Road Investment Strategies

Speaker 1: Glenn Lyons







Why don't we just... The perplexing future of road investment

Professors Glenn Lyons and Steve Gooding University of the West of England, Bristol







Overview

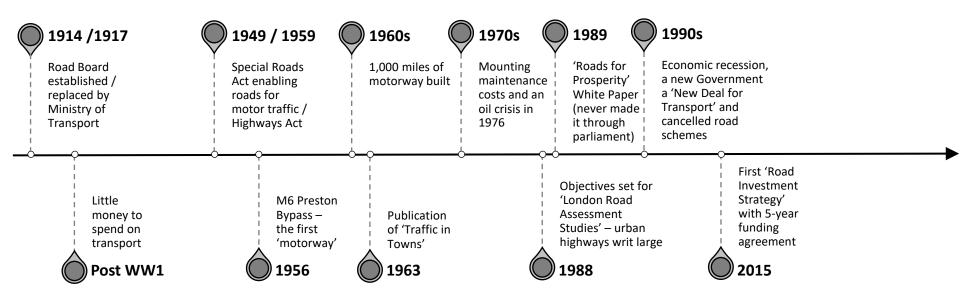
- Once upon a time... (a very brief history of roads)
- Winds of change (affecting the context of road investment)
- Under scrutiny (causes of concern that need to be addressed)
- Conundrums (why the future of road investment is in deep fog)

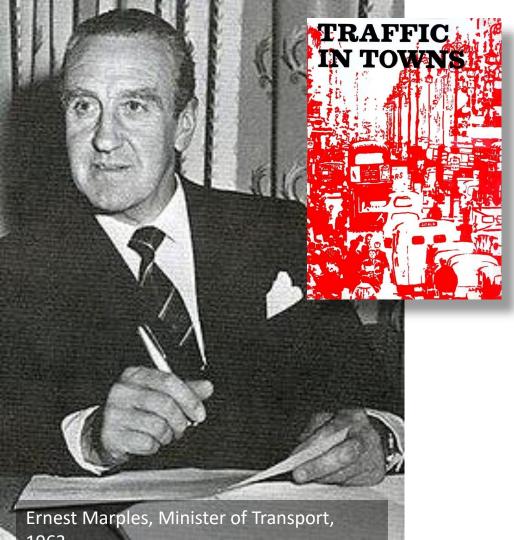
Spoiler alert (look away now)

- In 1957 the UK didn't have a motorway, now it has a quarter of a million miles of roads overall
- With a climate emergency and a huge asset to maintain, building more road capacity may not be a good idea
- Road investment and expenditure face some tough questions if we are to be persuaded of sound decision making ahead
- Road investment evades the clutches of technocratic governance leaving subjective judgement in the face of conundrums

Once upon a time...

Timeline





we must try to plan our towns so as to give the maximum use of this great and beneficial invention, the motor car, ...

... which at the same time, if it is proliferated too much, will strangle us

UK Parliament

Hansard

<u>UK Parliament</u> > <u>Hansard</u> > <u>Commons: 13 July 1988</u> > Written Answers > Transport

London Assessment Studies

Volume 137: debated on Wednesday 13 July 1988

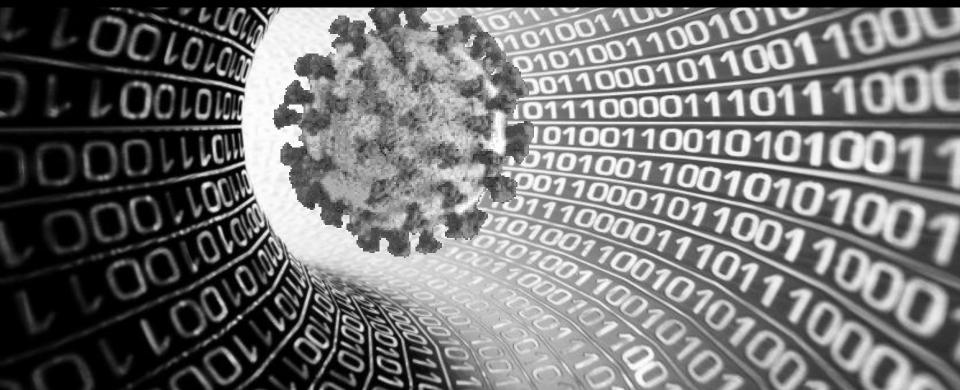
Download text

Peter Bottomley, Minister of Roads and Traffic

It should be noted that these objectives cannot be considered individually, they need to be considered together. For example freedom of choice should not be regarded as an absolute condition and will be assessed as it relates to the other objectives.

