



Dutch Transport Innovation Study Tour The Handbook

Translating Best Practice
Transport Innovation
24th - 30th June 2018

Institute for
Sensible Transport

www.sensibletransport.org.au



Prepared by

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Foreword



It gives me great pleasure to welcome you to the Netherlands for an Australian study tour on transport innovation. As the Netherlands Consul General in Sydney, I am delighted that you have chosen my home country for this study tour, which will look at the Dutch transport and land use system as a whole.

The Netherlands is located in Western Europe, on the North Sea estuaries of two major European rivers, the Rhine and the Maas. The Netherlands is home to Europe's biggest seaport, Rotterdam, and one of Europe's biggest airports, Amsterdam Schiphol airport. The country also boasts excellent ICT infrastructure, making it an important logistics as well as digital gateway between Europe and the rest of the world.

As you may know, of the 17 million Dutch 60% of the population lives below sea level, on mostly flat land that is protected by an elaborate water management system. Indeed, outside of the cities the Dutch landscape is characterised by a large number of waterways, bridges, dikes and windmills. The Delta project is a chain of dams protecting the southwest provinces from the North Sea and belongs to one of the Seven Wonders of the Modern World.

On a global level, the Netherlands is the world's second biggest agro-food exporter, and the world's largest flower and bulb exporter. Dutch companies are at the forefront in areas such as engineering, chemicals, design, logistics and water management. Some of the world's leading multinationals originate in the Netherlands and still have their headquarters here: Royal Dutch Shell, Unilever, Philips, ING and Heineken. The Netherlands is also home to leading-edge universities such as Delft and Eindhoven (known for its advanced smart mobility projects) as well as the agriculturally focused Wageningen University and Research centre. Amsterdam has a thriving start up community and houses the renowned Amsterdam Institute for Advanced Metropolitan Solutions. Dutch design is known for its innovative, out of the box concepts that are globally applied.

The Netherlands is also very much known for its bicycles and cycling infrastructure (there are 35,000 km of cycling paths throughout the country). The Dutch are not afraid to invent and apply new concepts such as bicycle lanes that generate solar power, 'motorways' dedicated to electric bicycles or a circular bicycle suspension bridge that separates bicycles from motorised traffic (the 'Hovenring' in Eindhoven).

Perhaps less well known is the quality and extent of Dutch integrated transport, which includes all modes of transport. Although an integral part of journeys, it does not just involve the bicycle. Dutch integrated transport means a seamless connection between active and public transport, where transport and land use planners apply the latest innovation and technology to achieve safe, sustainable, and comfortable journeys.

A well-designed and innovative transport system can have many positive implications. The electric bicycle, for instance, has seen an enormous rise in popularity in the Netherlands during the past few years. It means that people can stay active for longer, but electric cycling can also overcome the cycling threshold in countries that are not as flat as the Netherlands. Rethinking and redesigning residential streets can positively affect communities. The 'woonerf' concept, a shared residential neighbourhood with a maximum speed of 30 km/h where pedestrians and cyclists dominate and cars are mere guests, originated in the Netherlands. Shared mobility can lead to less car use, less waste and less CO2 emissions. The way we plan and design our transport, in short, influences all areas of our lives.

I hope that this week will be rewarding and inspiring for you. I have no doubt that you will not only learn from the Dutch speakers and site visits, but that the Dutch also have plenty to learn from your knowledge and experiences in Australia.

Again, thank you for visiting my home country. I wish you a pleasant, fruitful and inspiring time in the Netherlands.

Frank van Beuningen
Consul General of the Netherlands,
Sydney NSW



Introduction



There is no better place to learn about transport innovation than the Netherlands. The Dutch have created a living laboratory of city design that not only maximises transport efficiency, but more importantly, creates convivial cities that encourages the interaction that has drawn people to cities for thousands of years.

This study tour will look at the transport and land use system as a whole, with a focus on lessons that can be translated into the Australian context, across all modes. Whilst it is impossible to ignore cycling in the Netherlands, this study tour takes a broader view, encompassing a full set of transport options.

The Dutch have established themselves as world leaders in city design and policy development and this study tour engages directly with many established thought leaders in the Netherlands.

Over the course of the week you will hear from renowned Dutch transport and land use planners, as well as academics, each of which have been especially chosen for the practical lessons they can offer Australian professionals working to help make cities more productive, liveable and vibrant.

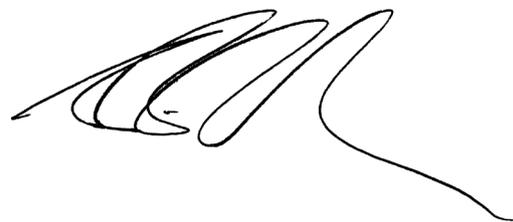
Some of the topics you'll learn more about over the next week include:

- Recent Dutch planning history and practice
- Integration of land use and transport
- How the Dutch manage their motorway network (the densest in Europe)
- Policy options to change the way people pay for car use
- Policies to encourage electric vehicles
- Management of city car parking
- Public transport best practice
- Best practice bicycle planning and practice.

Importantly, while the Dutch do have a reputation for delivering world class cities, they also make mistakes. This study tour will also be an opportunity for the Dutch to talk about policy mistakes, in order for us to learn from them. Innovations in transport can also be about taking risk, and hopefully by the end of this study tour, you will have the confidence to take calculated risks that help transform cities for the better.

While the next week will involve many great presentations from expert speakers, I'm sure you will also gain many fantastic insights that had not been built into the program. Waiting for a train, eating lunch at an outdoor cafe, enjoying a quiet walk or ride; it is during these times that many of the most valuable insights come from a study tour to the Netherlands.

On behalf of the Institute for Sensible Transport, welcome to the Netherlands, enjoy the week ahead and bring back plenty of great ideas.



Dr Elliot Fishman
Director, Transport Innovation
Institute for Sensible Transport

Planning your trip

The Important Stuff

We're expecting a fun, relaxed and incident free study tour. However, if something does go wrong, it's best to be prepared. Below are a few key contact details in case of emergency. If you are feeling unwell or unsafe at any point during the trip, please speak to Elliot immediately.

