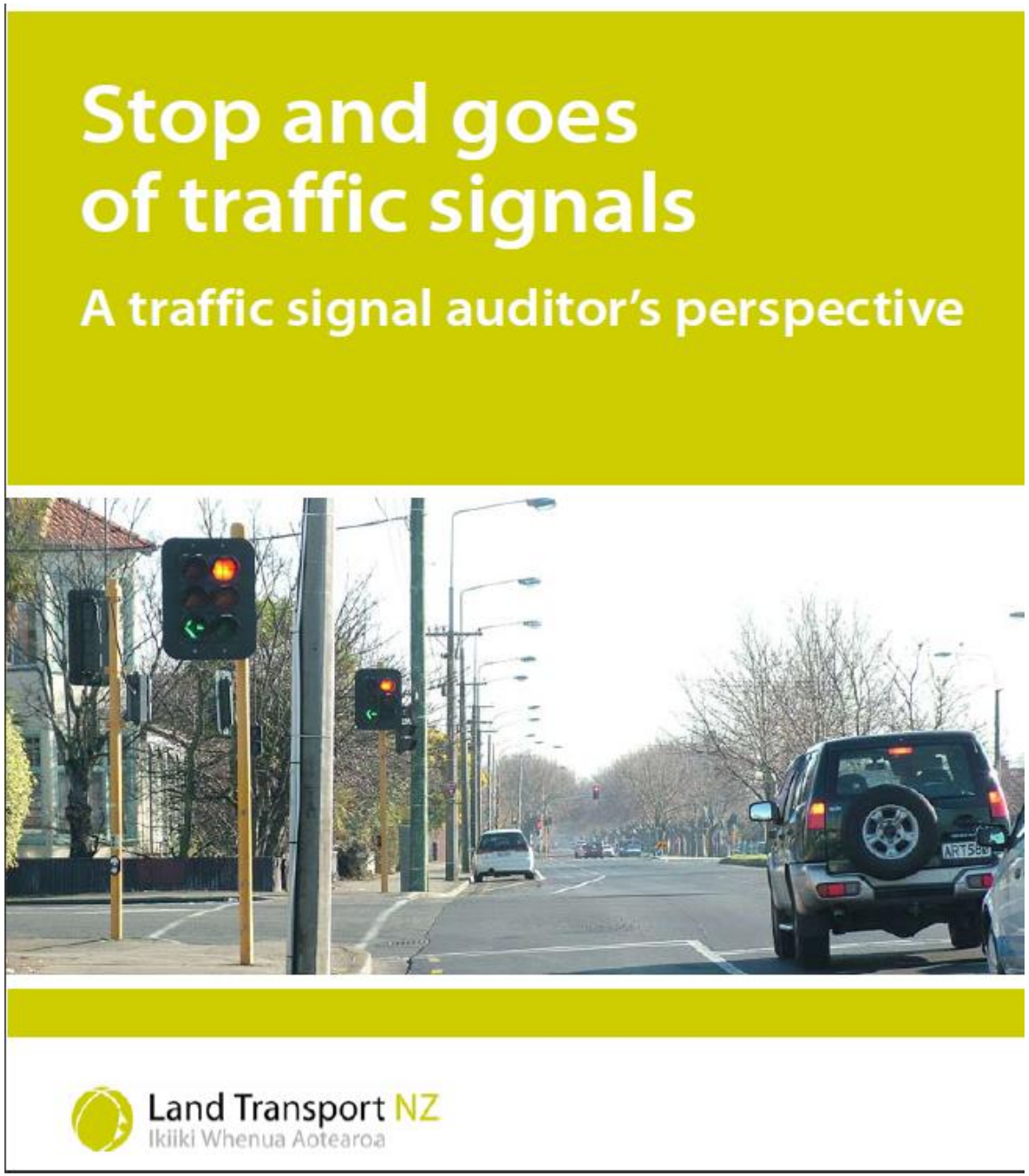


Stops and goes of traffic signals

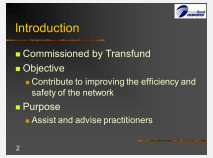
Looking backwards and forwards

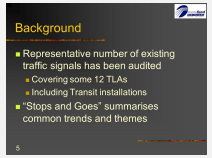
Axel Downard-Wilke

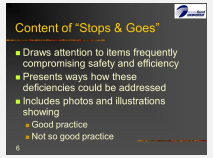
Aug 2023

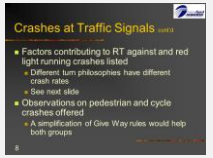
VIASTRADA

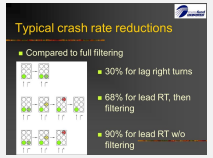
2004 SNUG presentation

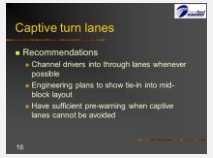


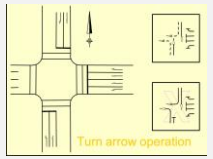


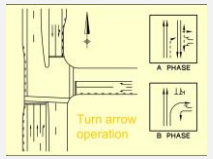


