



**Kingspan**<sup>®</sup>

# Buildings Are At Fault

What is the Link?

An aerial photograph of a modern architectural complex. The buildings feature large, white, ribbed roofs and are surrounded by lush green trees and landscaped grounds. The scene is captured during the golden hour, with warm sunlight casting long shadows and highlighting the textures of the buildings and foliage.

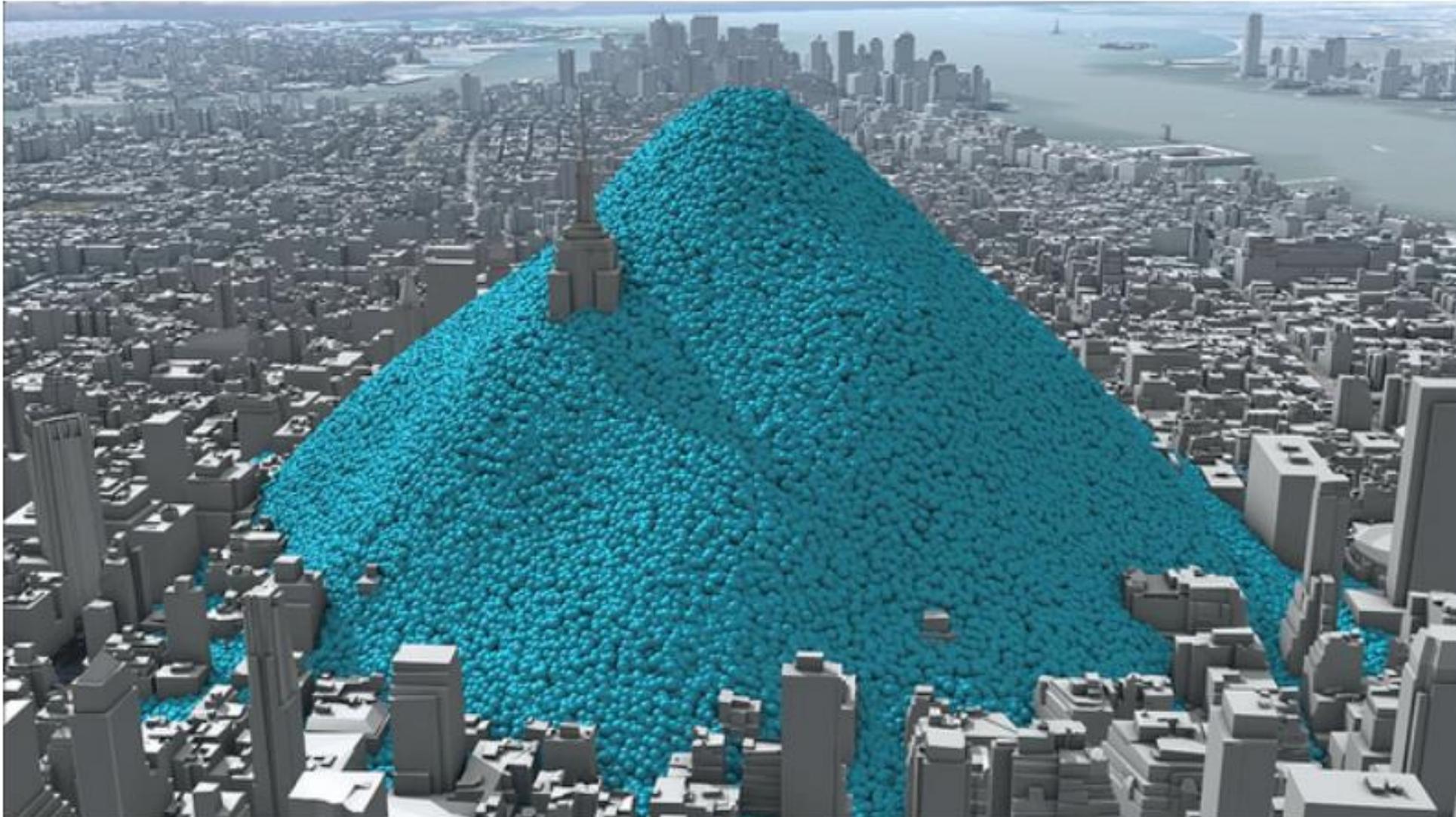
Climate change is the fundamental design problem of our time. Not education, not community, not health, not justice.

The threat climate change poses is existential, and **buildings** are hugely complicit—even more so than the automobile.