Emergencies: 112

Elliot Fishman: +61 438 547 450

Australian Consulate (The Hague): 0800 0224 794

Clothing

Summer in the Netherlands is a fantastic time to visit. The sun is out, the days are long and everyone is in a relaxed and friendly mood. Like Melbourne, it is also prone to rapid changes in temperature. Like the Dutch, we will be continuing on our schedule throughout the study tour rain, hail or shine. We recommend you pack the following:

- A rain coat
- A compact umbrella
- A warm jumper
- Smart casual clothing, suitable for bike riding
- Comfortable walking shoes
- A camera to take lots of photos
- Sunglasses
- Copies of your passport and travel insurance documents
- **Leave the suits at home!**

Daily maximum temperatures can be as low as 16 degrees, with the possibility of a Dutch heatwave, pushing the temperature up to around 30. Pack accordingly.

Mobile Phone

We recommend arranging to have mobile phone access during the study tour in case you find yourself lost or want to find out more information about something while out and about. Contact your Australian mobile phone carrier before you leave to see what options exist to use your phone while in the Netherlands. Local prepaid SIM cards can be easily purchased and activated on arrival. If you decide to activate data roaming on your existing phone before departing, be aware of the costs per megabyte. Consider keeping the phone in flight mode until you need it to minimise data consumed.

Money

Non Dutch Credit and Debit Cards are not universally accepted in the Netherlands. This can make it difficult for those with Australian bank cards. We recommend having enough cash prior to starting each day.

NS OV-Chipkaart

(Dutch national public transport smart card)

The OV-Chipkaart is your pass to access all modes of public transport across the Dutch transport network. Your card has been preloaded with enough funds to cover each of the planned journeys in the study tour, including your return trip to the airport. If you are making additional trips, you will need to top up. Topping up can easily be done at any Dutch train station. **Remember to pack your OV-Chipkaart somewhere easily accessible as you will need it to get the train from the Airport to Utrecht Centraal.**

Bike riding

The Dutch are known for their casual bike riding, but it can still be a daunting experience riding in bike traffic for the first time. Please remember to check both directions before crossing any street. Please note: People drive and ride on the right hand side of the road throughout the Netherlands. This can be difficult to get used to and it is therefore recommended to look both ways whenever interacting with traffic. Bike riders won't always signal before turning in or out of traffic, so be ready to move across to allow people to merge into the lane. The fastest way to riding like a local is: Ride straight, maintain the same speed as everyone else, and be predictable when turning or stopping.

Helmets are not widely used in the Netherlands and there is no legal obligation to wear one. If you feel uncomfortable riding without a helmet, it is recommended you bring one from home.

Cafe's vs Coffee Shops

Be careful when searching for a caffeine hit during the study tour. In the Netherlands there is a very clear distinction between a 'cafe' and a 'coffee shop'. A cafe is the same as everywhere else in the world, while a coffee shop is a marijuana dispensary that will likely give you a funny look if you try to order a latte from them.

In Australia, we are lucky to have an abundance of quality cafe's. The Netherlands is catching up, though it can still be hit and miss when searching for a high quality coffee. We've selected a few of our favourite cafe's in Utrecht, guaranteed to satisfy the taste buds. See map on pages 10 & 11.

Upon Arrival

Welcome to the Netherlands!

Amsterdam's Schipol Airport is connected to the Dutch rail network, allowing for a fast transfer to anywhere in the country. Direct connection between Schipol and Utrecht is available on select Intercity trains. Your train pass (OV-Chipkaart) provided in this Handbook is preloaded with enough money to cover all the trips planned in this study tour, including your return trip back to the airport.

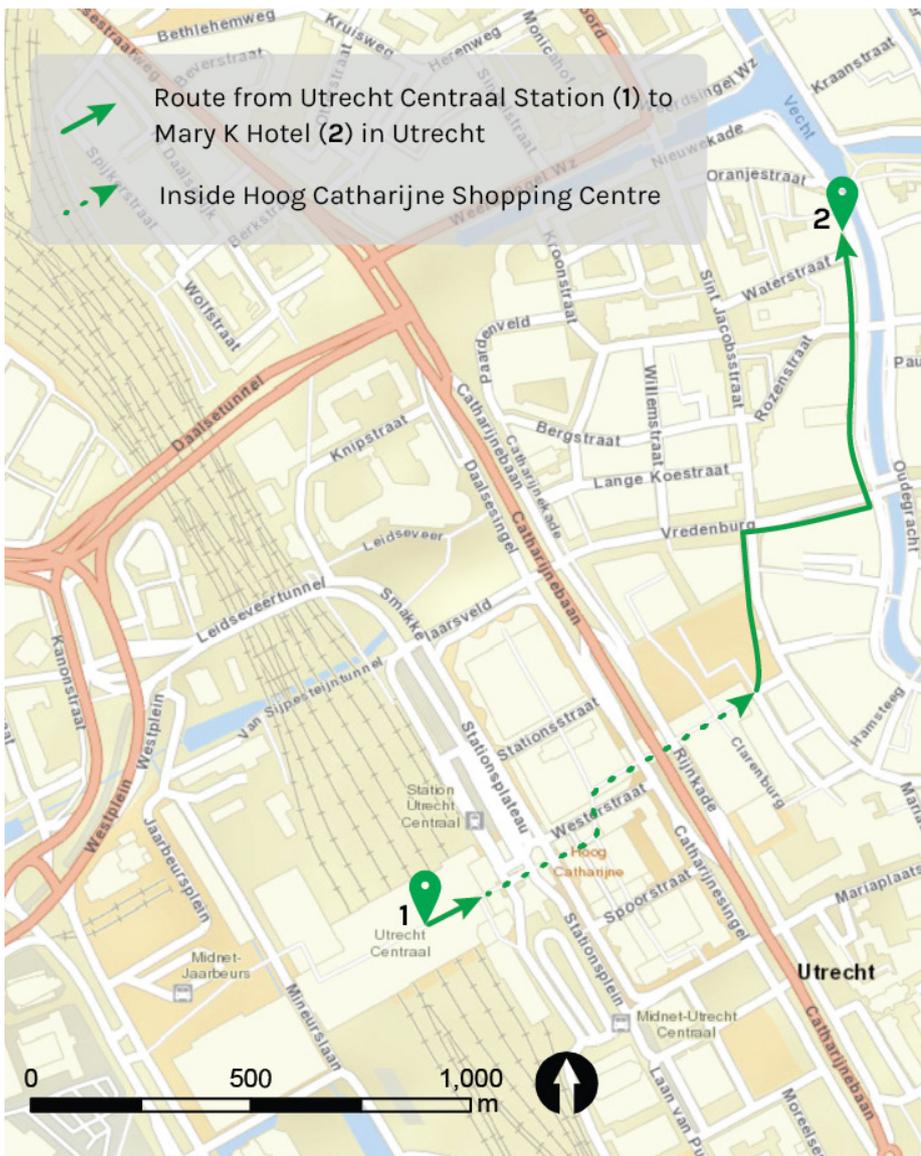
Upon arrival to Utrecht Centraal Station, head east towards the exit through the Hoog Catharijn Shopping Centre. Follow the signs towards 'Vredenburg'.

