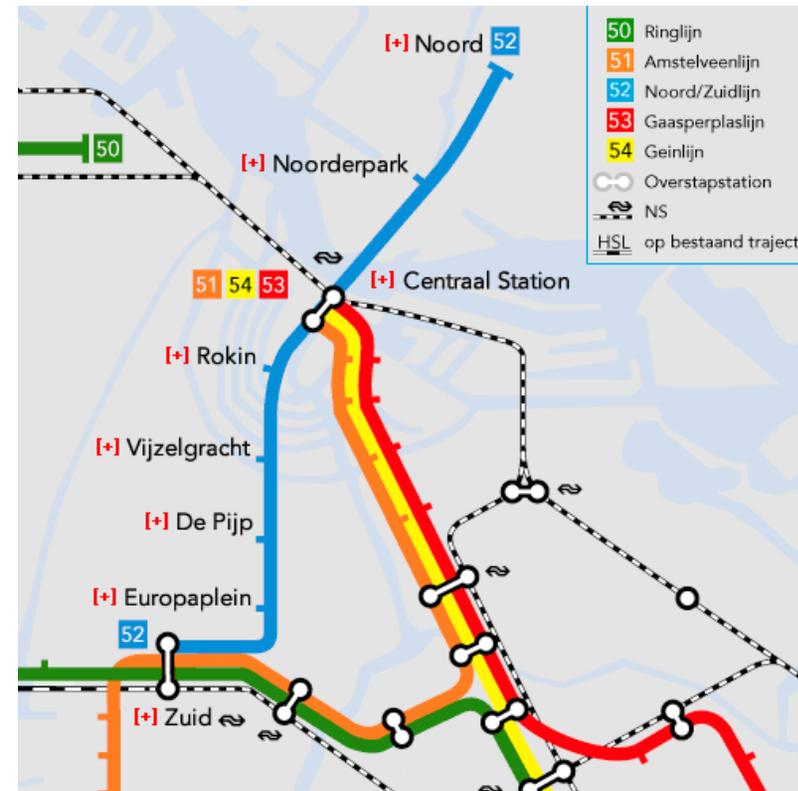
© TAK architects. *Waardestelling Station Amsterdam Centraal* In De Collectie (2008). [Spoorbeeld](#)

MULTIFUNCTIONAL TERMINAL BUILDING

- While the flux of users continues to grow, the amount of public space stays the same. This is the cause of increasing pressure on pedestrians, cyclists and drivers, bringing along the negative effects of overcrowding.

