METREX ‘FROM ROADS TO STREETS’ EXPERT GROUP KICK OFF, MARCH 30, 2020

REINVENTING URBAN HIGHWAYS. LEARNING FROM EXPERIENCE

Paul Lecroart, Senior Urbanist

L’Institut Paris Region, The Planning Agency for the Paris Metropolitan Region





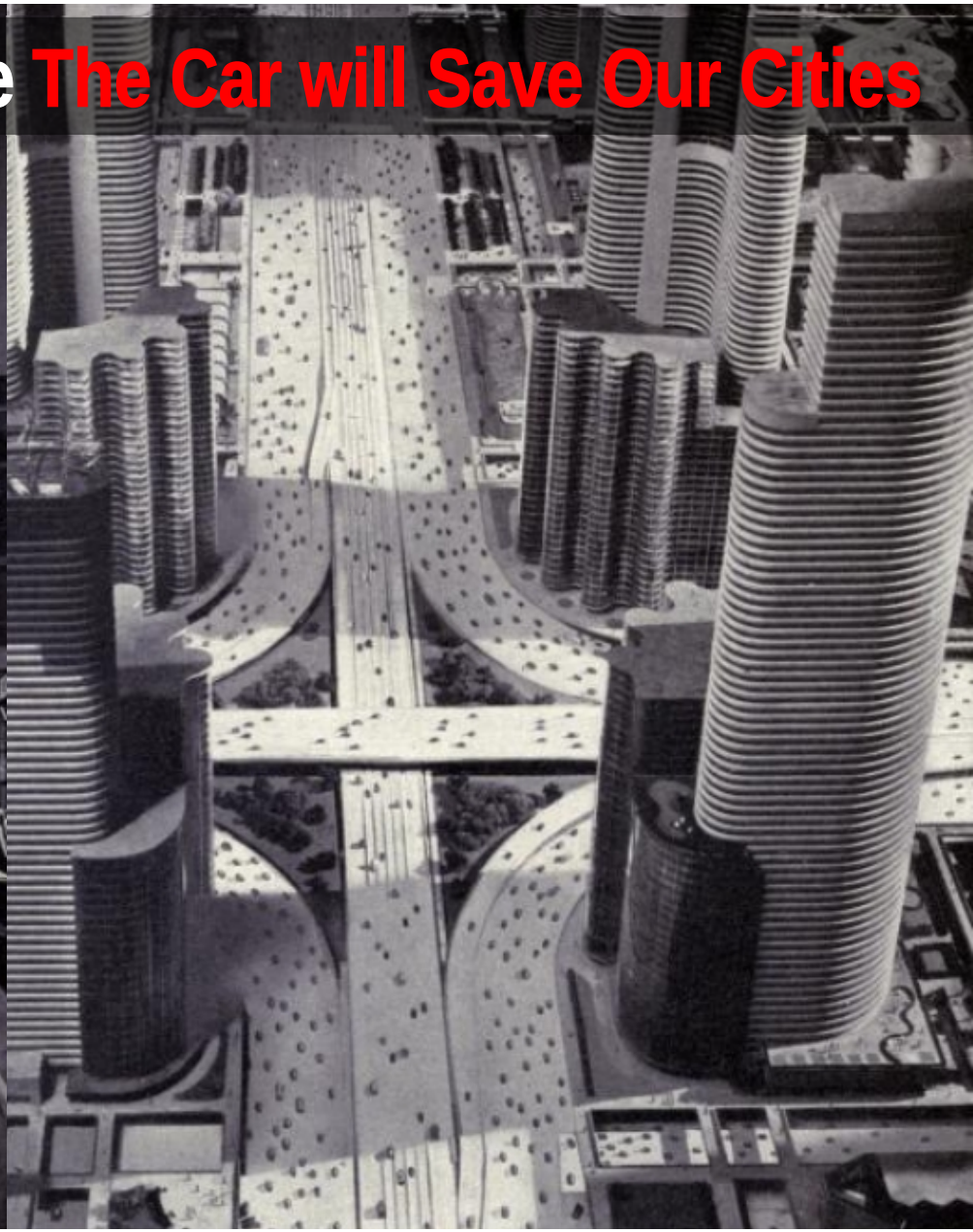
Photos © Paul Lecroart Institut Paris Region

REINVENTING URBAN HIGHWAYS. LEARNING FROM EXPERIENCE

- The 20th Century Narrative: Adapt the City the Car
- International Highway to Boulevard Case Studies
- Experiences and Reflections in Europe
- Sharing Lessons
- EUROCITIES/METREX Exchange Platform
- Discussion

