

# Views from the transport profession about handling an uncertain future

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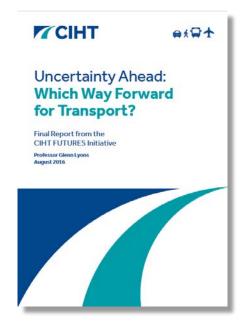
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### Overview

#### • The rearview mirror

- Change, uncertainty and regime transition
- From Future Demand in New Zealand to CIHT FUTURES in the UK
- Insights from the UK transport profession
  - Plausibility of different futures versus official forecasts
  - Responding to an uncertain future
- Recommendations





# Givens of automobility?

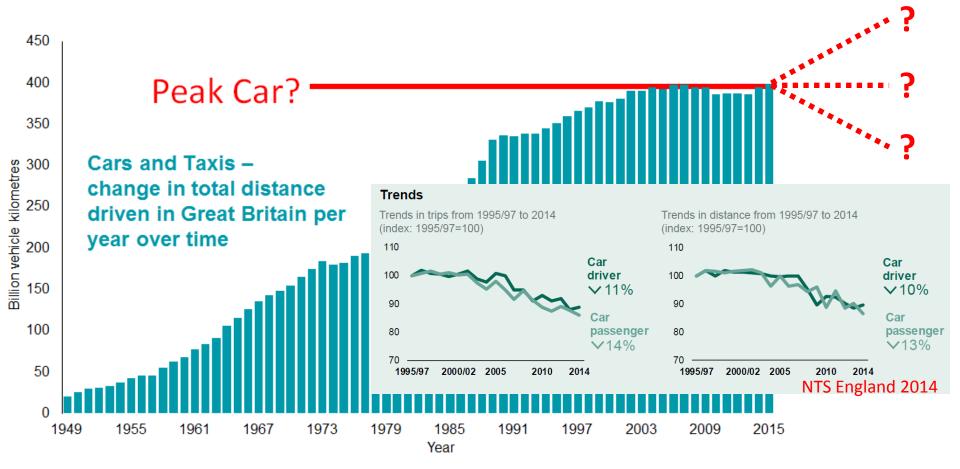
# Car traffic keeps on growing

### You can't have economic growth without traffic growth

http://commons.wikimedia.org/wiki/File:France-Paris-Traffic1.JPG?uselang=en-gb



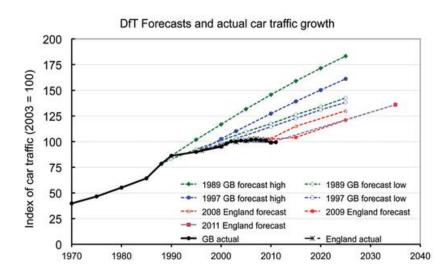
### Change, uncertainty and regime transition

