



Dutch Transport Innovation Study Tour The Handbook

Translating Best Practice
Transport Innovation
16th - 22nd June 2019

*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. The Netherlands is the fourth largest investor in Australia. The Netherlands is the fourth largest investor in Australia. 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: a.o. 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 encourage 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 the full set of transport options in the Netherlands.

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 whom have been especially chosen for the practical lessons they can offer Australian professionals working to help make cities more productive, liveable and vibrant.

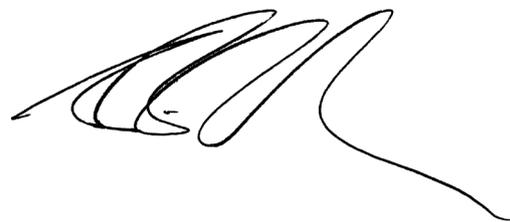
Some of the topics you'll learn more about over the next week include:

- 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.

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 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 one of the best times to visit. The sun's out, the days are long and everyone is in a relaxed and friendly mood. Like Melbourne, it can also be prone to rapid changes in temperature. As the Dutch do, 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 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 easiest 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.

Cafés 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 cafés. 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.

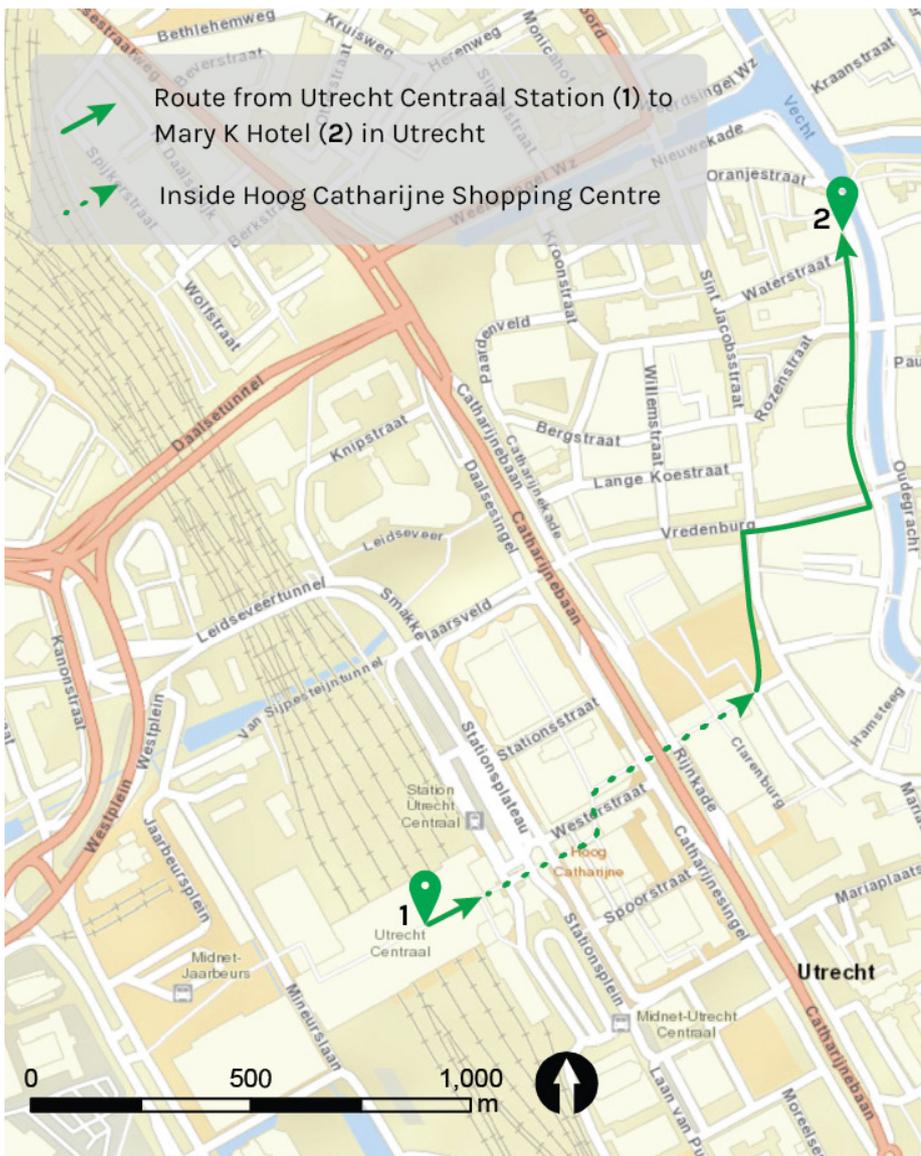
Upon arrival to Utrecht Centraal Station, head east towards the exit through the Hoog Catharijn Shopping Centre. Follow the signs towards 'Vredenburg'.

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 16th 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 and organic produce.