The American 20th Century Promisse The Car will Save Our Cities

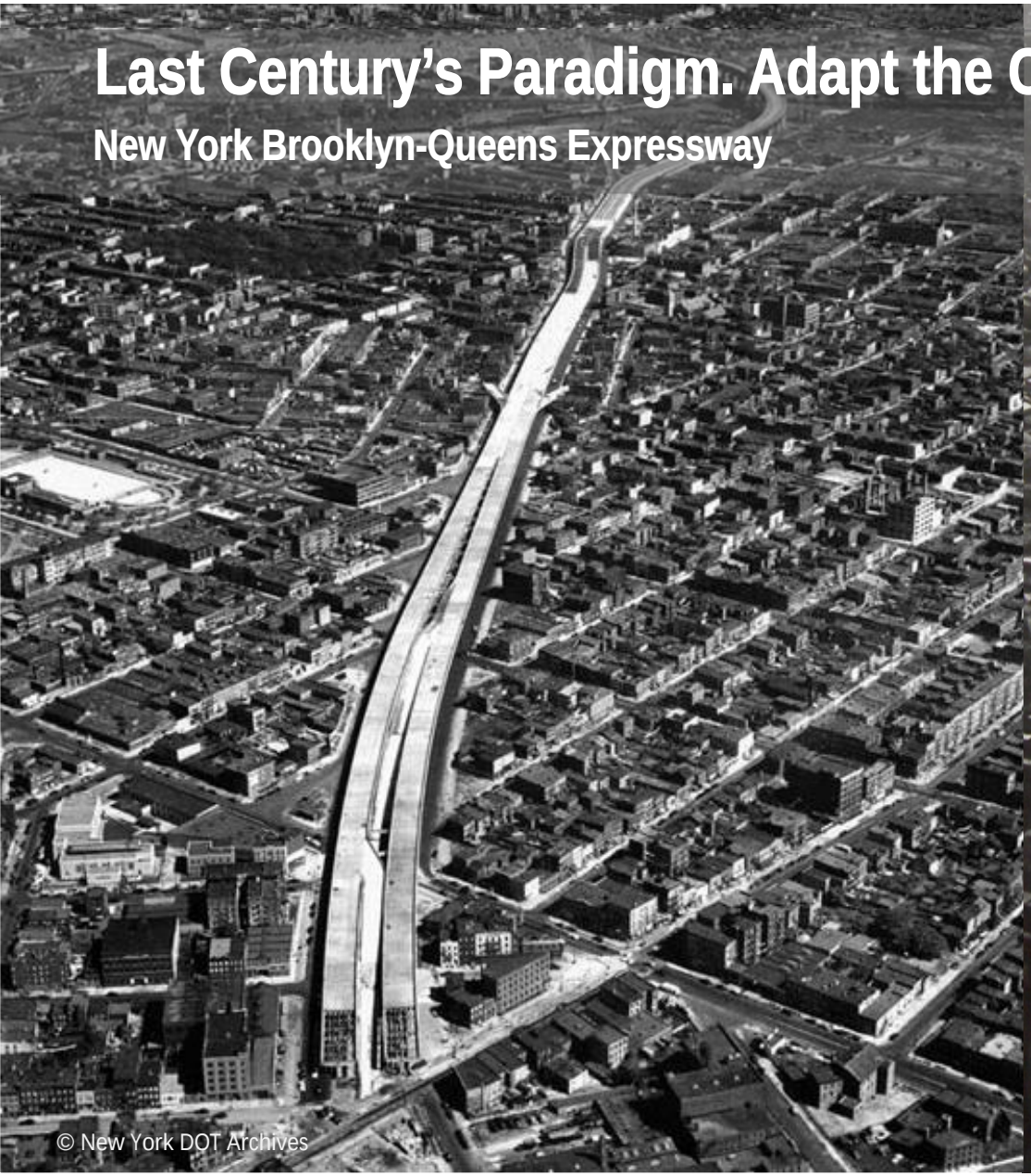




Futurama World Fair, New York 1939
Sponsor : General Motors

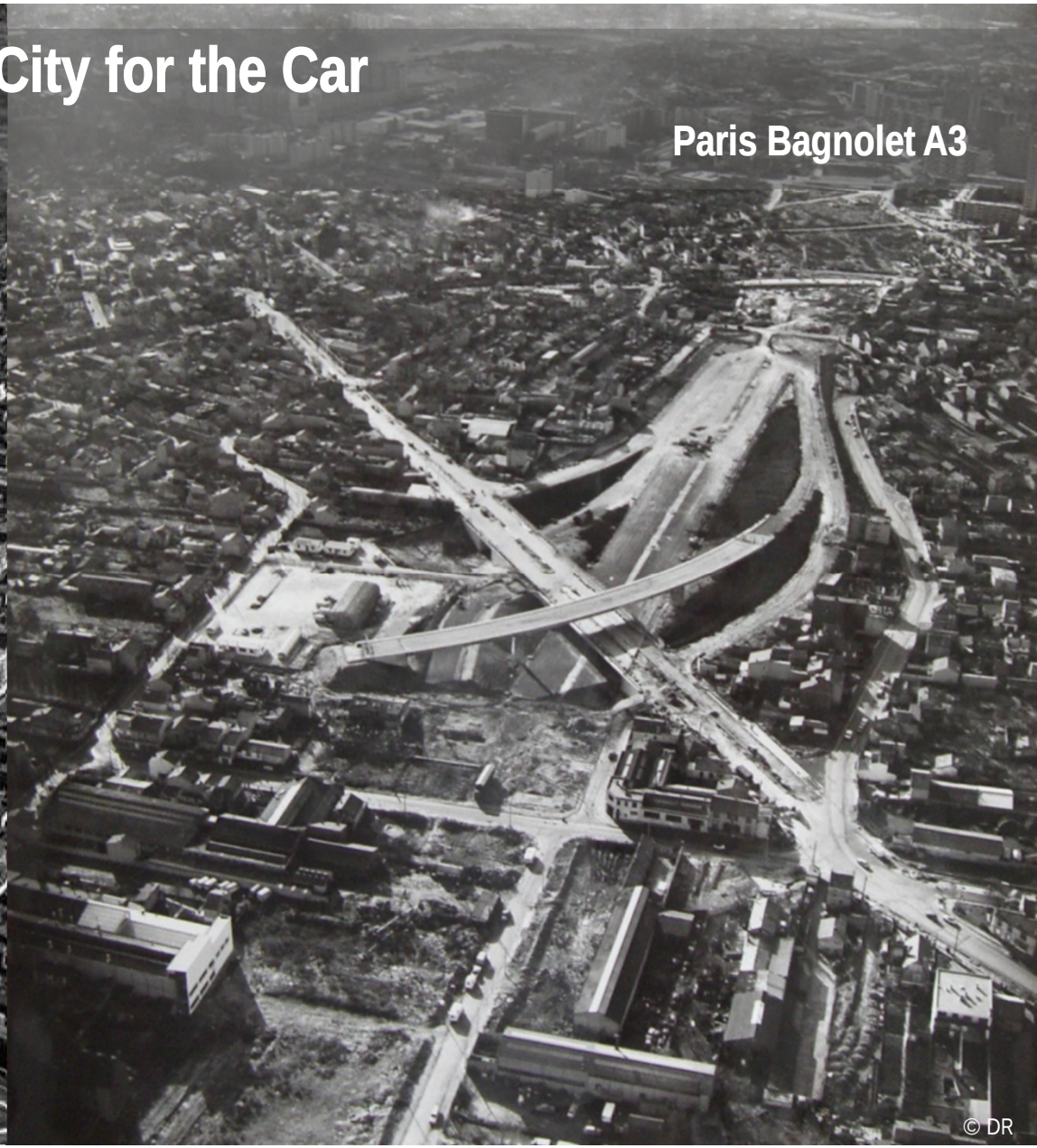
© Norman Bell Geddes - Magic Motorways, published 1940

Last Century's Paradigm. Adapt the City for the Car



New York Brooklyn-Queens Expressway

© New York DOT Archives



Paris Bagnolet A3

© DR

Design a New City for a New Man. Traffic Segregation



© Kenneth Browne / Buchanan Report 1961

Fonctional Segregation. Zoning



Paris, Orly-Rungis A86

© DRIEA / Gobry

Traffic Simulation Models Imported from the US

Massive Highway Invesments



Projet pour rocades de banlieue 1964 © DR-SARA



« Traffic simulation modelling is designed for massive road capital investment.

The size of traffic zones allows to eliminate walking a marginal travel mode.

All in all, new roads induce new traffic »

