

Transportation as City Building

Planning by ~~engineers~~ Design – key wins

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The San Diego Section of the American Planning Association

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Win 1

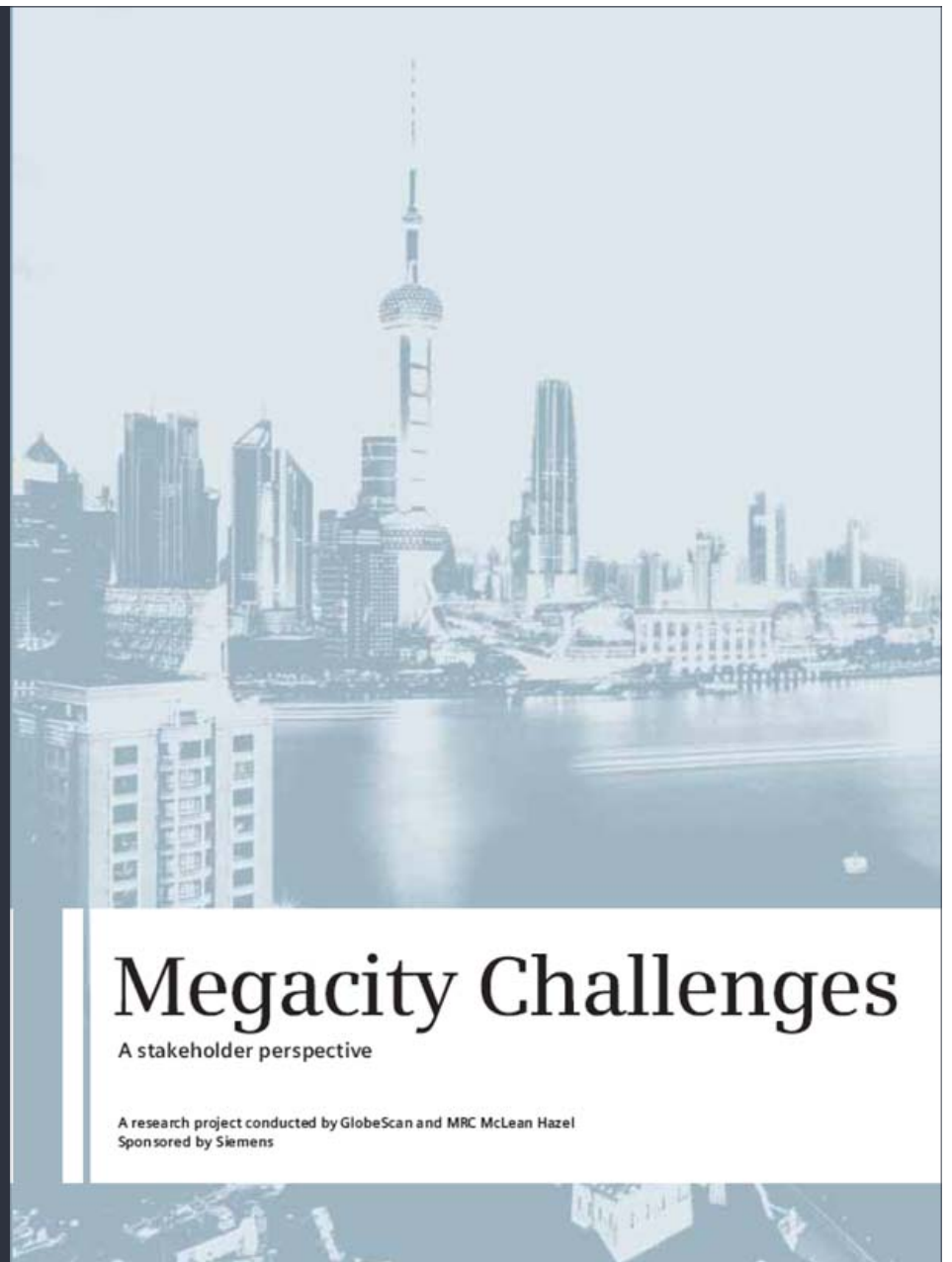
Cities are complicated:
...organic,
spontaneous,
untidy

- ▶ action - overcome silo thinking

Global Survey

- Cities are competitive
 - it is not about infrastructure, holistic solutions desired but difficult to achieve
- it is not about money, planning and governance a priority over funding

http://w1.siemens.com/en/about_us/megacities/megacity_challenges.htm



“some of my best urban
designers...
....are traffic engineers”

-Brent Toderian
Director of City Planning

EcoDensity

overcome silo thinking
getting the culture right

Vancouver, Canada



overcome silo thinking
structure the project for success

Seattle, USA



overcome silo thinking
invest in therapy

Redmond, USA

Win 2

Transport is about people and
goods...
...not vehicles

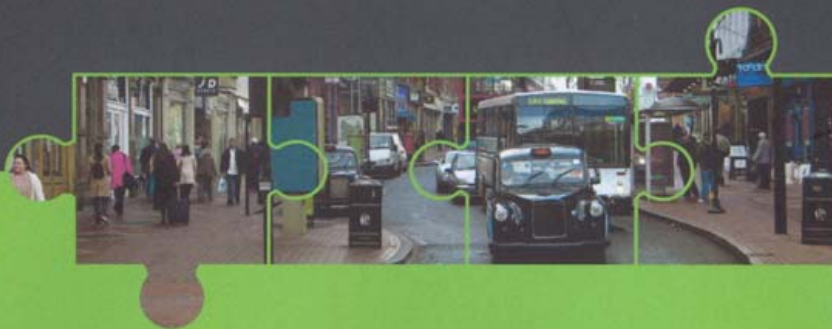
- ▶ Action: focus on the place and not the problem
- ▶ Action: focus on people and goods not vehicles