After exiting the shopping centre, head north across the Market Vredenburg square.

At the main road (Lange Vredenburg) turn right and continue until reaching the canal (Oudecracht, or 'Old Canal'). Turn left (do not cross over the canal) and continue north for approximately 250 metres.

Mary K Hotel is the third building after Waterstraat.

Route to Mary K Hotel from Utrecht Centraal



The Dom Tower - The highest point in Utrecht



Scanning the OV-Chipkaart to a reader before getting on a public transport service

Mary K Hotel

The Mary K Hotel will be home and HQ for the study tour. It is an 18th century Art Hotel located on the Oudegracht (Old Canal) in central Utrecht.

Check-in is available from 11am on Sunday 24th June. If you arrive before 11am, you are welcome to drop off your luggage at the hotel and explore the city.

Complementary continental style breakfast will be provided each morning of your stay, sourced from local, organic produce.

Address:
Oudegracht 25, 3511 AB Utrecht,
Netherlands Telephone: +31 30 230 4888



Delegates



Richard Smithers
Team Leader - Transport
City of Melbourne
Melbourne, VIC



Elizabeth Rush
Senior Transport Planner
Transport for NSW
Sydney, NSW



Dr. Robbie Napper
Senior Lecturer
Monash University
Melbourne, VIC



Robert Busch
Economist
Infrastructure Australia
Sydney, NSW



Hannan Lloyd
Policy Advisor
Infrastructure Australia
Sydney, NSW



Penelope Bennet
Traffic Engineer
LXRA
Melbourne, VIC



Nina Taylor
Councillor
City of Glen Eira
Glen Eira, VIC