Winds of change

The digital age changing how we access people, employment, goods and services in society – and propelled further forwards by the Covid-19 pandemic



A heightening sense of urgency surround climate change



Stop the road to climate chaos

Road building is making it harder to tackle climate change, increasing CO₂ emissions when we urgently need to reduce them



Legal challenges to new capacity-enhancing road schemes

Under scrutiny

Key questions for road investment and spending

January 2023







Time to speak up about road investment

decarbonisation biodiversity health and social impacts maintenance and optimisation safety consideration of alternatives obustness of investment decisions in a changing world The seven questions the panel poses

1 What would make us feel confident that decisions on future road investment, at both the scheme and aggregate level, are consistent with the legal obligation to deliver a credible pathway to the **decarbonisation** of the UK economy by 2050?

The Future of Road Investment and Scrutiny

Eight professors speak with one voice of constructive concern on the future of

> 2 What would make us feel confident that the policy imperative and opportunities to promote **biodiversity enhancement** are being recognised and pursued on their own merits, as opposed to biodiversity being 'accommodated' in pursuit of other goals?

3 How can we be persuaded that the **health and social impacts** of road spending experienced by individual people and communities are well understood and given sufficient weight at all stages of decision-making?

4 What would give us confidence that appropriate financial provision is being made for **operating, maintaining and optimising** the performance of the existing road network?

5 What would persuade us that options for investing in **improving road safety** are being identified and weighed appropriately?

6 What would persuade us that road investment and expenditure decisions at the scheme and programme level - are the result of serious consideration of a **genuinely broad range of options** and their merits?

7 What would persuade us that road investment and expenditure decisions are likely to represent **value for money over the long term**?

Common

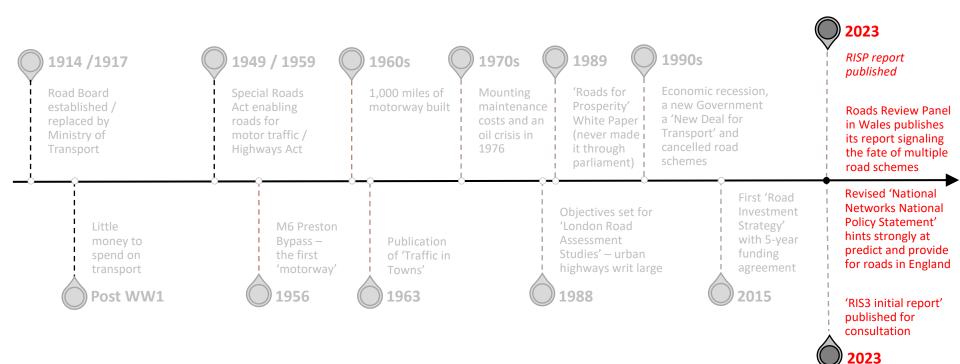
- the need for more transpatence and Scrutiny of decisions
- a need for a more clearly coherent approach to decisions demonstrably consistent with broader obligations, including statutory requirements in areas such as decarbonisation and biodiversity
- a wish to see that individual schemes are fully and proportionately **compliant** with evolving procedural obligations and standards
- a need to ensure that decision-making is **well-informed** and draws upon a wide and **diverse range of expertise and perspectives**
- a sense that all of the above could be well-served by a greater role for independent scrutiny of decision-making

RISP recommendation

- However challenging, Government should:
- i. publish a projection of the change in vehicle miles by carbon-emitting vehicles necessary or prudent to stay within an acceptable carbon reduction trajectory (recognising that this will have to be carried out against an uncertain crosssectoral backdrop)
- indicate with sufficient confidence how such change can be achieved in practice in the required timescale (recognising that time is getting very short for fresh measures to be developed and implemented)
- iii. make this analysis available as the basis for decisions on individual capacity-increasing road schemes



Timeline



Conundrums

- Where, and by what means, should we create additional road capacity?
- ii. How should we manage the consumption of the road capacity that we have?
- iii. How should we **look after the road capacity** that we have?

