

The CitA Virtual Summit: Changing the way we work

7 Business opportunities catalyzing sustainability reinforced by Covid

21 September 2020

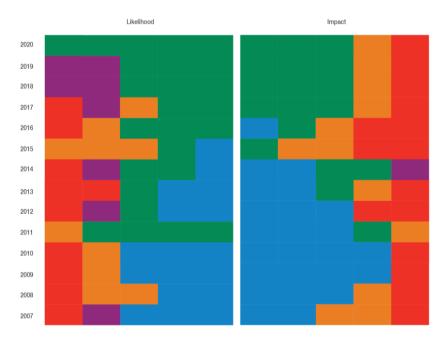
Dr. Eva Gkenakou Sustainability Director – Multiplex Europe



## The Global Risks Report 2020-World Economic Forum:

Climate now tops the risks agenda

From economic to environmental. Climate now tops the risks agenda, while the economy has disappeared from the top five.



#### Economic Environmental Geopolitical Asset bubble Biodiversity loss Global governance failure Critical infrastructure failure Interstate conflict Climate action failure Deflation Extreme weather National governance failure Energy price shock Human-made environmental State collapse Financial failure disaster Terrorist attacks Fiscal crises Natural disasters Weapons of mass destruction Illicit trade Unemployment Unmanageable inflation Societal Technological Failure of urban planning Adverse technological advances Food crises Cyberattacks Infectious diseases Data fraud or theft Involuntary migration Information infrastructure breakdown

Social instability

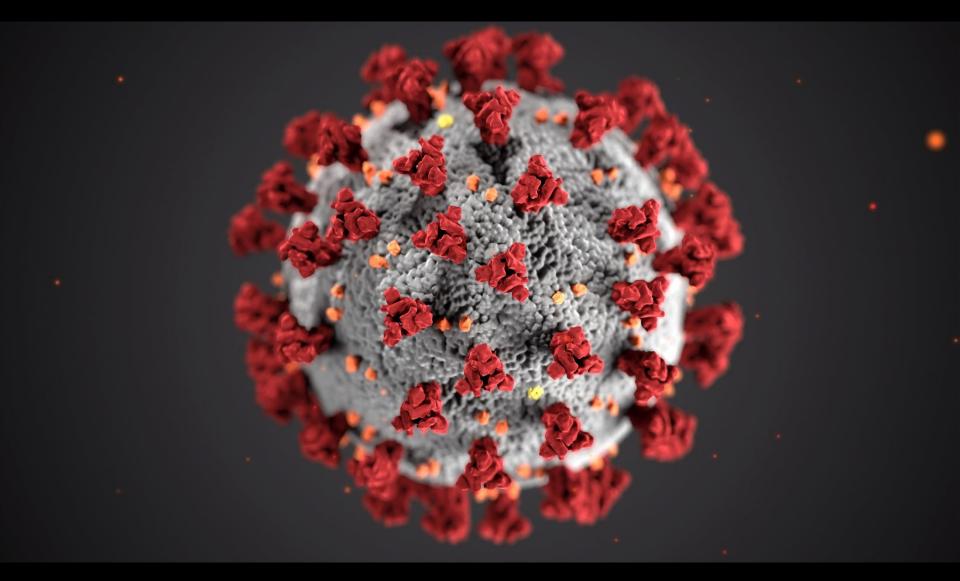
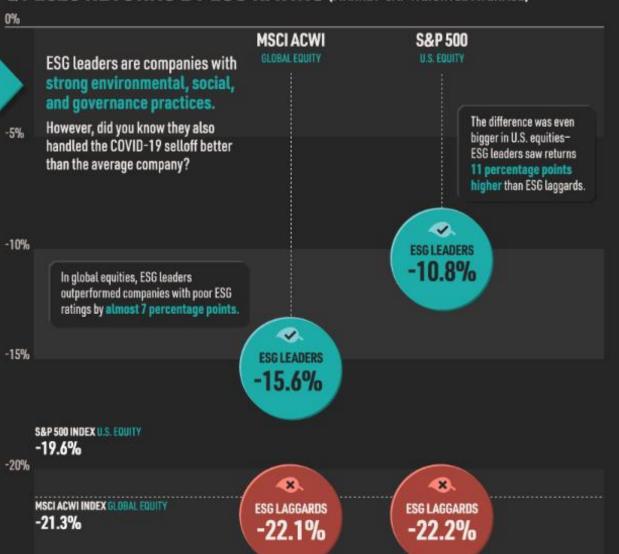