French Researcher, Gabriel Dupuy, 1975

Thesis, Paris-X University

Urban Sprawl



Paris, Marne-la-Vallée

© EPAMARNE

Negative Externalities



Paris, Bondy A 86

© Paul Lecroart Institut Paris Region

Highways as Barriers



Paris 1st Ring Highway Péripherique

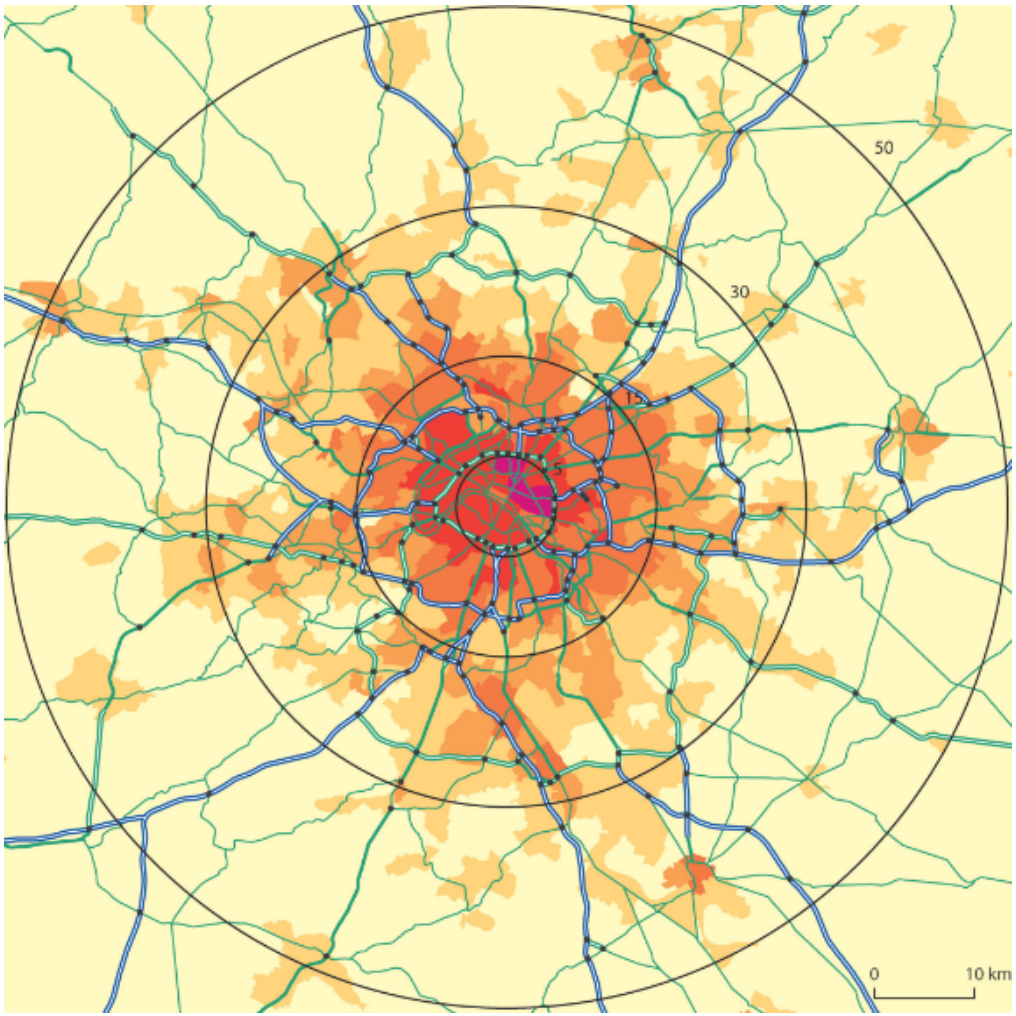
© Paul Lecroart Institut Paris Region

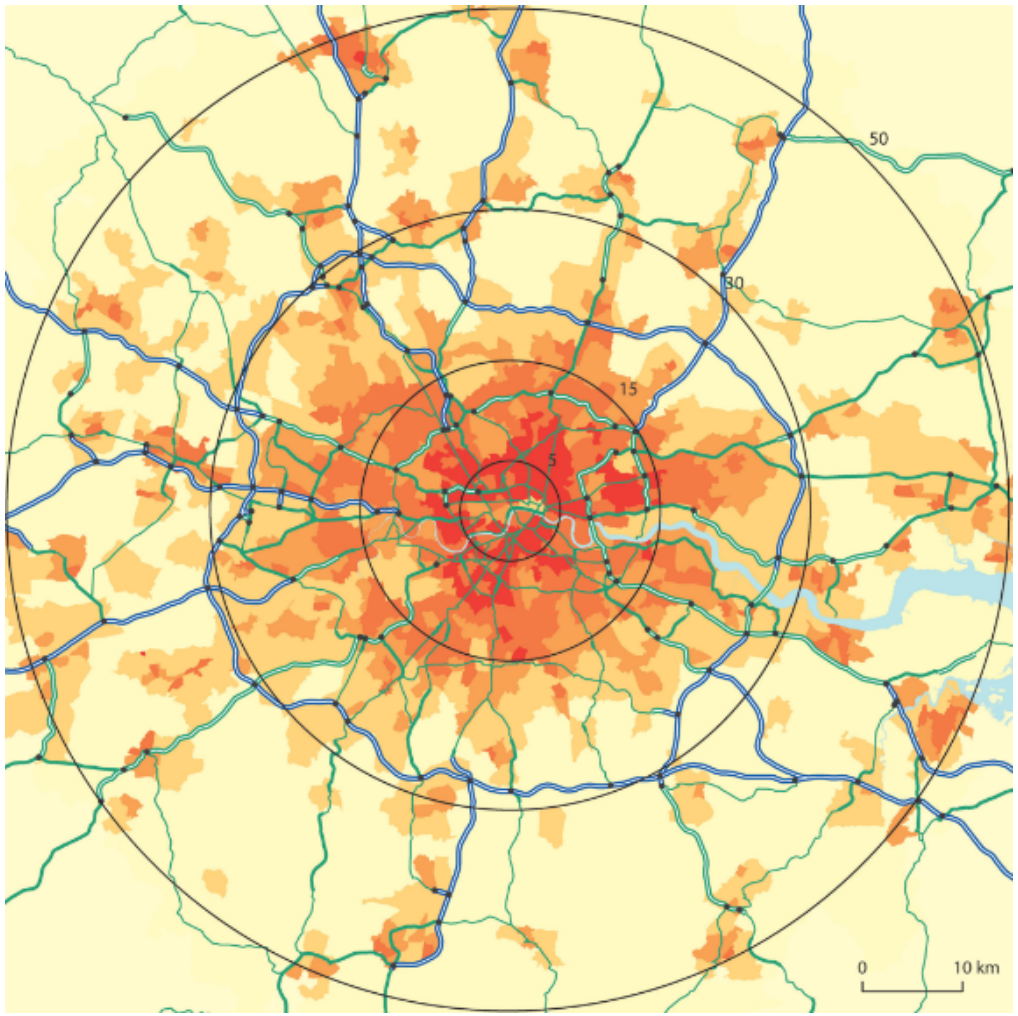


Paris 2nd Ring Highway A86

© DREIF

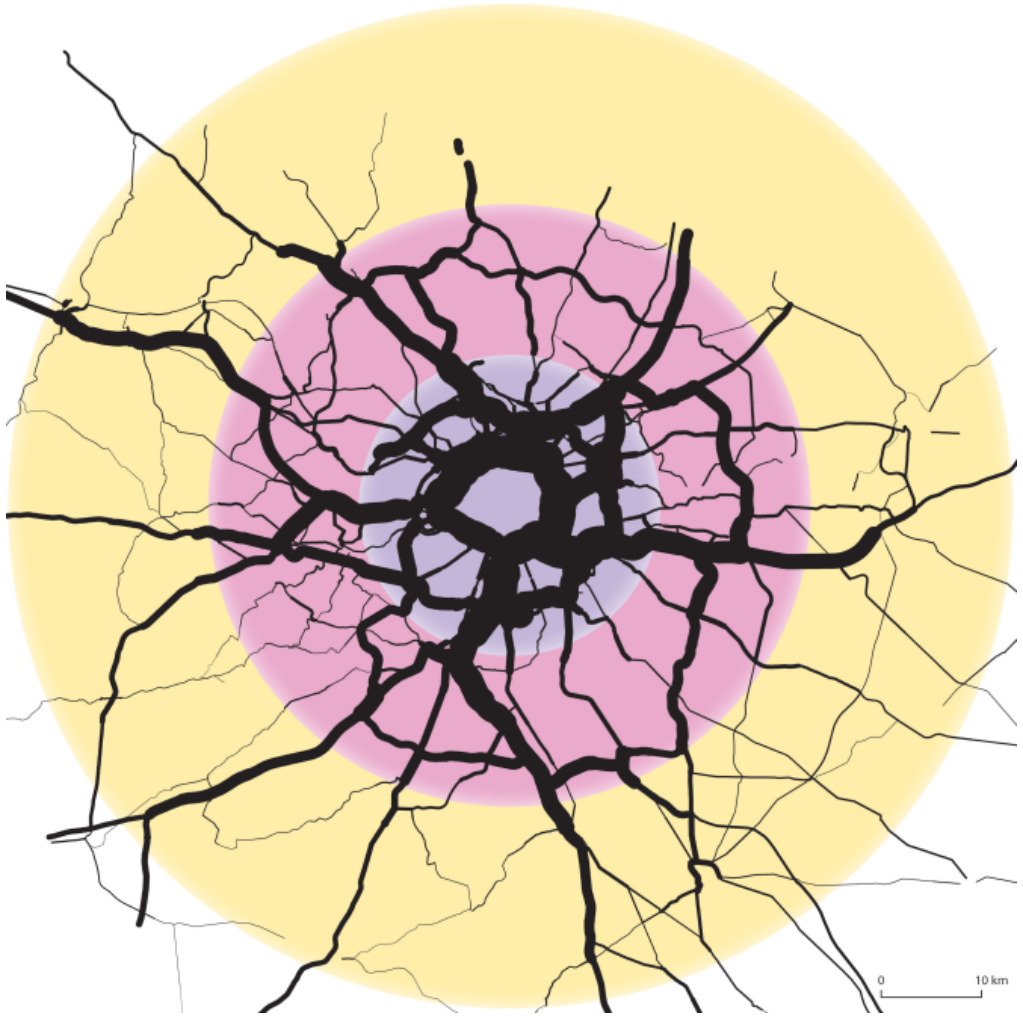
Too Many Highways in our Cities? Comparing Paris & London Regions

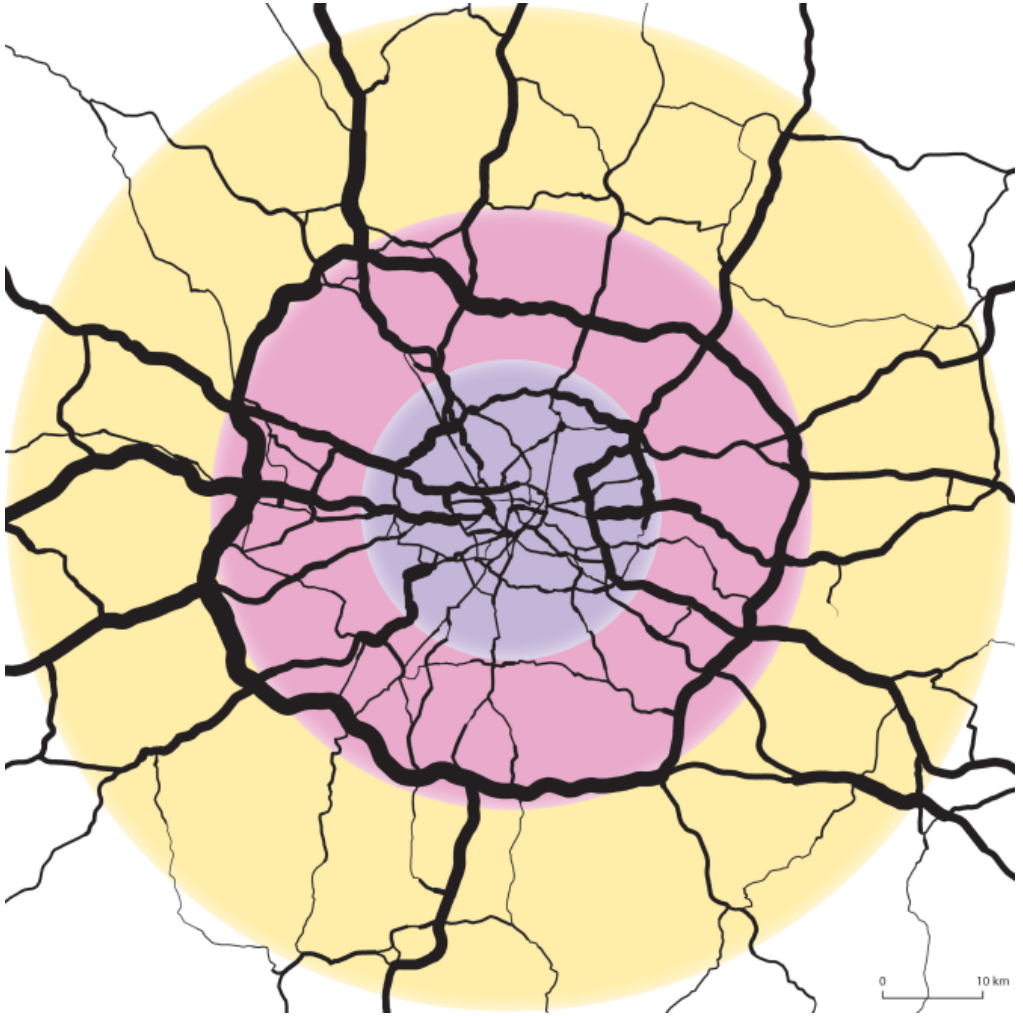




P-L.Certonze ENSG/Univ. Paris-I IAU 2013

Paris / London Regions. Road Network and Car Traffic (2012)

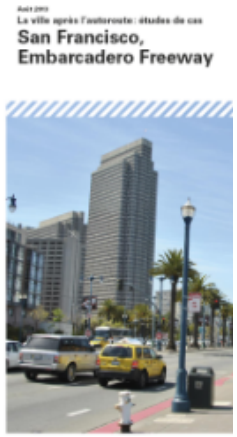




P-L.Certonze ENSG/Univ. Paris-I IAU 2013

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Highway-to-Boulevard
International Case Studies







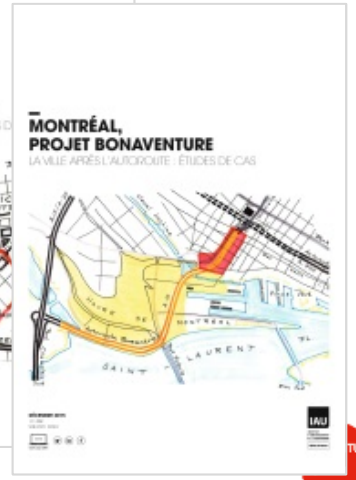




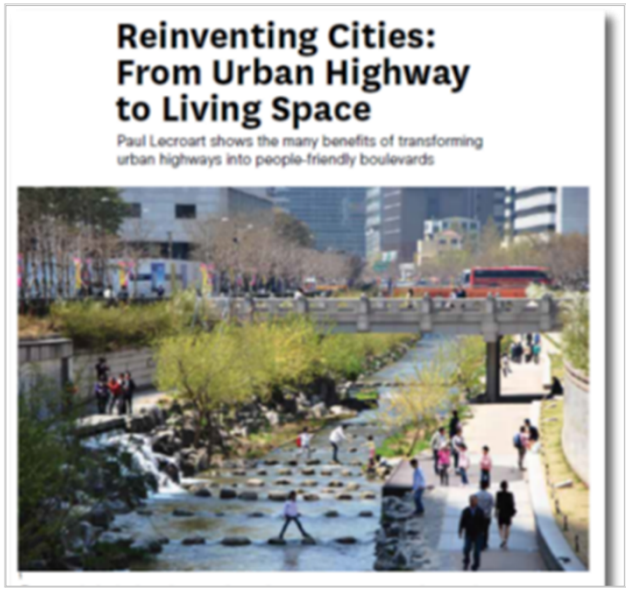












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New York West Side

1970s’