Except between these questions, and answers that can win wide support, are two

...a conundrum being...

Perplexing: completely baffling; very puzzling

Conundrum:

a question or problem having only a conjectural answer

→ Conjecture:

an opinion or conclusion formed on the basis of incomplete information



What makes you confident that the nature and extent of the benefits you seek to achieve will be realised?

Central forecast False precision Benefit-Cost Ratio



What future is best for society and why?



 Image: Parliament

 Hansard

 Lktratiament > Lansard > Commens: 31.adv/388 > Written Answers > Transport

 London Assessment Studies

 Volume 137: debated on Wednesday 13 July 1988

 In continued

Halcyon days?



These questions remain conundrums whether addressed technocratically or politically or in combination



Yet perplexing though they may be, answer them we must, since even doing nothing is really a decision to carry on regardless All judgements about the provision of road capacity are necessarily subjective, because they hinge on **forecasts** and assessments of **relative values**

Nevertheless they should be:

- as well-informed as they reasonably can be
- taken and documented in a way that allows for transparency
- taken with as clear and sharp a focus on the downside risks as on the upside benefits

We judge that there is now a strong argument for re-calibrating our public policy attention away from capacity enhancement and toward capacity preservation (maintenance and resilience) and management (road space allocation)



Sociologist Robert Merton 1936

"Imperious Immediacy of Interest"

instances in which an individual wants the intended consequence of an action so badly that he or she purposefully chooses to ignore unintended effects

Road Investment Strategies

Speaker 2: John Parkin





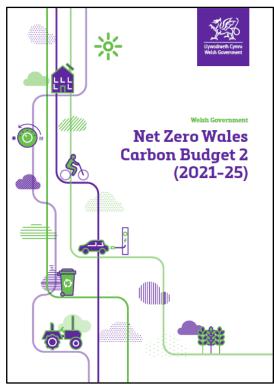


Behind the headlines: the Welsh Road Review Panel's future road planning and design recommendations

> Professor John Parkin John.parkin@uwe.ac.uk





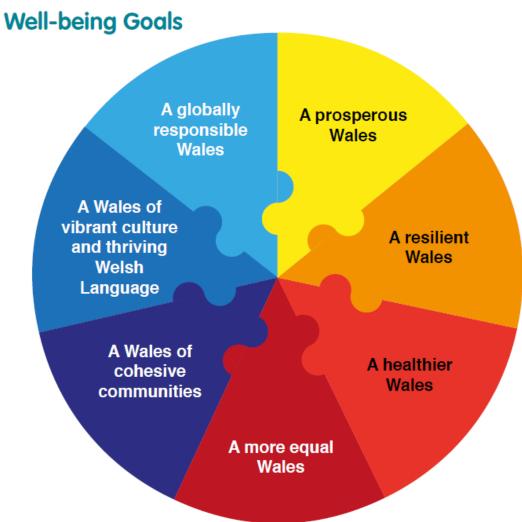




"Transport generates around 17% of all our emissions, so must play its part if we are to reach our target of net zero emissions by 2050. We need to move away from spending money on projects that encourage more people to drive, and redirect this money on maintaining our existing roads and investing in real alternatives."