focus on the place, not the problem

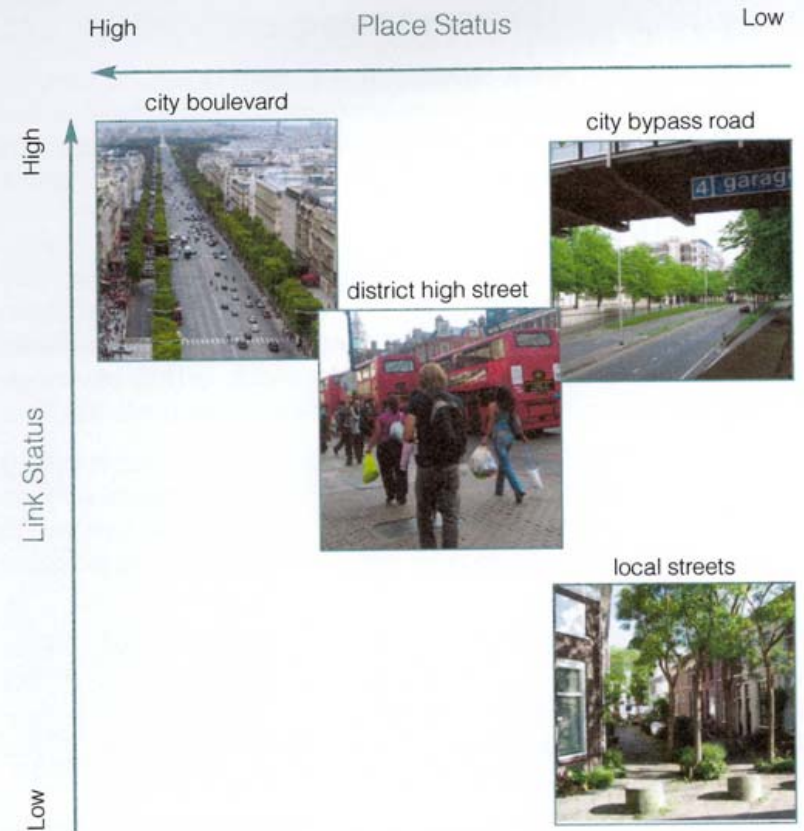


Link & Place

A Guide to Street Planning and Design



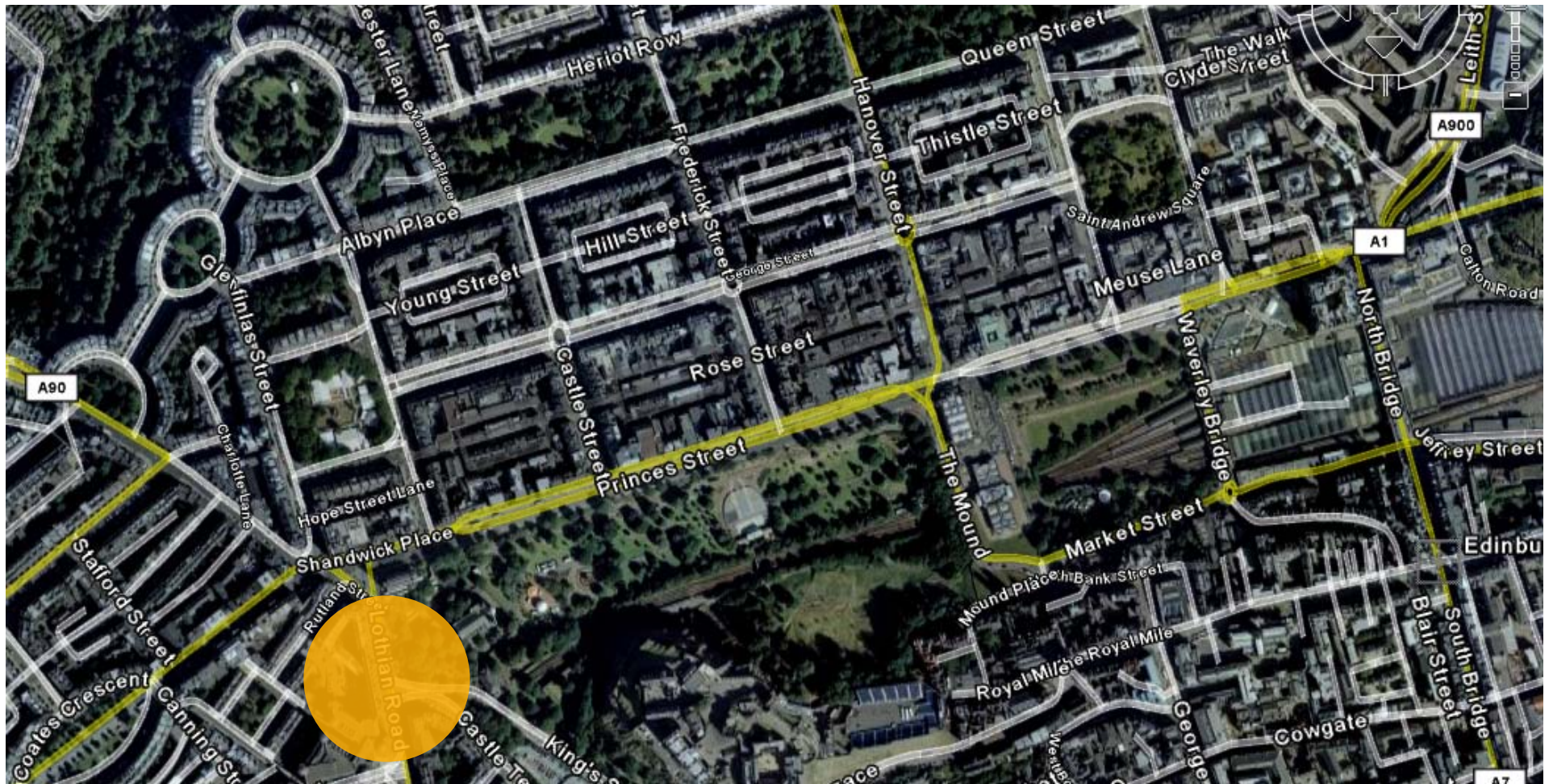
Peter Jones | Natalya Boujenko | Stephen Marshall