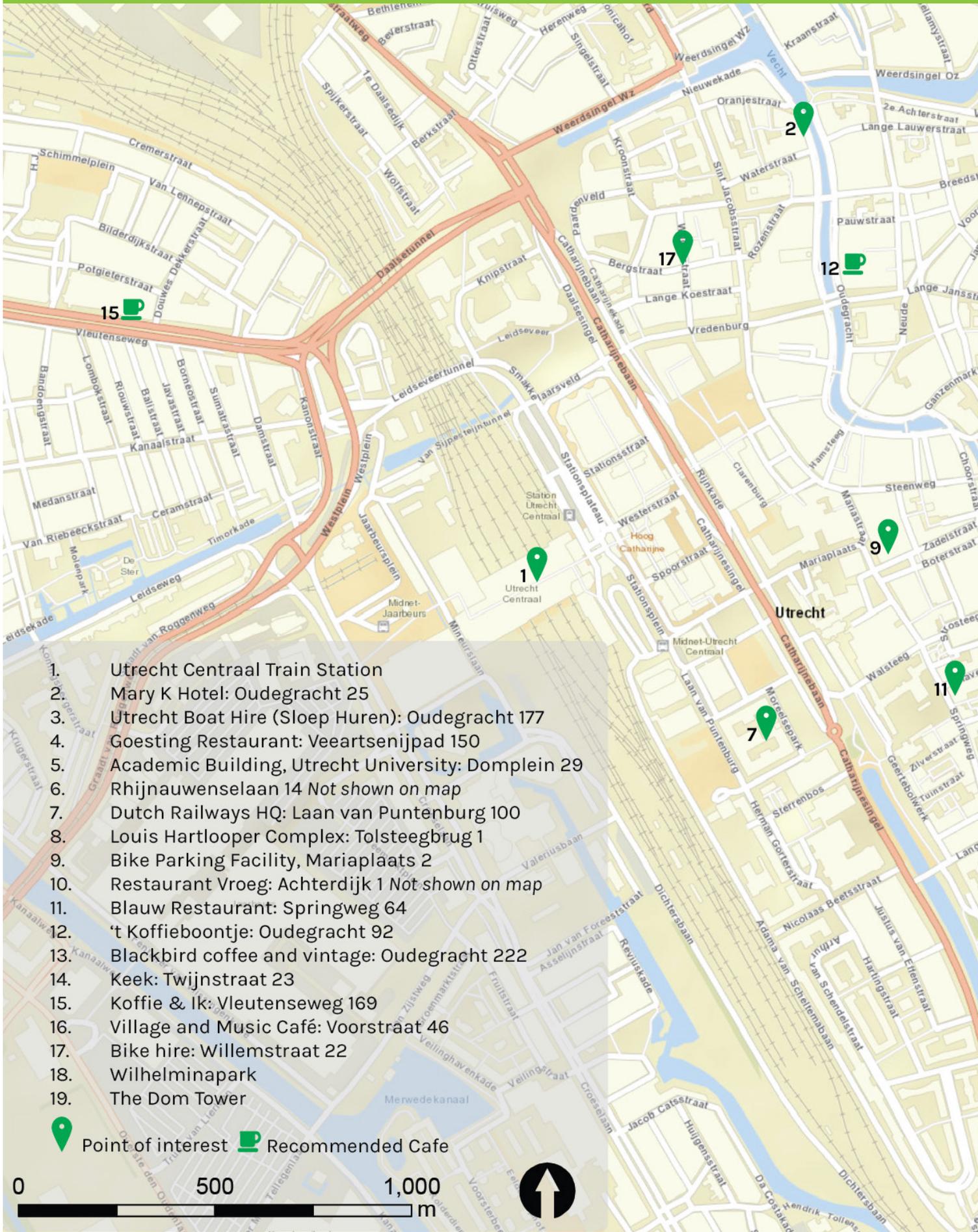


Judith Hannan
Mayor
Wollondilly Shire Council
Wollondilly, NSW



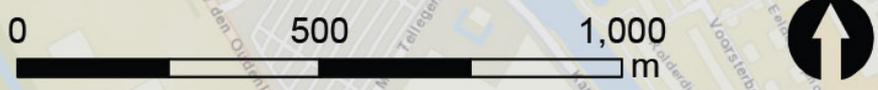
Karen Caddy
Councillor
City of Stirling
Perth, WA

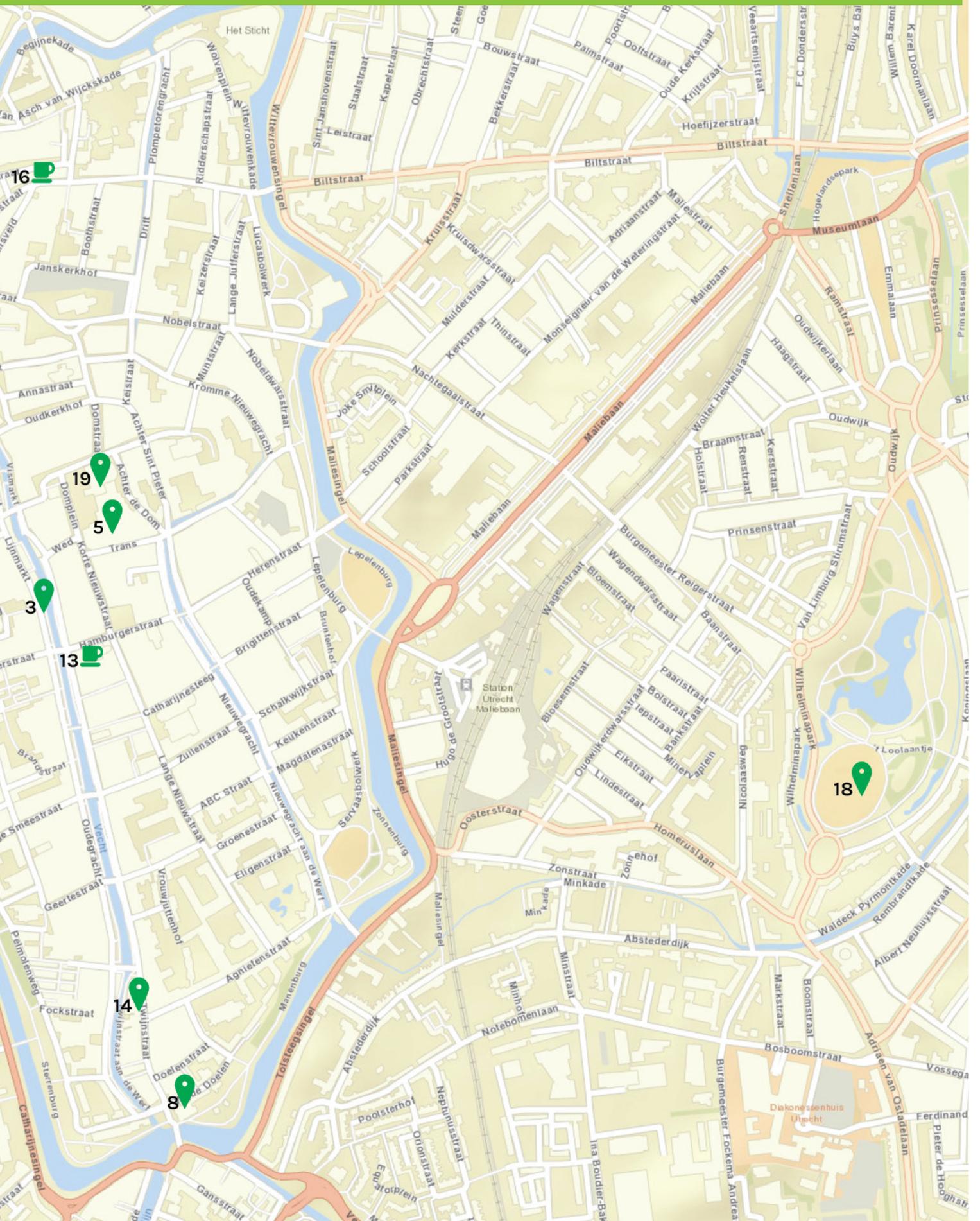
Map of Utrecht



1. Utrecht Centraal Train Station
2. Mary K Hotel: Oudegracht 25
3. Utrecht Boat Hire (Sloep Huren): Oudegracht 177
4. Goesting Restaurant: Veeartsenijpad 150
5. Academic Building, Utrecht University: Domplein 29
6. Rhijnauwenselaan 14 Not shown on map
7. Dutch Railways HQ: Laan van Puntenburg 100
8. Louis Hartlooper Complex: Tolsteegbrug 1
9. Bike Parking Facility, Mariaplaats 2
10. Restaurant Vroeg: Achterdijk 1 Not shown on map
11. Blauw Restaurant: Springweg 64
12. 't Koffieboontje: Oudegracht 92
13. Blackbird coffee and vintage: Oudegracht 222
14. Keek: Twijnstraat 23
15. Koffie & Ik: Vleutenseweg 169
16. Village and Music Café: Voorstraat 46
17. Bike hire: Willemstraat 22
18. Wilhelminapark
19. The Dom Tower

 Point of interest
  Recommended Cafe





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19

5

3

13

14

8

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Your Hosts



Dr Elliot Fishman
Institute for
Sensible Transport



Lizet Krabbenborg
Delft University
of Technology

The idea for this study tour arose while Elliot lived with his family in Utrecht in 2014. To truly appreciate the benefits of Dutch transport and land use planning, it is essential to become immersed in it, and this can only happen by visiting the Netherlands.