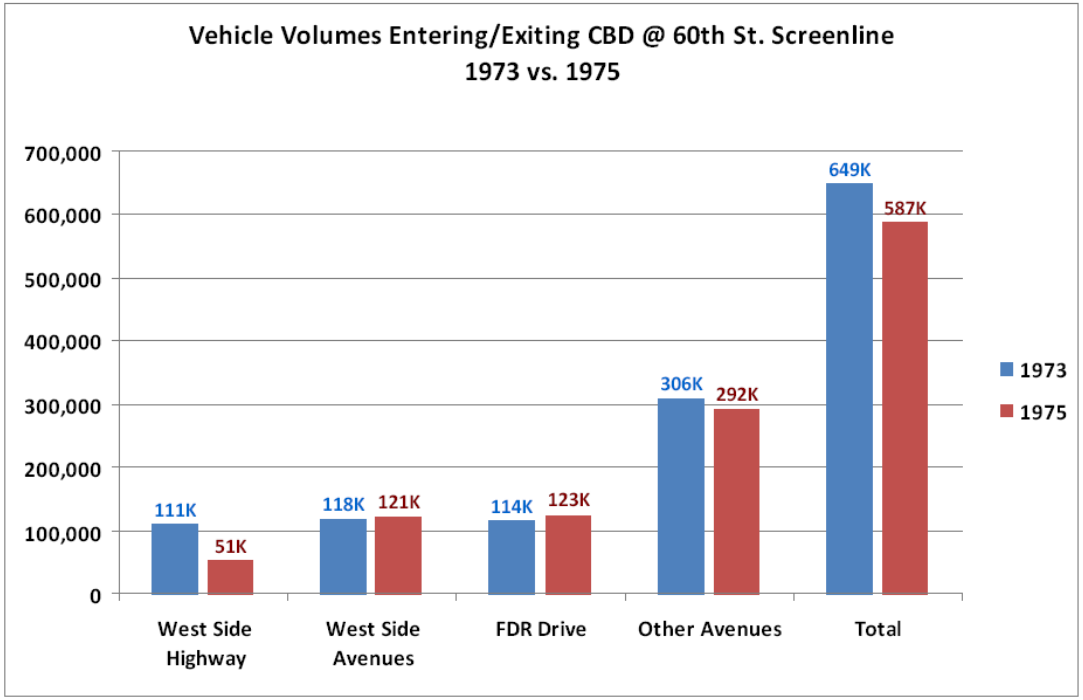
© Jodicke

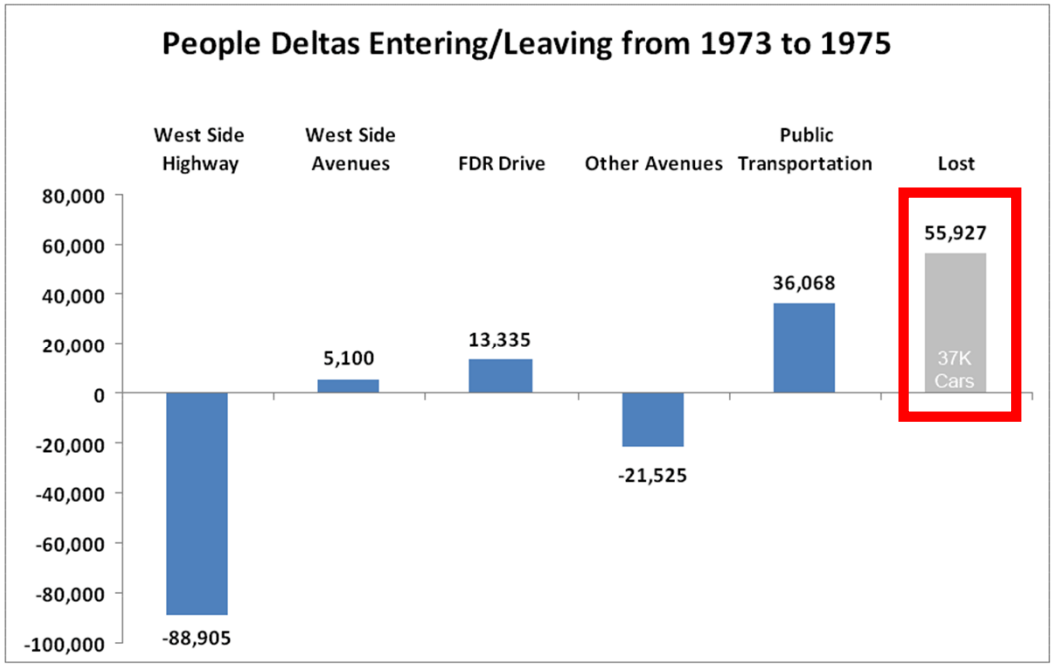


© New York City DOT Archives

New York West Side

WHAT HAPPENED TO THE TRAFFIC?





Note: The number of people entering /exiting CBD increased by 25,000 people 1973 vs. 1975

© Courtesy of Sam Schwartz



© Paul Lecroart Institut Paris Region

New York West Side Street / 11th Street

2011



© Paul Lecroart Institut Paris Region

New York West Side Hudson River Park

Today



© Paul Lecroart Institut Paris Region

Seoul

Cheonggyecheon

Before 2003



© DR

© Seoul Metropolitan Government

Seoul Cheonggyecheon. After 2005



© Paul Lecroart Institut Paris Region


Seoul Cheonggyecheon. Today
© Paul Lecroart Institut Paris Region

Seoul Cheonggyecheon. Comprehensive Transport Demand Managment



© Paul Lecroart Institut Paris Region

Seoul Cheonggyecheon. Before / After



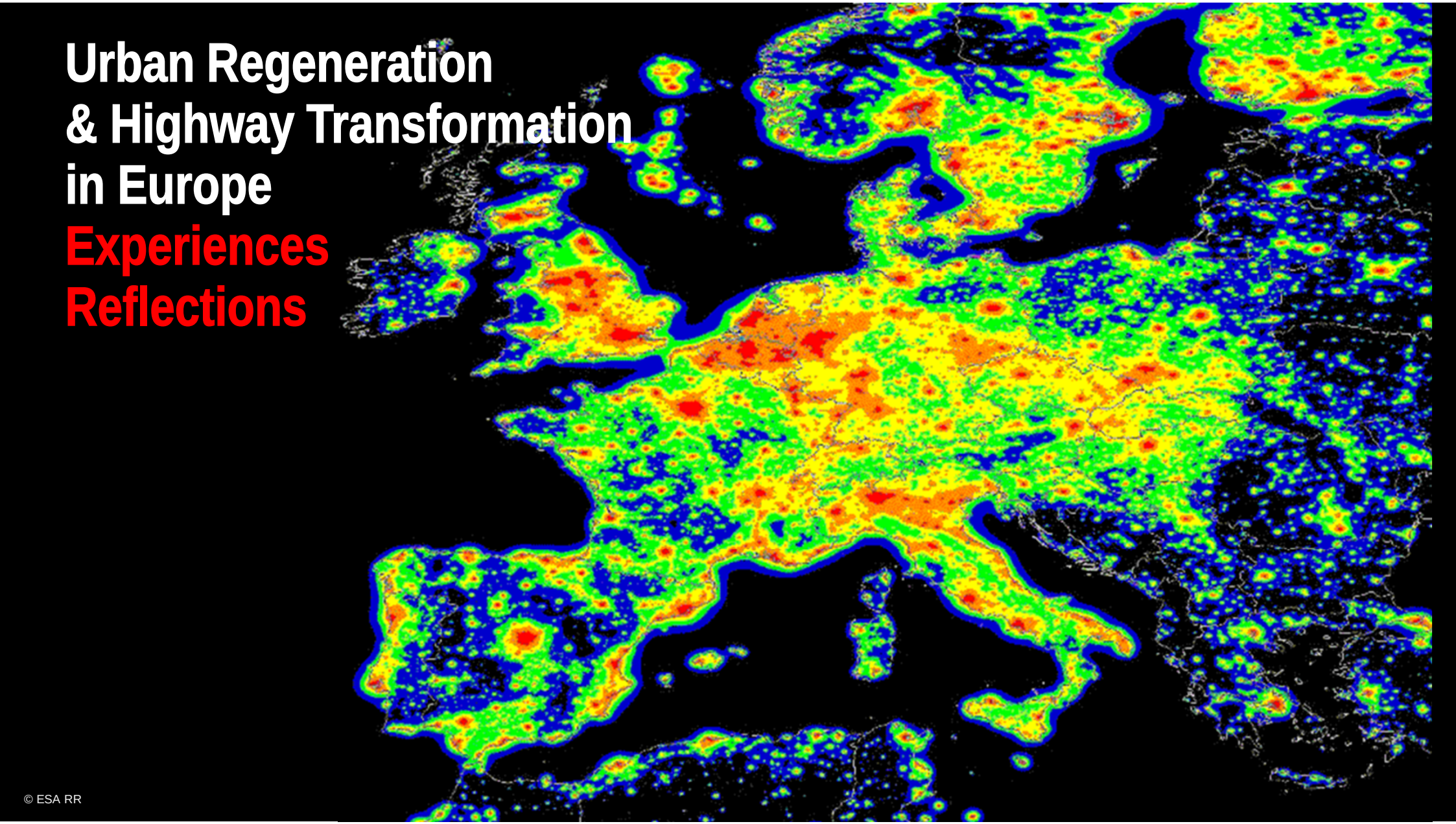
© Seoul Metropolitan Government



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Urban Regeneration & Highway Transformation in Europe

Experiences Reflections



© ESA RR

Birmingham Breaking the Concrete Collar 1988-2025





© City of Birmingham

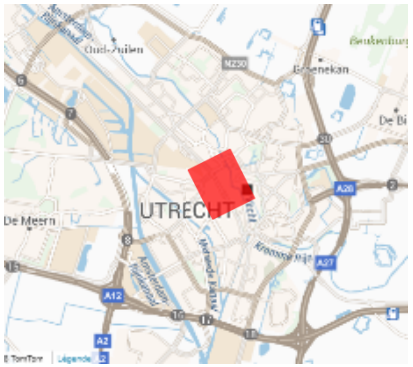
Masshouse Circus (2002) | East Side Regeneration (2013)



© Paul Lecroart Institut Paris Region

Utrecht From Canal to Ring Road to Canal 1997-2020







© Paul Lecroart Institut Paris Region

City Ring (2008)



Catharijnesingel Project (2020)

Nantes A 801 Highway to Busway Intensification

2000-2008+



© Paul Lecroart IAU

Lyon A43 Highway to Boulevard Regeneration 2010-2012+





© Gauthier Conquet

Paris Montreuil A186

Tramway Boulevard 2009-2023







Photos © Paul Lecroart Institut Paris Region



Paris River Banks Expressway Pedestrianisation 2012-2019





© Ville de Paris

Photos © Paul Lecroart Institut Paris Region

© Paul Lecroart IAU



International Ideas Competition

The Future of Paris Region's Highways 2018-2020+

- **19 Partners, 4 Teams, 4 Topics, 13 Exhibitions**
- **Regional Strategic Conference**
- **Workshops on the Future of Périphérique**