Address: 25 Oudegracht, 3511 AB Utrecht

Telephone: +31 30 230 4888



Delegates



Warren Yates

Active Transport Working
Sydney, NSW



Judith Yates

Associate Professor
University of Sydney
Sydney, NSW



Greg Jackson

Urban Designer
NSW Roads and Maritime Services
Sydney, NSW



Ken Hall

Director
KBHall Pty Ltd
Melbourne, VIC



Gayle Buckby

Senior Movement Planner
InfraPlan
Adelaide, SA



Jayne Lovell

Senior Associate
MFY
Adelaide, SA



Melissa Mellen

Director
MFY
Adelaide, SA



Charles Mountain

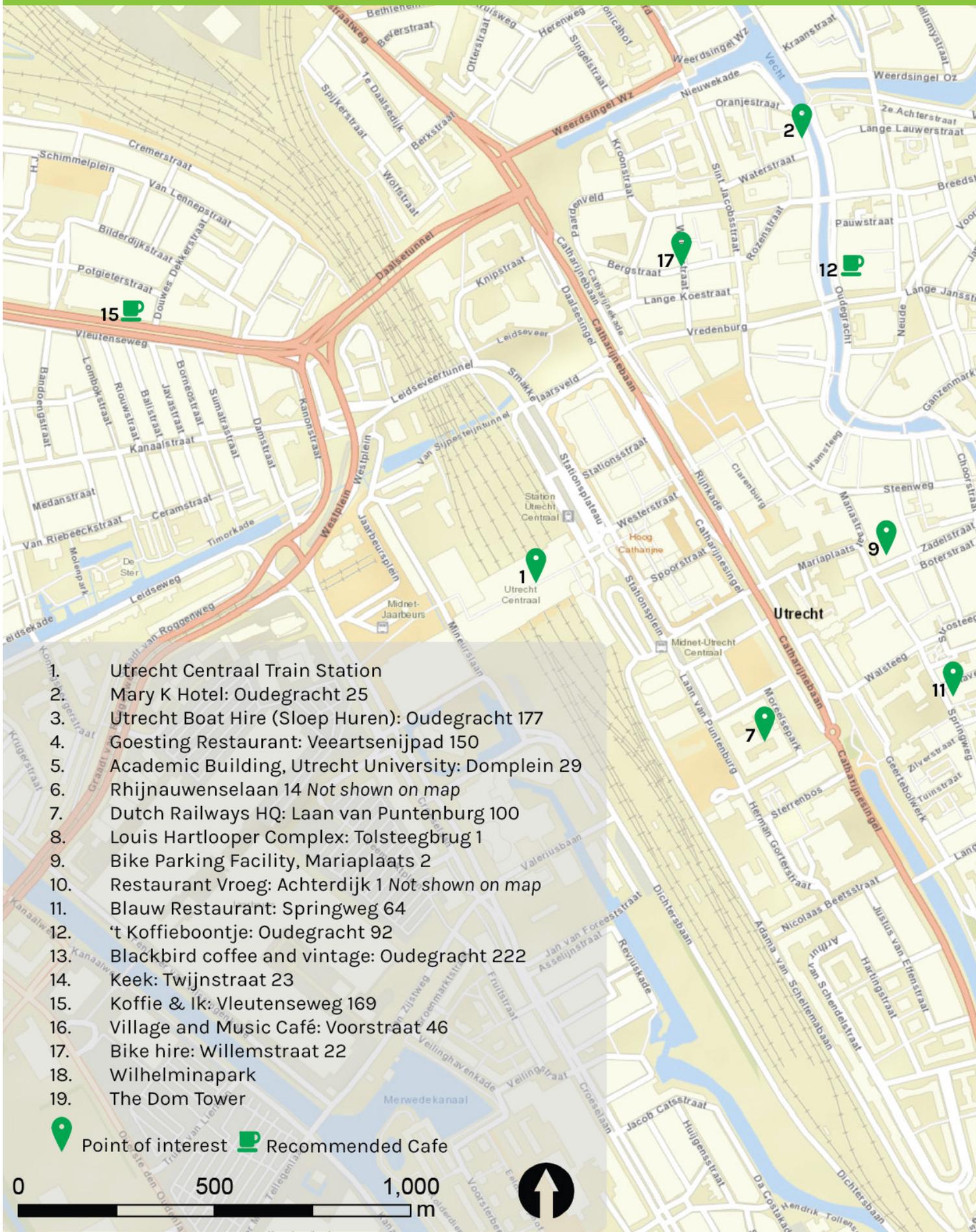
Senior Manager Road Safety
RAA
Adelaide, SA



Vicki Lennox

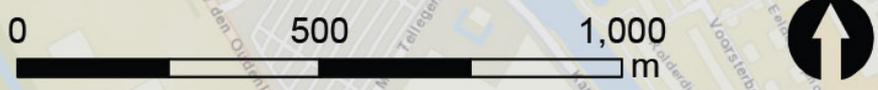
Executive Operations Manager
Community Central Coast Ltd
Central Coast, NSW

