

Transport Scotland

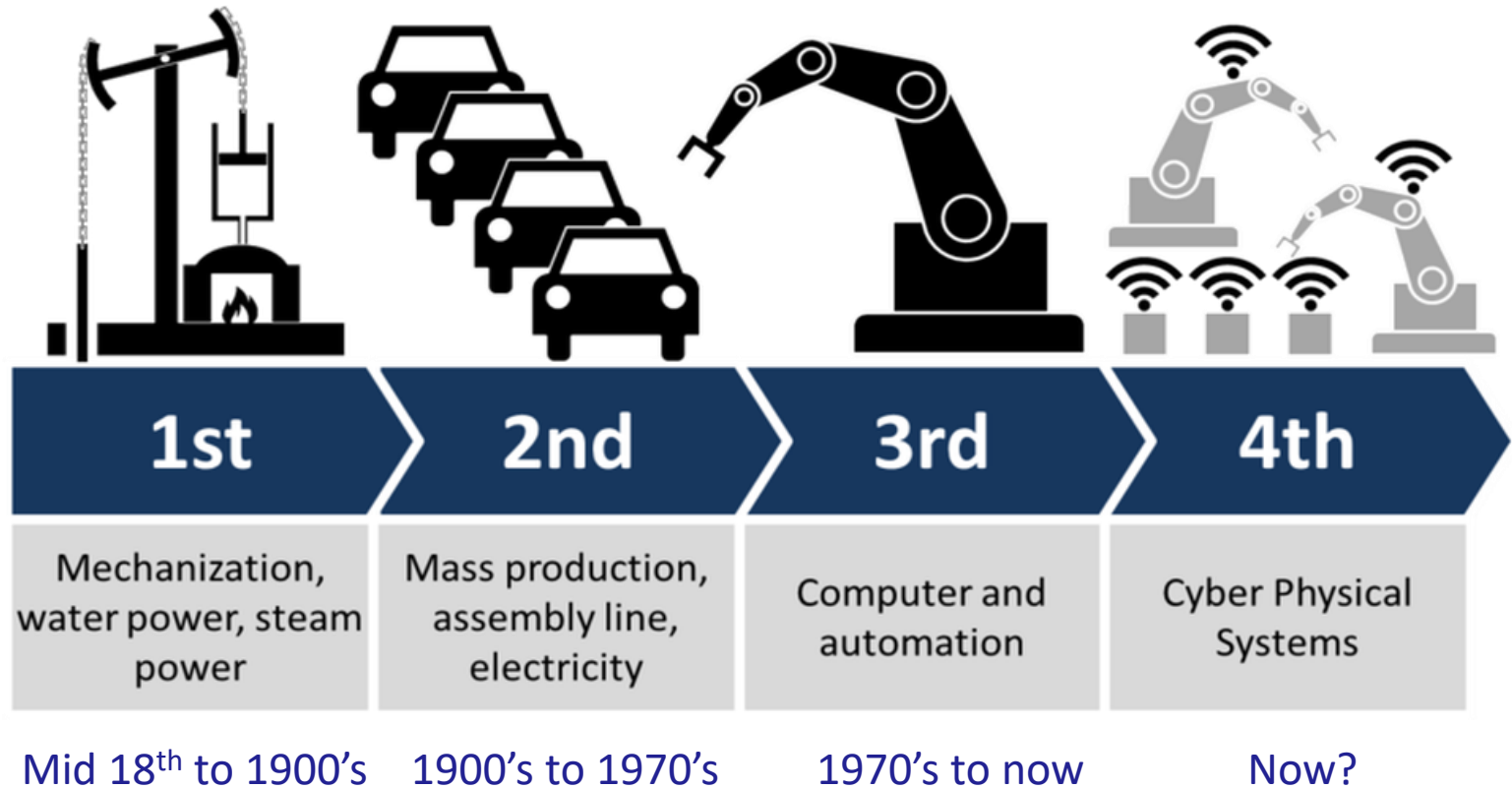
Mission Zero: tomorrows transport, today



Industrial Revolution 4.0

Transport (canals, railways) crucial to first, major impact from second (private car use), remained important during the 3rd.