Photo by <u>CDC</u> on <u>Unsplash</u>

## ESG OUTPERFORMANCE DURING THE COVID-19 SELLOFF

#### Q1 2020 RETURNS BY ESG RATING (MARKET-CAP WEIGHTED AVERAGE)



#### WHAT MAKES A COMPANY AN ESG LEADER?

Sustainability leaders outrank their peers on key risks facing their specific industry.

#### SOME EXAMPLES ARE:



Biodiversity & land use



Toxic emissions & waste

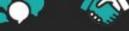






Privacy & data security



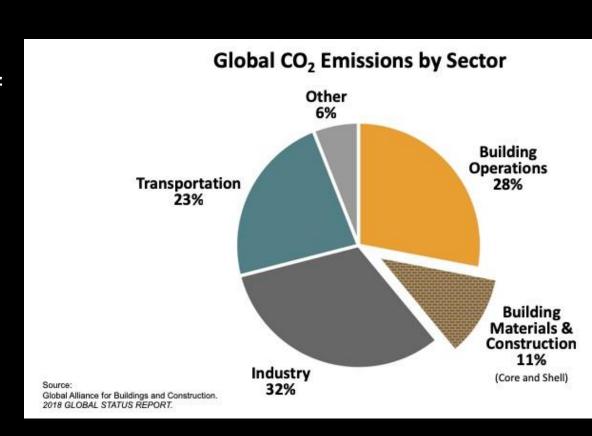


Board diversity

Business ethics

### The built environment's share

 Responsible for 39% of the global carbon emissions whereas aviation represents 2%



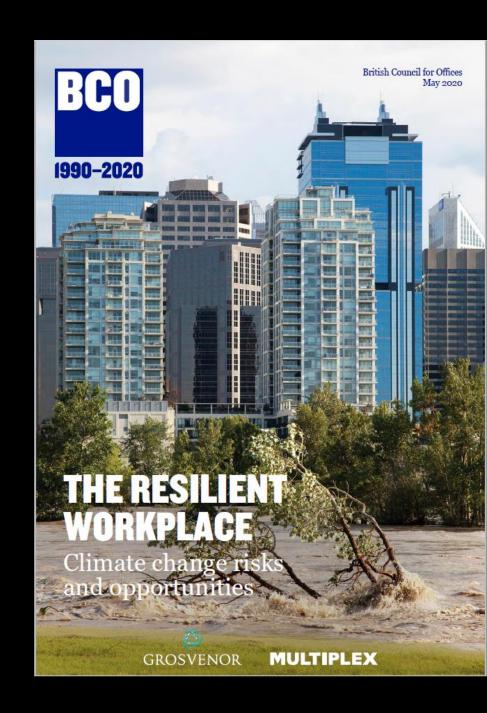
## 7 key business opportunities

7

1. Mitigate the climate change risks to your operations and your assets

#### **Toolkits and examples**

- EU Sustainable finance taxonomy legislation, Climate change disclosure guidelines - TCFD
  - Multiplex part of UKGBC TCFD webinars
- BCO report: The Resilient Workplace
- Factor in the increasing frequency of weather events - CIBSE future weather files
- Prepare and mitigate against overheating in buildings, construction delays, flooding
   UK Climate Projections 2018
- Use nature-based solutions, such as sustainable drainage, green roofs and walls for additional insulation, trees for shading. Cooling effect 1 to 3°C - UGF requirement in London Plan



2. Set clear net-zero carbon goals for your operations and supply chains that add value to your brand, attract more investment and the best clients