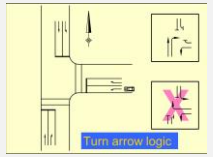


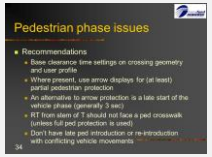


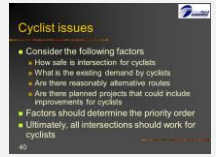












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2004 SNUG presentation (slide 1)

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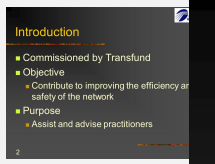
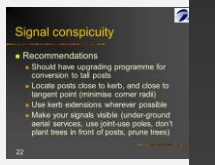
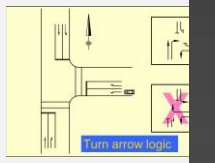
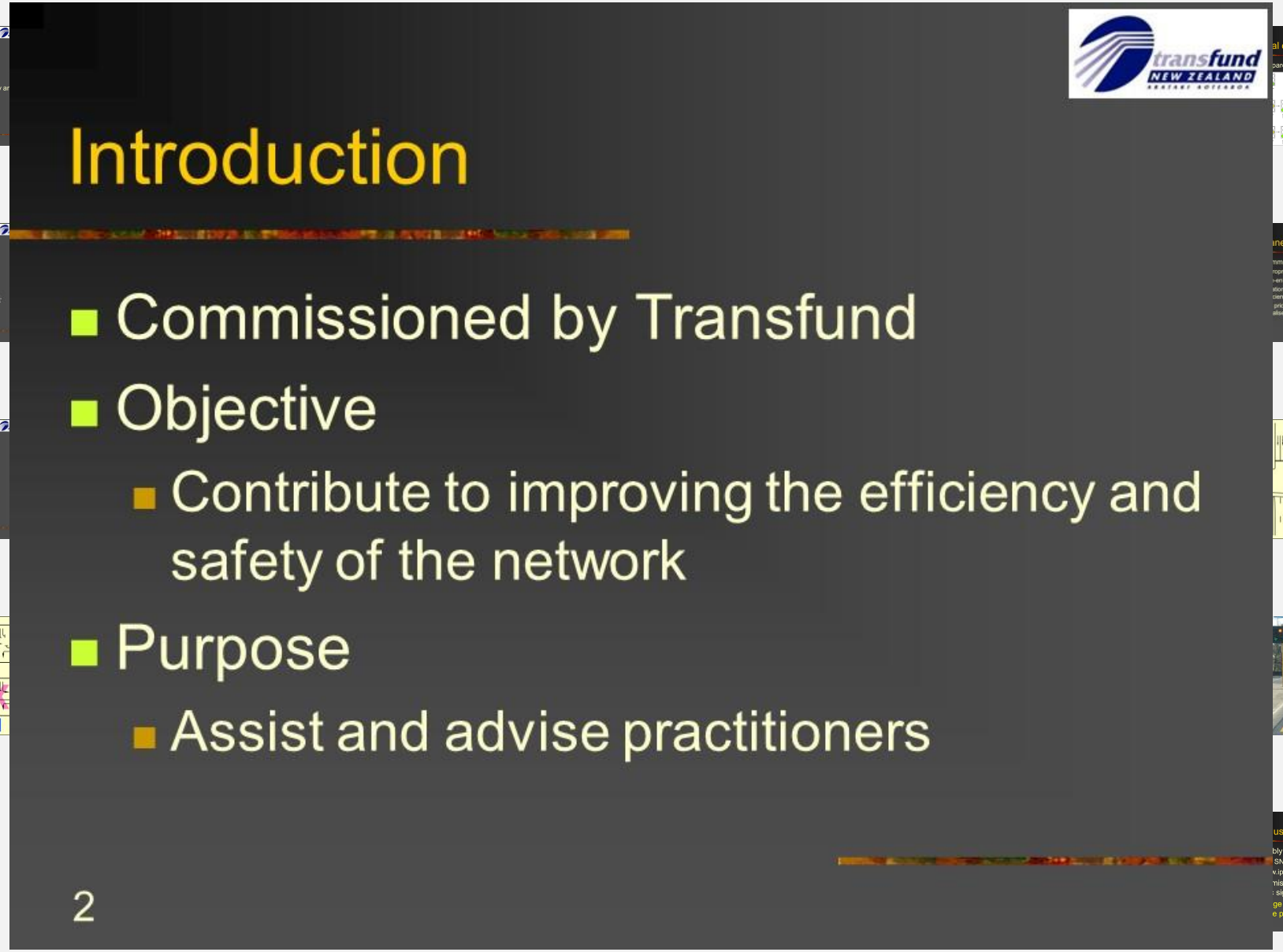
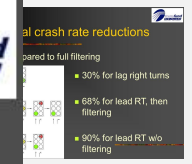
2004 SNUG presentation (slide 2)