Buildings consume 40% of our energy annually, and they emit nearly half of the CO<sub>2</sub>, through greenfield development, cement production, and the burning of fossil fuels

CO<sub>2</sub> is the chief agent of climate change, **making buildings—and by association, the architecture profession—profoundly responsible.**

# Why Zero Carbon Buildings

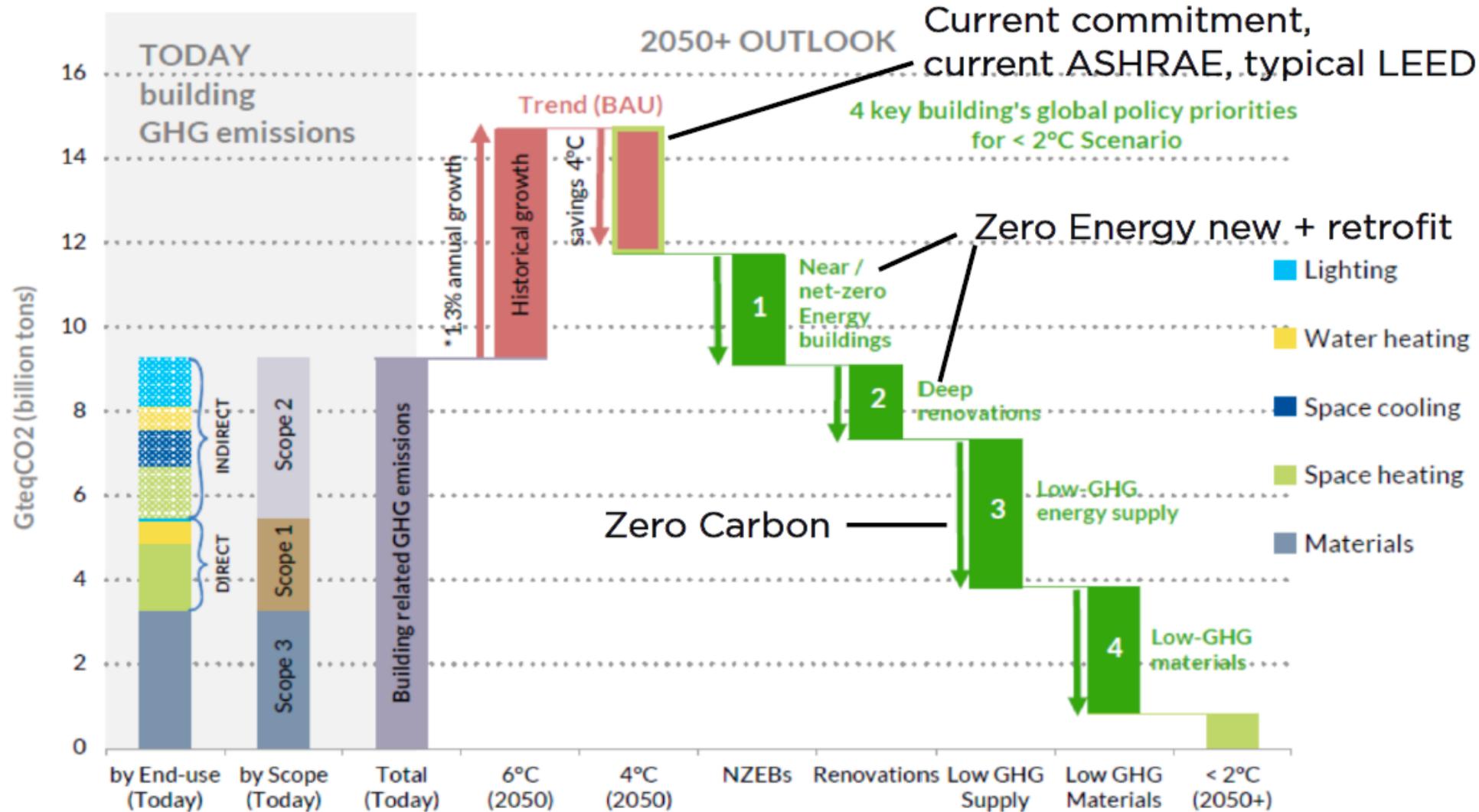


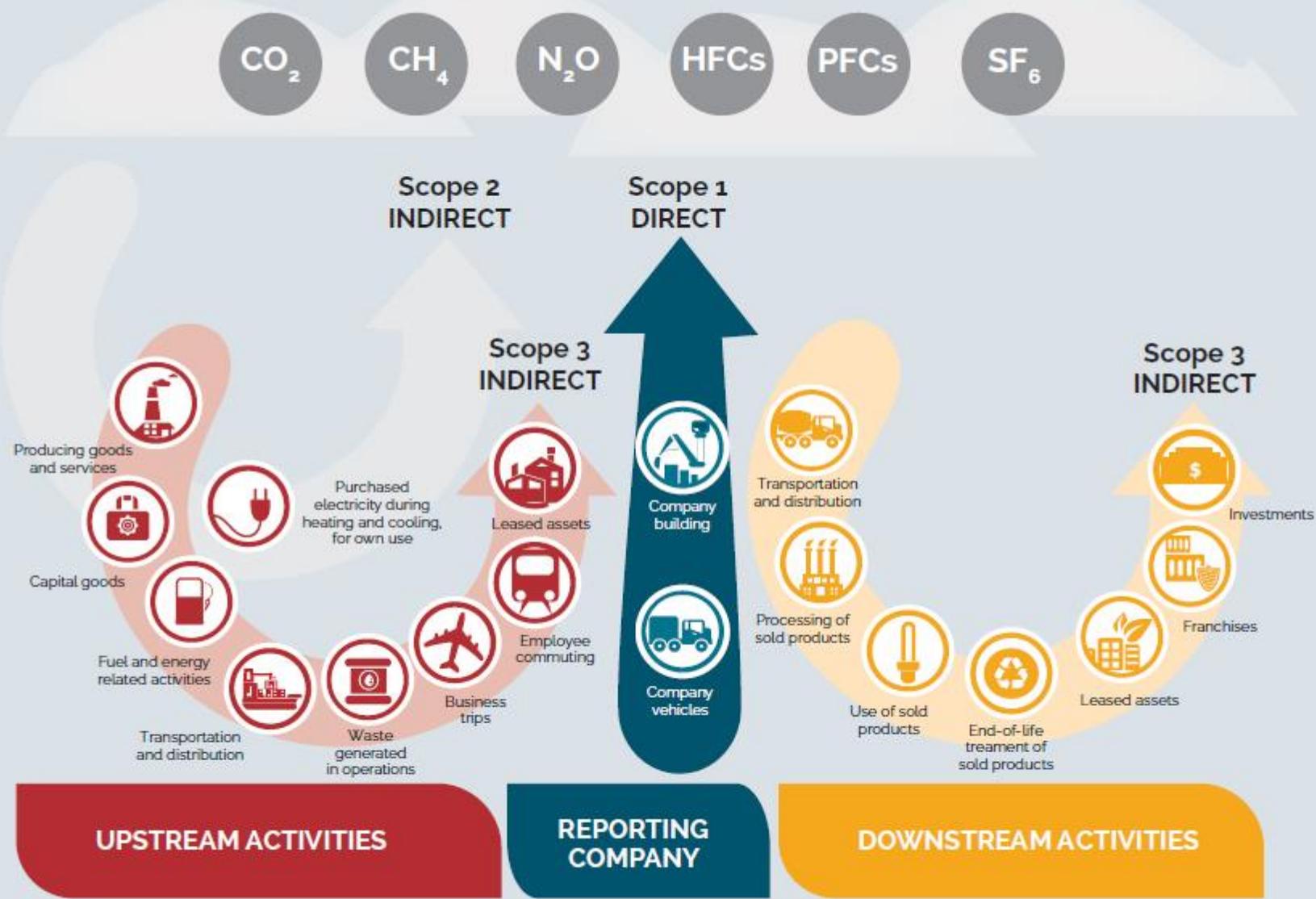
A cubic yard of concrete (3,800 lbs), generates 350 pounds of CO<sub>2</sub>. That's a 15'x15'x15' cube of CO<sub>2</sub>

54 Million tons of Carbon

.5% of what's used each year

# Global Building-Related Emissions





Source: GHG Protocol (2011).

How do we  
get there?

# Architects face a choice:



To remake the built environment so that it produces no CO<sub>2</sub>, or to carry on, business as usual, and live with the consequences

Fighting climate change is vital for a sustainable economy. CDP has been putting critical environmental data at the heart of business decisions for 15 years.

▲ Global context

**\$35tn**

combined value of the world's largest companies by market capitalization, according to MSCI. That's twice the GDP of the USA in 2015.

▲ The risks

**31 gt**

GHG emissions produced globally each year. That's equivalent to 8,139 coal power stations.