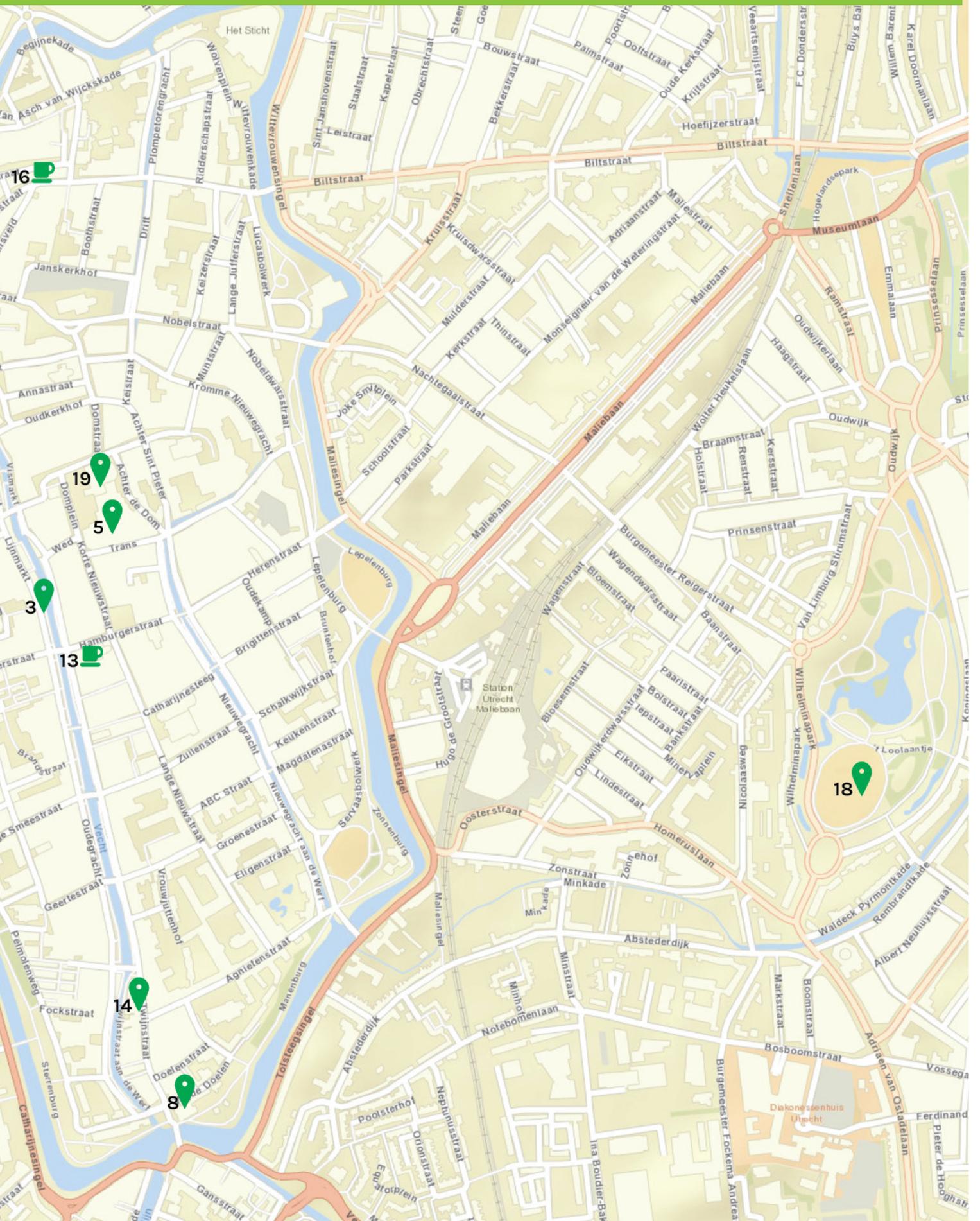
Map of Utrecht



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





16

19

5

3

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14

8

18

Your Hosts



Dr Elliot Fishman
Institute for
Sensible Transport

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 professionals interested in understanding how Australian cities can become more sustainable and liveable.

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, having 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.



Vaughn Allan
Institute for
Sensible Transport

Vaughn Allan is a talented transport analyst with a special interest in enhancing sustainable mobility outcomes. He has worked at the Institute since 2017 and he previously worked for Bicycle Network and the Victorian Department of Premier and Cabinet, advising on transport projects. He has lived and studied in the Netherlands and has a strong understanding of the principles the Dutch apply to designing their cities.

Vaughn works with GIS to bring large data sets to life, providing practical tools government agencies can use to make informed decisions regarding future transport investments.

Vaughn is excited to help professionals from Australia gain a deeper understanding of best practice city planning and how best to apply it to the Australian context.

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. 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.



Lot van Hooijdonk
Vice Mayor
City of Utrecht

Lot van Hooijdonk is a Vice Mayor (Dutch Green party) at the City of Utrecht with a focus on mobility, sustainability and energy transition. She was deputy director of Utrecht's Federation for Nature and Environment and worked as a consultant at the national government for Transport. She studied Political Science at Florida University in the US and History at the University of Utrecht.

Vice Mayor van Hooijdonk is developing some of the most innovative transport projects in the Netherlands, and is excited to be able to share these with international delegations.



**Professor
Fred Wegman**
Delft University of
Technology

Fred Wegman is Emeritus Professor Traffic Safety at Delft University of Technology and former managing director of SWOV Institute for Road Safety Research in the Netherlands. He is one of the designers of the Dutch version of the Safe System approach (called Sustainable Safety). He regularly advises governments all over the world on road safety, with a special interest in developing countries. He was a *Thinker in Residence* in South Australia.