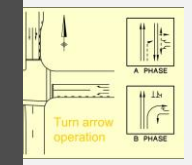


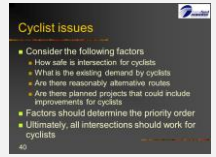


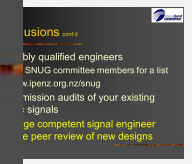




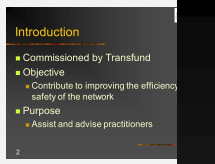


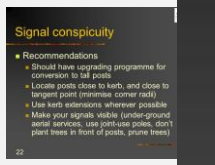






2004 SNUG presentation (slide 5)

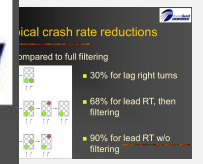


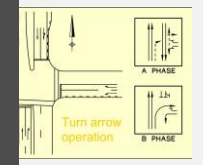


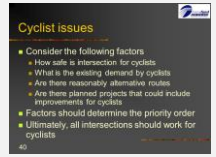
Background

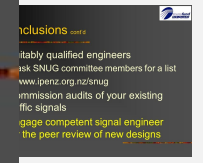
- Representative number of existing traffic signals has been audited
  - Covering some 12 TLAs
  - Including Transit installations
- "Stops and Goes" summarises common trends and themes

5







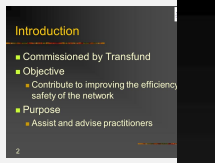


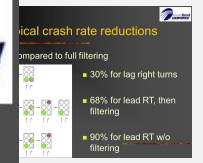
2004 SNUG presentation (slide 6)

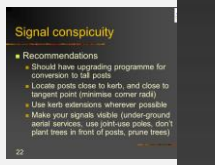
Content of "Stops & Goes"

