

# \$1.4 billion economic benefit walking + cycling for transport

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## **Summary**



### 1. Urban development in Adelaide

- Attracting jobs + skilled workers to Adelaide/SA
- Supply + upgrade of infrastructure + housing (300,000 people in 15 years)

## 2. Why cycling + walking matter

- Cheapest effective solution
- Economic benefits including health
- 'Low-hanging fruit'

### 3. What needs to be done

• Plan, build, encourage, co-ordinate



### **Economics of cities**



### Cities are highly productive:

Adelaide produces 79% of state GDP
 (\$60.4bn vs \$16.2b)
 Grattan Institute 2014

### Cities are where people want to live:

- 77% of SA's population lives in Adelaide
- Adelaide one of world's most liveable cities
- Yet only 1.2% of 457 visas for Adelaide ?!



## **Transport in South Australia**



#### **PROBLEMS**

- Traffic congestion at bottlenecks, safety,
- High level of private car use
- Expensive proposals

### **SOLUTIONS**

- 'Transport' solutions about 'people + place'
- Space + time efficient transport
  - Bicycles and pedestrians
  - Public transport (w good catchments



### **Economic development + transport**





### www.transport.govt.nz

**Future Demand** Summary report

Economic Development and Transport
Summary report







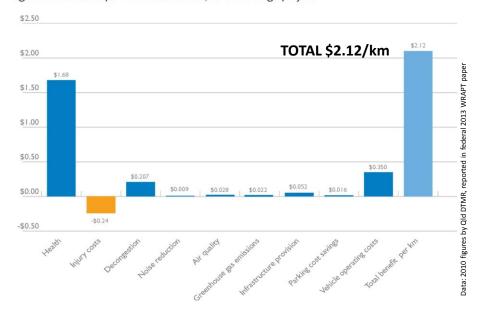
- Most Australians walk at least once a day
- Almost every journey by public transport starts and ends with a walk
- Walking is excellent preventive health tool







Figure 1.2 Benefits per kilometre walked, for an average project



## Why walking matters



### Walking to work benefits the economy:

376,921 people walk daily to work (Census 2011)

x 2.0 km return trip (1km average each way)

x \$2.12/km benefit to economy

= \$1,600,000 benefit to the economy

"\$1.6 million a day from walking commuters"

x 260 working days a year

= **\$416,000,000 / year** to economy

"\$416 million a year from walking commuters





### Walking to public transport benefits the economy:

746,479 people used public transport (Census 2011, BITRE 2014)

Excludes 290,778 who used PT and 'another method'

- x 1.6 km walking distance (400m each way x twice)
- x \$2.12/km benefit to economy
- = \$2,530,000 benefit to the economy

"\$2.5 million a day walking to public transit"

- x 260 working days a year
- = \$658,000,000 / year to economy

"\$658 million a year walking to public transit"



## **Space efficient**





Photo by Cycling Promotion Fund, Canberra



## So why do we make it so hard?







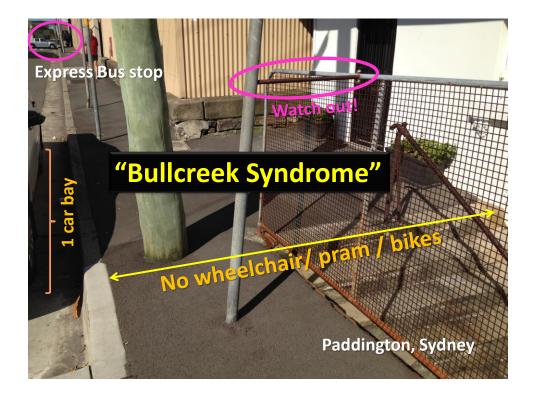
## 'Walking' largely ignored in transport policy

- 'Disability Access' regs
   WITHIN public transport
   (eg. at bus stops)
- Not **TO** public transport in public domain

Walking seen as 'local government' problem









"The distance people will walk to transit depends on the type of transit service, but even more, on the quality of the walking experience."