Dr Fishman feels privileged to host a group of Australian professionals to gain a deeper understanding of innovations that can be applied to make Australian cities better.

Dr Fishman has over 12 years experience as a consulting transport planner for local and state governments around Australia. He has also undertaken work for the OECD, and assisted the NYC Department of Transportation and Transport for London. He has a long standing connection with the Netherlands, and has previously worked at Utrecht University and maintains strong connections with leading Dutch transport practitioners.

His research measuring the health and economic benefits of Dutch cycling has appeared on the front page of Dutch newspapers and peer reviewed journals. In 2016 Dr Fishman completed two landmark reports for the City of Melbourne and City of Adelaide on disruptive transport technology and the implications for local government. Dr Fishman has written for The Age, the Herald Sun and other major daily newspapers on transport issues. His work has been among the most read and cited articles in peer reviewed transport journals. In 2015 he was lecturer in Integrated Transport Planning at RMIT University. In 2016 he led the bike share feasibility studies for Perth, Adelaide and Sydney and prepared several Integrated Transport Strategies for local governments.

Lizet is PhD researcher in Transport Policy at the Delft University of Technology. Her PhD is about stakeholders' acceptability of smart road pricing measures. She has a background in Architecture (bachelor) and Transport (master) and she has worked for the Netherlands Environmental Assessment Agency. She is also interested in Dutch politics. Lizet will be available throughout the study tour to assist participants in better understanding how Dutch transport policy works in practice.

Your Speakers



**Professor
Bert van Wee**
Delft University of
Technology

Bert van Wee is Professor of Transport Policy and is well known in the Netherlands as one of the most respected authorities on transport and land use planning.

He regularly advises Ministers and local government politicians on transport issues and it is his depth of knowledge in Dutch transport innovation and best practice that makes Professor van Wee an indispensable component to this Study Tour.

Importantly, his international experience, including in Australia, allows him to provide context specific insights that will be highly valuable for this study tour.



Ruwan Aluvihare
Landscape Architect
City of Amsterdam

Ruwan is one of the leading urban landscape architects in the Netherlands. As the Chief Urban Designer/Landscape Architect for the City of Amsterdam, Ruwan has been instrumental in the redevelopment of landmark streets in Amsterdam. His attention to detail and focus on increasing the vibrancy and efficiency of key streets has resulted in major public realm benefits that help to increase Amsterdam's liveability.

Ruwan will guide the study tour delegates through some of his recent projects, to gain a first-hand account of the complexities, trade-offs and benefits from major changes to urban transport corridors.



**Dr Marco
te Brommelstroet**
University of
Amsterdam

Marco is Associate Professor in Urban Planning at the University of Amsterdam. He is the founding academic director of the Urban Cycling Institute. He has set up numerous teaching and research projects around the relations between cycling and the way our cities and societies are shaped. He teaches land use, urban form and mobility behaviour.

Marco also plays an active role in the international public debate around issues of mobility (see @fietsprofessor) and curated and supervised many delegations. In 2016 he visited Perth and Sydney to supervise workshops and give keynotes on these topics.



**Professor
Erik Verhoef**
Free University
of Amsterdam

Erik Verhoef is a full professor in Spatial Economics at VU Amsterdam, and a research fellow of the Tinbergen Institute. Currently Head of Department of Spatial Economics, Erik's research focuses on how pricing signals can be used to encourage more efficient and equitable behaviour in cities.

Road user pricing and better methods of regulating demand for car parking are two of Erik's areas of special interest. Erik's work has placed him in the top 4% of economists globally, and his work on road user pricing provides governments with practical methods of regulating demand for road space.

Your Speakers



Herbert Tiemens
Province of Utrecht

Herbert has worked for almost two decades as an urban planner across different levels of Dutch government, with a particular focus on sustainable mobility. In recent years, Herbert has led a large number of foreign delegations interested in better understanding Dutch planning principles and the implementation of improvements to the street network. Throughout his work, Herbert has been able to align short term improvements with wider, longer term strategic goals.

Herbert works for the Province of Utrecht as a policy advisor. Moreover, he is a member of the advisory board of Fietsberaad, the Dutch knowledge centre of cycle expertise. His specialties are integrated spatial plan development and street design. Herbert likes creating bicycle-friendly infrastructure especially in the field of combining public transport and cycling. Being a regular speaker at conferences at home and abroad, Herbert's presentations are vivid, engaging and tailored to the context of the delegates' home country.



Hillie Talens
CROW Technical advisor
to local government
on transport

Hillie Talens is a leading transport engineer with over 30 years of experience in both public and private sector. Ms Talens career has focused on improving the role of the bicycle in the transport system, parking policies and the optimization of the use of parking facilities. She is also interested in sustainable safety and the quality of public spaces, the effects and optimization of traffic control lights in the local road network. She is a specialist in legal aspects of transportation planning and design subjects such as cycling and parking.

She is one of the leading specialists in Dutch street design, parking and bicycle network planning. Hillie Talen has created some of the most authoritative, globally recognised handbooks on transport system/network design guidelines, including:

- Handbook on Traffic Calming and Street Design. Hillie has written the best selling handbook on how to create safe, vibrant streets through the use of traffic calming and improved street design.
- Design Manual for Bicycle Traffic. The Manual, developed by Hillie Talens, is the most consulted handbook on bicycle facilities and policies in the world.
- Design Manual for Bicycle Parking. This handbook provides detailed policy and design specifications for high quality bicycle parking.

In addition to the above handbooks, Hillie Talens leads a project on creating successful shared spaces in cities, and sustainable safety. She has led a large number of study tours for international delegations visiting the Netherlands to learn about transport innovation and street design.