Your Speakers



Jeen Kootstra
Urban Designer
City of Utrecht

Jeen works at the City of Utrecht as project manager in urban planning. He studied at the Technical University of Delft and now works as an urban designer at the Office of Leidsche Rijn, a district in Utrecht. Leidsche Rijn is the largest urban greenfield development in the Netherlands.

Transport, mobility and sustainability have been key principles in the development of Leidsche Rijn. Leidsche Rijn offers an excellent example of urban development purposed around active transport where car use is minimised.



Karin van de Weele
Project Manager
City of Utrecht

Karin works at the municipality of Utrecht as project manager in urban planning. She studied building environment and architecture at the Technical University of Delft.

For over 20 years, she has worked on the Leidsche Rijn project. Sustainability has been central to the development of this area, and Karin brings a wealth of experience and in-depth knowledge on how to create new successful communities. Importantly, her work has involved stronger connections between the new Leidsche Rijn development and Utrecht's old town.

She is also working on the redevelopment of a former site of the Ministry of Defence, transforming the precinct into a urban habitat with 600 dwellings and services.



Wijnand Veeneman
Associate Professor
Delft University of
Technology

Wijnand Veeneman advises, teaches and researches on governance, especially on matters related to infrastructure and transport. He is leading a European project on the governance data platforms for mobility. He is scientific director of Next Generation Infrastructure, a cooperation between six major infrastructure managers in the Netherlands. He understands the context of transport planning in automobile-dependent societies.



Ivo Mulders
Project Manager
ipv Delft

Ivo Mulders joined ipv Delft in 1999 and has worked as project manager and designer for over 19 years now. He has led more than 100 of bridge design projects, from iconic bicycle and pedestrian bridges to moveable bridges, road bridges and tunnels. Ivo's firm was responsible for the design of one of The Netherlands' most iconic bridges, the Hovenring. He will provide a personalised tour of this innovative structure.

As an experienced project manager, cost-conscious design is a natural part of all projects. His goal is to provide an optimal and tailor-made solution for each assignment within (often limited) budget.



Meredith Glaser
University of Amsterdam



Erik Verroen
Principal Advisor
Ministry of Infrastructure,
The Netherlands

Meredith Glaser is an urban planner and mobility researcher, based in the Netherlands since 2010. She specialises in analysing urban processes, strategies, and design perspectives that prioritize people and their communities. Currently a PhD candidate at the Urban Cycling Institute at the University of Amsterdam she is researching how urban mobility policies and practices are learned and transferred from one context to another, with a focus on organisational change and capacity building.

Since 2015, she co-directs the summer programme Planning the Cycling City with Dr. Marco te Brommelströet. Before her PhD, she was a mobility consultant working with municipalities, universities, and companies on cycling projects, public space and street design experiments, and behavioral studies. She lives in Amsterdam with her husband, daughter, 4 bikes and no car.

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.





Hillie Talens
CROW Technical Advisor
to Local Government
on Transport, Utrecht



Mark Wagenbuur
Dutch Transport
Commentator
Den Bosch

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 is recognised as one of the most insightful commentators on Dutch transport innovation. As a *Dutch Cycling Ambassador*, he is one of the cycling experts in the pool of the Dutch Cycling Embassy.

Mark will provide a guided tour of how streets in Utrecht (where he was born and raised) 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.



Street transformation

A green transport corridor in Amsterdam, converted from a car-oriented road

Program Overview

Sunday 16th June

Welcome boat tour and dinner

- **11:00am – 12:00pm** Guests check into the Mary K Hotel in Utrecht

-  **12:00pm – 1:00pm** Welcome at Mary K Hotel and introductory casual bike ride, Utrecht

- **2:30pm – 3:30pm** Getting the most out of your study tour

-  **3:30pm – 4:00pm** Ride to boat tour from Mary K Hotel to 2 Oosterkade (Sloep Huren Utrecht)

- **4:00pm – 5:30pm** Boat trip featuring guest speaker Bert van Wee on history of Dutch planning

-  **5:30pm** Guests ride to dinner

- **6:00pm – 8:00pm** Dinner at Restaurant Blauw (64 Springweg, Utrecht)

- **End of day 1**

Monday 17th June

Introduction to Dutch planning: theory and practice

- **8:30am – 9:00am** Overview of Tour, Mary K Hotel

-  **9:15am** Depart Mary K Hotel with bikes to Academic Building, Dom Square, University of Utrecht

- **9:30am** Arrive at Academic Building, University of Utrecht.