The system must now reimagine itself - zero emission, digitally enabled, service driven, reduced demand- all led by innovation, and public policy and commercial vision.



National Transport Strategy

Four priorities set our framework for investing in transport

[Web Link - NTS](#)



Reduces inequalities

- Will provide fair access to services we need
- Will be easy to use for all
- Will be affordable for all



Takes climate action

- Will help deliver our net-zero target
- Will adapt to the effects of climate change
- Will promote greener, cleaner choices



Helps deliver inclusive economic growth

- Will get people and goods where they need to get to
- Will be reliable, efficient and high quality
- Will use beneficial innovation



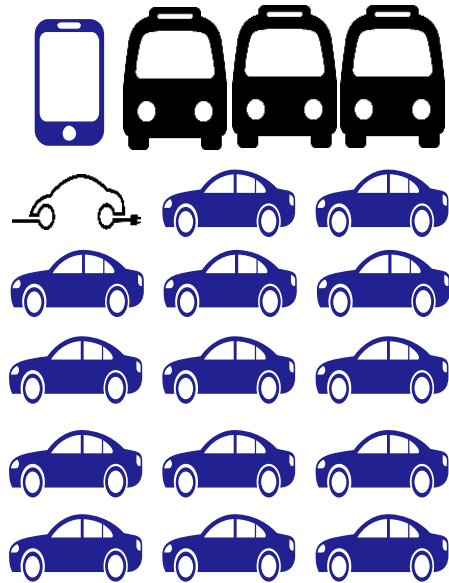
Improves our health and wellbeing

- Will be safe and secure for all
- Will enable us to make healthy travel choices
- Will help make our communities great places to live



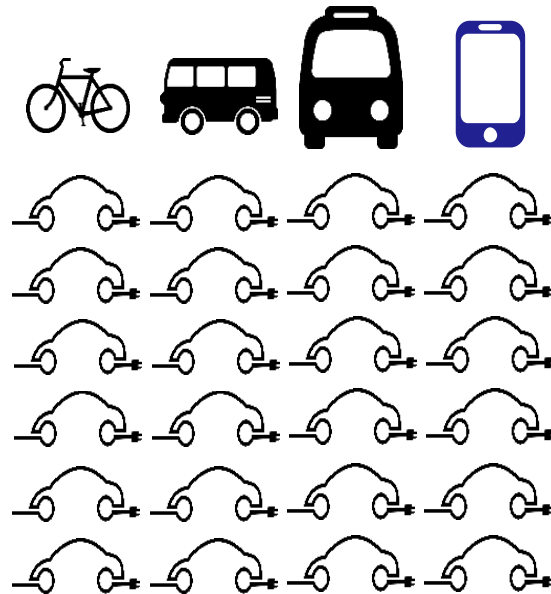
Zero emission isn't just about electrification...

UNSUSTAINABLE



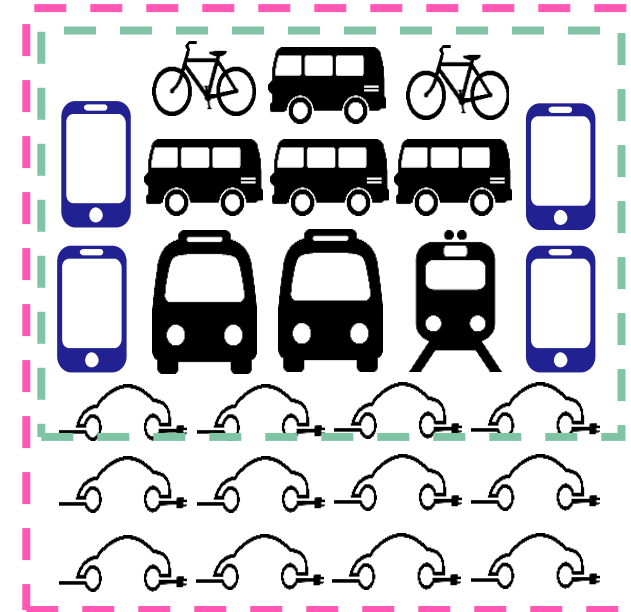
Today

SUB-OPTIMAL



EV dominated future, slow CAV and MaaS progress.