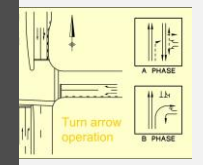
- Draws attention to items frequently compromising safety and efficiency
- Presents ways how these deficiencies could be addressed
- Includes photos and illustrations showing
  - Good practice
  - Not so good practice

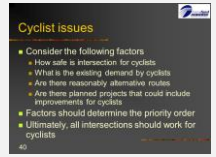
6

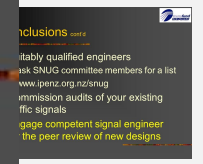




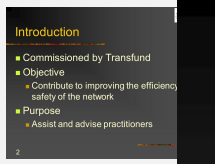


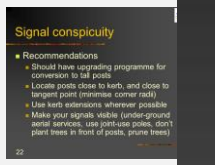


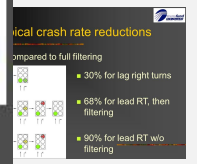


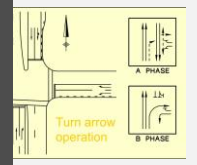


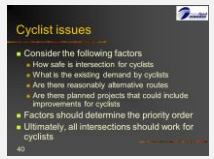
2004 SNUG presentation (slide 45)

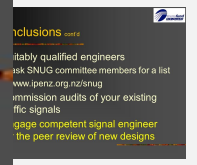




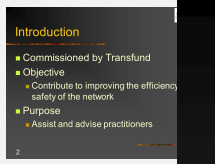


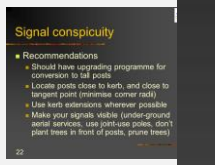


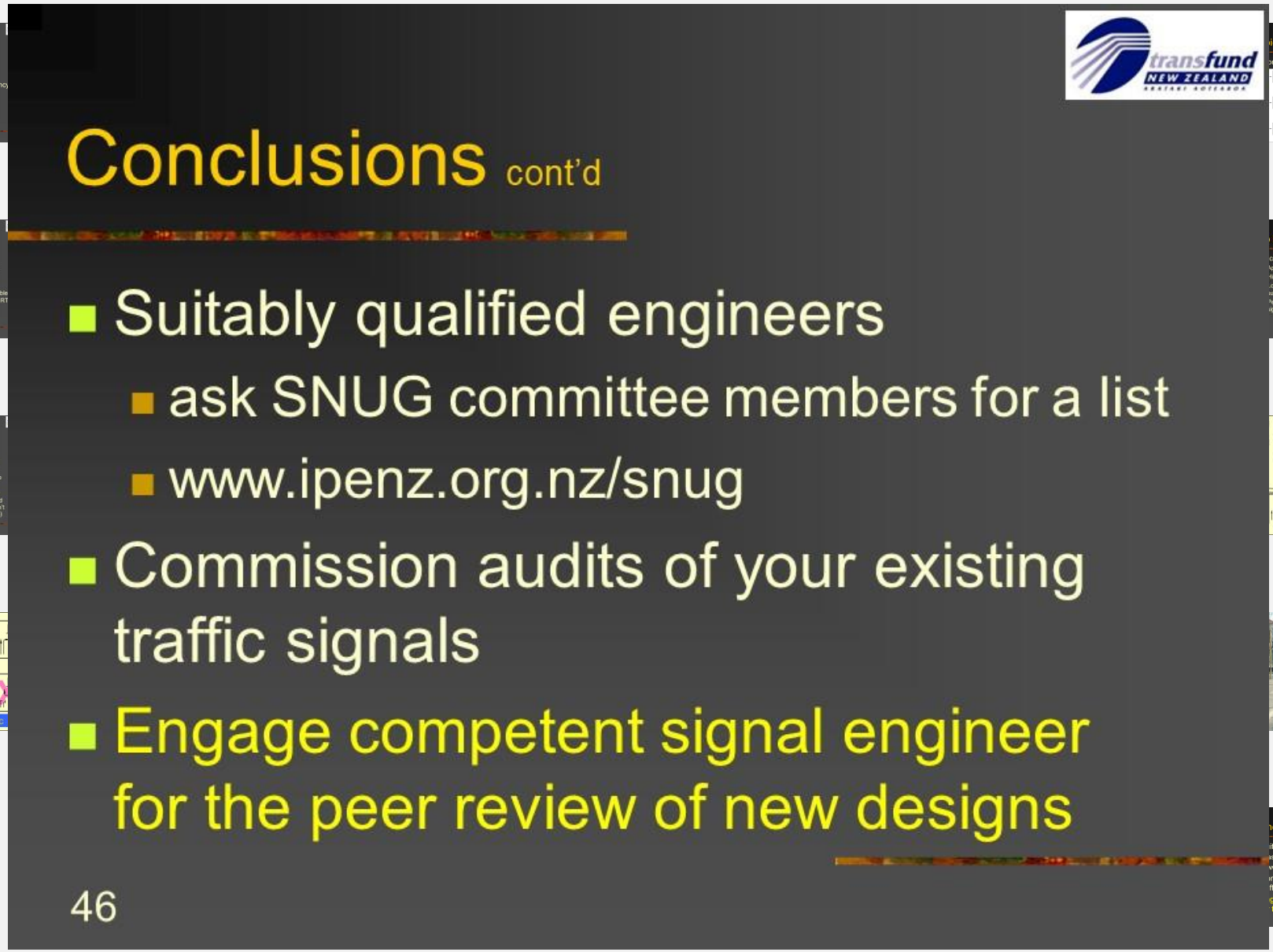