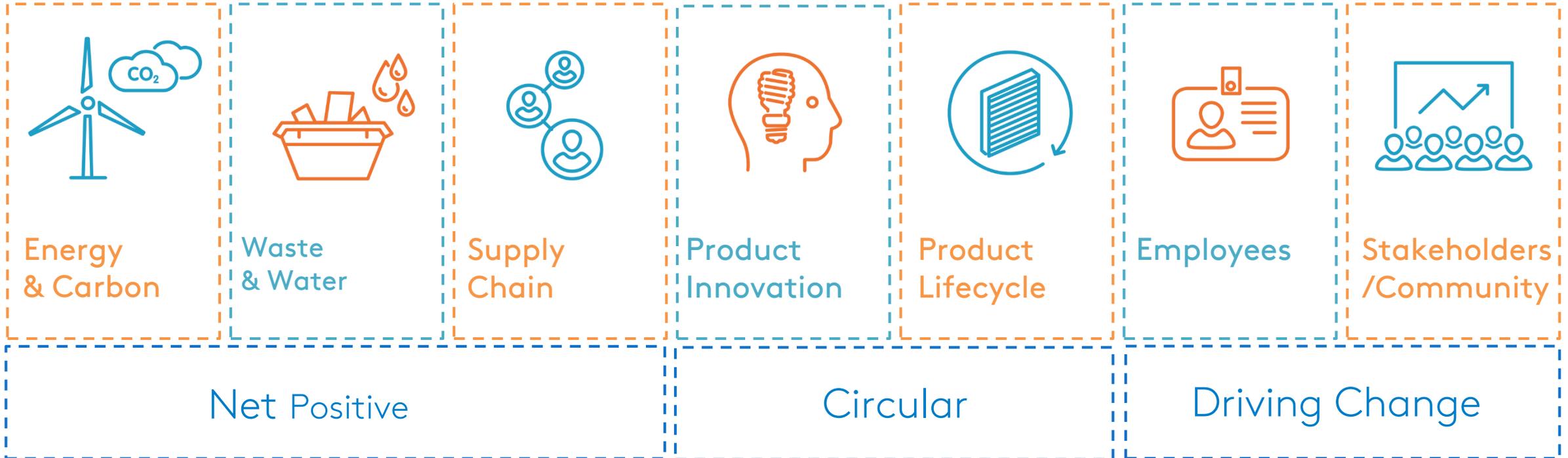
▲ The opportunities

**\$5.5tn**

estimated global market for low-carbon goods and services. That's half of China's GDP in 2015.

# Putting our Energy into Change

"To be a global leader in sustainable business and establish a leading position in providing ethical, renewable and affordable best practice solutions for the construction sector."





# 176.1

**Million**  
MWh of Energy



# 34.87

**Million**  
Tonnes of CO<sub>2</sub>



# 3.9

**Billion**  
in Annual Cost Savings



# 100

**Million**  
Barrels of Oil



# 19

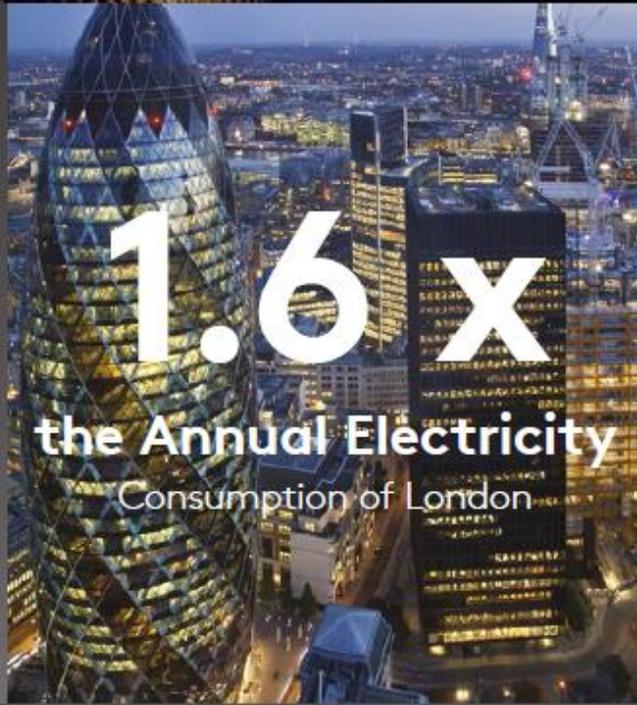
**Million**  
Cars of the Road



The Annual Output of

# 61

**Power Plants**



# 1.6 x

**the Annual Electricity**  
Consumption of London



# 6.3

**Million**  
Powered UK Homes

# NZE 2020



# Strategy

At Kingspan, we're pioneering new technologies and better ways of building for a low carbon future. Improving building performance, construction methods and ultimately people's lives – that's what drives our teams across the world.



1  
Save More

We believe the first priority should always be reducing energy use. In 2017, the impact of the Energy Performance Contract (EPC) at our manufacturing facilities in Holywell, Sherburn and Kingscourt realised circa 2 GWh of energy savings inclusive of electricity, gas, fuel oil and LPG. The EPCs have been highly successful in delivering the guaranteed energy savings and more importantly have helped to provide a platform and culture to achieve even bigger savings.