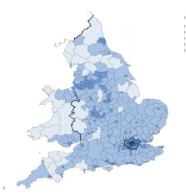


Source: National Road Traffic Survey, Department for Transport – Chart TRA0201a

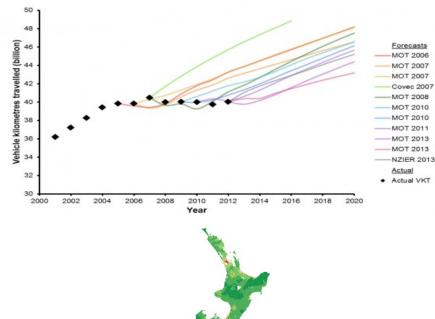
### The future isn't what it used to be



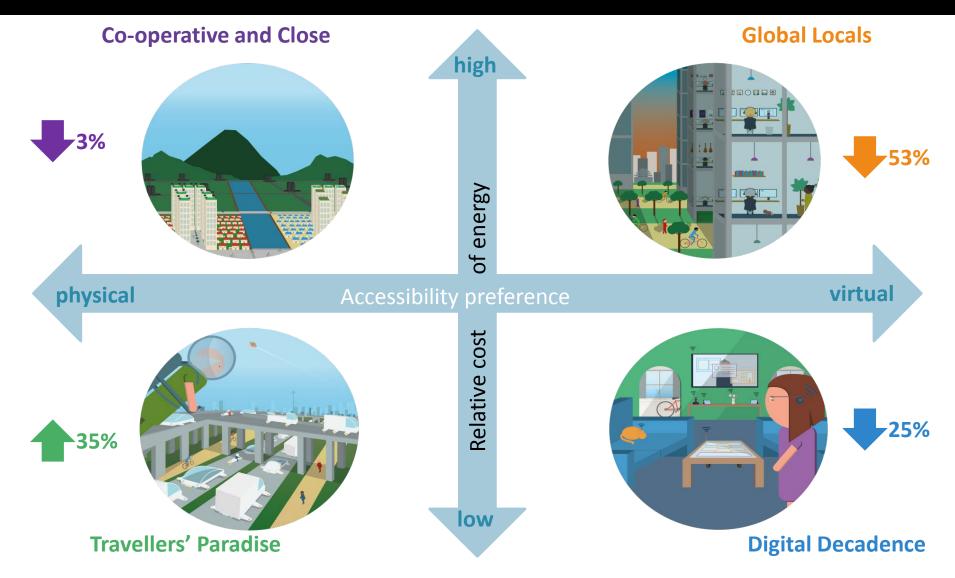




Historic New Zealand light vehicle traffic forecasts vs actual growth

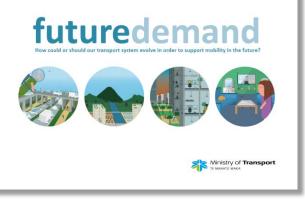


### Divergent, plausible futures



Percentage change in total distance travelled by car from 2014 to 2042

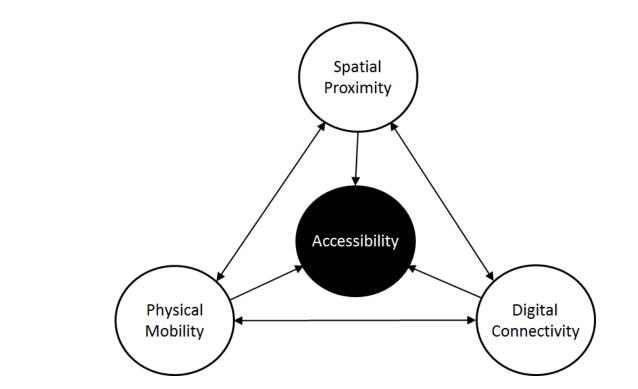
## Emerging principles from engaging with uncertainty

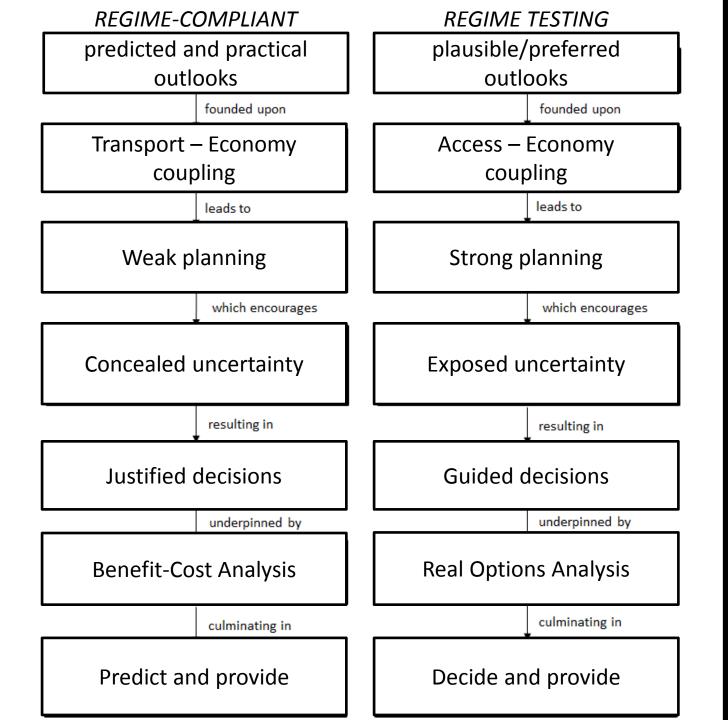


http://www.transport.govt.nz/ourwork/ keystrategiesandplans/strategic-policyprogramme/future-demand/

Transport

- Access not mobility is key to a thriving society
- A need for **resilient** provision of access that provides for **adaptability** of behaviour over time
- A focus on evolving our transport system for the demand we believe to be **appropriate** rather than that we are tempted to predict





Which path-way are we on?