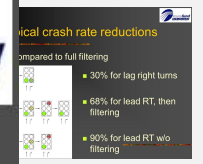


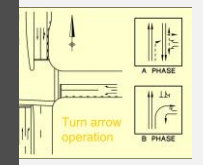
2004 SNUG presentation (slide 46)

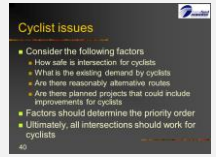


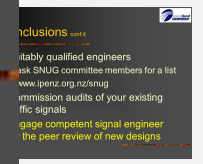












2022 SNUG presentation (Martin Huang)

VIASTRADA

2022 SNUG presentation (Martin Huang)

Next steps

Rewrite/update the document to reflect the following:

- Crash search / patterns refinement
- Cyclists / pedestrian best practice at signalised intersections
- Bus priority at signalised intersections
- A checklist for future traffic signal review / audit

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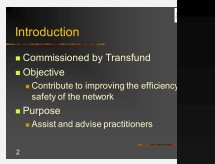
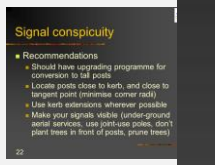
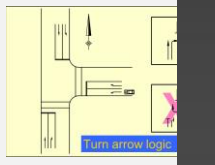
2004 SNUG presentation (slide 46)