© Forum Métropolitain du Grand Paris

Reflections *The Future of Paris Region' Highways*

GRAND PARIS
LES ROUTES DU FUTUR

Visualisation

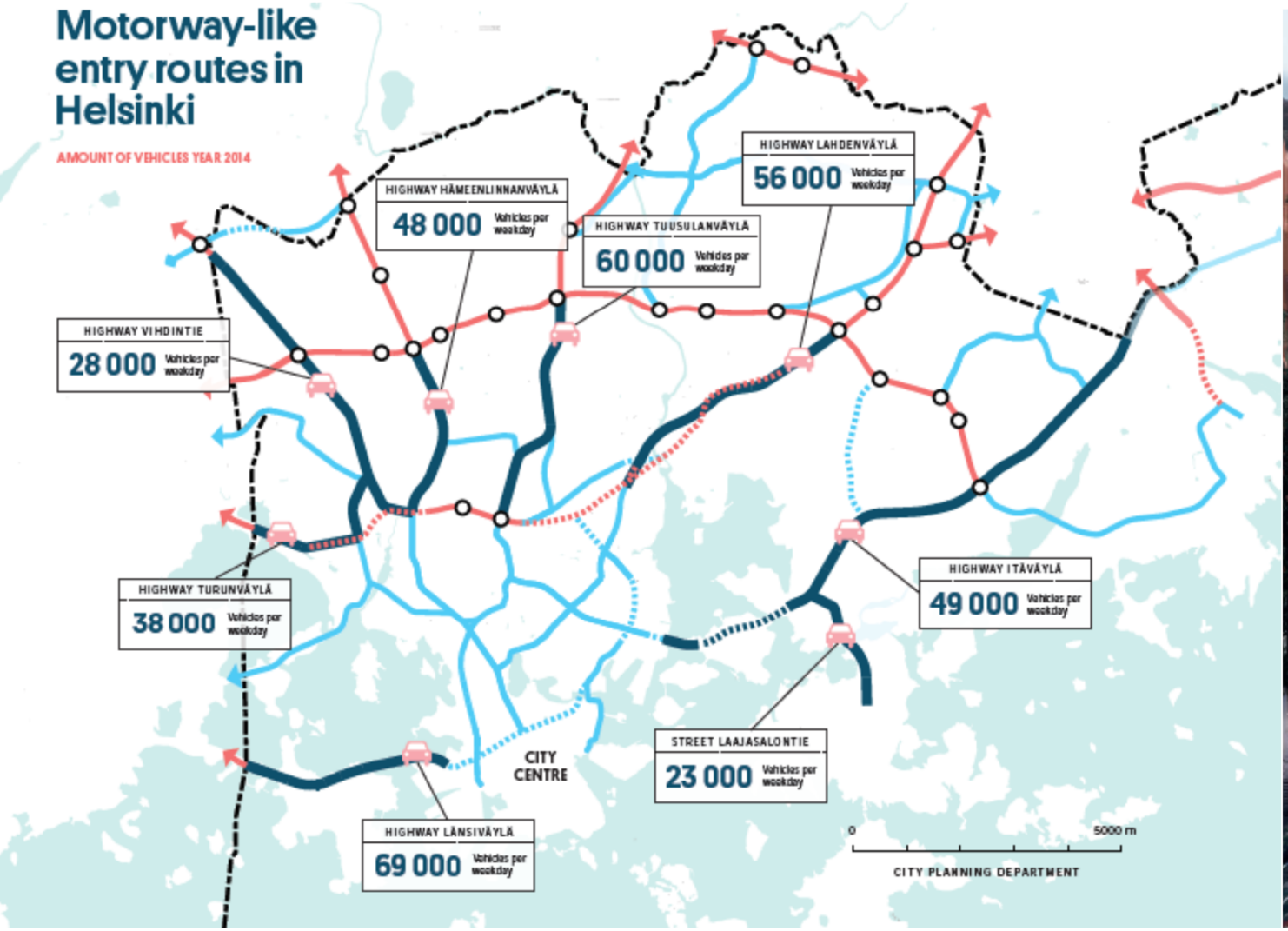
A15 before/after





© Holos - Richez

Reflections Helsinki City Boulevard Strategy (2016)





Reflections Oslo Hovinbyen, Vision for the future of Østre Aker Vei



© Paul Lecroart Institut Paris Region


© De Gayardon bureau

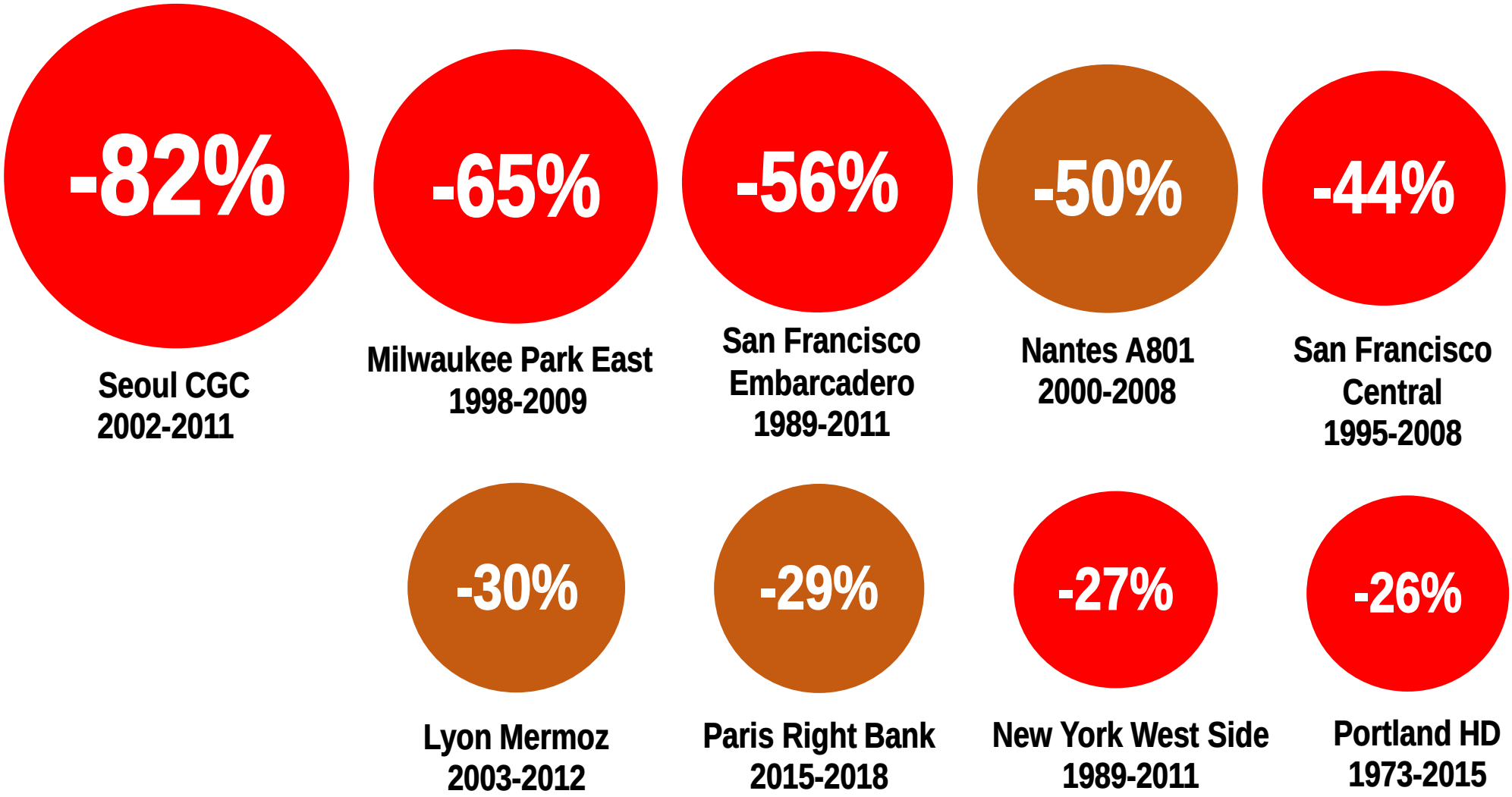


Sharing Lessons



© Paul Lecroart Institut Paris Region

Lesson #1. Traffic Evaporation & Traffic Diversion



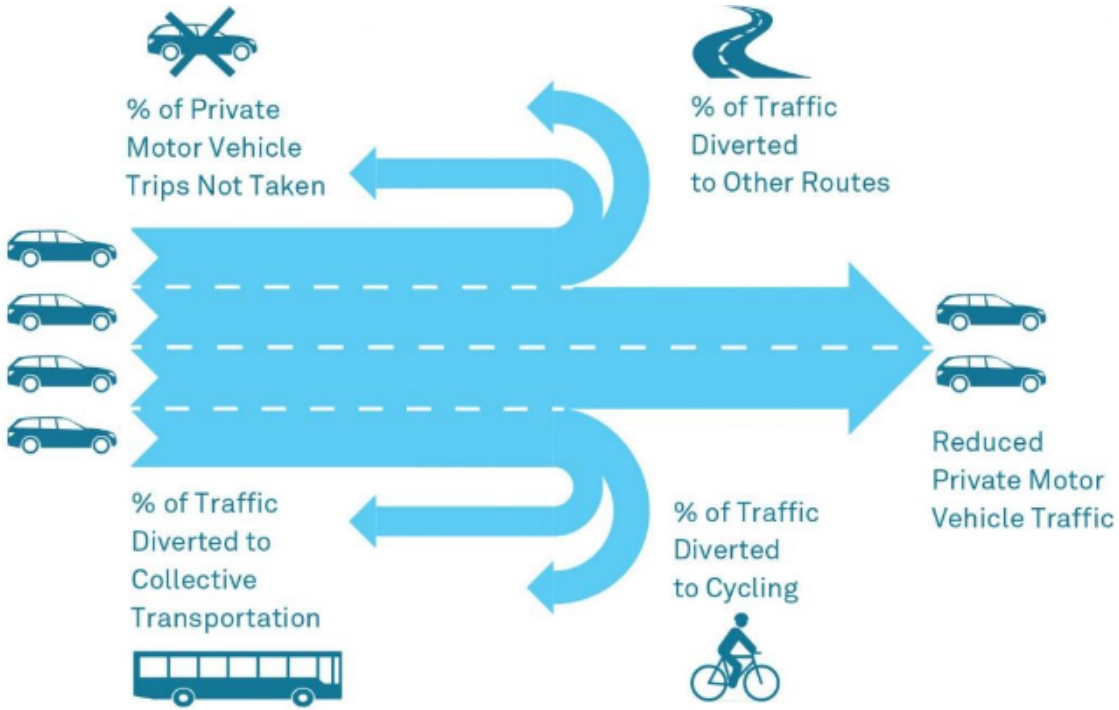
SDI Seoul/CM-DOT/Auran/SFCounty/Caltrans/CEREMA/Sam Schwartz/NYCDOT/City Portland © Paul Lecroart IAU

