

FIVE IS THE NEW TWENTY



The Advantages of Quickly
Completing Cycling Networks

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INTRODUCTION

Typical bike plan

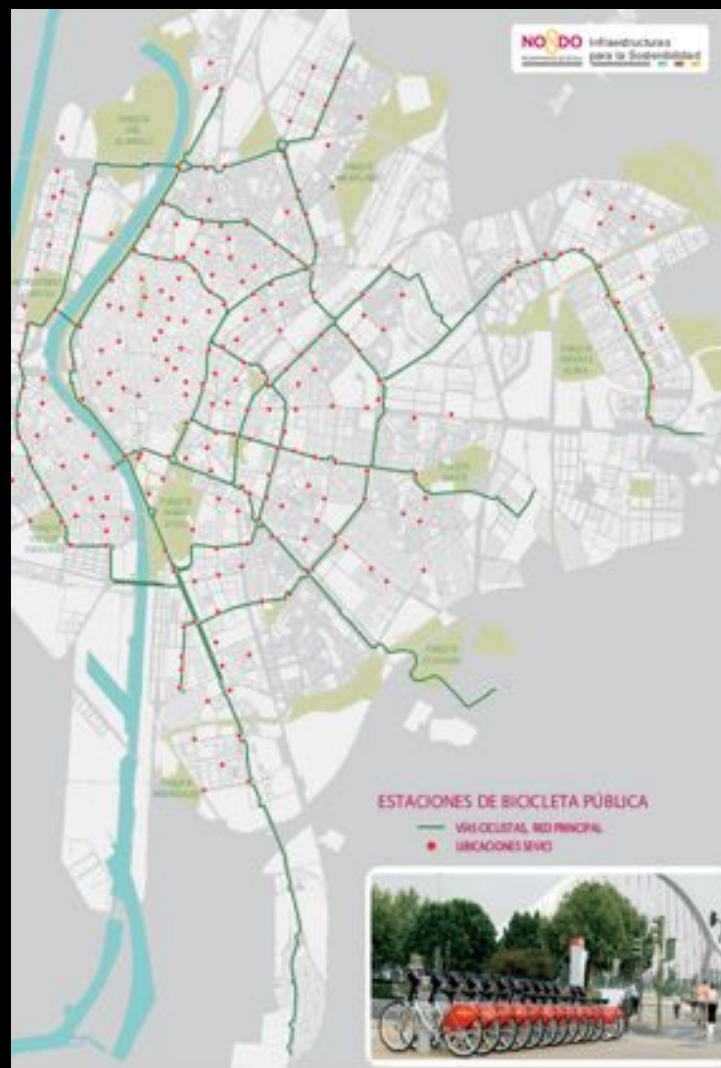
- 20 to 35 years to complete network
- Low bicycle usage for many years

Some cities building networks much faster

- Dramatic increases in cycling

SEVILLE – NETWORK EXPANSION

- 4 years
- 78 km
- Separated bike lanes
- \$42 million
- Controversial
- Bike sharing



SEVILLE - RESULTS

Mode Share

- 0.2% to 6.6%

Daily cycling trips

- 2,500 to 70,000



Photos: Jack Becker

WINNIPEG

- \$20.4 million in 2010
- City, Province, Federal
- 35 projects
- Bikeways
- Multi-use paths

SYDNEY AUSTRALIA

- \$71 million
- 4 years
- 200km cycling network
- 55km of separated cycleways.

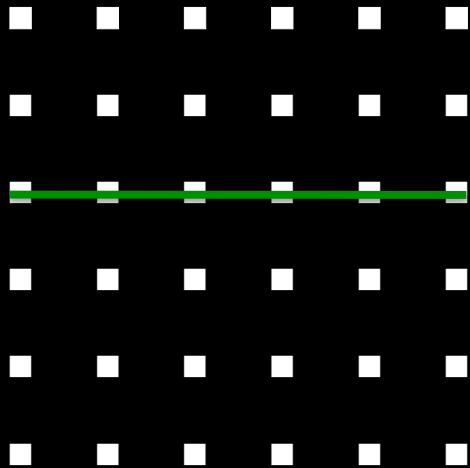


Photos: <http://www.sydneycycleways.net>

ADVANTAGES OF COMPLETE NETWORKS

- More destinations
- Shorter distances
- Flexibility
- Any trip is possible
- Avoid hills
- Avoid closures
- Maps not needed