Place status levels

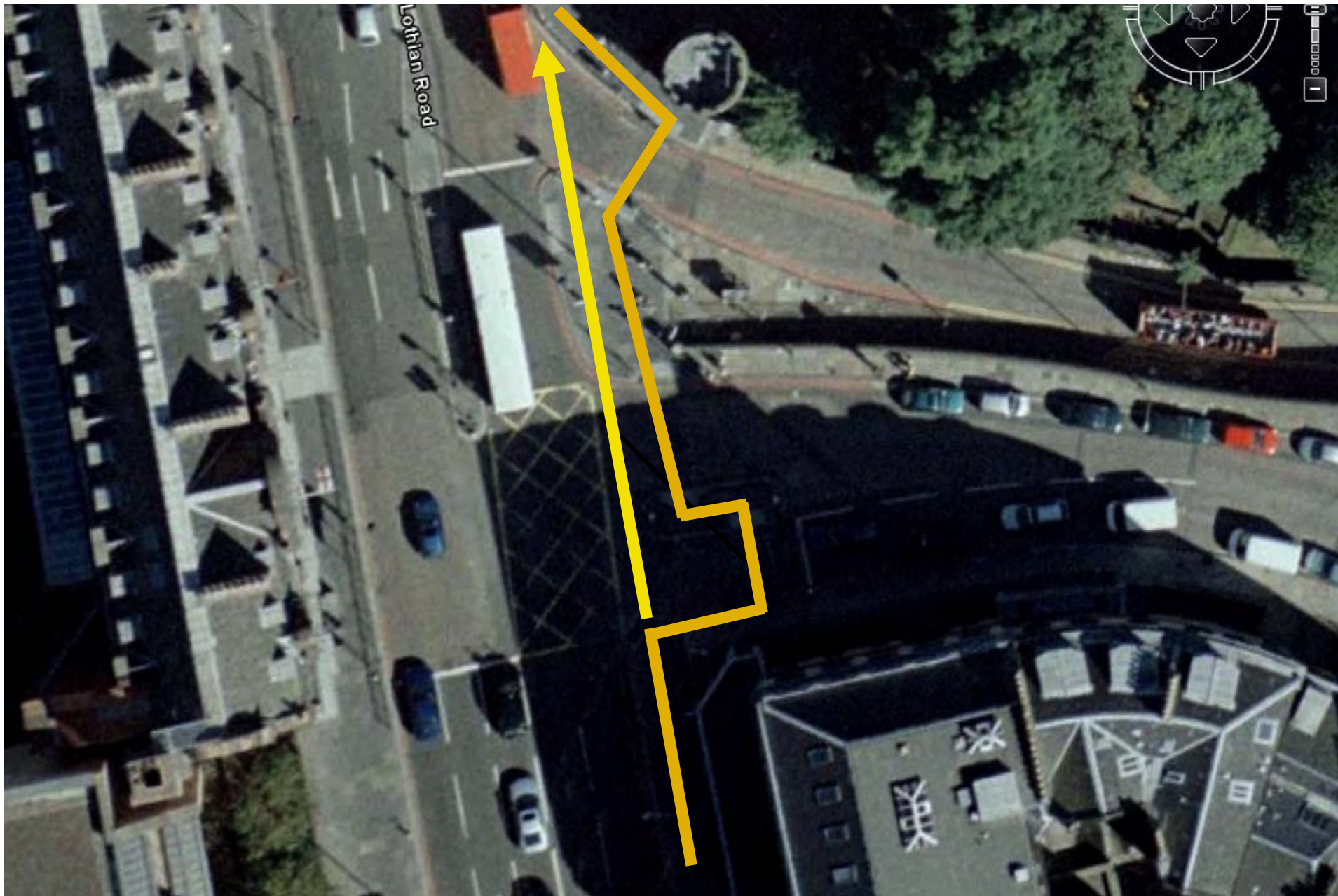
National	I-A	I-B	I-C	I-D	I-E
City	II-A	II-B	II-C	II-D	II-E
District	III-A	III-B	III-C	III-D	III-E
Neighbourhood	IV-A	IV-B	IV-C	IV-D	IV-E
Local	V-A	V-B	V-C	V-D	V-E