Mark Wagenbuur
Dutch transport
commentator

Mark Wagenbuur is recognised as one of the most insightful commentators on Dutch transport innovation, with a particular interest in how streets can be adapted to encourage sustainable transport use.

Mark was appointed "Dutch Cycling Ambassador" in September 2016. He is one of the cycling experts in the pool of the Dutch Cycling Embassy, an organisation that shares expertise and technology of the world's number one cycling country to facilitate cycling worldwide as the most, efficient and sustainable method of transport.

Mark will provide a guided tour of how streets in Utrecht have been transformed over four decades, with an emphasis on Complete Streets, network design, Safe Systems and general Dutch traffic principles. Mark will describe how changes in street design didn't 'just happen' but were the result of decisive action by successive governments.



Koen van Waes
Senior Sustainable
Mobility Specialist
City of Tilburg

Koen brings substantial experience in sustainable mobility and transport integration at the local government level. His local government work involves traffic management, car parking policy, public transport and bicycle planning.



Erik Verroen
Principal Advisor
Rijkswaterstaat

Erik Verroen is the Principal Advisor at the Dutch Ministry of Transport and Water (Rijkswaterstaat) working on network development and transport modelling. He operates as a strategy advisor and knowledge manager, focusing on the present and future needs of the Dutch transport system (passenger and freight).

Part of Erik's role requires an alignment of wider national goals (productivity, congestion, safety, and environmental performance) with transport investment decision. He is strongly involved in the development and use of transport models for multimodal passenger and freight transport, supporting national policy development and the extension and management of the national transport networks.

Program Overview

Sunday 24th June

Welcome boat tour and dinner

- 11:00am – 2:00pm Delegates check into the Mary K Hotel in Utrecht

- 3:00pm – 3:30pm Welcome, Mary K Hotel

- 4:00pm Boat trip begins from Gaardbrug - Oudegracht, 177 (Sloop Huren Utrecht)

- 5:30pm Boat trip ends

- 5:30pm Ride to dinner

- 6:00pm – 8pm Dinner at Goestings

- **End of day 1**

Monday 25th June

Introduction to study tour and Dutch planning

- 8:30am – 9:15am Elliot Fishman on getting the most out of a Dutch transport study tour, Mary K Hotel

- 9:30am Depart Mary K Hotel for short bike tour of central Utrecht

- 10:20am Arrive Academic Building, University of Utrecht. Light refreshments

- 10:30am – 12:30pm Professor Bert van Wee on Dutch Planning: An Overview of Principles and Practice, Academic Building

- 12:30pm – 1:30pm Lunch (independent)

- 1:30pm – 2:30pm Koen van Waes on Dutch transport planning, from the perspective of local government

- 2:45pm – 3:25pm Ride from Academic Building to new residential development

- 3:30pm – 4:30pm Bike tour of new residential developments in Utrecht

- 5:00pm – 5:30pm Social drink at Rhijnauwenselaan or central Utrecht

- 5:30pm – 5:45pm Ride back to central Utrecht

- 6pm Dinner (independent)

- **End of day 2**

Tuesday 26th June

Motorways, pricing innovations and the Hovenring, Eindhoven

- 8:30am - 9:30am Short walking tour from Mary K Hotel to Zadelstraat, including bicycle parking facility, led by Herbert Tiemens/Utrecht City Council

- 9:30am - 9:45am Walk to Academic Building

- 9:45am - 10:45am Dutch motorway strategy and demand management, Erik Verroen

- 10:45am - 11:00am Refreshments

- 11:00am - 12:00pm Pricing innovations to achieve strategic city objectives, Erik Verhoef

- 12:00pm - 12:30pm Panel discussion: Erik Verroen, Erik Verhoef, Bert van Wee

- 12:30pm - 1:30pm Lunch (independent)

- 1:30pm Meet outside Bike Parking facility, Zadelstraat

- 1:30pm - 1:40pm Walk to Utrecht Centraal Train Station

- Catch 2:03pm Intercity train to Eindhoven from Platform 18 (check departure screens to confirm platform number). Train arrives into Eindhoven at 2:54pm

- 3:15pm - 3:45pm travel by bike to Hovenring

- 3:45 - 4:15pm inspect Hovenring with Adriaan Kok (ipv Delft), the designer

- 4:15pm - 4:45pm Travel back to inner Eindhoven

- 4:45pm - 5:45pm Refreshments in central Eindhoven

- 6:05pm Return bikes

- Return to Utrecht by train. Departing 6:17pm, arriving Utrecht 7:05pm.

- Later option: Departing 6:34pm, arriving Utrecht 7:21pm.

- **End of day 3**

Wednesday 27th June

Electric vehicle charging, train system strategy and user experience optimisation, innovation in street design

- 8:30pm Leave Mary K Hotel - walk to electric vehicle charging facility

- 8:45am - 9:40am Explanation of Utrecht's mobility agenda and encouragement policies for electric vehicles

- 9:45 - 12:45pm Dutch Railways: Network development, innovations for optimising the user experience, managing peak demand, the future of ticketing pricing and technology, integration of cycling and public transport.
Address: Laan van Puntenburg 100, Utrecht

- 12:45pm - 1:45pm Lunch (independent)

- 2:00pm Meet at Mary K Hotel

- 2:00pm - 4:30pm Tour of Dutch street innovation: Enhancing street performance through redesign. Led by Herbert Tiemens and Hillie Talens

- 4:30pm - 5:30pm Drink, Louis Hartlooper Complex, Ledig Erf, Tolsteegbrug 1

- **End of day 4**



Gratis bewaakte stalling



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Program Overview

Thursday 28th June

Amsterdam: Best practice examples of innovative street re-design

- 8:30am Depart Mary K Hotel by bike

- 8:45am Short tour of world's largest bicycle parking facility (Utrecht Centraal Station), led by Herbert Tiemens

- 9:18am Train departs Utrecht Centraal (Platform 7) Intercity to Enkhuizen

- 9:45am Arrive Amsterdam Centraal Train Station

- 9:45am – 10:00am Pick up hire bicycles

- 10:00am – 10:30am Travel to University of Amsterdam, Room REC-C, zaal 3.07
Address: Nieuwe Achtergracht 166

- 10:30am – 12:30pm Dutch transport and land use, integrating cycling and public transport and innovations in intersection design. Lecture and bike tour. Led by Dr Marco te Brömmelstroet.