Brent Toderian, Twitter, 10 Aug 2015



## Why cycling matters



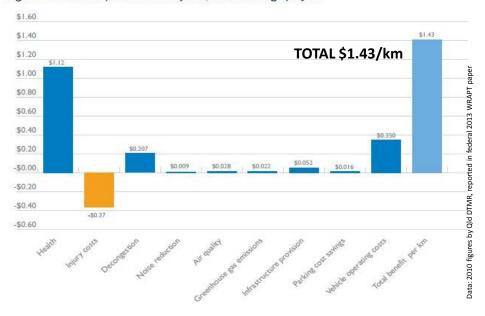
- **4.0 million** Australians ride a bike **every week** =17.4% of the population
- 8.3 million Australians ride at least once a year

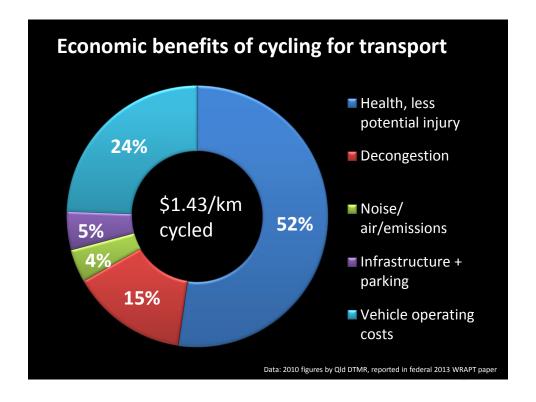


## WHY cycling matters



Figure 1.3 Benefits per kilometre cycled, for an average project





## **WHY cycling matters**



### Cycling to work benefits the economy:

103,893 people cycle daily to work (ABS 2012)

x 9.2km return trip (4.6km average each way, Charting Transport)

x \$1.43/km benefit to economy

= \$1,370,000 benefit to the economy

"\$1.37 million a day from bike commuters"

x 260 working days a year

= \$355,000,000 / year to economy

"\$355 million a year from bike commuters"



## AT = \$1.43 billion every year



## Savings to the national economy by "active travel commuters":

Cycling \$355 million / year

Walking \$416 million / year

Walk to PT \$658 million / year

TOTAL \$1,429 million/ year (in 2011 figures)

"Active Travel saves the national economy

\$1.43 billion a year"



## AT = \$1.43 billion every year



## The next \$ billion?



## The next \$1 billion?



We could save a further \$1 billion
by convincing 350,000 adults to
swap 2-3 hours/week driving to cycle/walk

Low-hanging fruit:

- a) 'Interested but concerned' cohort
- b) Living < 5km from work/study
- c) Living < 2km from major transport hub



(ie. 40km/week cycled)

## **Roger Gellar scale**



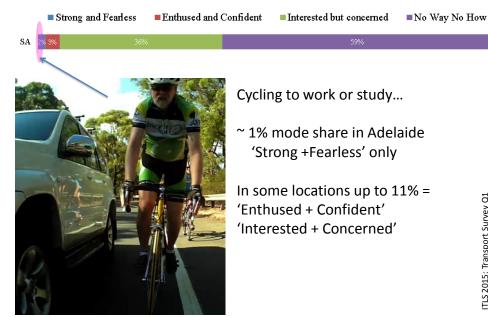
How would you categorise yourself as a bike rider?



## **Beyond 'Strong + Fearless'**



ITLS 2015: Transport Survey Q1



## Low-hanging fruit



b) People who live close to work/study

~ 600,000 (14%) live < 5km from work ~ 700,000 (16.5%) live 5-10km from work

= 1,300,000 adults live < 10km from work Most of them drive.

If a quarter (350,000) swap 2-3 hours/week driving to cycling, we'd save \$1 BILLION annually

4,273,000 people drive to work daily (Census 2011)



## Low-hanging fruit



 c) Leverage public transport assets by expanding catchment potential

ie walk/cycle to train/tram/bus stop

"Bullcreek Syndrome"

(ie. 40km/week cycled)





## **Mawson Lakes Syndrome?**



### What needs to be done



- 1. PLAN
- 2. BUILD
- 3. ENCOURAGE
- 4. CO-ORDINATE



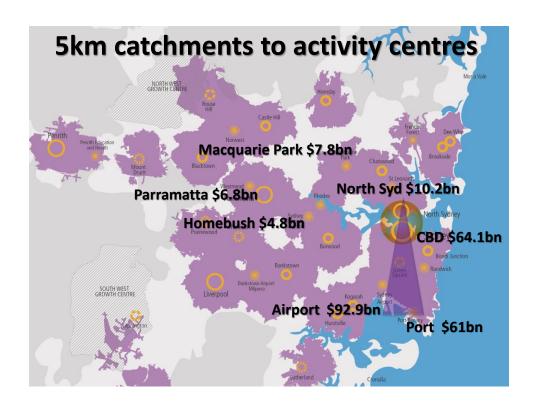
## 1. PLAN



Include walking + cycling when planning for **all** land use and transport:

- Networks of continuous, convenient connections
- Focus on 20-minute catchments
  - 5km bicycle ride / 2km walk
  - Bus stops 400m/ 800m to PT