Link status levels



focus on people and goods not vehicles
design for people

Edinburgh, UK



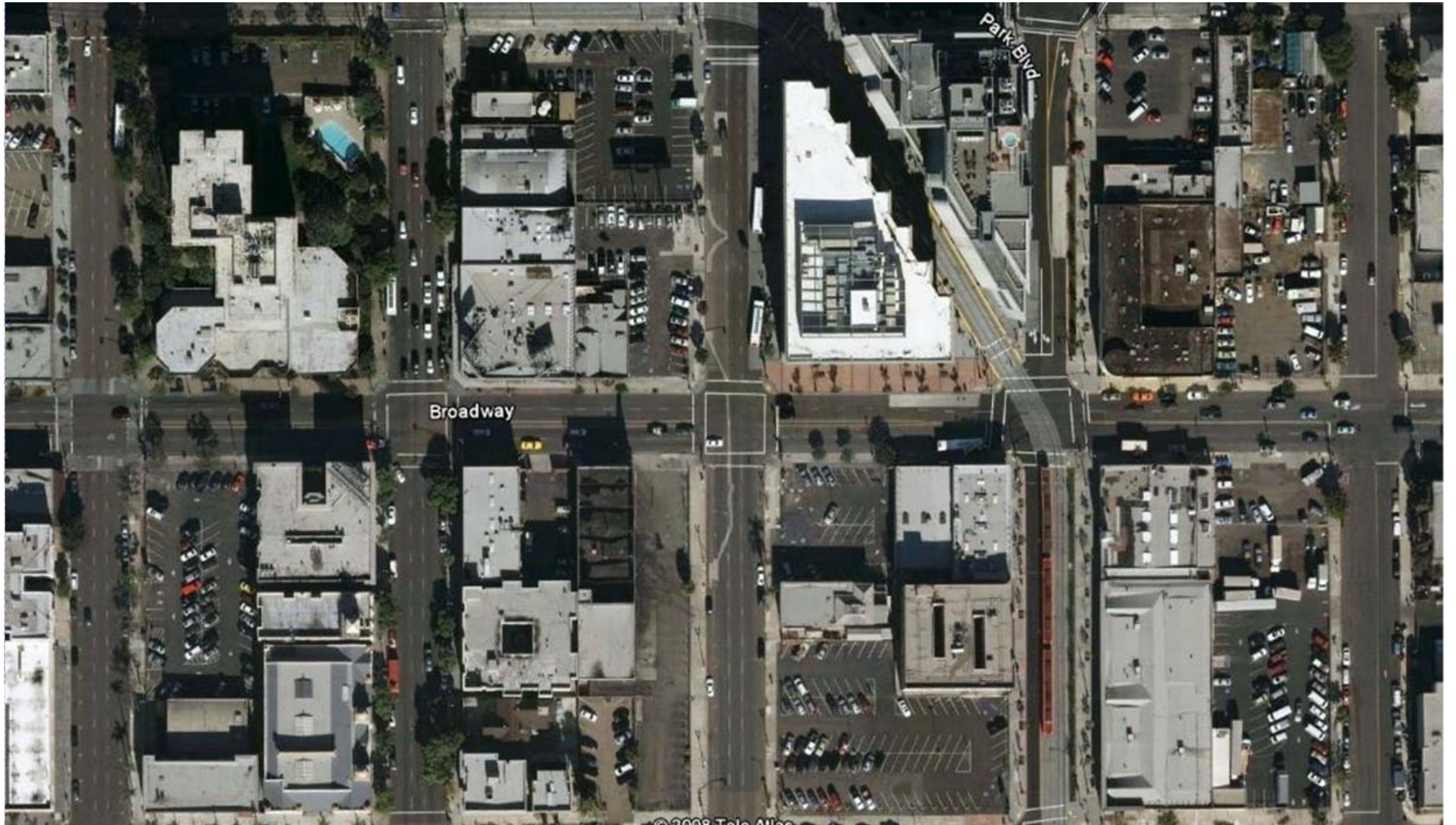




Win 3

Density needs transit ...and transit needs density

- ▶ Action: embed transit in mainstream, move away from special needs treatment
- ▶ Action: focus on the composition, not the buildings
...expand TOD to corridors
- ▶ Action: match governance to need



focus on the composition, not the buildings
physical impact of parking, not amount

San Diego, USA

Win 4

The city is a place of exchange

- ▶ Action : maximize movement and connectivity but minimize movement space
- ▶ Action : enhance the value of movement space