2  
Generate More

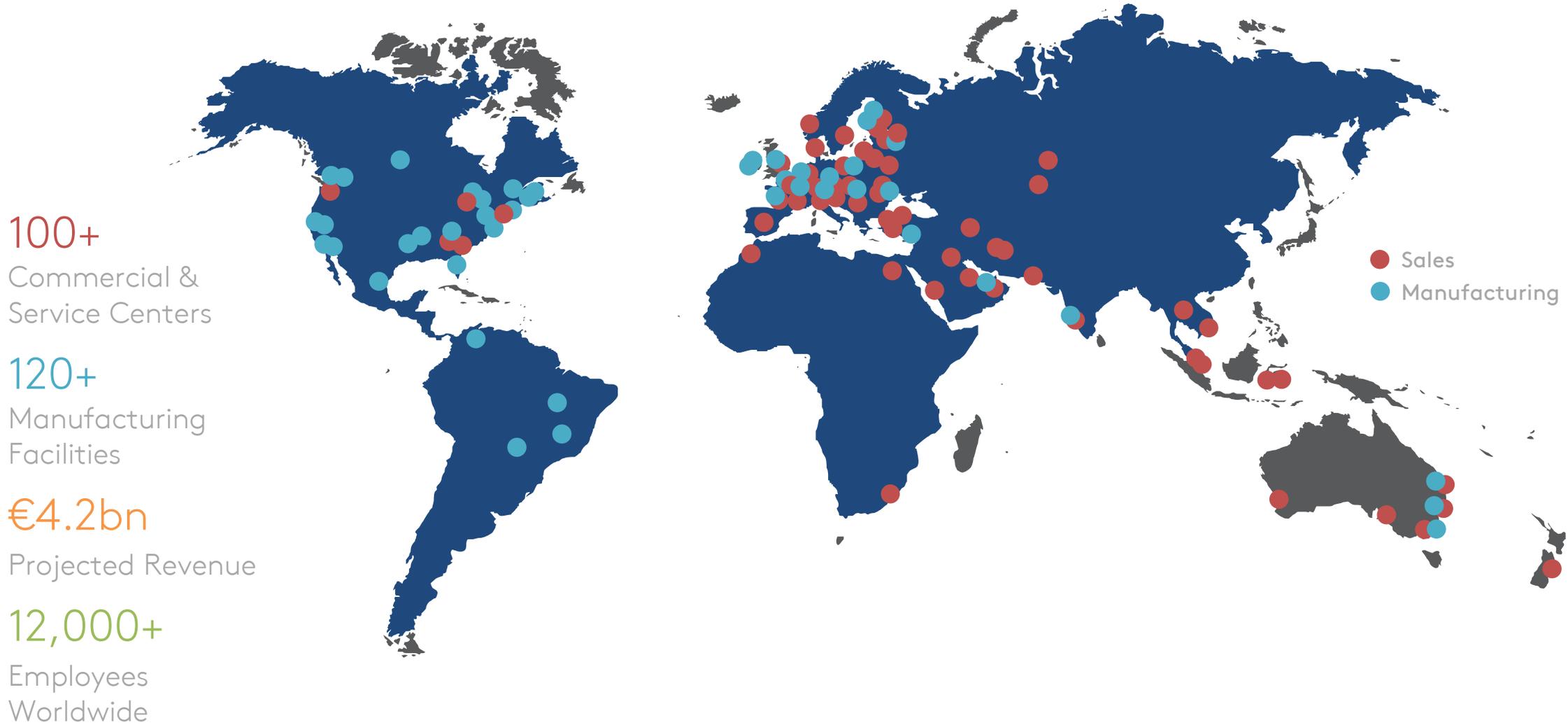
On-site renewable energy generation of both electricity and heat is a key priority. We have invested substantially in on-site generation, particularly rooftop solar PV systems. In 2017, 5,957 MWh was generated on our sites, which is the equivalent of 8% of our divisional energy use. In 2017, planning permission was also granted for a 1.6 GWh wind turbine at our Holywell site, UK.



3  
Buy More

Procurement of fully certified renewable energy is a necessary part of delivering our ambition to become Net-Zero Energy across our sites. In 2017, all electricity used in our European and Middle Eastern facilities was either generated on site or procured from a certified renewable energy source. In Australia, we are researching the available opportunities for the procurement of certified renewable energy and hope to make progress in 2018.

# Global Energy Footprint



**Kingspan Solar PV**  
Embryonic position presently -  
Global Scale Opportunity



**Kingspan Insulation Boards**  
Global Leadership - continue to  
drive worldwide reach through  
greenfield and consolidation



**Kingspan Insulated Panels & Façades**  
Global Leadership -  
continue to drive worldwide  
reach through greenfield  
and consolidation