#### **Toolkits and examples**

- Science Based Targets initiative
   UN, WWF
  - Multiplex 1<sup>st</sup> contractor globally to align to 1.5C - UNGC webinar
- Net Zero Carbon Buildings commitment - WGBC

 Climate Change Commitment for commercial buildings - BBP

#### Multiplex Europe raises carbon ambitions with 1.5C science-based target

Multiplex Europe, the construction firm behind huge London developments including 100 Bishopsgate, has announced that it has increased its science-based target to account for the 1.5C ambition of the Paris Agreement

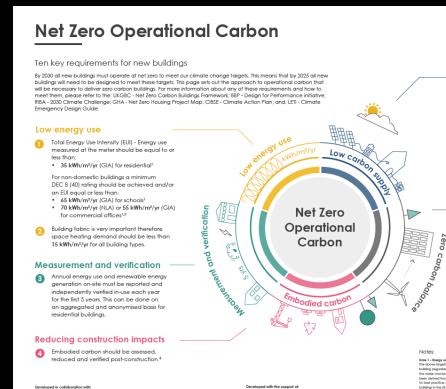


Multiplex's Europe employs 920 people across 19 projects

3. Design, or retrofit, your assets to be low energy and net-zero carbon

#### **Toolkits and examples**

- Energy efficiency targets -RIBA, LETI reports
- All-electric heat pumps
- Hydrogen as a fuel
- Nature based solutions Ignition project report from UKGBC
- Battery energy storage
- Renewables



Low carbon energy supply

generated using fossil fuels.

Heating and hot water should not be

The average annual carbon content of

the heat supplied (gCO<sub>2</sub>/kWh) should

On-site renewable electricity should be

Energy demand response and storage

A carbon balance calculation (on an

annual basis) should be undertaken

building achieves a net zero carbon

Any energy use not met by on-site

investment into additional renewable

energy capacity off-site OR a minimum

tariff is not robust enough and does not

life carbon is crucial and will be covered in separate guidance

renewables should be met by an

15 year renewable energy power

provide 'additional' renewables

Note 3 - Whole life corbon

purchase gareement (PPA). A green

and it should be demonstrated that the

measures should be incorporated and the building annual peak energy

demand should be reported.

Zero carbon balance

4. Ask your energy supplier for a green tariff to cut costs and your carbon emissions

#### **Toolkits and examples**

- Green tariff from your energy supplier
  - Multiplex Europe on 100% renewables
- Power Purchase Agreement with a renewables generator
- Biofuels from waste



Source: globalrenewablehub.com

## 5. Design your assets to have low upfront embodied carbon

#### **Toolkits and examples**

- Embodied Carbon Primer LETI
- Whole Life-Cycle Carbon Assessments guidance – Mayor of London
- Circular Economy statement requirement – draft London Plan
  - 99% of waste diverted from landfill
  - 25% of the 5 key construction materials on our sites came from recycled sources in 2018
  - Award winning closed loop system for finished works protection material



6. Invest in smart systems to lift your wellbeing and productivity, attract and retain talent and reduce your carbon

#### **Toolkits and examples**

- Demand for smart systems in offices skyrocketed during Covid – 22 Bishopsgate smartest skyscraper in Europe
- WELL Building standard 25% productivity lift
- WiredScore Smart buildings certification - up to 35% improvement in energy e.g. Deepmind AI optimisations
- Digital construction and BIM helps resource efficiency and future flexibility of space use with the potential to reduce 75-90% of waste in real estate – Circular Economy benefits of 1.8 trillion euro annually, in Europe alone



# 7. Collaboration and data sharing allows businesses to tackle common challenges or global threats

#### **Toolkits and examples**

UK Contractors
Declare Climate
and Biodiversity
Emergency

Founding signatories: BAM Construct, BAM Nuttall, Canary Wharf Contractors, Morgan Sindall Group plc, Multiplex Europe, Sir Robert McAlpine, Skanska, Willmott Dixon

#### Contractorsdeclare.co.uk

- part of Construction Declares
- uniting the industry towards a green recovery and a fairer world