- **9:30am – 11:30am** Professor Bert van Wee on Dutch Planning: An Overview of Principles, Practice and Road User Pricing, Academic Building

- **11:30am – 11:45am** Light refreshments

- **11:45am – 12:45pm** Vice Mayor Lot van Hooijdonk on Cutting Edge Transport Innovation: The Case of Utrecht

- **12:45pm – 1:30pm** Lunch (independent)

- **1:30pm – 2:45pm** Panel discussion with Bert van Wee, Lot van Hooijdonk, and Wijnand Veeneman

- **2:45pm – 3:25pm** Ride from Academic Building to  Leidsche Rijn residential development, led by Jeen Kootstra and Karin van de Weele

-  **3:30pm – 4:30pm** Bike tour of Leidsche Rijn

- **Optional**
5:00pm – 5:30pm Social drink in central Utrecht

- **6pm** Dinner (independent)

- **End of day 2**

Tuesday 18th June

Motorways, Sustainable Safety, and the Hovenring, Eindhoven

- **8:30am – 9:30am** Short walking tour from Mary K Hotel to Bike Parking Facility (2 Mariaplaats)

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

- **9:45am – 10:30am** Dutch motorway strategy and demand management, Erik Verroen

- **10:30am – 10:45am** Refreshments

- **10:45am – 11:45am** Sustainable Safety: Understanding the Fundamentals of World's Best Practice Road Safety, Professor Fred Wegman

- **11:45am – 12:30pm** Panel discussion: Erik Verroen, Fred Wegman, and Hillie Talens

- **12:30pm – 1:15pm** Lunch (independent)

- **1:30pm** Meet back outside Bike Parking Facility (2 Mariaplaats)

- **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** Ride by bike to Hovenring

- **3:45pm – 4:15pm** Inspect Hovenring

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

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

- **6:15pm** Return bikes

- Depart Eindhoven to Utrecht by train

Option 1

- Depart at **6:17pm (Platform 6)**
- Arrive at **7:05pm**

Option 2

- Depart at **6:34pm (Platform 4)**
- Arrive at **7:21pm**

- Dinner (independent)

- **End of day 3**

Wednesday 19th June

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

- **8:15am** Leave Mary K Hotel - walk to electric vehicle charging facility

- **8:30am – 9:40am** Explanation of Utrecht's encouragement policies for electric vehicles

- **9:40am – 9:45am** Walk to Dutch Railways HQ, 100 Laan van Puntenburg, Utrecht

- **9:45am – 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

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

- **1:45pm** Meet at CROW Office (22 Jaarbeursplein, Utrecht)

- **1:45pm – 5:00pm** Dutch Street Innovation: combined presentation and street tour with Hillie Talens and Mark Wagenbuur

Optional

5:30pm – 6:30pm Drink, Louis Hartlooper Complex, 1 Ledig Erf Tolsteegbrug

- **End of day 4**



Gratis bewaakte stalling



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Program Overview

Thursday 20th June

Amsterdam: Best practice examples of innovative street re-design

 **8:15am** Depart Mary K Hotel by bike

- **8:30am** Short tour of world's largest bike parking facility (Utrecht Centraal Station)
- **8:55am** Train departs Utrecht Centraal (Platform 5) Intercity to Schiphol. Exit at Amsterdam Zuid Station
- **9:21am** Arrive Amsterdam Zuid Train Station
- **9:45am – 10:00am** Pick up hire bike at Het Zwarte Fietsplan (118 Gustav Mahlerplein)

 **10:10am – 10:45am** Ride to University of Amsterdam, led by Meredith Glaser

- **10:45am** Park in new bike parking facility at the University of Amsterdam
- **11:00am – 12:30pm** Myths of Dutch Cycling, lecture from Meredith Glaser. Lunch provided

 **12:45pm – 2:45pm** Tour of Amsterdam street innovation, led by Meredith Glaser. Ends in Vondel Park

- **2:45pm – 3:45pm** Free time at Vondel Park

 **3:45pm – 4:20pm** Ride to Entresol, 4 - 8 Voormalige Stadstimmertuin

- **4:30pm – 6:30pm** Policies, principles and practice of enhancing the streetscape, lessons from Amsterdam, led by Ruwan Aluvihare. Lecture at Entresol, 4 - 8 Voormalige Stadstimmertuin.

 Street tour follows lecture, including Ferdinand Bolstraat and Van Woustraat

- **6:30pm – 7:00pm** Return bikes
- **7:26pm** Depart (Platform 2) from Amsterdam Zuid and arrive at 7:48pm
- **End of day 5**

Friday 21st June

Field trip: Applying best practice transport planning principles to car-dependent cities

 **9:00am – 11:00am** Field trip led by Mark Wagenbuur, highlighting the application of sustainable safety and network design. Begins at Mary K Hotel

- **11:15am – 12:15pm** Translational practice: how to translate best practice into car-dependent cities. Led by Wijnand Veeneman and Fred Wegman at Mary K Hotel
- **12:15pm – 3:00pm** Lunch, free time (independent)
- **3:00pm – 3:30pm** Reflections on lessons learnt, led by Elliot Fishman at Mary K Hotel

 **3:30pm – 5:00pm** Translating the study tour experience and insights into practical outcomes in Australia, Mary K Hotel. Led by Meredith Glaser

- **5:00pm – 5:30pm** Break at Mary K Hotel

 **5:30pm – 6:00pm** Ride to group dinner, Restaurant Goestings, 150 Veeartsenijpad

- **6:00pm – 8:00pm** Group dinner

- **End of day 6**

End of study tour

Saturday 22nd June

Optional Side Trip: Tour of Groningen

Details of the Tour of Groningen are found on page 36



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 16th June

Welcome boat tour and dinner



An introduction to Dutch urban planning with Bert van Wee in a traditional canal boat