Lee Waters, the Deputy Minister for Climate Change, when announcing the review of planned expenditure on roads





https://gov.wales/well-being-of-future-generations-wales



OUR VISION

An accessible, sustainable and efficient transport system

Priority 1

Bring services to people in order to reduce the need to travel

Priority 2

Allow people and goods to move easily from door to door by accessible, sustainable transport

Priority 3

Encourage people to make the change to more sustainable transport

WELL BEING AMBITIONS

Good for people and communities

Good for the environment

Good for places and the economy Good for culture and the Welsh language



https://gov.wales/llwvbr-newvdd-wales-transport-strategy-2021



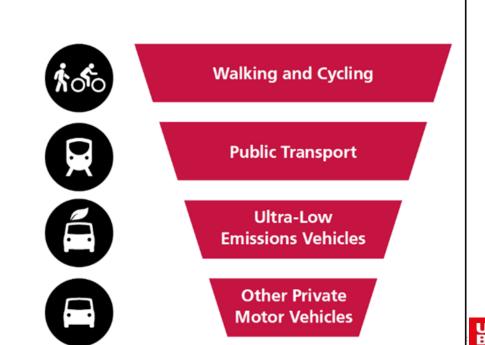


The Sustainable Transport Hierarchy

We will continue to make best use of existing transport infrastructure by maintaining and managing it well.

We will also adapt it to a changing climate and upgrade it to support modal shift.

Where we need new infrastructure, we will use the Sustainable Transport Hierarchy.



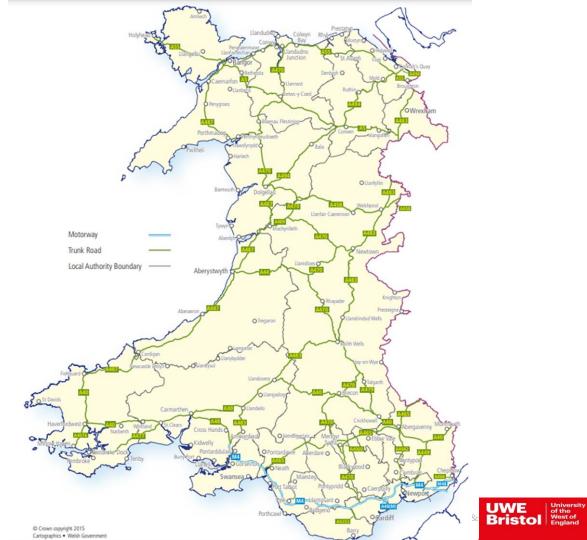


Carbon

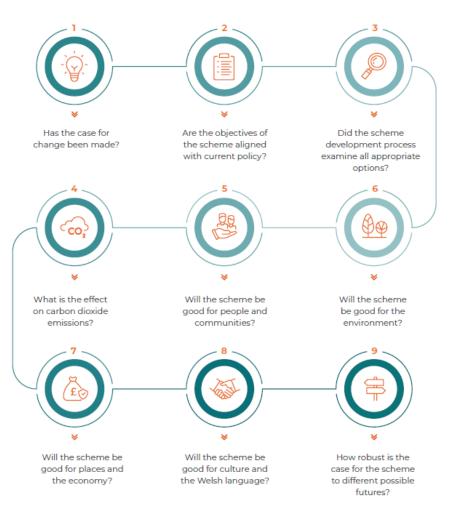
The relevant part of the Net Zero Wales transport sector ambition statement is to:

- Reduce emissions from passenger transport by 22% in 2025 and 98% in 2050, through demand reduction, modal shift and uptake of low carbon technologies
- Reduce the number of car miles travelled per person by 10% by 2030, and increase the proportion of trips by public transport and active travel to 35% by 2025 and 39% by 2030





REVIEW CRITERIA





Recommendations 1 and 2



University of the West of England



STRATEGIC INVESTMENT THEMES

- 7.2 Strategic investment priorities
- 7.3 Regional multimodal investment
- 7.4 Allocation of road space to support modal shift
- 7.5 Making our roads safer
- 7.6 Opportunities for allocation of financial savings



CARBON AND WELL-BEING THEMES

- 7.7 Carbon emissions
- 7.8 Supporting biodiversity
- 7.9 Supporting economic well-being
- 7.10 Supporting social and cultural well-being



POLICY THEMES

- 7.11 Demand management
- 7.12 Freight
- 7.13 Maintenance and asset renewal
- 7.14 Rural areas
- 7.15 Economic development and land use planning