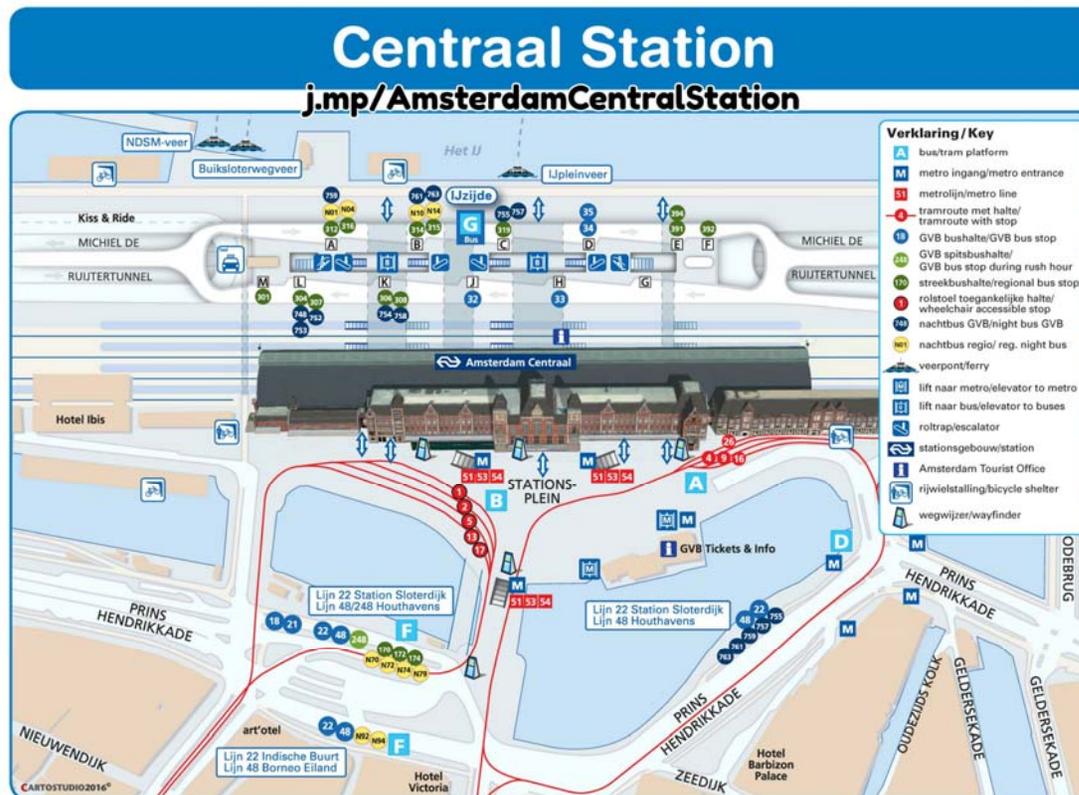


Bike Parking © <http://www.fietsberaad.nl>

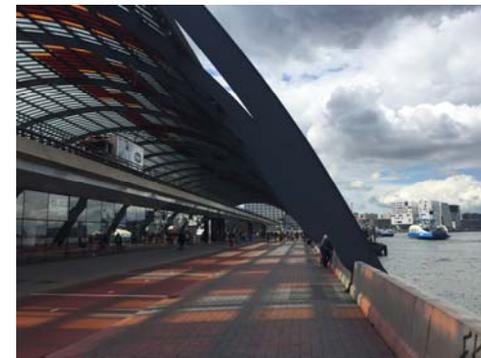


North-South Metroline © City of Amsterdam

- Integration of the station with the urban surroundings
- Programming and accessibility
- Use of public spaces and social dynamics