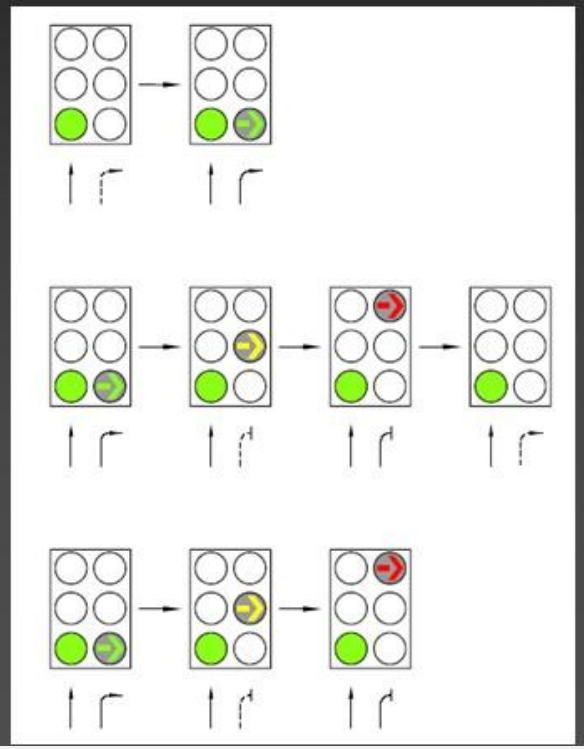




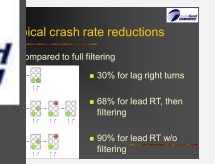


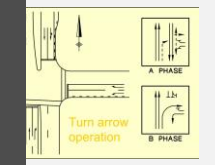
Typical crash rate reductions

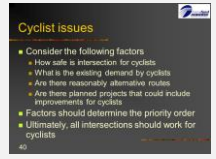
- Compared to full filtering

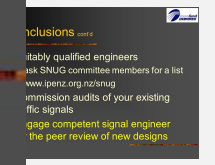


- 30% for lag right turns
- 68% for lead RT, then filtering
- 90% for lead RT w/o filtering