- 12:30pm – 2:30pm Lunch and free time to explore Amsterdam (independent)

- 3:00pm – 4:00pm Special guest speaker on Amsterdam mobility plan

- 4:30pm – 6:30pm Policies, principles and practice of enhancing the streetscape, lessons from Amsterdam, led by Ruwan Aluvihare. Lecture at municipal office followed by street tour. Address: Weesperplein, 8, Amsterdam

- **End of day 5**

Friday 29th June

Field trip: Implementing the principles of the Safe Systems approach

- 8:30am Ride bicycles from Mary K Hotel to CROW Office (Jaarbeursplein 22)

- 9:00am – 11:30am Sustainable safety, road network design and application of Dutch traffic planning principles. CROW office for lecture followed by tour (bicycle)

- 11:30am – 12:30pm Lunch, Restaurant Vroeg (Achterdijk 1, Bunnik)

- 12:30pm – 1:00pm Travel to Houten

- 1pm – 3pm Tour of Houten, including public transport and cycling infrastructure, Herbert Tiemens.

- 3:00pm – 3:30pm Ride to Mary K Hotel

- 3:30pm – 4:00pm Rest, Mary K Hotel

- 4:00pm – 5:30pm Translating the study tour experience and insights into practical outcomes in Australia, Mary K Hotel

- 6:00pm Group dinner, Blauw
Address: Springweg 64, Utrecht

- **End of day 6**

End of Study tour

Saturday 30th June

Optional Side Trip: Tour of Groningen

Details of the Tour of Groningen are found on page 34



Wilhelminapark

A great place to rest and relax during moments of downtime on the study tour. It is also a great example of pedestrians and cyclists sharing road space in Utrecht



Sunday 24th June

Welcome boat tour and dinner



Utrecht Boat Hire - Explore the canals of Utrecht in a traditional Dutch boat

Today's Schedule:

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- 5:30pm Ride to dinner
- 6:00pm - 8pm Dinner at Goestings
- **End of day 1**

Monday 25th June

Introduction to study tour and Dutch planning



Mixed-use developments that interface well with the street is common throughout the Netherlands.

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- 5:30pm – 5:45pm Ride back to central Utrecht

- 6pm Dinner (independent)

- **End of day 2**

Topics

- Introduction to Utrecht
- Overview of Dutch transport and land use planning
- Sustainable greenfield development: A case study (need to find the right person/content)

Readings / Videos

- Ex-Post Evaluations of Thirty Years of Compact Urban Development in the Netherlands, Geurs K.T., van Wee, B., (2016), Urban Studies
- The Dutch transition from the 1970s to now (bikes): <https://www.youtube.com/watch?v=XuBdf9jYj7o>

Tuesday 26th June

Motorways, pricing innovations and the Hovenring, Eindhoven

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- 11:00am – 12:00pm Pricing innovations to achieve strategic city objectives, Erik Verhoef

- 12:00pm – 12:30pm Panel discussion: Erik Verroen, Erik Verhoef, Bert van Wee

- 12:30pm – 1:30pm Lunch (independent)

- 1:30pm Meet outside Bike Parking facility, Zadelstraat

- 1:30pm – 1:40pm Walk to Utrecht Centraal Train Station

- Catch 2:03pm Intercity train to Eindhoven from Platform 18 (check departure screens to confirm platform number). Train arrives into Eindhoven at 2:54pm

- 3:15pm – 3:45pm travel by bike to Hovenring

- 3:45 – 4:15pm inspect Hovenring with Adriaan Kok (ipv Delft), the designer

- 4:15pm – 4:45pm Travel back to inner Eindhoven

- 4:45pm – 6pm Refreshments in central Eindhoven

- 6:15pm Return bikes

- Return to Utrecht by train. Departing 6:17pm, arriving Utrecht 7:05pm.

- Later option: Departing 6:34pm, arriving Utrecht 7:21pm.

- **End of day 3**

Topics

- Dutch national policy in motorway development and management
- Understanding past and future road pricing strategies and practices
- Innovation in Dutch infrastructure: Case Study of the Hovenring (Eindhoven)

Readings / Videos

- Policies implementing lessons from six road pricing cases, D.V. Noordegraaf, J. A., Annema, B. van Wee., Transportation Research Part A: Policy and Practice (2014)
- What type of road pricing scheme might appeal to politicians. Viewpoints on the challenge in gaining the citizen and public servant vote by staging reform, D.A. Hensher, M.C.J. Bliemer, Transportation Research Part A: Policy and Practice (2014)
- Bert van Wee on road user pricing: <https://vimeo.com/233422234>
- Michiel Bliemer on how road user pricing could work in Australia: <https://vimeo.com/234416162>
- Former Premier John Brumby on the politics on road user pricing in Australia: <https://vimeo.com/233420030>



The world famous elevated bicycle ring 'Hovenring', separating bike riders from the cars below

Wednesday 27th June

Electric vehicle charging, train system strategy and user experience optimisation, innovation in street design



Electric car charging stations like this are common throughout the Netherlands.