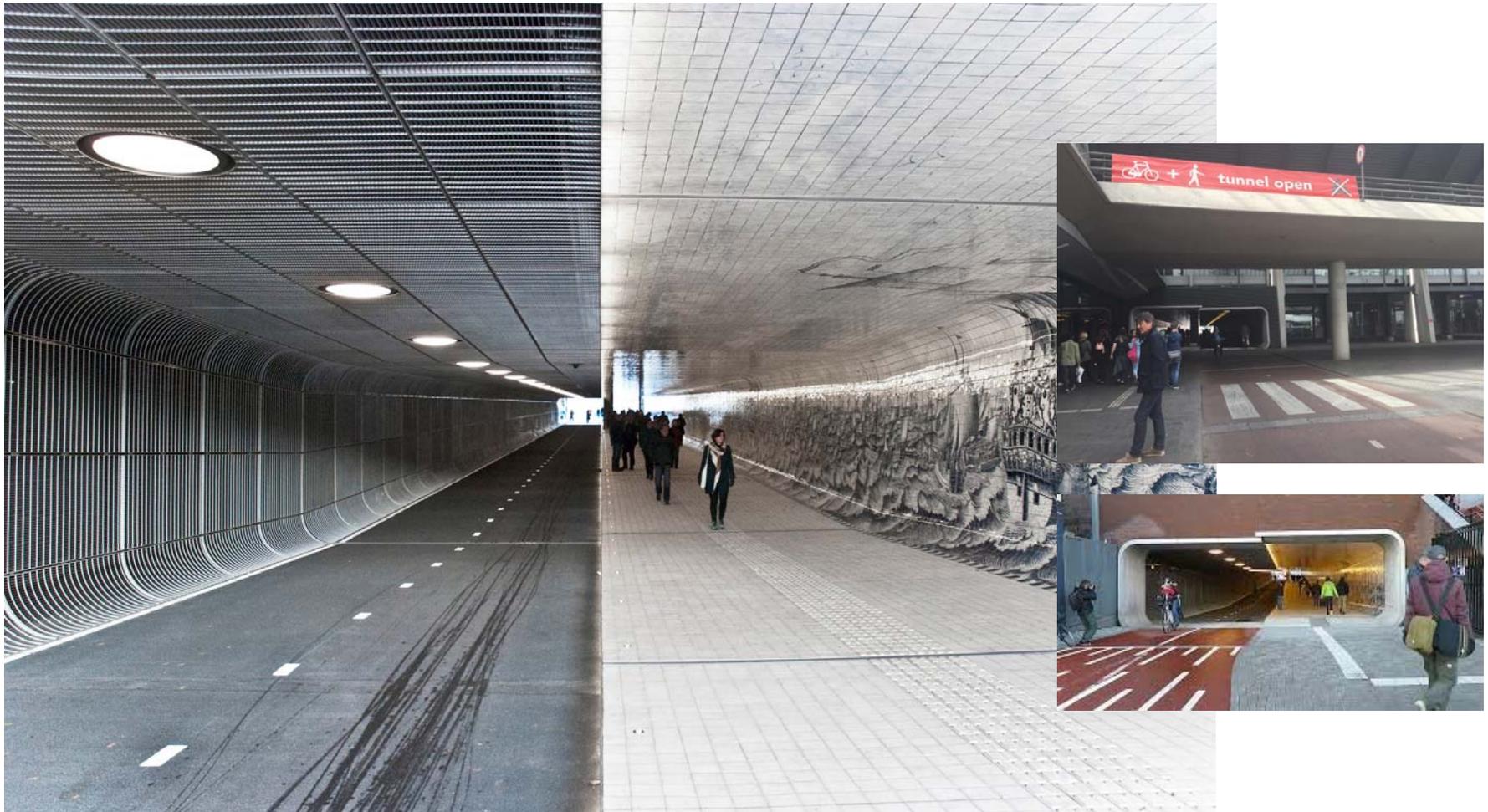


© map Tourist information



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SHARED SPACE



© Benthem Crouwel Architects



© Benthem Crowel Architects



There are no traffic lights and crossing paths, near the ferries and Cuyperspassage

Ongelooflijk maar er gaat niks mis in Shared Space Amsterdam - PAROOL

03/09/17 15:52

Ongelooflijk, maar er gaat niks mis in Shared Space



Shared Space achter CS, waar veel soorten verkeer elkaar kruisen. © Mats van Soelingen



De Shared Space achter CS blijkt succesvol. Minder regeltjes levert alertere fietsers en voetgangers op, en het gaat wel om 39.000 gebruikers per werkdag.

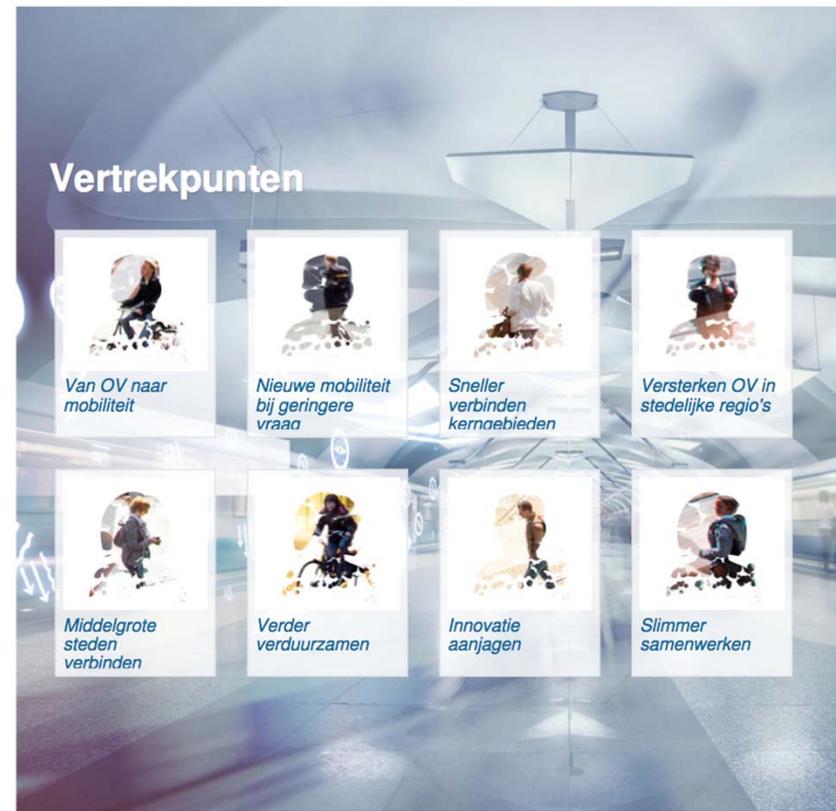
DOOR: MARC KRUYSWIJK 27 FEBRUARI 2016, 11:00

SHARED MOBILITY

- Practical Challenges: Safety, Efficiency and Comfort
- Information and Wayfinding
- Digital Connectivity



RESEARCH CHALLENGES



Flexible and Smart Station (OV: Public Transport) © Dutch Ministry of Infrastructure and the Environment, https://epublicatie.minienm.nl/toekomstbeeld-ov#/slide_overstappen-naar-2040



THANK YOU
GRACIAS

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