Which path-way is desirable and achievable?

# **CIHT FUTURES**

11 workshops covering all 12 CIHT regions

Over 200 CIHT members engaged



Examining uncertainty and plausibility

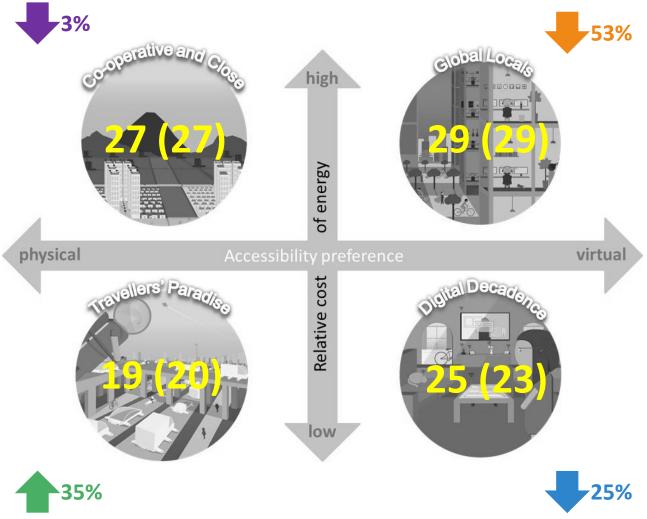


Reviewing policymaking pathways

Drawing out life experience

http://www.ciht.org.uk/en/knowledge/futures/

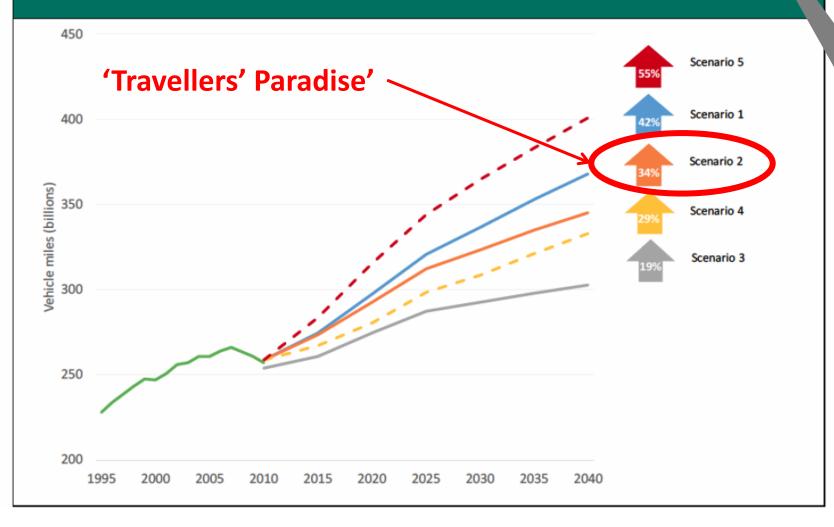
# Percentage of plausibility assigned to each scenario before (and after) discussion



- Collective uncertainty confirmed
- High > low energy future
- Virtual > physical future
- Travellers' Paradise considered least likely
- Modest changes from before to after discussion (though more individuals changed)

#### DfT Road Traffic Forecasts 2015



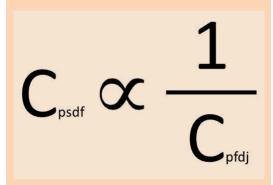


"Clearly forecasts of the inputs are very uncertain"

# Insights from the transport profession - uncertainty

- A collective voice of rather deep uncertainty about the future
- Overall, professional opinion about future uncertainty is at odds with official forecasts
- Giving a voice to different generations helps to guard against decision bias (cognitive fluency and confirmation bias)
- The transport sector alone is ill-equipped to grasp the extent of socio-technological transformation
- Transport infrastructure's *use* is the big unknown (albeit that when provided, new capacity has typically been well-used)
- Successive political administrations create uncertainty for transport policy and its implementation and hence for the transport profession itself
- Lack of coherent strategy and depleted local government capability limits the ability to steer the transport sector
- New disruptive forces from beyond the traditional transport industry may be moving into the driving seat
- A sense of professional impotence arises from being on the back foot, lacking a national transport strategy and a lack of skills within the profession to confront the uncertainty faced