Today's Schedule:

- **11:00am – 12:00pm** Guests check into the Mary K Hotel in Utrecht

- **12:00pm – 1:00pm** Welcome at Mary K Hotel and introductory casual bike ride, Utrecht

- **2:30pm – 3:30pm** Getting the most out of your study tour

- **3:30pm – 4:00pm** Ride to boat tour from Mary K Hotel to 2 Oosterkade (Sloep Huren Utrecht)

- **4:00pm – 5:30pm** Boat trip featuring guest speaker Bert van Wee on history of Dutch planning

- **5:30pm** Guests ride to dinner

- **6:00pm – 8:00pm** Dinner at Restaurant Blauw (64 Springweg, Utrecht)

- **End of day 1**

Monday 17th June

Introduction to Dutch planning: theory and practice



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

Today's Schedule:

- **8:30am – 9:00am** Overview of Tour, Mary K Hotel

9:15am Depart Mary K Hotel with bikes to
Academic Building, Dom Square, University of
Utrecht

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- **9:30am** Arrive at Academic Building, University of Utrecht.

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- **9:30am – 11:30am** Professor Bert van Wee on Dutch Planning: An Overview of Principles, Practice and Road User Pricing, Academic Building

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- **11:30am – 11:45am** Light refreshments

-
- **11:45am – 12:45pm** Vice Mayor Lot van Hooijdonk on Cutting Edge Transport Innovation: The Case of Utrecht

-
- **12:45pm - 1:30pm** Lunch (independent)

-
- **1:30pm - 2:45pm** Panel discussion with Bert van Wee, Lot van Hooijdonk, and Wijnand Veeneman

2:45pm – 3:25pm Ride from Academic Building to
Leidsche Rijn residential development, led by Jeen
Kootstra and Karin van de Weele

3:30pm – 4:30pm Bike tour of Leidsche Rijn

Optional

5:00pm – 5:30pm Social drink in central Utrecht

-
- **6pm** Dinner (independent)

-
- **End of day 2**

Topics

- Introduction to Utrecht
- Overview of Dutch transport and land use planning
- Road user pricing
- Sustainable greenfield development: the case of Leidsche Rijn
- The politics of transport planning

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=XuBdf9jy7o>
- 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>

Tuesday 18th June

Motorways, Sustainable Safety, and the Hovenring, Eindhoven

Today's Schedule:

- **8:30am – 9:30am** Short walking tour from Mary K Hotel to Bike Parking Facility (2 Mariaplaats)

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

- **9:45am – 10:30am** Dutch motorway strategy and demand management, Erik Verroen

- **10:30am – 10:45am** Refreshments

- **10:45am – 11:45am** Sustainable Safety: Understanding the Fundamentals of World's Best Practice Road Safety, Professor Fred Wegman

- **11:45am – 12:30pm** Panel discussion: Erik Verroen, Fred Wegman, and Hillie Talens

- **12:30pm – 1:15pm** Lunch (independent)

- **1:30pm** Meet back outside Bike Parking Facility (2 Mariaplaats)

- **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** Ride by bike to Hovenring

- **3:45pm – 4:15pm** Inspect Hovenring

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

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

- **6:15pm** Return bikes

- Depart Eindhoven to Utrecht by train

- **Option 1**
 - Depart at **6:17pm (Platform 6)**
 - Arrive at **7:05pm**

- **Option 2**
 - Depart at **6:34pm (Platform 4)**
 - Arrive at **7:21pm**

- Dinner (independent)

- **End of day 3**

Topics

- Dutch national policy in motorway development and management
- Sustainable Safety: best practice transport safety
- Innovation in Dutch infrastructure: Case Study of the Hovenring (Eindhoven)

Readings

- The Institute for Road Safety Research, 2013. SWOV Fact Sheet <https://www.swov.nl/sites/default/files/publicaties/gearchiveerde-factsheet/uk/fs_sustainable_safety_principles_archived.pdf>
- Wegman, F., 2017. The future of road safety: A worldwide perspective. *IATSS research*, 40(2), pp.66-71.
- Weijermars, W. and Wegman, F., 2011. Ten years of sustainable safety in the Netherlands: an assessment. *Transportation Research Record*, 2213(1), pp.1-8.
- Schepers, P., Twisk, D., Fishman, E., Fyhri, A. and Jensen, A., 2017. The Dutch road to a high level of cycling safety. *Safety science*, 92, pp.264-273.
- Schepers, P., Heinen, E., Methorst, R. and Wegman, F., 2013. Road safety and bicycle usage impacts of unbundling vehicular and cycle traffic in Dutch urban networks. *European Journal of Transport and Infrastructure Research*, 13(3).



The world famous elevated Hovenring, separating bike riders from the cars below.