max. movement / minimize movement space
complete community | complete mobility

San Diego, USA



max. movement / minimize movement space
rebalance space - 50%

Bordeaux, France



max. movement / minimize movement space
rebalance

Berlin, Germany



Paris, France



max. movement / minimize
movement space

maximize the productivity
of movement space



max. movement / minimize movement space
max. productivity of movement space

Kensington High Street, UK



Rouen, France

max. movement / minimize
movement space

maximize the productivity
of movement space



enhance the value of movement space
moving art

Bilbao, Spain



enhance the value of movement space
moving art

Bilbao, Spain



enhance the value of movement space
moving art

Amsterdam, Netherlands



enhance the value of movement space
moving art

Bilbao, Spain



enhance the value of movement space
moving art

London, UK



Paris, France

moving art

enhance the value of movement
space



enhance the value of movement space
arrival points

London, UK



enhance the value of movement space
arrival points

Amsterdam, Netherlands



enhance the value of movement space
arrival points

Amsterdam, Netherlands



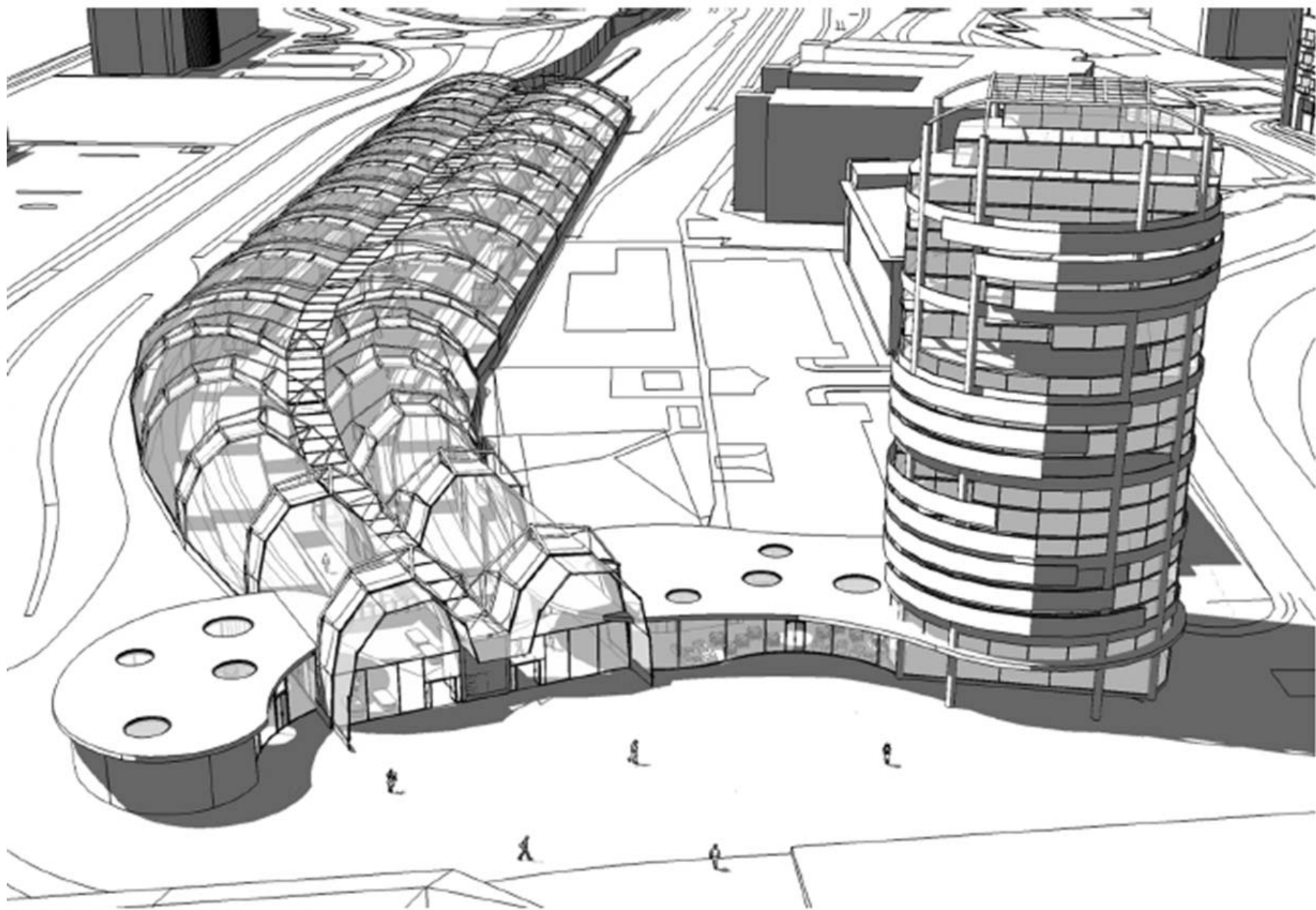
enhance the value of movement space
arrival points

Caen, France



enhance the value of movement space
arrival points

Paris, France



Win 5

Quality urban spaces are difficult to create

- ▶ Action: focus on quality of design not materials



Berlin, Germany

focus on quality of design

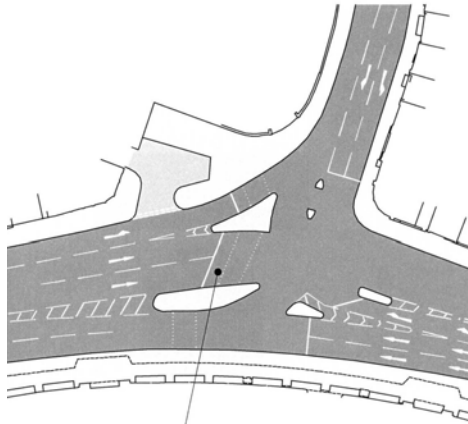
...not materials

It is not about materials
and cost

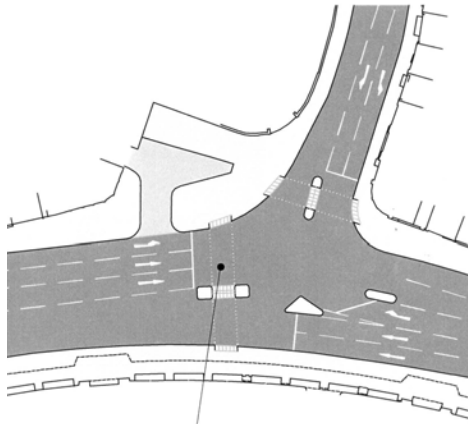
▶ Ugly buildings can make for great streets

