

Here with you today



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Key issues tackling climate change and recovering from the pandemic...

NEED

- Responding to the climate crisis and meeting COP26 commitments
- Building sustainable communities
- Supporting social and economic recovery

CHALLENGES

- Shortfall in government investment
- Wider economy
- Materials and labour issues causing cost escalation
- Affordability, practicality, deliverability of projects

SOLUTIONS

- Better delivery through digital and data
- Long-term and integrated approach to investment
- Intelligent procurement



Responding to the climate crisis and meeting COP26 requirements

The effects of climate change are intensifying with storms, floods and wildfires



COP21 set important targets to limit global warming



The next decade is critical to achieve 1.5°C



COP26 takes place in November, over 190 world leaders expected

Responding to the climate crisis and meeting COP26 requirements

Goals and themes established to accelerate progress and ensure decisive action is taken



Adaptation and resilience



Nature based solutions



Energy transitions

80%

of UK emissions currently come from infrastructure sectors



Clean transport



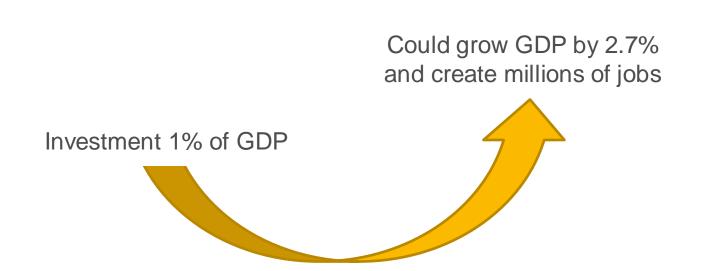
Finance

Building sustainable communities

As well as economic growth benefits, there are positives for society when investment is made in infrastructure



Supporting social and economic recovery



IMF set out four steps for governments planning infrastructure investment

#1 Maintenance

#2 Review and reprioritise active projects

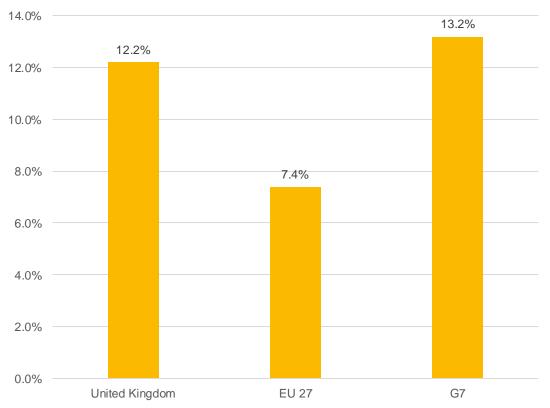
#3 Create a pipeline of quick-delivery projects

#4 Plan for new priorities

The challenge /

Government investment and wider economy threatening this





Clear responsibility to invest in infrastructure projects to help with NZC and economic recovery

- EU / NextGenerationEU, €800 billion
- Canada / The Canada Plan launched in 2016,
 \$180 billion for infrastructure
- Japan / ¥5.9 trillion for increasing infrastructure resilience and disaster management
- U.S. / \$1.2 trillion infrastructure bill

The challenge /

Materials and labour causing cost escalation

Price increase in the year to July 2021

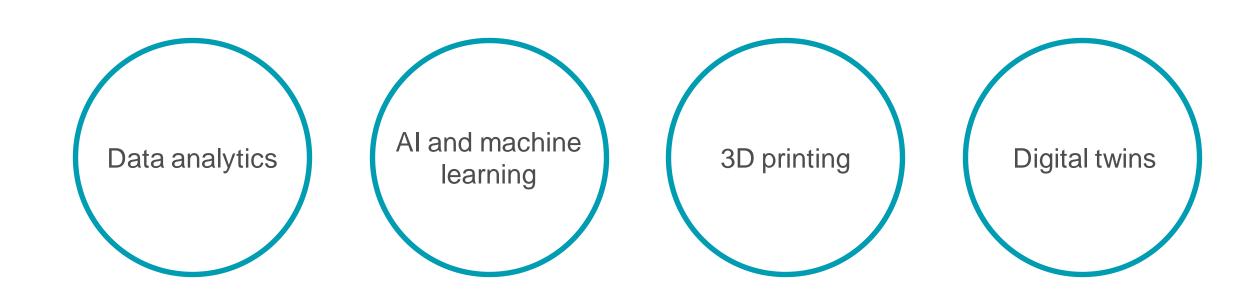






The solution /

Enabling better delivery through digital and data



The solution /

The bigger picture...