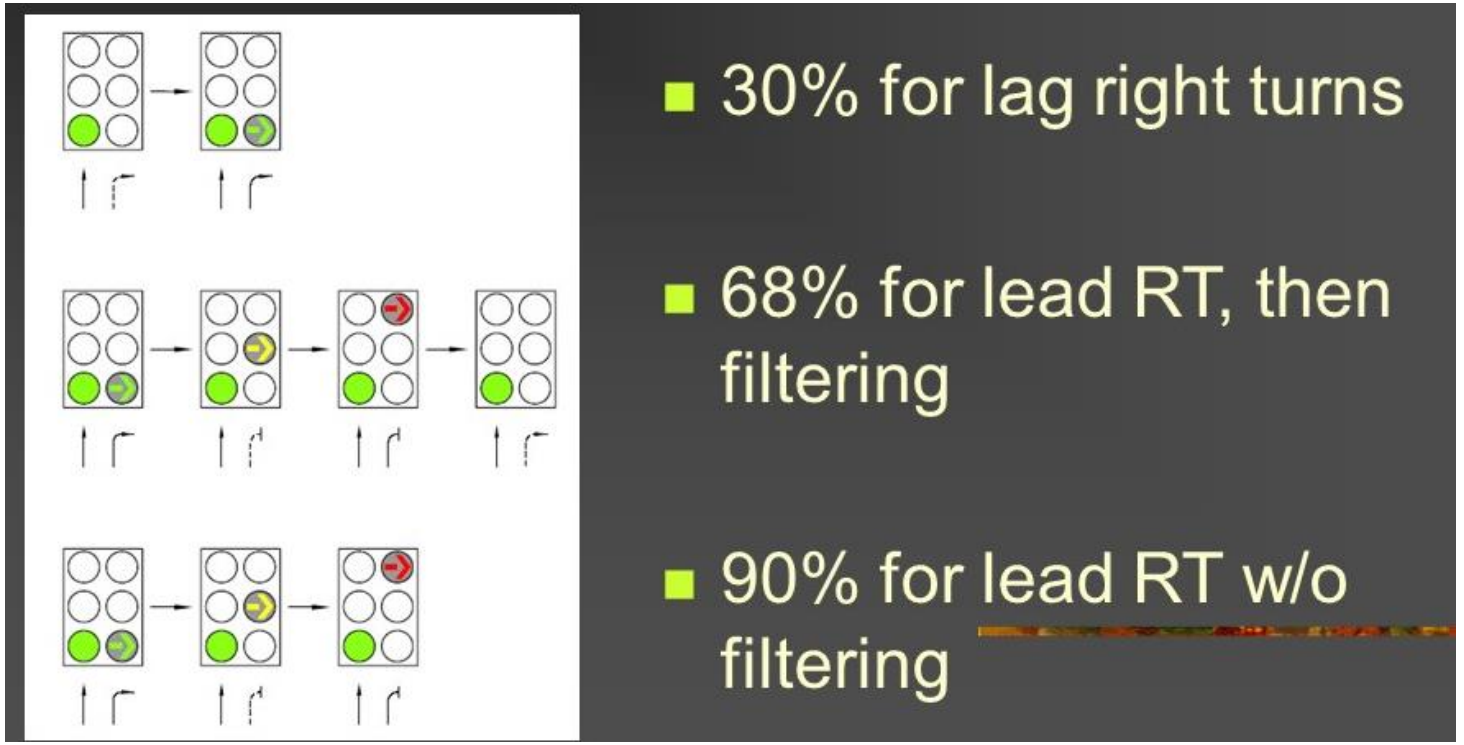


Crash search / patterns refinement (2)

My thoughts

- This can be done
- Will be time-consuming
- What will we learn from it?

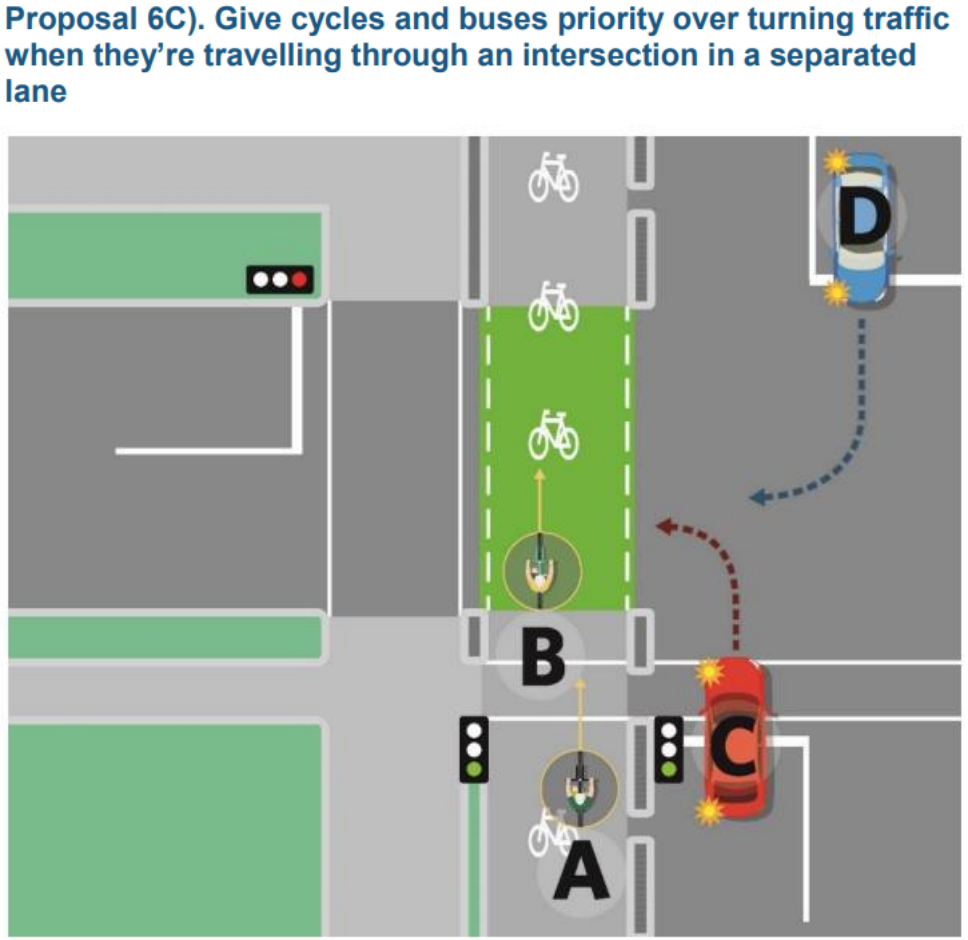
- Hence – is it worth it?



