

# International Festival of Surveying

In Partnership with UWE and CASLE

## UWE educating the next Leaders



Addressing  
 ● Diversity  
 ● Climate Change

The earlier we set targets, the higher are the chances of success.



Wicked issues occur when promoting change



## Net Zero Target



REDUCE Economic, Environmental and Social Impacts of Construction, while ENSURING the health and social interaction of people.



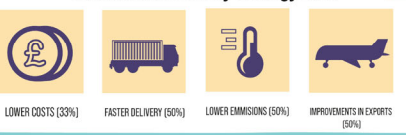
TIME has direct implication on sustainability

## Delay Footprint

Overall implications of delay on project cost, revenue potential, economic, environment & social project outcomes in monetary terms.

Inputs in Sustainable Construction Management should be based on Category of Projects /Sector-wise, Extent of Delay footprint, Project impact on local and global society

## Construction Industry Strategy 2025



WHERE WE HAVE MOST IMPACT

## Innovation

Accessible Technology encourages Digitise or Die



I believe that CASLE potentially has power, but without cash it is "soft" power

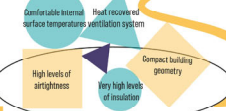
## Disruptor

Technology is a Disruptor



low energy Sustainability

## PASSIVHAUS



High levels of airtightness Very high levels of insulation

## Real Estate and the Environment

### Cubex

Regional real estate developer. Sustainability through smarter and more connected spaces



### Homes England

Government's housing accelerator. Enabling the industry to build quicker and better.



Strategic approach is needed to achieve the Sustainable Development Goals



### Blue Marine Foundation

Charity dedicated to restoring the ocean to health. The UK has the world's largest deployment of offshore wind energy.

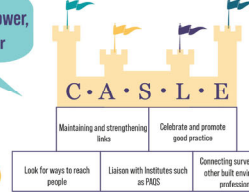


Financial benefit Sustainable benefit



11% Of England is developed and only a fraction of developable land would be needed to significantly increase supply.

## Current and Future Technologies



Maintaining and strengthening links Celebrate and promote good practice

## Geographic Information System / Science

● Tool for solving geographic problems  
 ● Mechanized inventory of geographically distributed features and facilities  
 ● Tool for revealing what is otherwise invisible



## Decisions made on visibility



MAKE BETTER DECISIONS Monitor Assess Plan

## Data-centric practice in building environment

GIS provides the framework for creating and applying geographic knowledge on the earth

## LIDAR vs Laser

Laser illuminates a larger area while the LIDAR illuminates a very specific target



## Conservation Challenges

Gentrification Development Pressure  
 Solutions Code Violations

Sustainability Carbon Dioxide Emissions

Redevelopment is not Sustainable

Sea Level Rise Climate Change

Hurricanes

Incentives

## Life cycle of Buildings

Transfer to Site Build Operate End of Life

Manufacturing Materials Transport Extract Raw Materials

Conversion of Historic Structures to Affordable Housing

Original Design Story over Time

Incentives

## Challenges and lessons from the Whitworth Museum

Keep this systems simple

Encourage 'buy in' staff at all levels early on in process

Programme in a soft landing and commissioning period

Ensure engagement from Estates teams and maintenance contractors during design and delivery

Employ the right contractors for the job

Legacy issues which were out of scope

Understanding the impact of VE

Day 1

Day 2