Wednesday 19th 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:

- **8:15am** Leave Mary K Hotel - walk to electric vehicle charging facility

- **8:30am – 9:40am** Explanation of Utrecht's encouragement policies for electric vehicles

- **9:40am – 9:45am** Walk to Dutch Railways HQ, 100 Laan van Puntenburg, Utrecht

- **9:45am – 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

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

- **1:45pm** Meet at CROW Office (22 Jaarbeursplein, Utrecht)

- **1:45pm – 5:00pm** Dutch Street Innovation: combined presentation and street tour with Hillie Talens and Mark Wagenbuur

Optional

5:30pm – 6:30pm Drink, Louis Hartlooper Complex, 1 Ledig Erf Tolsteegbrug

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

- Amsterdam City Council 2016, *Plan Amsterdam: The Electric City* <https://issuu.com/gemeenteamsterdam/docs/plan_amsterdam_the_electric_city>
- Fyhri, A., Heinen, E., Fearnley, N. and Sundfør, H.B., 2017. 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*, 11(9), pp.681-695.
- Parliament of Australia 2019, *Senate Select Committee on Electric Vehicles Report*. <<https://apo.org.au/node/217396>>
- ClimateWorks Australia, 2018, *The state of electric vehicles in Australia*. <https://www.climateworksaustralia.org/sites/default/files/documents/publications/climateworks_australia_state_of_electric_vehicles2_june_2018.pdf>

Thursday 20th June

Amsterdam: Best practice examples of innovative street re-design

Today's Schedule:

 **8:15am** Depart Mary K Hotel by bike

- **8:30am** Short tour of world's largest bike parking facility (Utrecht Centraal Station)

- **8:55am** Train departs Utrecht Centraal (Platform 5) Intercity to Schiphol. Exit at Amsterdam Zuid Station

- **9:21am** Arrive Amsterdam Zuid Train Station

- **9:45am – 10:00am** Pick up hire bike at Het Zwarte Fietsplan (118 Gustav Mahlerplein)

 **10:10am – 10:45am** Ride to University of Amsterdam, led by Meredith Glaser

- **10:45am** Park in new bike parking facility at the University of Amsterdam

- **11:00am – 12:30pm** Myths of Dutch Cycling, lecture from Meredith Glaser. Lunch provided

 **12:45pm – 2:45pm** Tour of Amsterdam street innovation, led by Meredith Glaser. Ends in Vondel Park

- **2:45pm – 3:45pm** Free time at Vondel Park

 **3:45pm – 4:20pm** Ride to Entresol, 4 - 8 Voormalige Stadstimmertuin

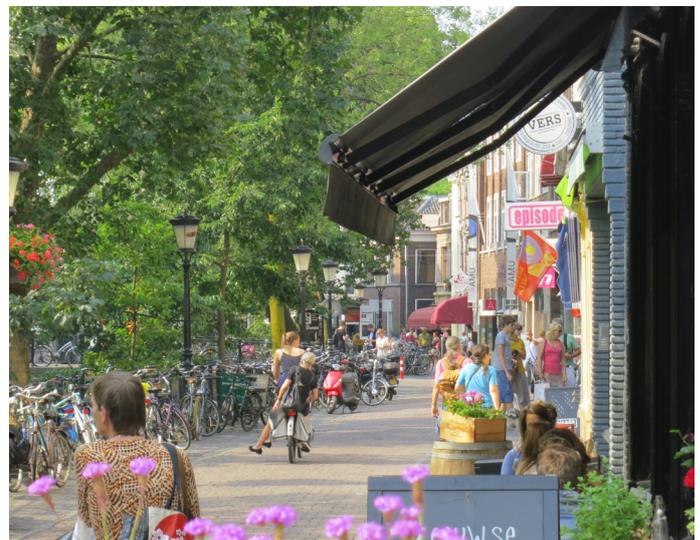
- **4:30pm – 6:30pm** Policies, principles and practice of enhancing the streetscape, lessons from Amsterdam, led by Ruwan Aluvihare. Lecture at Entresol, 4 - 8 Voormalige Stadstimmertuin.

 Street tour follows lecture, including Ferdinand Bolstraat and Van Woustraat

- **6:30pm – 7:00pm** Return bikes

- **7:26pm** Depart (Platform 2) from Amsterdam Zuid and arrive at 7:48pm

- **End of day 5**



The Oudegracht (Old Canal) is an excellent example of a street being a destination and a human-scale thoroughfare

Topics

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

Readings/Videos

- City of Amsterdam, 2014. *Amsterdam Plan: Cycling policy and design*.
- Glaser, M 2017, 'What happens if you turn off the traffic lights?', *The Guardian*, 15 September 2017 <<https://www.theguardian.com/environment/bike-blog/2017/sep/22/what-happens-if-you-turn-off-the-traffic-lights>>

Friday 21st June

Field trip: Applying best practice transport planning principles to car-dependent cities



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

Today's Schedule:

9:00am – 11:00am Field trip led by Mark Wagenbuur, highlighting the application of sustainable safety and network design. Begins at Mary K Hotel

• **11:15am – 12:15pm** Translational practice: how to translate best practice into car-dependent cities. Led by Wijnand Veeneman and Fred Wegman at Mary K Hotel

• **12:15pm – 3:00pm** Lunch, free time (independent)

• **3:00pm – 3:30pm** Reflections on lessons learned, led by Elliot Fishman at Mary K Hotel

• **3:30pm – 5:00pm** Translating the study tour experience and insights into practical outcomes in Australia, Mary K Hotel. Led by Meredith Glaser