Professional Comfort Formula



- psdf plausibility of
  significantly different
  futures
- pfdj processes followed in the day job

## Insights from the transport profession - concerns

- Election imperatives, fashionable ideas and reactive funding stand in the way of a professional approach to long-term planning and a strategy to deliver outcomes
- The transport sector is subject to vested interests, risk aversion and a 'rearview mirror' mentality that results in inertia to change
- Strategic planning and development is at the mercy of the mechanisms employed and motivations at play to arrive at decisions a sense that the tail is wagging the dog
- Little support is provided to develop transport professionals beyond becoming chartered towards becoming leaders and helping future-proof the profession



The sector needs to challenge its professional models and broaden its field of view



# Insights from the transport profession - which policy and investment pathway?

- A strong call from transport professionals for change from our current approach of regime compliance
- Regime compliance suits politicians who need to project an air of confidence in investment decisions – 'people like numbers'
- Familiarity with tried and tested approaches, existing skillsets and resource constraints contribute to its continued prevalence
- Transport professionals do not necessarily believe in the approaches they follow but which they feel compelled to follow nevertheless and lack the confidence to challenge
- We have seen responsibility eroded in place of a growing culture of accountability
- In terms of pragmatism and fitness for purpose, some combination of regime-compliance and regime-testing is called for (and is deliverable, with appropriate support and guidance)
- Leadership of change is crucial and possible as we enter an era of devolved transport powers and bodies such as Highways England and the National Infrastructure Commission
- Skillsets are perhaps the most challenging resource to address



We are *accountable* to the dogma and procedures of regime compliance instead of *responsible* for stewardship of the future through regime testing

# Insights from the transport profession - engagement

- A need for further events that can foster collaborative exchange of thinking and help individuals to learn and develop – across professions and including decision makers
- The transport profession needs to be more engaged with the IT profession and further other professions
- Silent support is overshadowed by vocal opposition more creative approaches to public engagement are called for
- Stronger engagement is a potentially important source of creative ideas as well as buy-in if handled effectively



A need for publics engagement to replace the vocal minority of usual suspects in consultation

### Recommendations

- Information pack to help enable others explore uncertainty; and collaborative development of a wider set of 'futures' resources
- Professional practice guidance to help challenge and evolve the pathways we follow (including a 'know your limits' campaign in relation to reporting of quantitative results)
- Help establish an early career professionals' network to critically examine development of the profession and build confidence to engage and challenge

for CIHT

beyond CIHT

- Consider ways of (further) promoting and celebrating best practice in public engagement
- Strategic planning exercises should set aside a modest budget share to introduce constructive challenge from a regime-testing perspective
- Help ensure that candidates for professional qualifications can demonstrate both an awareness and application of the regime-testing approach and a capacity to challenge dogma
- Key transport sector organisations to jointly establish a leadership development programme
- Key bodies, including the Transport Select Committee, to consider the issues raised in the interests of ensuring responsible stewardship of the future

We need to be brave and embrace the uncertainty of the future, recognising the opportunities that this presents to shape the future

**CIHT FUTURES participant** 

# **Further reading**

Lyons, G., Davidson, C., Forster, T., Sage, I., McSaveney, J., MacDonald, E., Morgan, A. and Kole, A. (2014). *Future Demand: How could or should our transport system evolve in order to support mobility in the future*? Final Report. New Zealand Ministry of Transport, Wellington, New Zealand.

http://www.transport.govt.nz/ourwork/keystrategiesandplans/strategic-policyprogramme/future-demand/

Lyons, G. (2015). Transport's Digital Age Transition. *Journal of Transport and Land Use*, 8(2), 1-19. <u>http://dx.doi.org/10.5198/jtlu.v0i0.751</u>

Lyons, G. and Davidson, C. (2016). Guidance for transport planning and policymaking in the face of an uncertain future. *Transportation Research Part A: Policy and Practice*, 88, 104-116. <u>http://dx.doi.org/10.1016/j.tra.2016.03.012</u>

Lyons, G. (2016). *Uncertainty Ahead: Which Way Forward For Transport?* Final Report from the CIHT FUTURES Initiative, Chartered Institution of Highways & Transportation, August, London. <u>http://www.ciht.org.uk/en/knowledge/futures/</u>