Lesson #1. Traffic Evaporation. Change of Travel Behaviour

Disapearing Traffic. Patterns of Change

Cairns, Goodwin & al. Traffic Impact of Highway Capacity Reduction: Assessment of the Evidence, DETR 1998.
Cairns, Goodwin & al. Diisapearing Taffic: The Story So Far, 2002

- Other Route
- Other Moment
- Travel Mode Shift
- Car-Sharing
- Activity Programme/Organisation
- Less Trips
- Work at Home, Shop Locally
- Re-Localisation of Home/Job
- Combinations of…



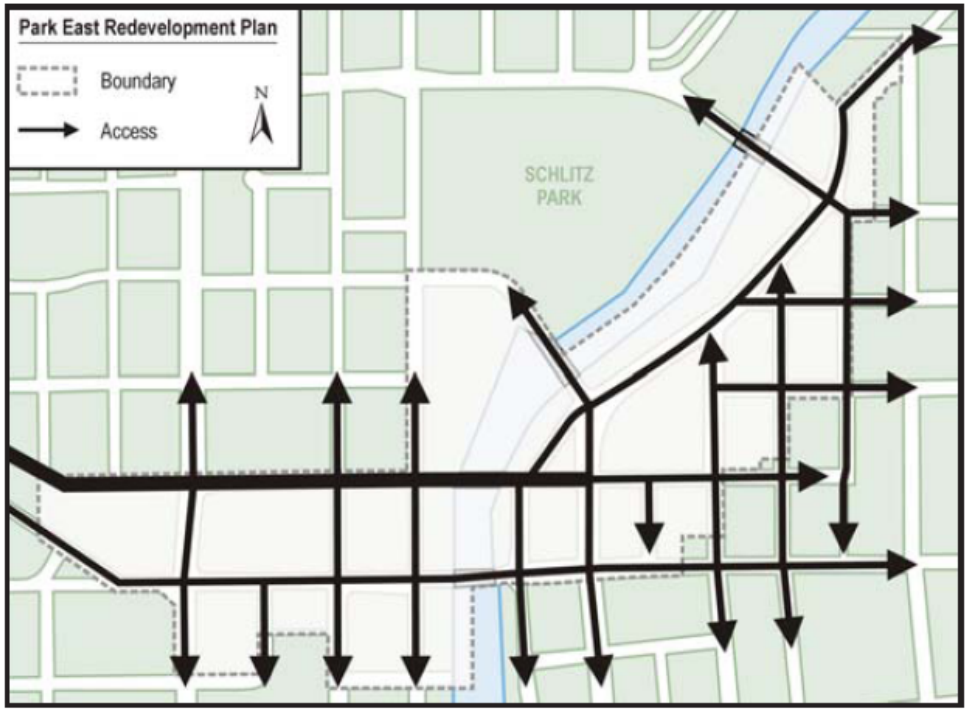
Traffic Evaporation. Research shows that when road capacity is shifted to other modes, some peak-period traffic disappears from the network. Drivers shift to other modes, make trips at other times, or shift destinations.

Lesson #2 Reconnecting Opens New Possibilities

More legibility, less detours, lower speeds, less noise = value creation

Milwaukee, Park East Corridor





© City of Milwaukee

Lesson #2 Reconnecting Opens New Possibilities

Walking and Cycling



Photos © Paul Lecroart IAU

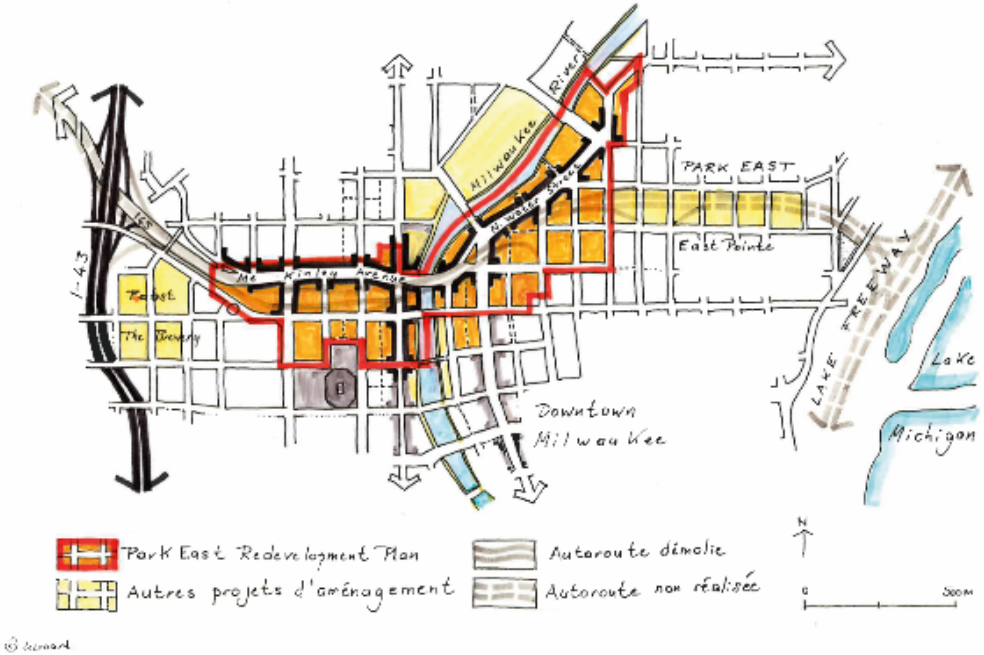
San Francisco, Embarcadero



New York, West Side

Lesson #3 Urban Regeneration Combined to Road Change (or vice-versa)

- Unlocking Intensification Opportunities
- Regeneration projects
- Mix-Use New Development incl. Housing
- New Public Spaces
- Green Infrastructure
- Economic Revitalisation