Cyclists / pedestrian best practice

My thoughts

- Cycle best practice is useful
  - Will change completely when *Accessible Streets* package is passed
  - When will that happen?
  - CNG info is not comprehensive
- Pedestrian best practice is useful
  - Good guidance in the PNG, though
  - Signalised crossings
  - Signalised intersections

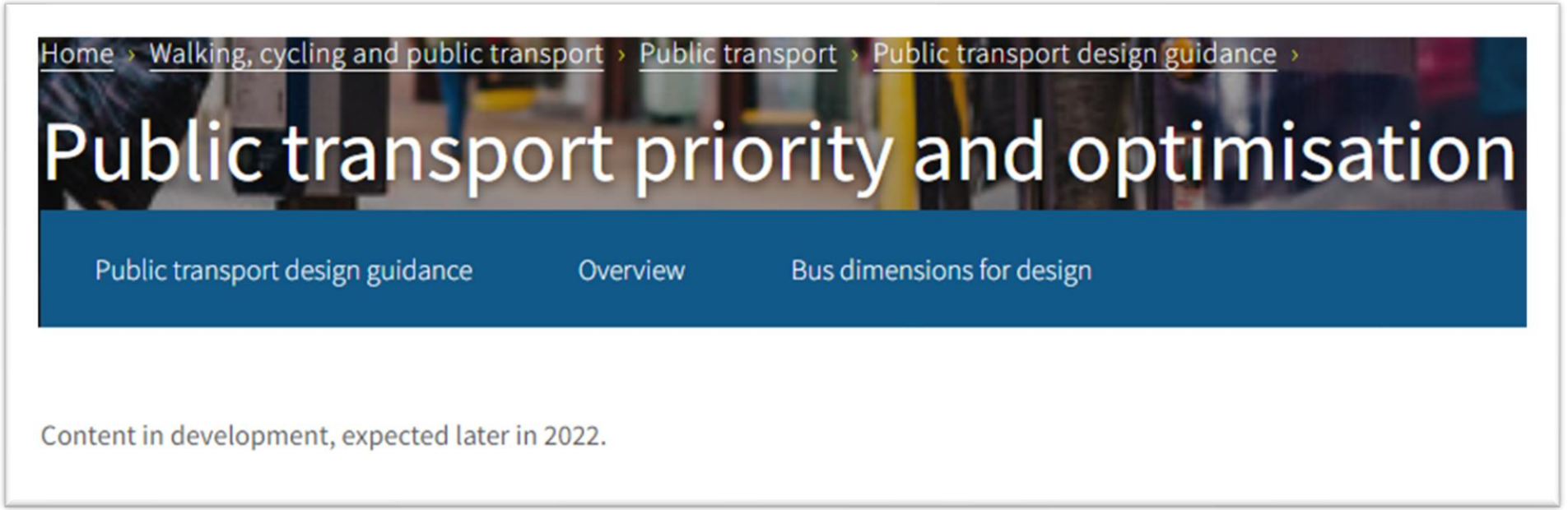


Accessible Streets consultation (Mar 2020)

Bus best practice

My thoughts

- Bus priority is super-useful
- What will be included in the upcoming PTDG?
  - Not useful to duplicate efforts



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Review / audit

My thoughts

- Checklist for future traffic signal review / audit
- Should we be doing those audits?
  - Yes
  - It needs to be centrally organised, like it was 20 years ago
  - I don’t expect TLAs to do that on their own
  - If there’s no desire for central coordination, this is not needed

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Discussion

- Crash search / patterns refinement
- Cyclists / pedestrian best practice at signalised intersections
- Bus priority at signalised intersections
- A checklist for future traffic signal review/audit

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We share more knowledge on

www.viastrada.nz

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TRANSPORT PLANNING AND DESIGN