- ...iconic buildings do not necessarily make for great streets





Three stage pedestrian crossing



Single stage pedestrian crossing



focus on quality of design

It is not about materials and cost



Photo :The Royal Borough of Kensington and Chelsea



focus on quality of design

It is not about materials and cost



Win 6

The city is the centre of
economic and creative
opportunity

- ▶ Action – celebrate congestion

50%

of world population lives in cities



celebrate congestion
separate good and bad congestion

Moscow, Russia



celebrate congestion
separate good and bad congestion

Edinburgh, UK



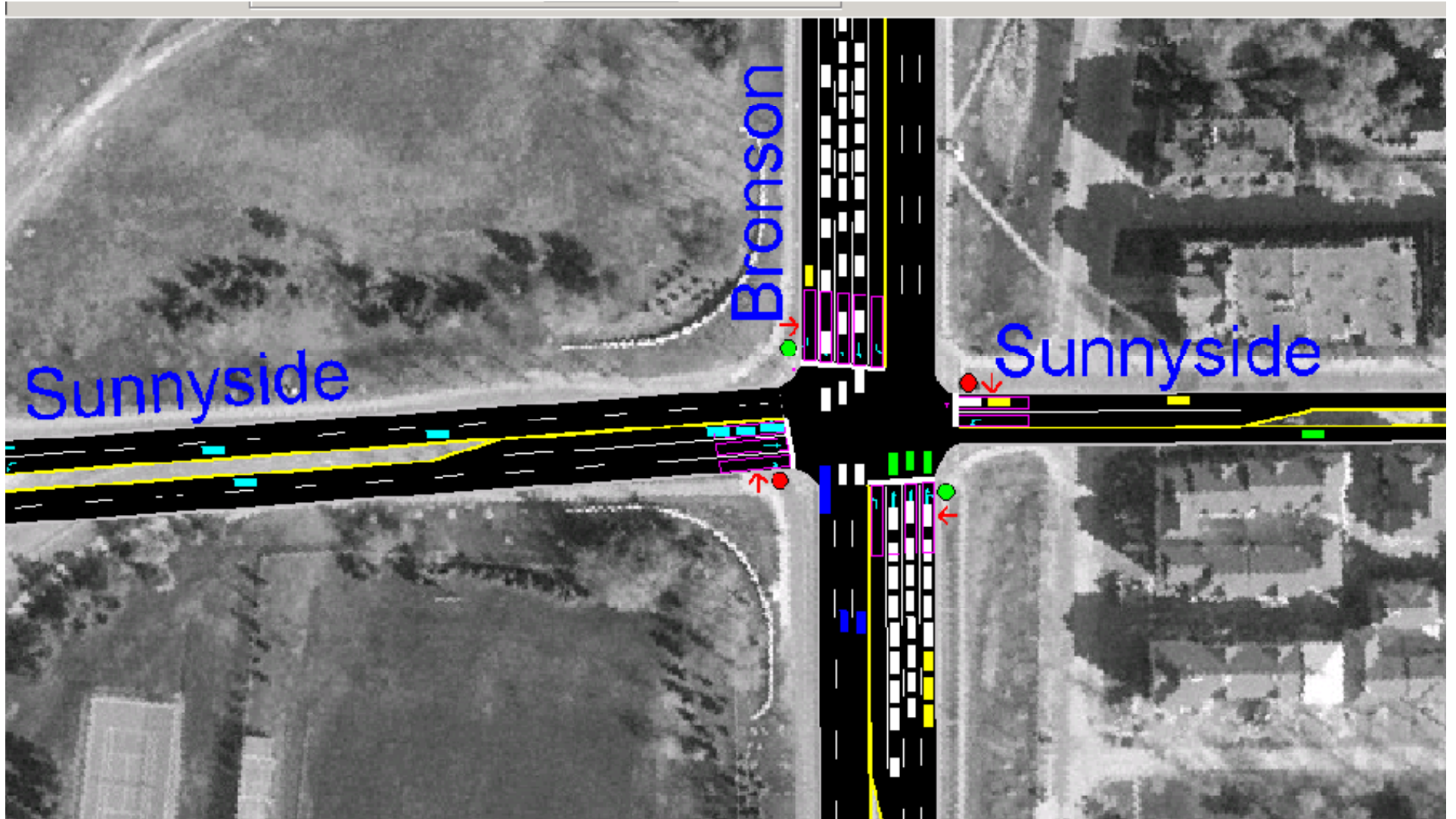
celebrate congestion
separate good and bad congestion