Milwaukee, Park East Redevelopment Project



Séoul, Cheonggyecheon



San Francisco, Octavia Boulevard



New York, West Side



San Francisco, Embarcadero

Lesson #3 BUT Urban + Road Transformation = Autonomous Processes



Portland Waterfront



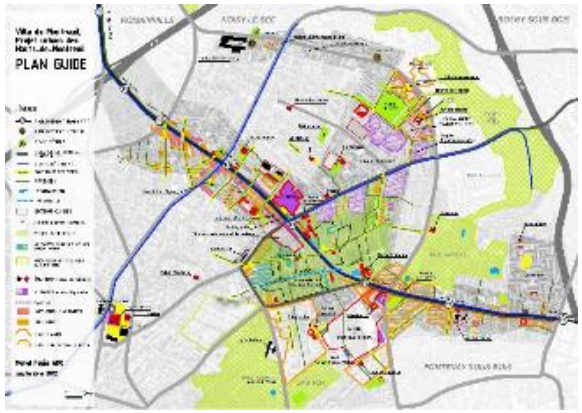
Vancouver Northeast False Creek



San Francisco Octavia/Market Plan



New York Hudson Yards



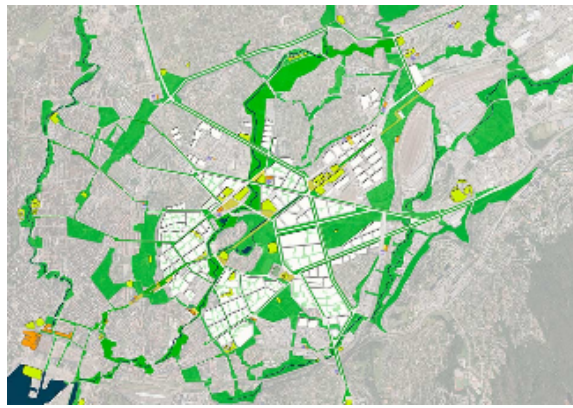
Paris Hauts-de-Montreuil Plan



Utrecht Station Area



Birmingham East Side Curzon Street

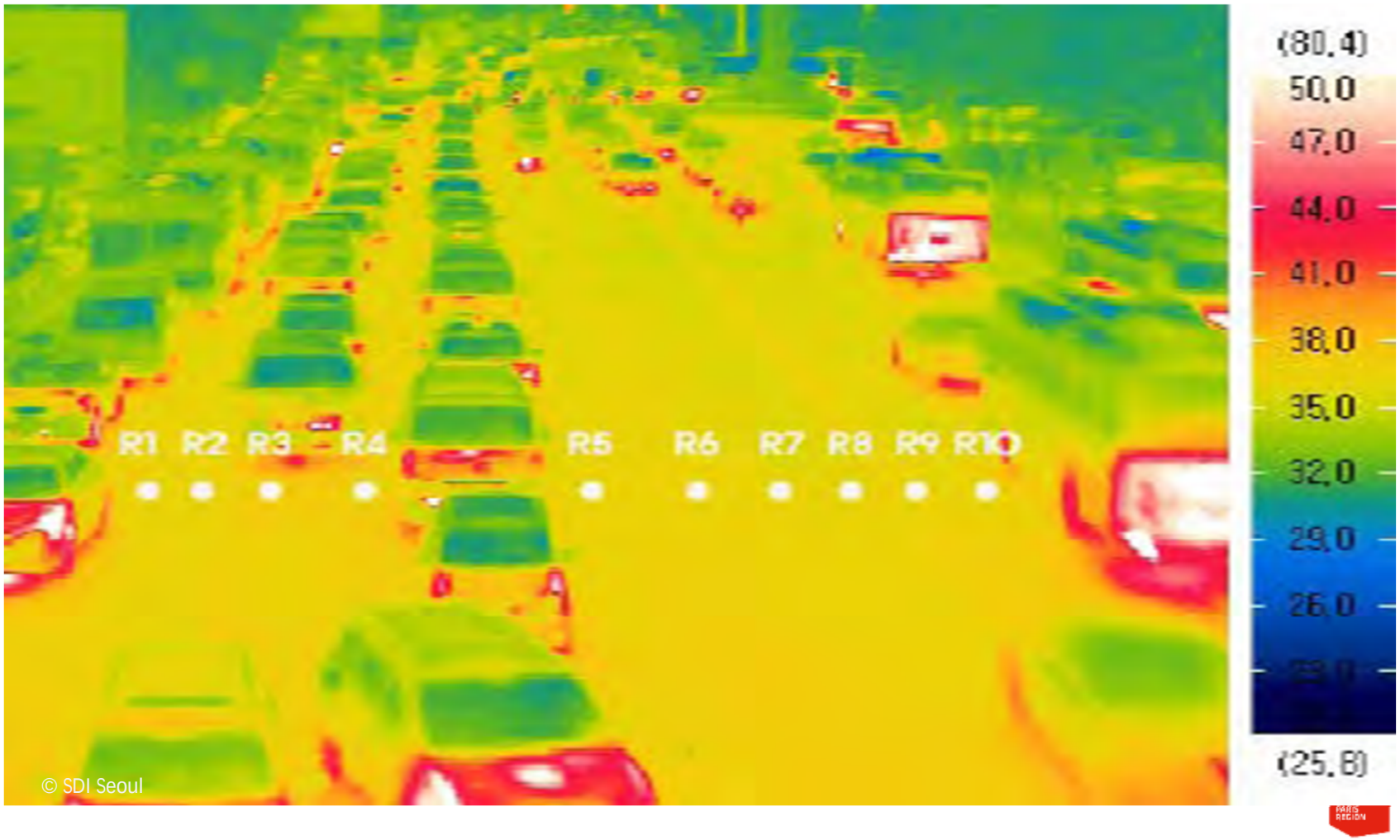


Oslo, Hovinbyen (Competition)

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Lesson #4 Environmental Benefits

- Noise
- Air Quality
- Climate
- Health
- Resilience



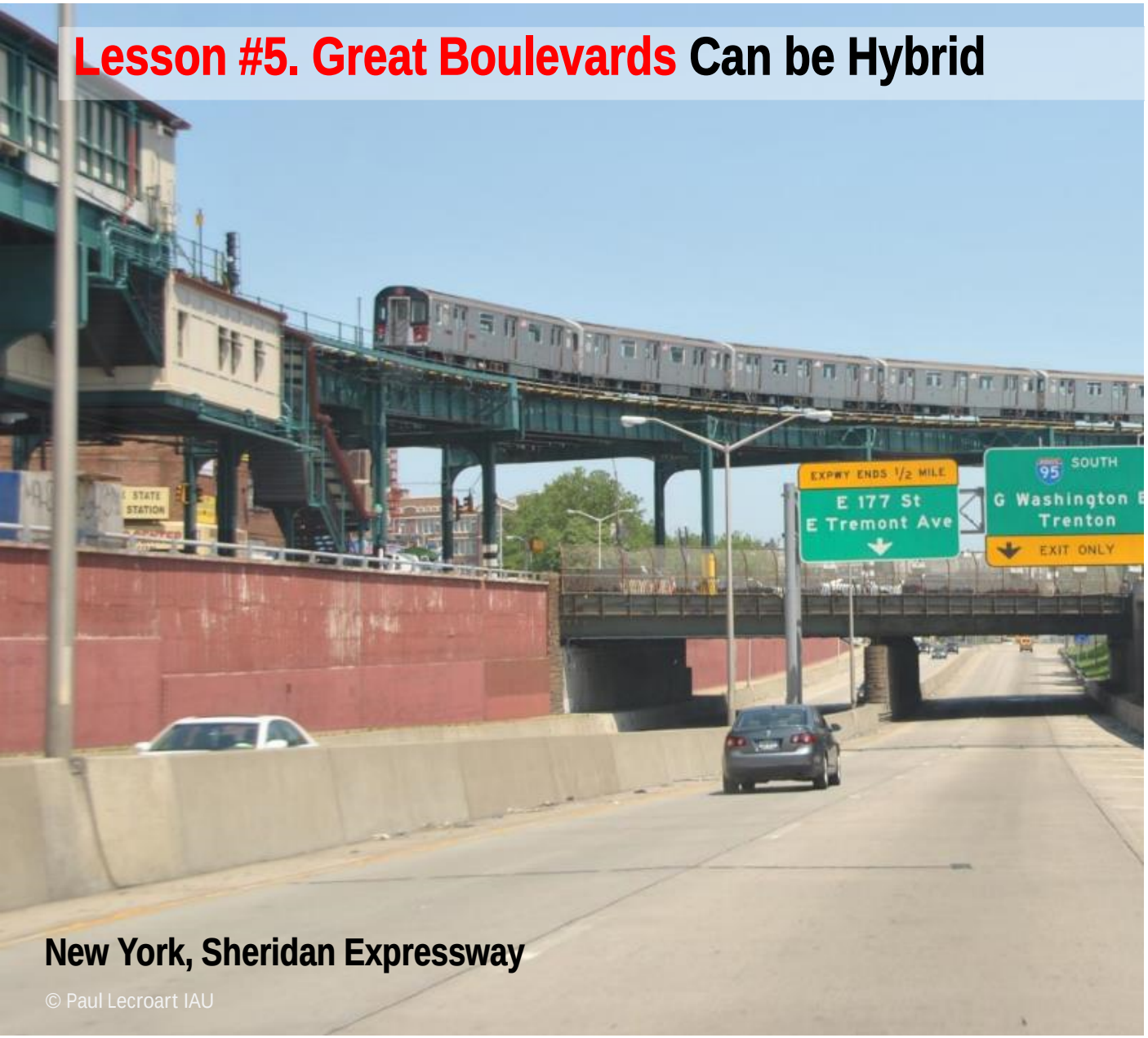
Lesson #5. Great Boulevards = Great Cities



Paris, Neuilly avenue Charles-de-Gaulle

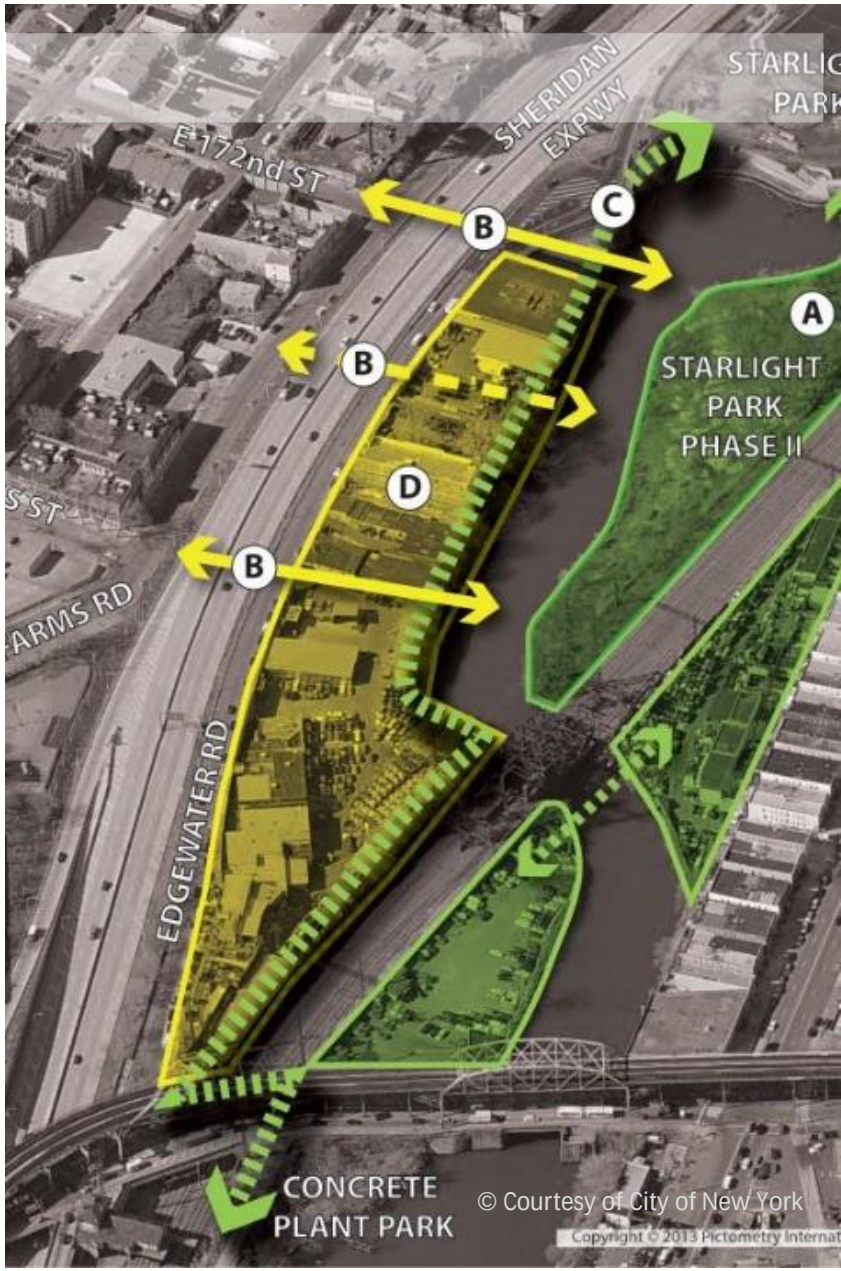
© Paul Lecroart IAU

Lesson #5. Great Boulevards Can be Hybrid



New York, Sheridan Expressway

© Paul Lecroart IAU



© Courtesy of City of New York

Lesson #6. Public Participation is Crucial

Vancouver, idea competition

vancouver viaducts & eastern core

re|CONNECT

CITY OF VANCOUVER

Submission Gallery

Below are the submissions which were received during the re:CONNECT competition. Click on an image to view the submission in full, and to vote and comment on it.