OPTIMAL?



A more sustainable future

BUY PROPOSITION: efficient investment choices with some local economic impact opportunities

BUILD PROPOSITIONS: supply chain growth, innovation, skills, knowledge capital gains



MISSION ZERO

Scotland at the forefront of markets for zero emission mobility

Scotland a global destination for innovation and investment in zero emission mobility

People and places benefit fairly from the shift to sustainable, zero emission mobility



CAPABILITY AND KNOWLEDGE

Partnership projects with electricity network companies on EV charging and grid capability

Scotland's Hydrogen Accelerator programme (based in St Andrews)

Skills and sector transition programme, with focus on EV and Hydrogen

International networking- Transport Decarbonisation Alliance, Under 2 coalition

SMART INFRASTRUCTURE INVESTMENT

Investing ahead of need in EV charging via ChargePlace Scotland (and move to commercial investments)

Future financing to scale up markets, zero emission buses and patient capital, public sector fleets and EV charging

Public sector "pathway" projects (Fleets- Glasgow; Dundee; Aberdeen; blue light services; Switched on Towns)

Interest free loan scheme to support purchase of ultra low emission vehicles

ENABLING SUPPLY CHAINS AND INNOVATION

Industry Advisory Group- growth of sectors supporting zero emission mobility

Public Sector Fleet programme to support innovation and supply chain demand

Michelin Scotland Innovation Parc and other innovation centres (H2 testing centre, Rail decarbonisation)