Seville, Spain

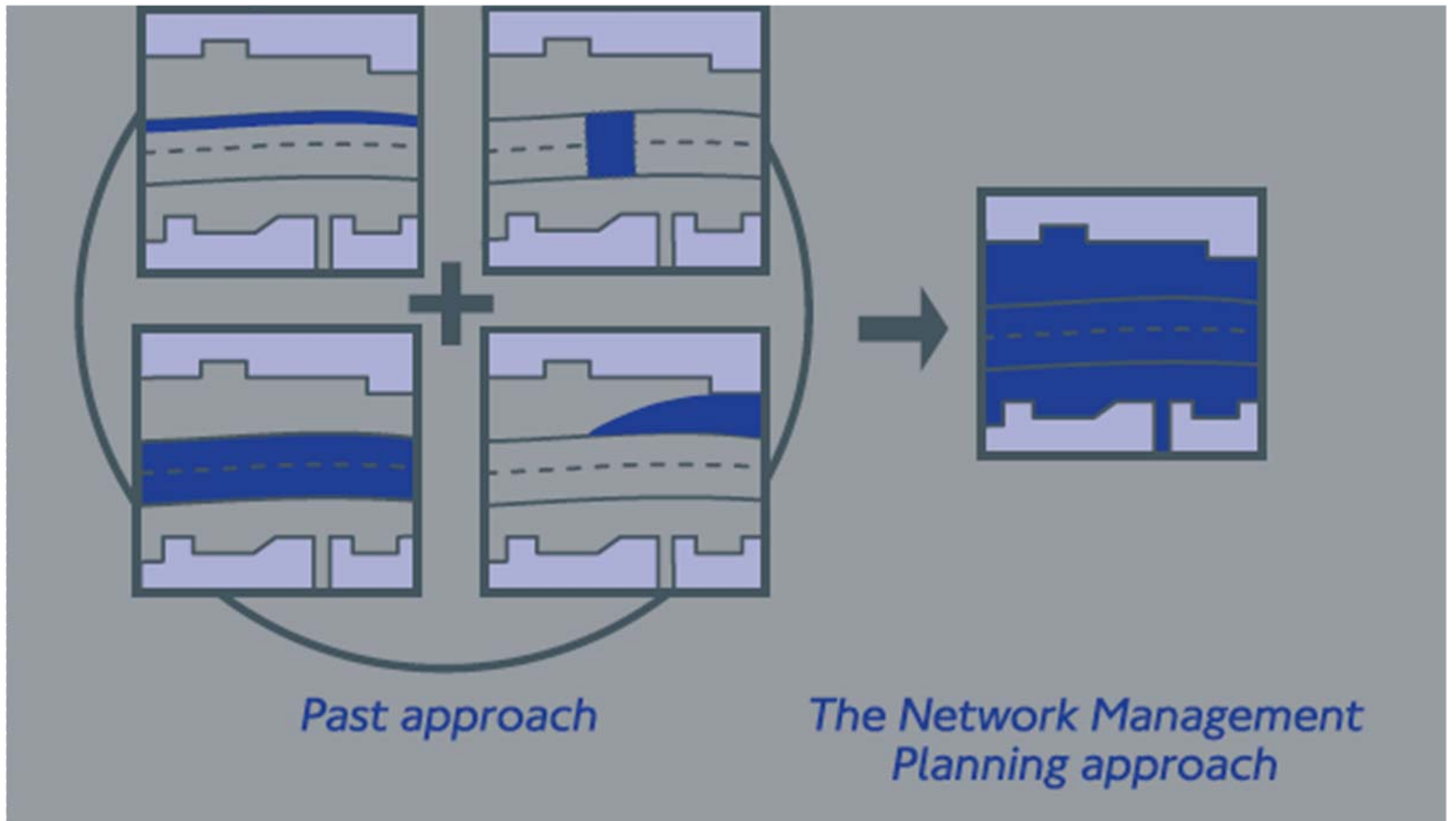


celebrate congestion
separate good and bad congestion

Isle of Skye, UK



celebrate congestion
think systems / tradeoffs



celebrate congestion
think systems / tradeoffs

London, UK

Win 7

A city's quality of life is its greatest economic asset

- ▶ Action: view urban design as an investment not a cost
- ▶ Action: use transportation as a Lever

View urban design as an investment not a cost

“improvement in street design quality can add an average of 5.2 per cent to residential prices and 4.9 per cent to retail rents”

-Commission for Architecture and the Built Environment



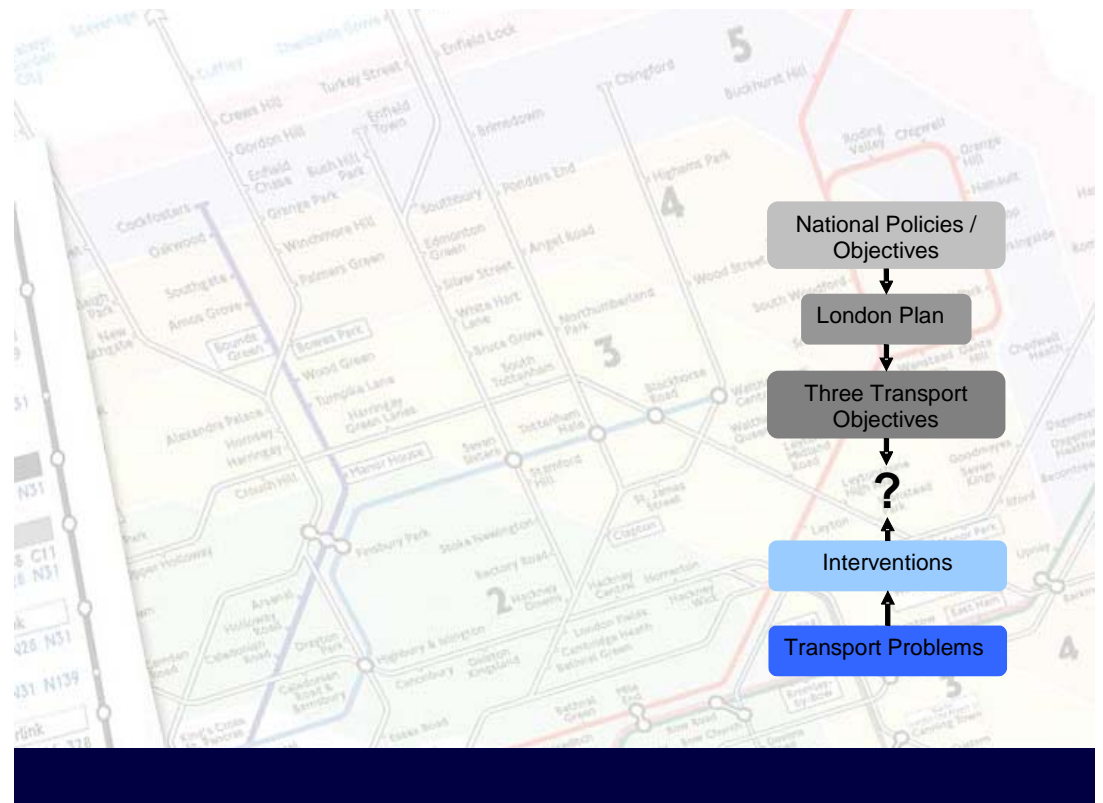
Design better streets





use transportation as a lever

London, UK





- ▶ Use education as a lever

Win 8

The dynamism of cities is uncertainty and change

- ▶ Action: manage risk, don't sterilize



San Diego, USA

manage risk, don't sterilize
managing risk?