Submissions are displayed in the order they were received.

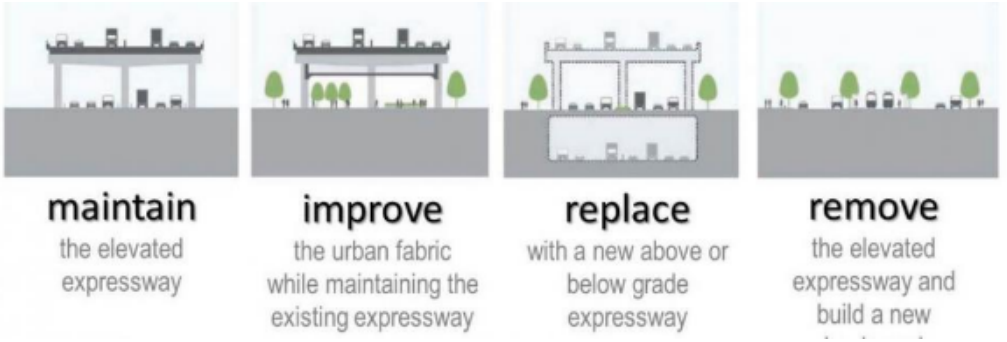
CONNECTING THE CORE 1 | VISUALIZING THE VIADUCTS 2 | THE WILDCARD 3

Connecting the Core

This component of the competition seeks high-level ideas for the future of Vancouver's Eastern Core. Design solutions should seek creative, BIG PICTURE opportunities that envision a sustainable and innovative future.



Toronto, debate on scenarios et quick wins





Lesson #6. Public Participation is Crucial

Temporary Highway Closure *Nuit Blanche Event October 2019*

Paris



© Paul Lecroart Institut Paris Region

Lesson #6. Public Participation is Crucial

Workshop with Kids Future of Highways Competition Paris Region



© Forum Métropolitain du Grand Paris

Lesson #7. Strategic Metropolitan Projects

- Not a Question of Data & Traffic Counts
- City Long-Term Development Model
- Risk Taking
- Succes Relies on <u>Political Will</u>

Tough Issues

- Finance: How Much? Who's going to pay?
- Acceptance: Can it be a Win-Win?
- Gouvernance: Who is going to decide?
- Where do we start?





EUROCITIES/METREX Exchange Platform + URBACT

EUROCITIES Working Group *Urban Regeneration in the City Fringe*
Oslo, Amsterdam, Brussels, Düsseldorf, Gothenburg, Lyon, Prag, Utrecht, Vilnius

METREX Expert Group *From Roads to Streets*
Institut Paris Region, WMCA Birmingham, AML Lisbon, UrbaLyon/MGL Lyon, MV Warsaw, Rotterdam, MR-N Frankfurt, PMA Porto, Brussels-Capital,

URBACT Project *RiConnect*
AMB Barcelona, AMR Amsterdam, GGSMA Gdansk-Gdnya, KMA Krakow, PMA Porto, MGP Paris, GM Manchester, Thessaloniki

EUROCITIES/METREX Exchange Platform

Interest

Commitment to Working over 2020-2022

Questionnaire > Completed by April 3?

- **Experience to Share > Case Studies**
- **Expectations about Exchange Platform**

EUROCITIES/METREX Exchange Platform

Expectations

- Benchmarking
- Understanding of processes and impacts
- Drawing lessons > peer review or workshops
- Going further into some topics
- Strengthening technical position
- Helping to raise issues at a higher level
- Other…

EUROCITIES/METREX Exchange Platform

Themes of Interest

- Strategic Planning and Multi-Level Cooperation
- Traffic and Transport
- Urban and Regional Planning
- Urban Design
- Environmental Impacts
- Economic Impacts
- Public Participation
- Project Development and Delivery
- Teasers and Temporary Urbanism
- Innovative Technical Solutions

...

EUROCITIES/METREX Exchange Platform

Suggestions

- Outcomes
- Case Study Sheets
- Final deliverables
- Resources
- Communication
- Meeting Agenda
- Form and content of meeting in Lyon (Autumn 2020)
- Practical matters (in times of Coronavirus)
- Other

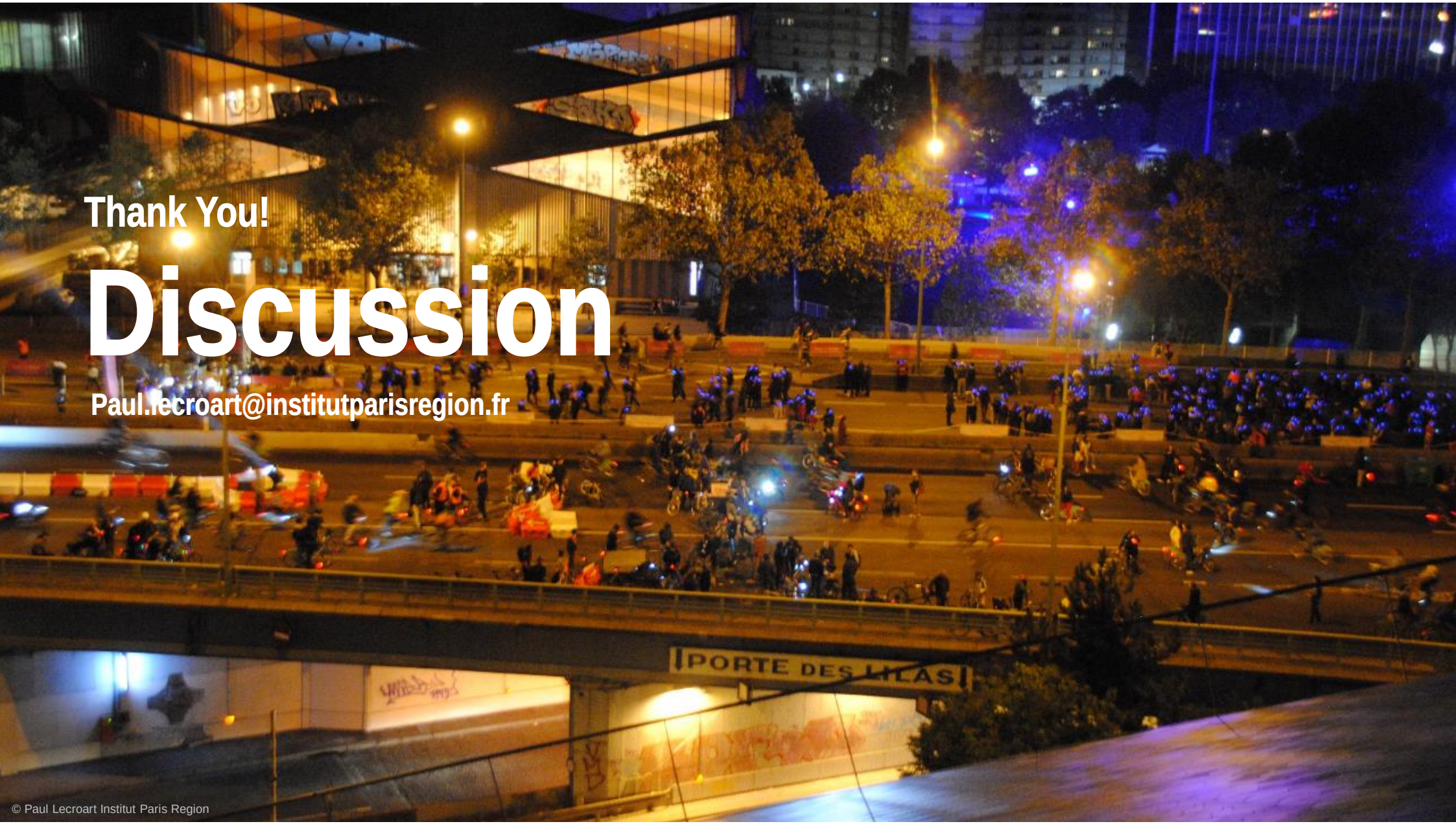
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EUROCITIES/METREX Case Studies > Secure List by April 15?

NORWAY **Oslo** Ostre Aker Vei Hovinbyen (2013+)
BELGIUM **Brusels** E411 Boulevard Herrmann-Debroux (2019+)
FRANCE **Lyon** A6-A7 Highway to Boulevard Reconversion (2010+) (?)
SWEDEN **Gothenburg** Högsbo Dag Hammarsköldsleden Transformation (?)
GERMANY **Düsseldorf** Kennedydam Project (?)
LITHUANIA **Vilnius** Naujininkai Area Regeneration (?)
CZECH REPUBLIC **Prag** Eastern Road Corridors (?)
FINLAND **Helsinki** City Boulevard Strategy -5 key projects (2016+)?
PORTO?
BIRMINGHAM?
FRANKFURT?
BARCELONA?

Sharing Experience. **Case Study Sheets** > Draft Information by May 15?

1.Regional/Metropolitan Context	Name of Metropolitan Body, Organisation and Powers [MAPS, CHARTS, …] Key-Data: Population, Jobs, Urban Area, GDP/head, Modal Split,… Regional/Metro Strategies: Zero Carbon Strategy? Regional Spatial Plan? SUMP?
2.City Strategy and Plans	Key-Data, City Strategy, City Masterplan, Sectorial Plans (Transport, Housing, Climate,…) [MAPS]
3.Urban Regeneration Project	Project Title, Location, Background, Initiative, Stakeholders (Landowners, Residents,…), Partners Scale, Goals, Scope, Urban Design, Construction Programme, Costs/Benefits, Impact, Status/Decision Process, Time-Line, Local/Regional Acceptance [MAPS, PLANS, ILLUSTRATIONS]
4.Road Transformation Project	Project Title, Background, Initiative, Stakeholders, Partners Scale, Goals, Scope, Road Design, Construction Programme, Costs/Benefits, Impact, Status/Decision Process, Time-Line, Local/Regional Acceptance [MAPS, PLANS, ILLUSTRATIONS]
5. Problems to Solve	
6. Questions to Work On	



Thank You!

Discussion

Paul.lecroart@institutparisregion.fr

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