TECHNICAL, APPRAISAL AND DELIVERY THEMES

- 7.16 Application of the Well-being of Future Generations Act
- 7.17 Traffic forecasting
- 7.18 Scheme appraisal and the WelTAG process
- 7.19 Assessment of value for money
- 7.20 Scheme design issues
- 7.21 Role of the professions



4. Capital works on the trunk road network should from now on be identified and prioritised in one of two ways: (a) as part of regional multimodal programmes to reduce car use and achieve modal shift to active travel and public transport; and (b) through trunk road programmes focussed on achieving the aims of the Wales Transport Strategy: for example, a Trunk Road Modal Shift Programme and a smaller scale Trunk **Road Safer Speeds and Routes Programme.**

UWE Bristol 47 Welsh Government should consider creating national application annexes for design speed selection that would then lead to more appropriate road layouts in line with policy.

48 Roundabout designs for rural situations should be further developed in Active Travel Act Guidance.



Implications

- 1. Conceive and implement large-scale active travel schemes.
- 2. Active travel design needs to be a part of the skill set of every highway and traffic engineer.
- 3. New skills to minimise embodied carbon.
- 4. Wider understanding of decarbonisation requirement timescales
- 5. Constraints of short-term and medium scale funding overcome



Active travel Act (2013) requires local authorities only to produce. maps', and they 'must in every year secure that there are (a) new active travel routes and related facilities, and (b) improvements of existing active travel routes and related facilities. Cross-party group on Active Travel Act think there is a disjuncture. The NWTC would like to see 'strengthened

mechanisms' for delivery.

The Netherlands uses collaborative contractually binding agreements for Snelfietsroutes development



Conclusion

- Welsh Government policy is strong and coherent across transport, carbon budgeting and planning.
- The Roads Review Panel Report provides solid recommendations for a fundamental shift in investment related to roads
- This requires a lot of work now by Welsh Government and local authorities to re-orient
- It also requires a significant re-orientation in the behaviours of professionals working on transport investment in Wales.



Road Investment Strategies

Speaker 3: Alex Bateram







Planning 'Nationally Significant' transport infrastructure for their future? The role of young people in the Road Investment Strategy, 2015 to 2020

UWE Centre for Transport and Society Symposium 2023

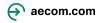
Alex Bertram, Senior Consultant, Future Mobility



Agenda

01 Introduction02 What the Literature Says

- 03 Research Approach and Findings
- 04 What the Findings Could Mean in Practice
- 05 Final Thoughts

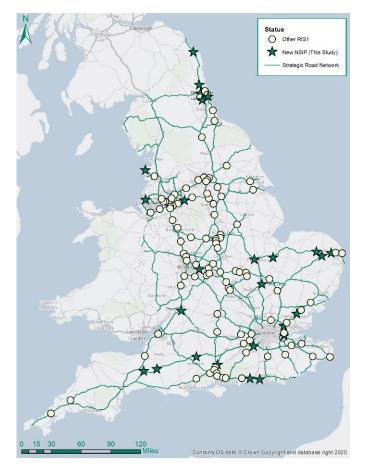




Introduction



Road Investment Strategy 1: 2015 to 2020





127 'new' schemes





What the Literature Says



Young People and Transport

Two key considerations:

- 1) Impacts of Transport on Young People
- 2) Impacts of Young People's Changing Travel Behaviours

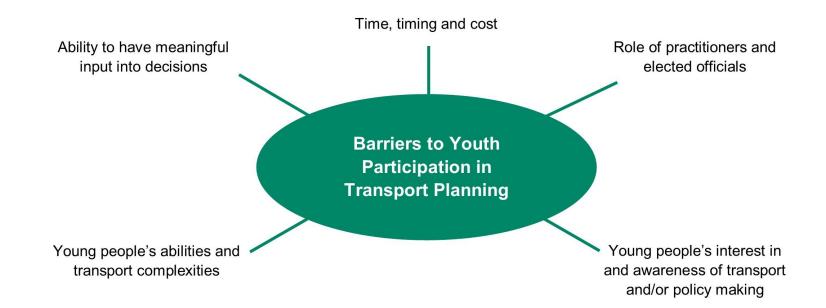


20 million (2021 Census)





Youth Participation Barriers







Research Approach and Findings



Research Approach

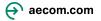
Archival Study

Key Informant Interviews

What are the time, timing and cost implications for those involved?