**Kingspan Flatroof Membrane**  
Embryonic position presently -  
Global Scale Opportunity



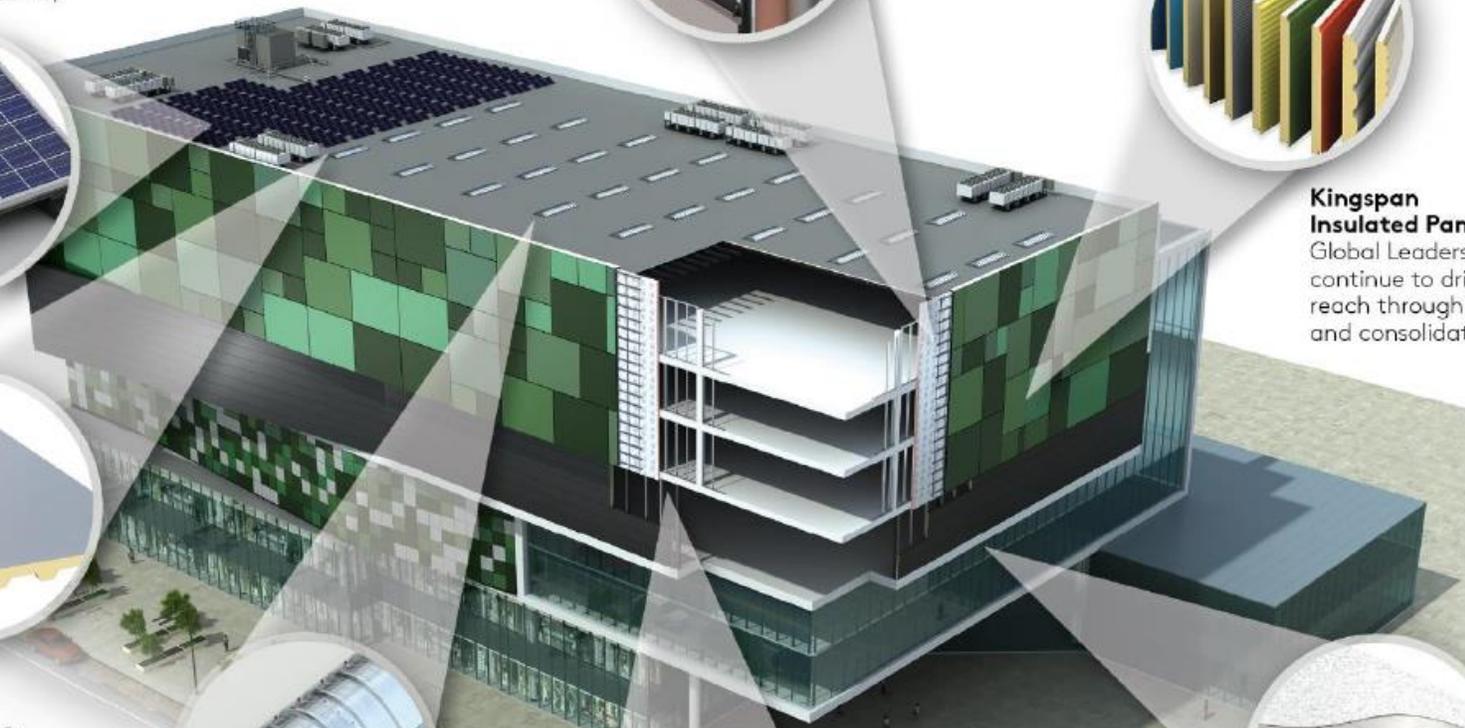
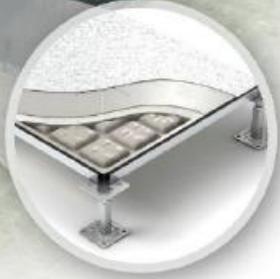
**Kingspan Light & Air**  
Global Scale Opportunity



**Kingspan Industrial Insulation**  
Embryonic position presently -  
Global Scale Opportunity



**Kingspan Access Floors**  
Global Leadership - continue to  
drive worldwide reach through  
greenfield and consolidation



# RE 100



# A true global leader:



*The work of CDP is crucial to the success of global business in the 21st century... helping persuade companies throughout the world to measure, manage, disclose and ultimately reduce their greenhouse gas emissions. No other organization is gathering this type of corporate climate change data and providing it to the marketplace.*

Ban Ki-moon, Secretary General, United Nations

# The Journey to Net-Zero Energy 78% in 2018



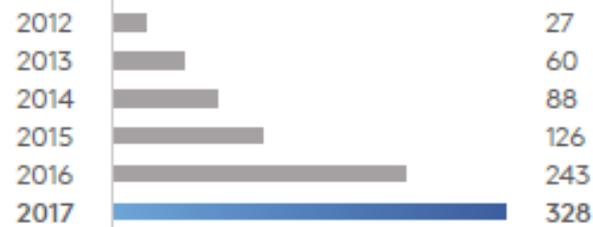
## Energy Costs

Light and heat costs as a % of turnover



## Renewable Energy Usage

Renewable energy used (GWh)



## Energy Intensity

kWh per € turnover



## On-site Energy Generation

Renewable energy generated on-site (GWh)



## Carbon Intensity

CO<sub>2</sub> tonnes per €m of turnover



## Renewable Electricity Usage

Renewable electricity used (GWh)



# A Sense of Purpose – Letter to CEO's



“A company’s ability to manage environmental, social, and governance matters demonstrates the leadership and good governance that is so essential to sustainable growth, which is why we are increasingly integrating these issues into our investment process.”