- ▶ Court rulings repeatedly state that road users are responsible for their own safety and have a duty to take the road as they find it. This defines the road user as an intelligent being, able and expected to exercise their own judgement. **It is not necessary for the design of a scheme to take that independence of judgement out of the hands of the road user.**

- ▶ Kensington High Street - new design at least as safe as previous design with barriers

- ▶ Ian Walker - Bath University - experiment on bicycle - drivers would leave larger space for riders without helmets
- ▶ Munich - taxi drivers with ABS had no fewer accidents than those without because they drove more aggressively
- ▶ John Adams - University College London - number of children in road deaths has decreased in recent years not because roads are safer but because children are not let out. Has led to higher rates for teens.



“Most engineers, when faced with a problem, try to add something.
My instinct has always been to take something away.”

-Hans Monderman

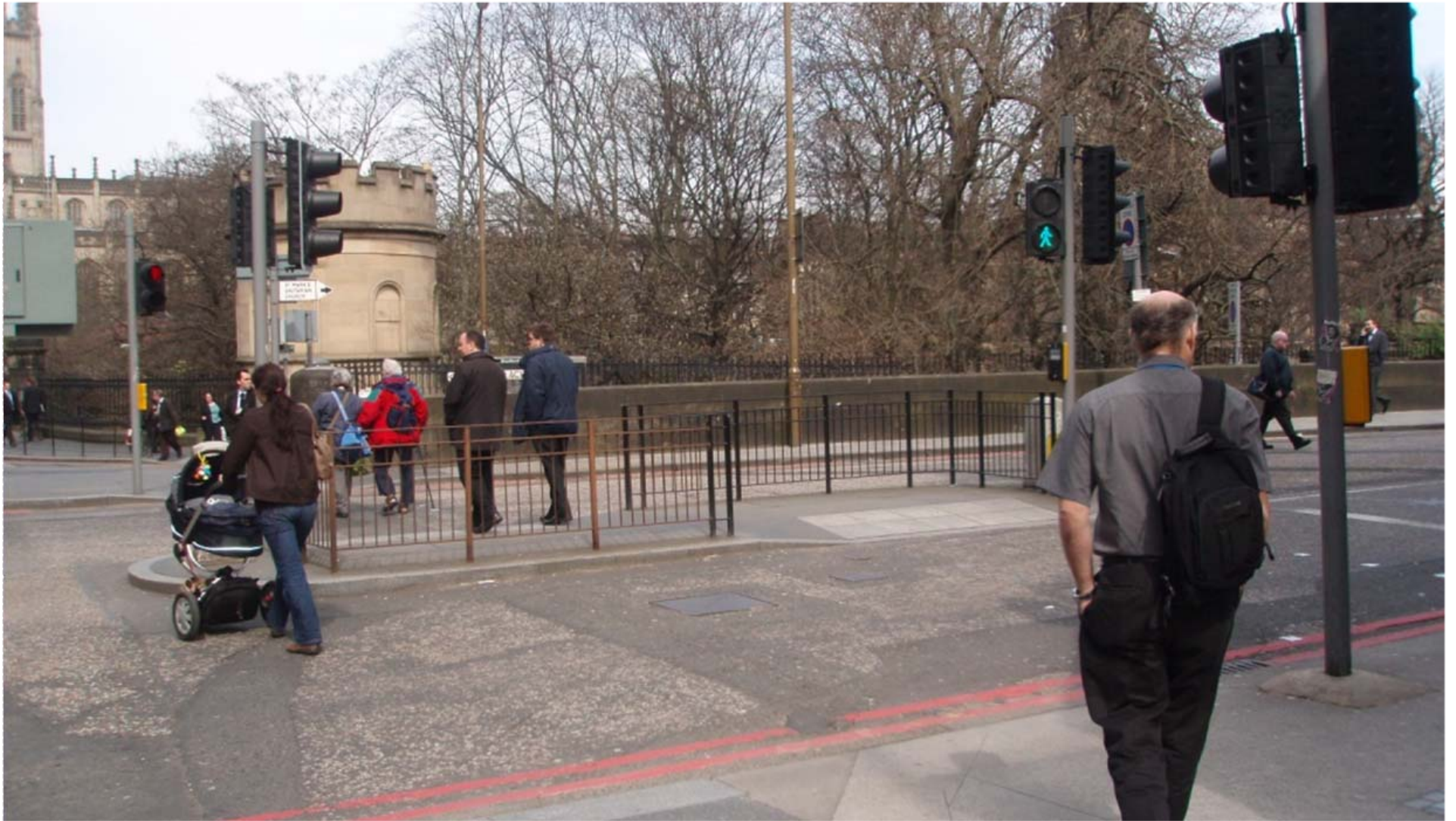
manage risk, don't sterilize
managing risk?

Amsterdam, Netherlands



4 PORTE DE VERTOU

BusWay



manage risk, don't sterilize
managing risk?

Edinburgh, UK



manage risk, don't sterilize
managing risk?

Brisbane, Australia



manage risk, don't sterilize
managing risk?

Istanbul, Turkey



manage risk, don't sterilize
your moment of zen

Istanbul, Turkey

the wins

- ▶ Win 1 : cities are complicated: organic, spontaneous, untidy
- ▶ Win 2 : transport is about people and goods, not vehicles
- ▶ Win 3: density needs transit...and transit needs density
- ▶ Win 4 : the city is a place of exchange
- ▶ Win 5 : quality urban spaces are difficult to create
- ▶ Win 6 : the city is the centre of economic and creative opportunity
- ▶ Win 7 : a city's quality of life is its greatest economic asset
- ▶ Win 8 : The dynamism of cities is uncertainty and change

Thanks to

- ▶ Prof. George Hazel, OBE
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