How prevalent is youth participation in consultation exercises?

Have young people's views been directly attributed to policy and scheme developments?



Youth Participation Time, Timing and Costs



Road Investment Strategy: for the 2015/16-2019/20 Road Period



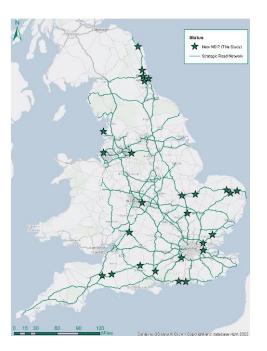


Department for Transport

National Policy Statement for National Networks

Presented to Parliament pursuant to Section B(8) and Section 5(4) of the Planning Act 2003





out of

£££££



Youth Participation Prevalence



Road Investment Strategy: for the 2015/16-2019/20 Road Period



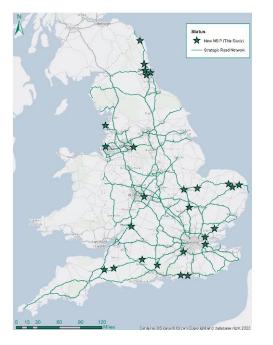


Department for Transport

National Policy Statement for National Networks

Presented to Parliament pursuant to Section 9(8) and Section 5(4) of the Planning Act 2003





- a) Less than 1,500
- b) 1,500 to 5,000
- c) 5,000 to 50,000
- d) More than 50,000



Youth Participation Impacts

Road Investment Strategy: for the 2015/16-2019/20 Road Period





"there were some good suggestions I think, but from the designer's point of view they were just [shrugs]".

Interviewee, RIS1 Scheme Consultation Lead

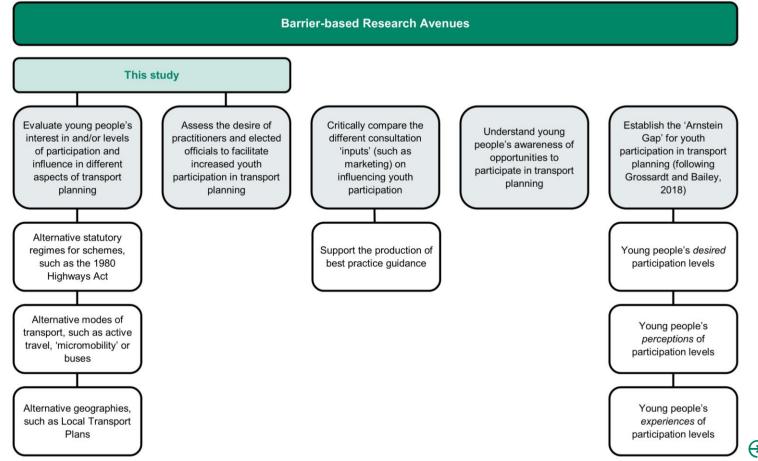




What the Findings Could Mean in Practice



Future Research



A New Way Forward?

Scenario Planning: Young people contribute to the definition of desired or plausible futures

Alternative Approaches to Increase Youth Participation

Participatory Prioritisation:

Young people assess different options against set criteria, potentially at workshops with expert input from (preferably independent) practitioners to support them in understanding a full range of potential positive or negative impacts

Discursive Representation:

Inclusion of young people in (newly formed) independent commission debates, citizens assemblies, or shadow boards to produce outputs which are then considered by decision-makers. Alternative for referenda, with varying degrees of power transfer

Youth Impact Acknowledgement:

The introduction of an English equivalent to the Welsh "Wellbeing of Future Generations" Act, as proposed by Lord Bird in 2019, requiring changes in public expenditure or policy to be accompanied by a 'future generations impact assessment'



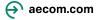
Final Thoughts





Thank you

Contact details: alex.bertram@aecom.com LinkedIn



AECOM Delivering a better world