Sincerely,

A handwritten signature in black ink, appearing to read "Larry Fink".



**Larry Fink**

Chairman and Chief Executive Officer

Laurence D. Fink is Founder, Chairman and Chief Executive Officer of BlackRock, Inc. He also leads the firm's Global Executive Committee.

# Science Based Targets

The Challenge

# Climate Resilience

We operate in a business environment that is heavily influenced by regulatory responses to the climate agenda. As part of our risk assessments, Net-Zero Energy initiative and carbon disclosure commitments, we identify potential risks and opportunities associated with climate change that may impact our business in the future.

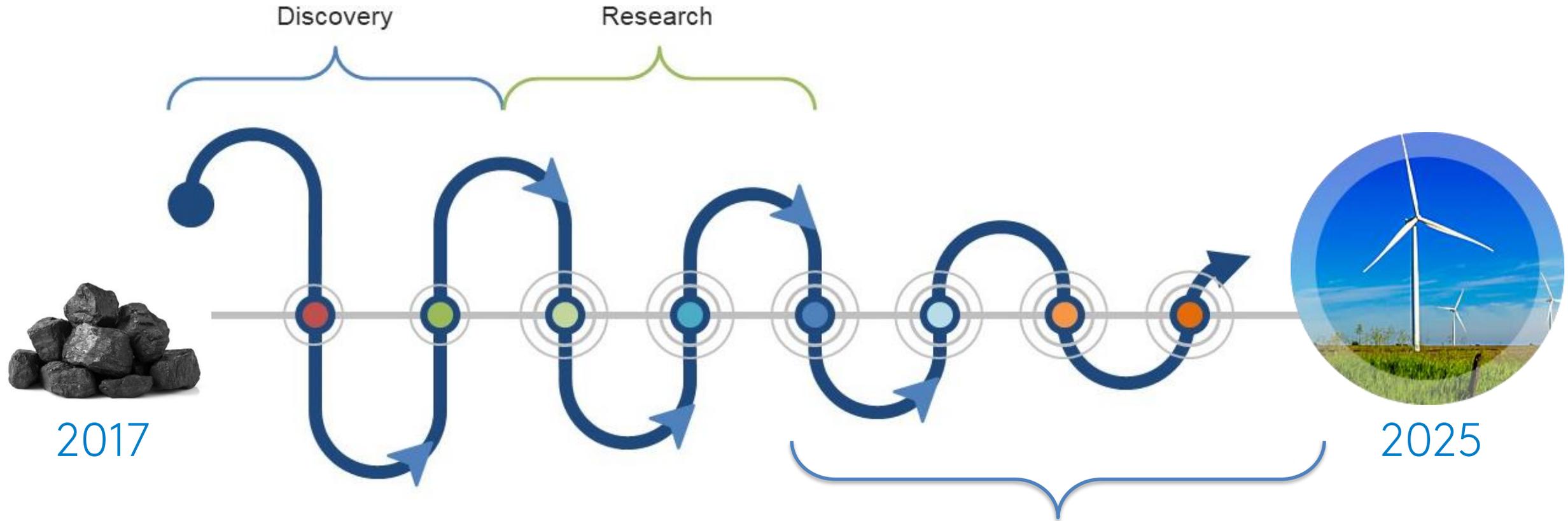


*Kingspan Group plc commits to reduce absolute Scopes 1 and 2 GHG emissions 10% by 2025 from a 2017 base-year. The company also commits to reduce 10% by 2025 from a 2017 base-year Scope 3 GHG emissions from*



- ↘ *Purchased goods and services*
- ↘ *Business travel*
- ↘ *Transport and distribution*
- ↘ *End-of-life treatment of sold products*

# Our Journey Map



- Supplier Events/Education
- Helping Set SBT-
- CDP reporting
- Aggregate buying power