• **5:00pm – 5:30pm** Break at Mary K Hotel

• **5:30pm – 6:00pm** Ride to group dinner, Restaurant Goestings, 150 Veeartsenijpad

• **6:00pm – 8:00pm** Group dinner

• **End of day 6**

End of study tour

Topics

- Safe Systems street design
- Implementation of sustainable transport projects
- Translating best practice transport planning into the Australian context
- Reflecting on lessons learned: understanding how to bring your experiences to life

Saturday 22nd June

Tour of Groningen (Optional)



Groningen is a picturesque city in the north of the Netherlands

Groningen is widely considered the world's most bike 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 vehicle traffic in city centres by requiring them leave using the same route they arrived. Since the introduction of this and many other traffic calming measures, Groningen now has the highest bike 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 bike tour of some of the initiatives that have made Groningen one of the leading cities in sustainable mobility.

Participants will need to add € 26.00 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 22nd June, to avoid any unexpected delays.

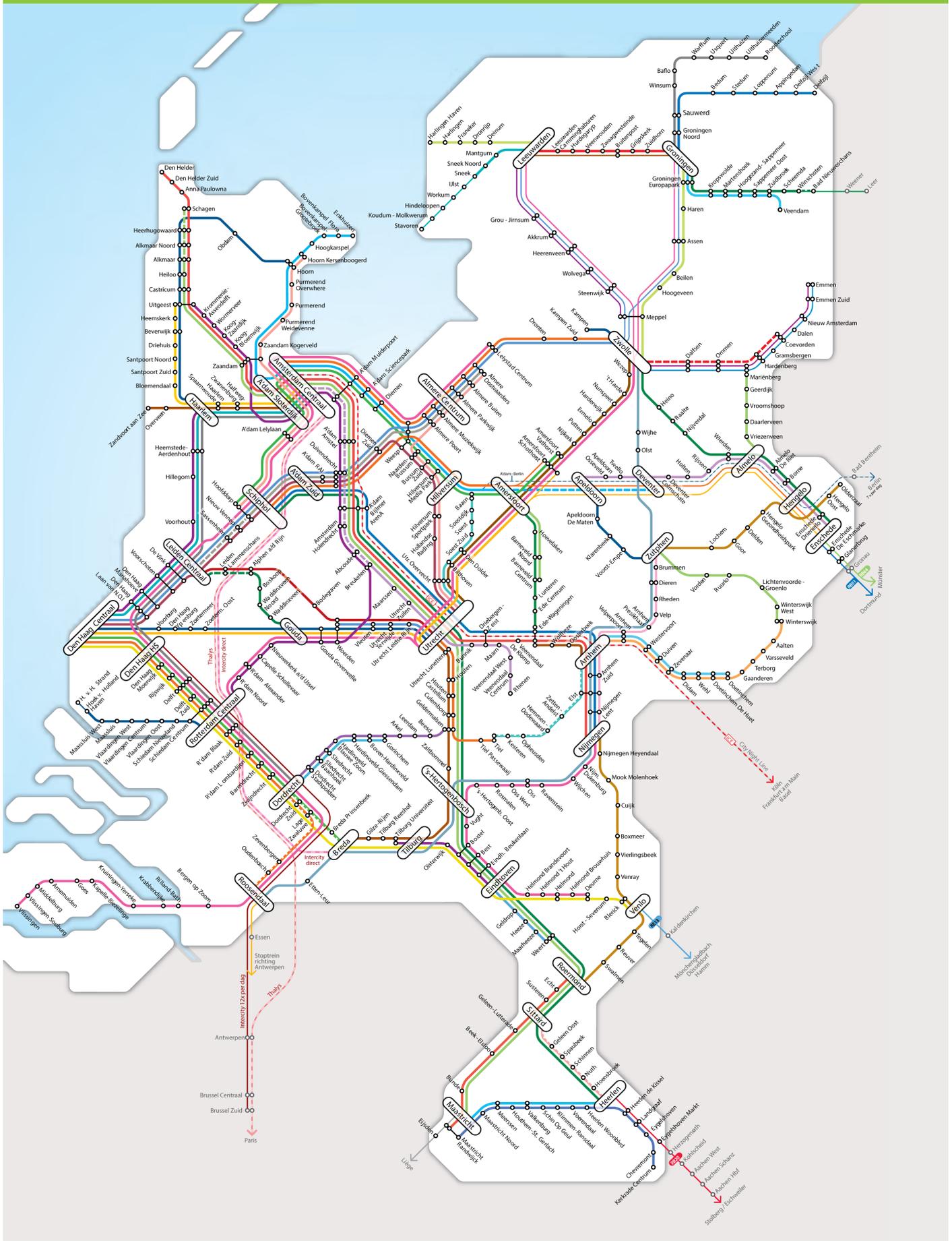
Those participating in this side tour will meet at the Mary K Hotel at **8:30am**, walk to Utrecht Centraal Station to board the **8:49am** Intercity train to Groningen (Platform 12). This train arrives in Groningen at **10:42am**.

We will hire bikes 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.

Dutch Rail Network



Institute for Sensible Transport
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www.sensibletransport.org.au