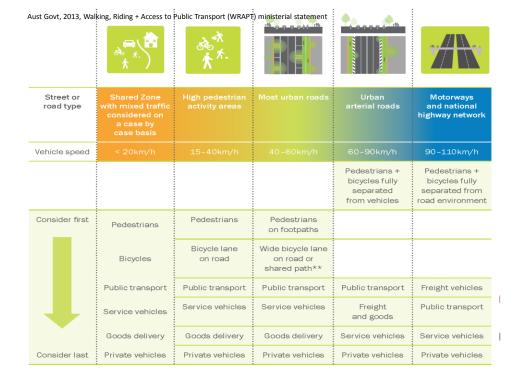
## 2. BUILD



### Deliver appropriate infrastructure:

- Create safe environments
  - Separate from high-speed, high-volume traffic
  - Allocate/ Share road in low-speed, low-volume traffic
- Incorporate when building other infrastructure
- Leverage public transport catchments
- Improve paths, intersections, facilities
  - Prioritise bikes + pedestrians
  - Remove barriers, obstacles, bottlenecks



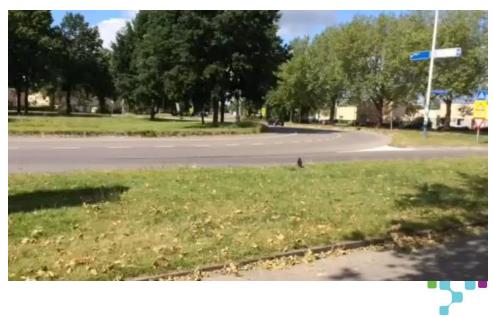






## Build the right infrastructure





## Build the right infrastructure





## 3. ENCOURAGE



## Encourage all ages/ groups to participate:

### Programs and incentives

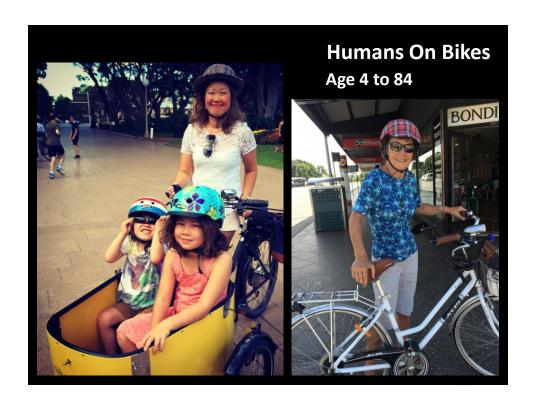
- Inform people of options (eg workplace travel plans)
- Improve skills + awareness (eg driver + cycling skills)
- Encourage kids, parents, employers, workers
- Aspirational, positive, fun!

#### Information

- Good maps, route information
- Real time information (eg bus arrival at stop)







## 4. CO-ORDINATE



## Co-ordinate and fund across agencies:

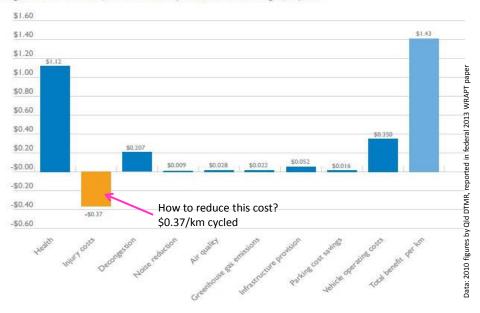
- Link plans to funding
- Best practice governance, monitoring, evaluation



## Injury 'disbenefit'



Figure 1.3 Benefits per kilometre cycled, for an average project



## Injury 'disbenefit'



103,893 people cycle daily to work @ 9.2km

- x \$0.37/km potential injury 'disbenefit'
- = \$354,000 daily injury cost of cycle commuting

376,921 people walk daily to work @ 2.0 km

746,479 people use public transport @ 1.6 km walk

- x \$0.24/km potential injury disbenefit
- = \$468,000 daily injury cost of walk commuting
- x 260 working days a year
- = \$213 million / year 'injury disbenefit' from AT "minimum \$\$ spend" ?

## \$1 billion question



- South Australia's limited funding availability
  - Solution is walking + cycling (and PT)
- Why active transport matters
  - Economic benefits = \$1.43 billion annually
  - 'Low-hanging fruit'
    - a) Interested but concerned
    - b) 2km and 5km catchments
- What needs to be done
  - · Plan, build, encourage, manage
  - Minimise injury \$0.2bn annually





# Reports available from www.linkplace.com.au

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