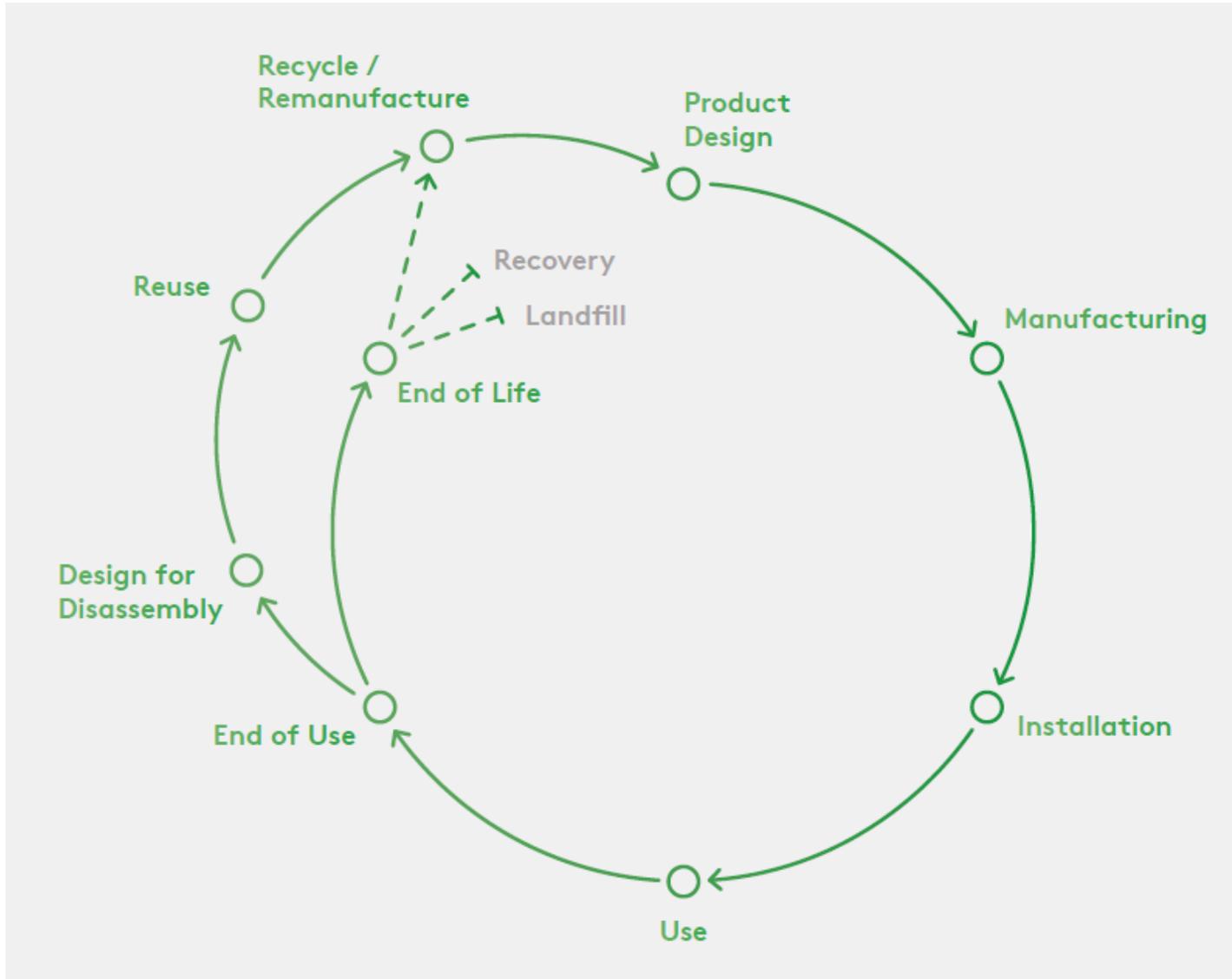
# Supply Chain Management

“Minimising environmental impact across our business is not only a result of what we do, but also what our suppliers do. From the procurement of raw materials to the delivery of a final product, we work with our key supply chain partners to maximise opportunities for sustainable growth.”

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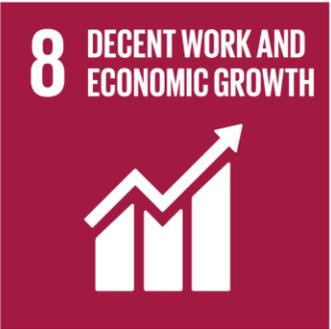
# Can we be Circular?



## Circular Economy

In order to reach our collective goal of a more sustainable future we must reconsider our current relationship with materials. We along with governments, industry and business see great potential in a circular approach to material use. With up to 30% of the EU's waste coming from construction and demolition waste, we need a different approach to the traditional linear pathway of material use.

# Support the SDG's



# Supplier Guidelines



“Rethink.”

1

We purchase our raw materials through a Central Group Company (CGC).

2

Our Group Head of Procurement is responsible for our procurement operations.

3

Our Divisional Procurement Directors oversee the bulk procurement of our main raw materials.

4

At regional level, local procurement teams oversee the procurement of ancillaries and services.

5

Our employees adhere to the Chartered Institute of Purchasing and Supply Code of Conduct, as contained in our Ethical Purchasing Policy.

6

We expect our suppliers to ensure that their products and services are produced and delivered in line with laws, local regulations and best practice industry standards.



# Better Steel, Lower Impact



Moving away from BOF technology  
and towards Electric Arc Furnaces





# Collaborate



# My ask? Will you join this challenge