Integrated and planned investment



Pipeline visibility and commitment



Intelligent procurement and risk management



Energy insights / The backdrop

Ambitious plans to reach net zero emissions by 2050

Strategic energy mix



Mainly decarbonised power generation in the 2030s



Mix of technologies



Energy insights / The challenges

Innovative solutions are necessary to take on the energy challenges



Technology innovation: balancing safety with security



Infrastructure transition and capacity of supply grid



Infrastructure for building, property and transport



Funding



Energy insights / How we get there

Harness the ambition of the next generation

Remove geographical barriers

Be ambitious to improve D&I

Better use of digital and data analytics



Rail insights /

How we tackle the shared challenges



Tackle the skills gap

Contribute to carbon reduction

The ability to innovate and create efficiencies

Greater value created and passenger benefits

Hindered by

Fragmented and short-term thinking

Changing scope and priorities

Lack of integration

Rail insights /

There are headwinds

Figure 1.1: Rail passenger journeys, Great Britain, 1872 to 2020-21 (Table 1220)

Rail passenger journeys - Great Britain 2,500m 1920 2,186m 2,000m 2018-19 1,753m 1,500m 1,000m 2020-21 407m 1872 1897 1922 1947 1972 1997-98 2020-21

Sources: National Infrastructure Commission (1872 to 1937), Department for Transport (1938 to 1985-86), and Office of Rail and Road (1986-87 to 2020-21).

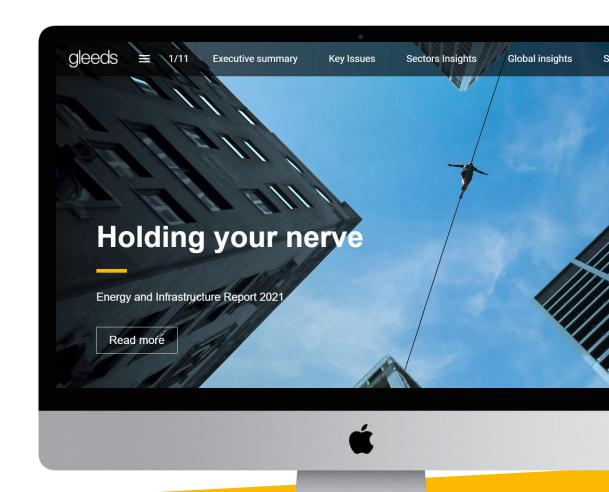


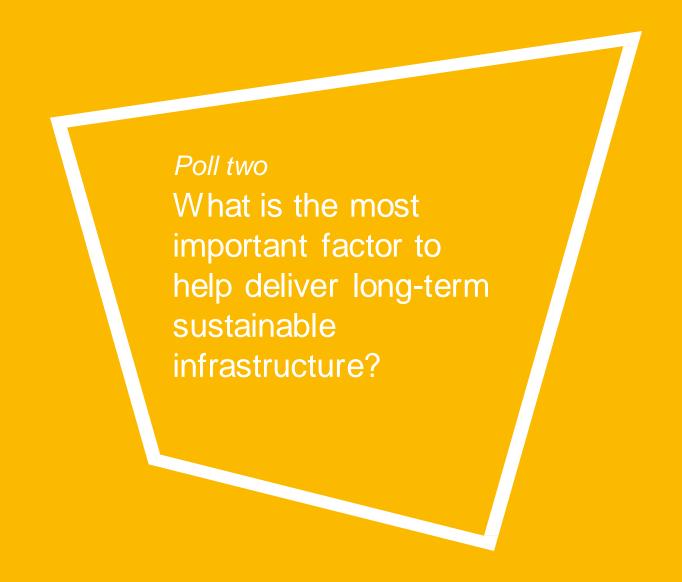
How will we ever create meaningful and sustainable change?

Summing up /

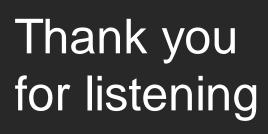
Despite the challenges...

- The time is now
- We all need to hold our nerve
- Look out for our first energy and infrastructure report coming out next week!





gleeds



Questions and answers