DESTINATIONS



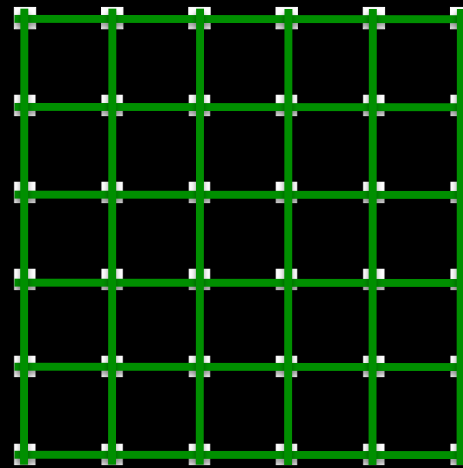
1 Bike Route

6 Origins

5 Destinations each

30 Trips

30 Trips/Route



12 Bike Routes

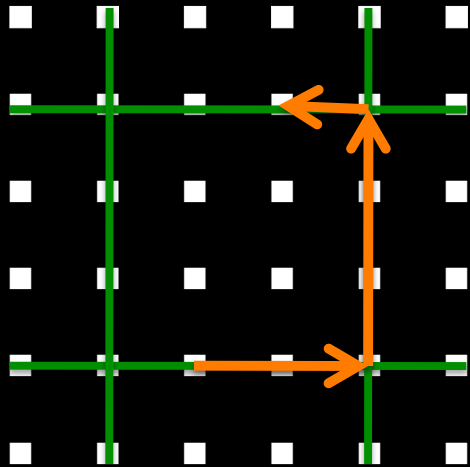
36 Origins

35 Destinations each

1260 Trips

105 Trips/Route

DISTANCE



4 Bike Routes

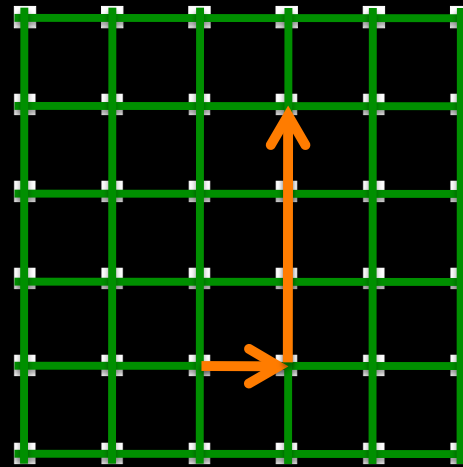
7 km

40% longer

40% more time

40% more rain

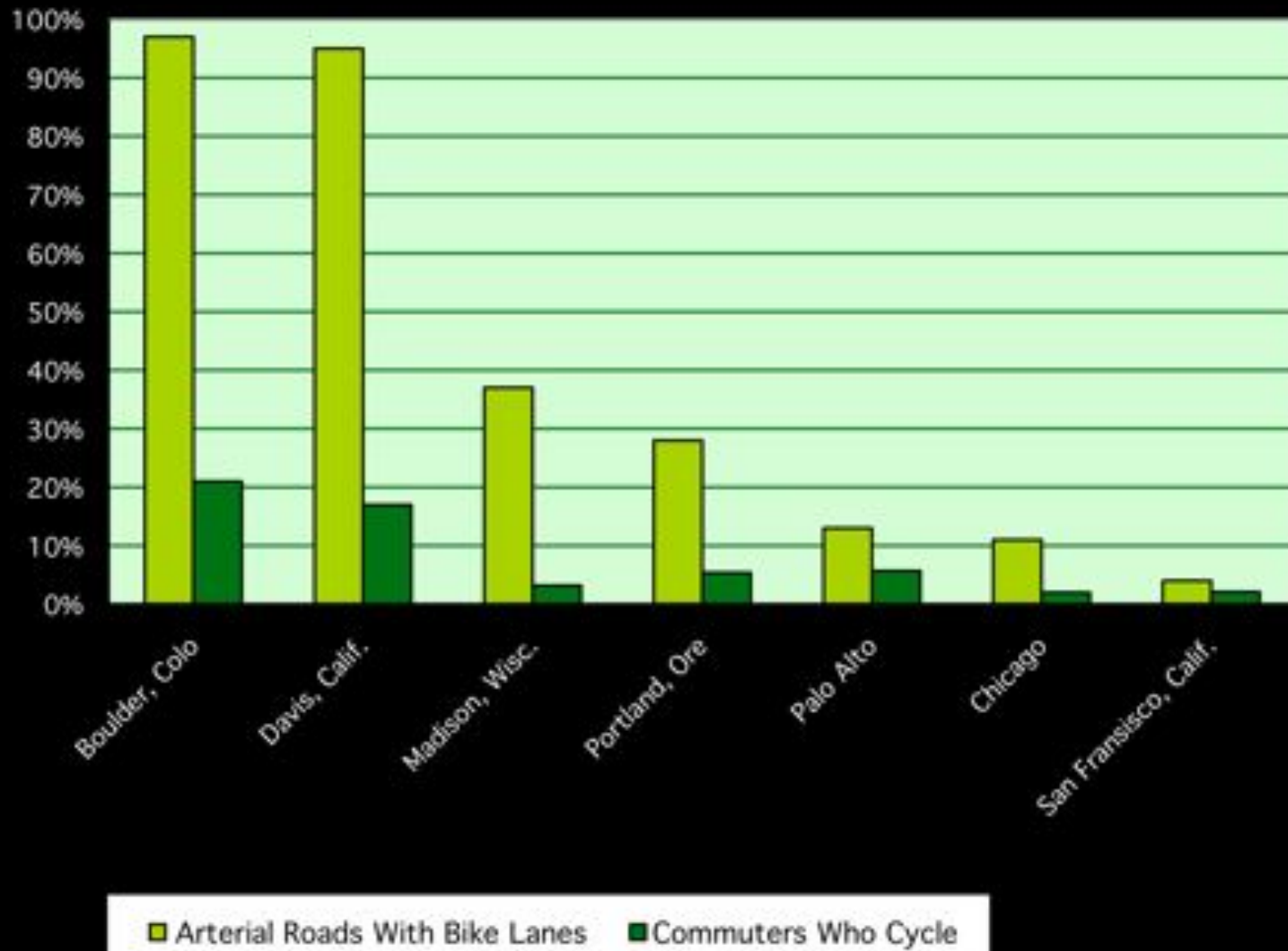
40% more dangerous



12 Bike Routes

5 km

BICYCLE MODE SHARE



INVESTMENT

	Investment (millions)	Years	Per Person per Year
Netherlands	\$ 652	On going	\$ 41
Munster	\$ 112	11	\$ 38
Sydney	\$ 71	4	\$ 100
Winnipeg	\$ 20	1	\$ 32
Minneapolis	\$ 18	1	\$ 48
Seville	\$ 42	4	\$ 15
Vancouver	\$ 25	2	\$ 20
Surrey	\$ 13	2	\$ 20
Portland	\$ 613	20	\$ 51

BENEFITS OF ACCELERATED INVESTMENT

- Increased use of existing facilities
- Better return on investment
- Greater GHG emissions reductions
- Greater health care cost saving
- Promotion and education will be more effective
- Bike sharing

All for likely less overall cost

OTHER USERS

Pedestrians

- Traffic calming
- Shared paths
- Bike/pedestrian signals
- Less sidewalk cycling

Separated bike facilities can be used by people with wheelchairs and other mobility devices



KEY POINTS

- Connectivity
- Separation from traffic
- Doesn't have to be perfect
- Safe intersection design
- Temporary barriers, paint, planters