Today's Schedule:

- 8:30pm Leave Mary K Hotel - walk to electric vehicle charging facility

- 8:45am - 9:20am Explanation of Utrecht's mobility agenda and encouragement policies for electric vehicles
9:20am - 9:35am Walk to Dutch Railways HQ

- 9:45 - 12:45pm Dutch Railways: Network development, innovations for optimising the user experience, managing peak demand, the future of ticketing pricing and technology, integration of cycling and public transport.
Address: Laan van Puntenburg 100, Utrecht

- 12:45pm - 1:45pm Lunch (independent)

- 2:00pm Meet at Mary K Hotel

- 2:00pm - 4:30pm Tour of Dutch street innovation: Enhancing street performance through redesign. Led by Herbert Tiemens and Hillie Talens

- 4:30pm - 5:30pm Drink, Louis Hartlooper Complex, Ledig Erf Tolsteegbrug 1

- **End of day 4**

Topics

- Strategies to encourage uptake of electric vehicles
- Public transport base practice: lessons from the Dutch National Railways HQ on pricing, user experience and innovation
- Understanding the evolution of the Dutch city street: a field trip

Readings

- Plan Amsterdam: The Electric City, Amsterdam City Council (2016)
- Fyhri, A., Heinen, E., Fearnley, N., Sundfor, H.B., A push to cycling - exploring the e-bike's role in overcoming barriers to bicycle use with a survey and an intervention study, International Journal of Sustainable Transportation (2017).

Thursday 28th June

Amsterdam: Best practice examples of innovative street re-design



The Oudegracht (Old Canal) runs through the centre of Utrecht.

Today's Schedule:

- 8:30am Depart Mary K Hotel by bike
- 8:45am Short tour of world's largest bicycle parking facility (Utrecht Centraal Station), led by Herbert Tiemens
- 9:18am Train departs Utrecht Centraal (Platform 7) Intercity to Enkhuizen
- 9:45am Arrive Amsterdam Centraal Train Station
- 9:45am - 10:00am Pick up hire bicycles
- 10:00am - 10:30am Travel to University of Amsterdam, Room REC-C, zaal 3.07
Address: Nieuwe Achtergracht 166
- 10:30am - 12:30pm Dutch transport and land use, integrating cycling and public transport and innovations in intersection design. Lecture and bike tour. Led by Dr Marco te Brömmelstroet.
- 12:30pm - 2:30pm Lunch and free time to explore Amsterdam (independent)
- 3:00pm - 4:00pm Special guest speaker on Amsterdam mobility plan
- 4:30pm - 6:30pm Policies, principles and practice of enhancing the streetscape, lessons from Amsterdam, led by Ruwan Aluvihare. Lecture at municipal office followed by street tour. Address: Weesperplein, 8, Amsterdam
- **End of day 5**

Topics

- Cycling at scale: A tour of the world's largest bicycle parking facility
- Best practice urban design in Amsterdam: Innovations in intersection design
- Corridor redevelopment, Complete Streets and public transport prioritization

Readings/Videos

- Cycling policy and design in Amsterdam, City of Amsterdam
- What happens when you turn off the traffic lights? Meredith Glaser, The Guardian: <https://www.theguardian.com/environment/bike-blog/2017/sep/22/what-happens-if-you-turn-off-the-traffic-lights>

Friday 29th June

Field trip: Implementing the principles of the Safe Systems approach



Safe System Design - All modes of traffic are separated along main thoroughfares in the Netherlands

Today's Schedule:

- 8:30am Ride bicycles from Mary K Hotel to CROW Office (Jaarbeursplein 22)

- 9:00am – 11:30am Sustainable safety, road network design and application of Dutch traffic planning principles. CROW office for lecture followed by tour (bicycle)

- 11:30am – 12:30pm Lunch, Restaurant Vroeg (Achterdijk 1, Bunnik)

- 12:30pm – 1:00pm Travel to Houten

- 1pm – 3pm Tour of Houten, including public transport and cycling infrastructure, Herbert Tiemens.

- 3:00pm – 3:30pm Ride to Mary K Hotel

- 3:30pm – 4:00pm Rest, Mary K Hotel

- 4:00pm – 5:30pm Translating the study tour experience and insights into practical outcomes in Australia, , Mary K Hotel

- 6:00pm Group dinner, Blauw
Address: Springweg 64, Utrecht.

- End of day 6

End of Study tour

Topics

- Safe Systems street design
- Sustainable transport networks in the Post-WWII city

Readings

- Ten Years of Sustainable Safety in the Netherlands: An Assessment, Weijermars, W., Wegman, F., (2011), Transportation Research Record Journal of the Transportation Research Board.
- P. Schepers, P., D. Twisk., E. Fishman., A. Fyhri., A. Jensen., The Dutch road to a high level of cycling safety. Safety Science (2017)
- Further reading on Dutch cycling safety: Road safety and bicycle usage impacts of unbundling vehicular and cycle traffic in Dutch urban networks, Schepers, P., Heinen, E., Methorst, R., Wegman, F., (2013), EJTIR.

Saturday 30th June

Tour of Groningen



Groningen is a picturesque city in the north of the Netherlands

Groningen is widely considered the world's most bicycle friendly city, with some 50 - 60% of trips being made by bike. Groningen's experimentation with traffic management initiatives dates back to the early 1970s and the city is now seen as a leader within the Netherlands for traffic management and design outcomes that maximise urban liveability.

Groningen is well known (at least in the Netherlands) for what has become known as the 'Groningen Model' which is an effective technique of lowering through-traffic in city centres by requiring that cars leave using the same route they arrived. Since the introduction of this and many other traffic calming measures, Groningen now has the highest bicycle mode share in the world and many other Dutch cities are trying to emulate what Groningen has achieved.

This one day tour of Groningen will involve a 2 hour train trip from Utrecht, a short lecture from local transport planners and academics followed by a bicycle tour of some of the initiatives that have made Groningen one of the leading cities in sustainable mobility.

Participants will need to add EURO 24.90 per one way trip on their OV Chipkaart to cover the cost of the journey to Groningen. It is advised that this value is added to the card prior to the 30th June, to avoid any unexpected delays.

Those participating in this side tour will meet at the Mary K Hotel at **8:30am**, walk to Utrecht Centraal Station to board the **8:48am** Intercity train to Groningen (platform 11). This train arrives in Groningen at **10:43am**.

We will hire bicycles at Groningen Train Station (organised by the Institute for Sensible Transport).

Lunch will be provided.

This tour will end in Groningen at **6:00pm**. Participants are free to make their own travel arrangements following the conclusion of the tour.

Institute for Sensible Transport
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www.sensibletransport.org.au