Joint TS SE Low carbon Mobility programme, with emphasis on heavy vehicles



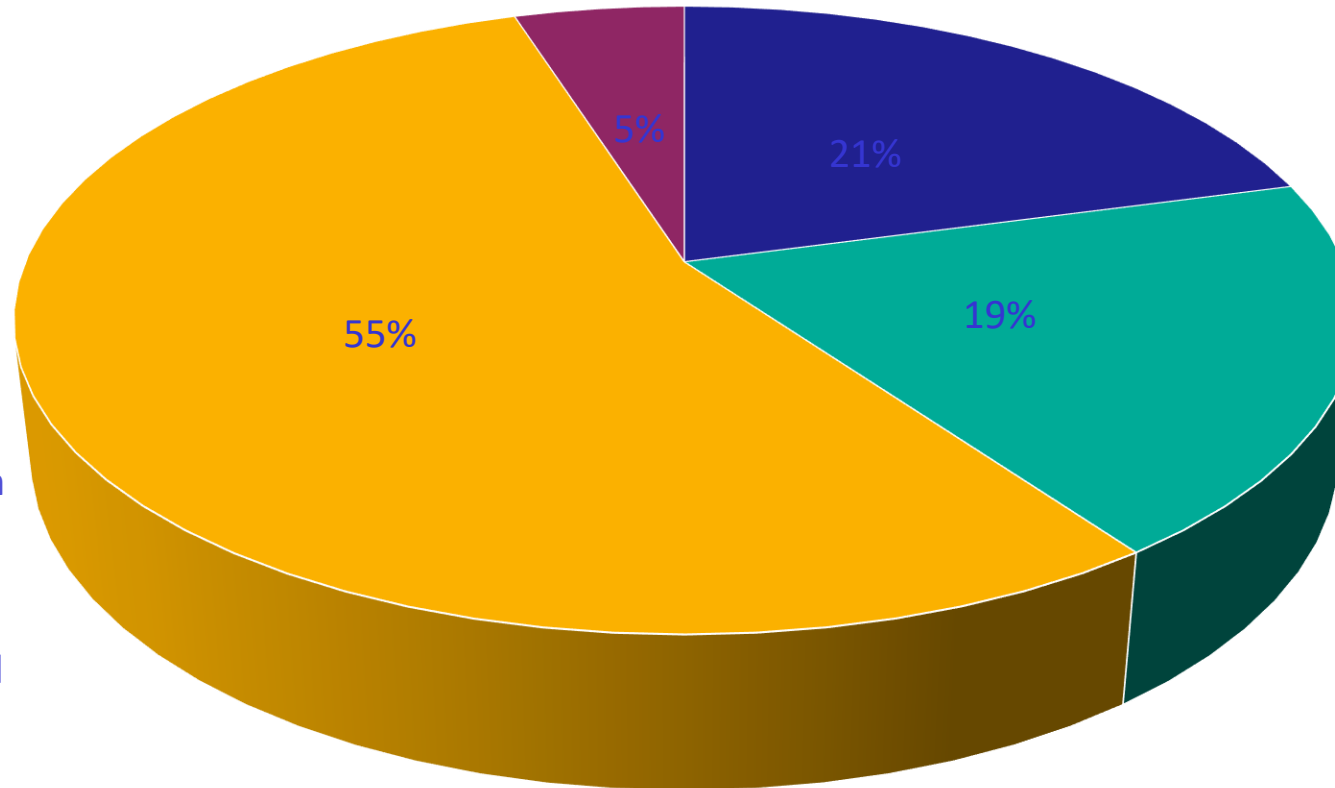
Past year

- Supported over 1200 ULEV across the public sector vehicle fleet
- Financed over 1500 ULEV through our Low Carbon Transport Loan
- Added over 500 chargepoints to the CPS network - now approaching 1500 charge points.
- 9.5m Kwh drawn on CPS (over 2mt of CO2 saved)
- Announced round 3 of our ERDF funded Low Carbon Travel and Transport Challenge fund to promote active and low carbon travel (£18M).



Current investment portfolio

- Infrastructure Investment
- Fleets and Incentives
- Low carbon Transport Loan
- economy, innovation and transition



Case study: EV Charging and energy system

STRATEGIC OBJECTIVE

Support strategically coordinated investment in the charging network that reduces the need for electricity network upgrades and supports wider energy and transport system benefits.

How

- Investing in modelling and open access data;
- Established new tools and collaborations to optimise our charging investments;
- Intensified our industry and business engagement;
- Formed new partnership with energy network companies;
- Working with SFT to develop options for future finance and delivery of EV infrastructure.



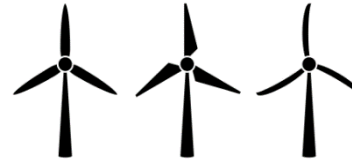
- £7.5m collaboration between Scottish Government, including Transport Scotland, and Scotland's electricity Distribution Networks Operators launched last August.
- Exploring new ways of coordinating the development and delivery of EV charging and electricity network infrastructure to ensure efficient investment.
- Projects focussed upon Electric A9, e-tourism and large-scale demonstrator in Lanarkshire (project PACE)



WHOLE SYSTEM APPROACH



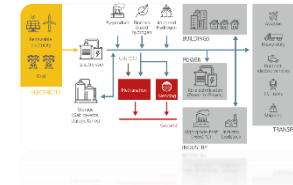
**ENERGY GENERATION
(INC. HYDROGEN)**



**DESIGN (BM AND TECH.) FOR
REDEPLOYMENT,
REMANUFACTURE AND
RECYCLING**

**NETWORK
(ENERGY/TRANSPORT/DIGITAL)
INTEGRATION AND
INVESTMENT**

**BOLD FLEET STRATEGIES CAN
CREATE VIRTUOUS INVESTMENT
CYCLES**



**ANCHORED SERVICE
SECTOR JOBS
(MAINTENANCE/
WARRANTY)**

**DEPOT INVESTMENT (INC.
CHARGING/SKILLS/REFUELING)**

**MANUFACTURING/SUPPLY
CHAIN/PRODUCT
INNOVATION**



Thank you

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Low Carbon economy

Transport Scotland

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