

### **Providing for Bicycles on Arterial Roads in Growth Areas**

Presenter: Alistair Cumming - VicRoads

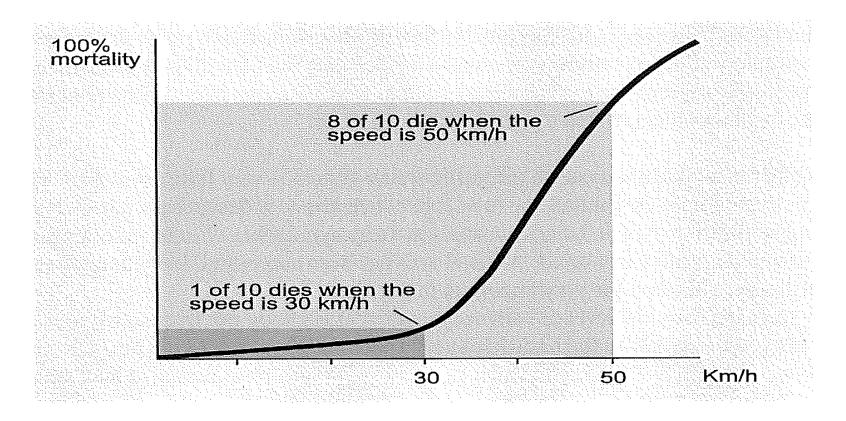
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### Bicycles & Arterial Roads in Growth Areas

- Create a clear and logical rationale for bicycle facilities arterial roads in Growth Areas
- Provide bicycle facilities that appeal to the widest cross-section of riders
- Proactively consider Bicycle Rider Requirements
  - Space to Ride
  - Smooth Surface
  - Speed Maintenance
  - Sight Lines
  - Connectivity
- Have a high regard for the safety of all road users, particularly unprotected bicycle riders and pedestrians

## Fatality Risk and Collision Speed



#### Probability of Pedestrian / Cyclist Fatality by Car Collision

## A Way Forward

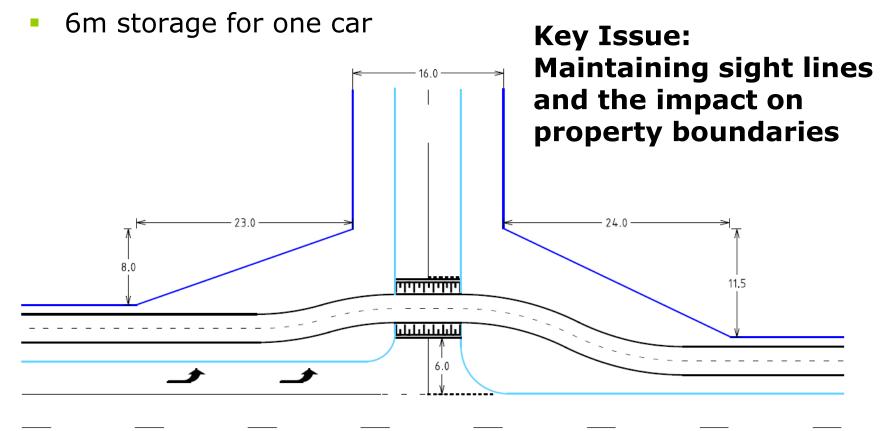


- On-road bicycle lanes have safety risks
- But off-road paths would need to be designed to provide for a broader range of cyclists
- The level of service currently provided by paths would need to be increased
- Arterial roads are a barrier Two way paths would be needed on both sides of the road
- Space to Ride 3m wide paths
- Smooth Surface Quality and well maintained
- Sight Lines Safe at cycling speeds
- Connectivity Connected to other bike facilities and key destinations
- Speed Maintenance Priority at side roads, slip lanes, and service roads

# Priority at Side Roads

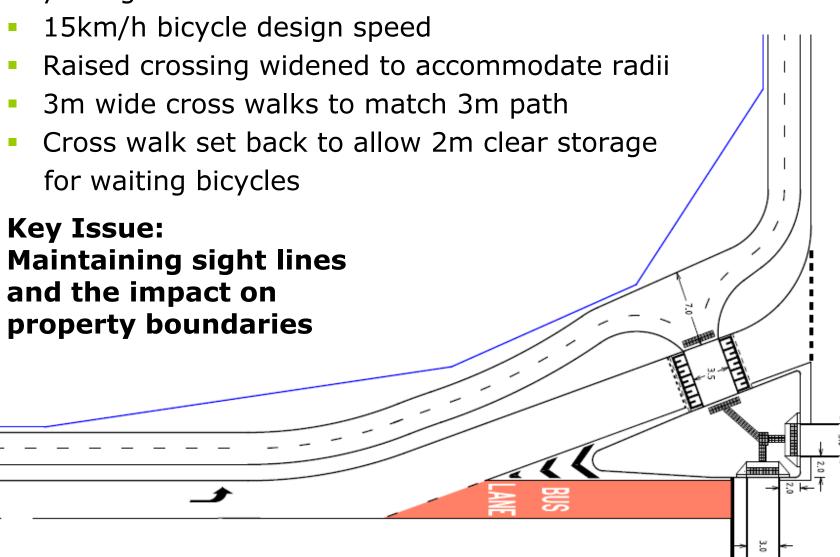
#### Key design elements include:

- 30km/h bicycle design speed
- Raised crossing for bicycles
- Speed device for motor vehicles



### Priority at Slip Lanes

Key design elements include:



### Service Roads

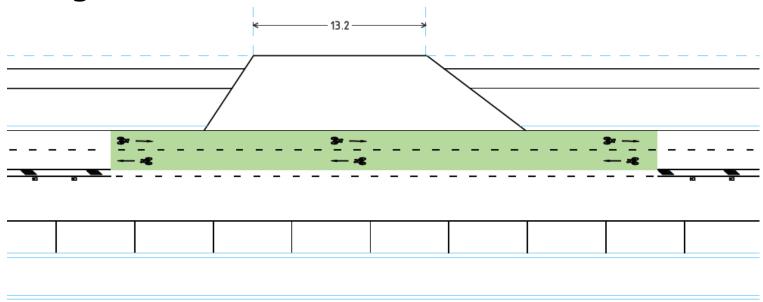
The Challenge:

Two way "off-road" bicycle movements on a one way road Best Option:

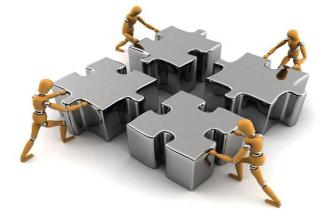
Two way "on-road" separated bicycle path with parking adjacent to separator

### **Key Issue:**

The issue of contra flow bicycles not being seen by exiting vehicle drivers



# The Challenges Ahead



- Accepting the impact on property boundaries to achieve safe sight lines
- Realising that raised crossings on side roads and left turn slip lanes will be needed to focus motor vehicle drivers attention
- Dealing with service roads and unexpected contra flow bicycles
- Figuring out what to do with roundabouts and bicycles
- Achieving a high enough level of service to attract most of those riders who would have used the road