

# Transition Planning: Decarbonisation and Circularity

**Our mission is to accelerate the move to a decarbonised future.**



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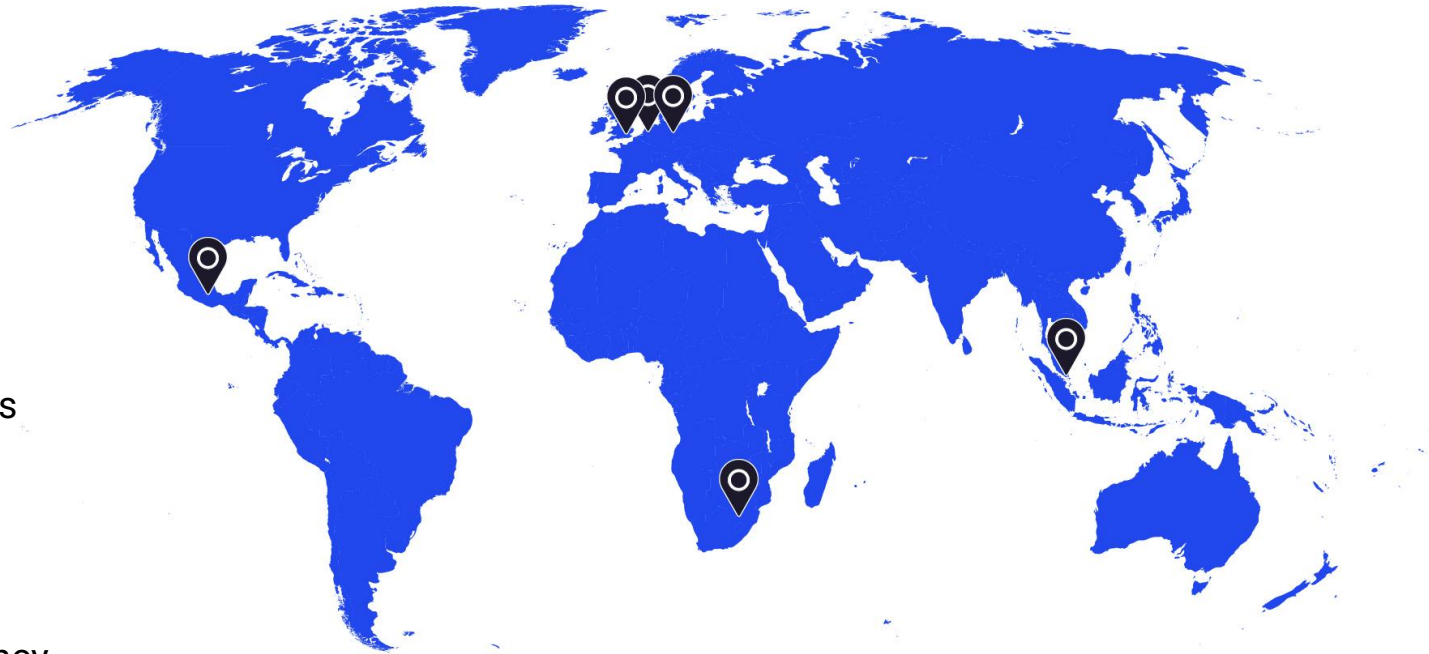
supporting clients  
across 5 continents

**400+**

experts and consultants

**20**

years of experience in  
sustainability consultancy



# What we do



## Net Zero transition planning and delivery

We advise companies, financial institutions, and public sector organisations on their Net Zero transition, supporting them on each step of their journey – from footprinting and risk analysis through to target setting, strategy, financing and implementation.



## Product carbon footprint labelling

Our label verifies that a product or brand has reduced its product's carbon footprint, or has a comparatively lower footprint than other products. This informs more sustainable purchasing choices.



## Market transformation

We help design, implement and evaluate policies, business models and large-scale projects to meet ambitious carbon reduction targets.

# Decarbonisation planning and circularity

Aleyn Smith-Gillespie, Director, Carbon Trust

# While disclosure requirements are growing...



Carbon Disclosure  
Project



International  
Sustainability  
Standards Board



Corporate  
Sustainability  
Reporting Directive



FCA & BEIS Climate-  
related Financial  
Disclosures  
Regulation

## ...it is important to make this value-creating and impactful

Insights will help you:



Build resilience to net zero



Open new strategic avenues



Create whole-economy  
decarbonisation

# Why develop a Roadmap to Net Zero?



## Climate Leadership

Target roadmapping underpins confident external communication of climate leadership to customers, investors and suppliers.



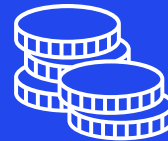
## Innovation

A Roadmap models wide-ranging business model changes which frequently unlock internal innovation.



## Regulation

Roadmapping allows companies to comply with the increasing scrutiny of Net Zero transition plans







## Investment

Providing investors with certainty and credibility that your company is well positioned in the transition to a low carbon economy

# The Transition Plan Taskforce (TPT) disclosure framework and toolkit



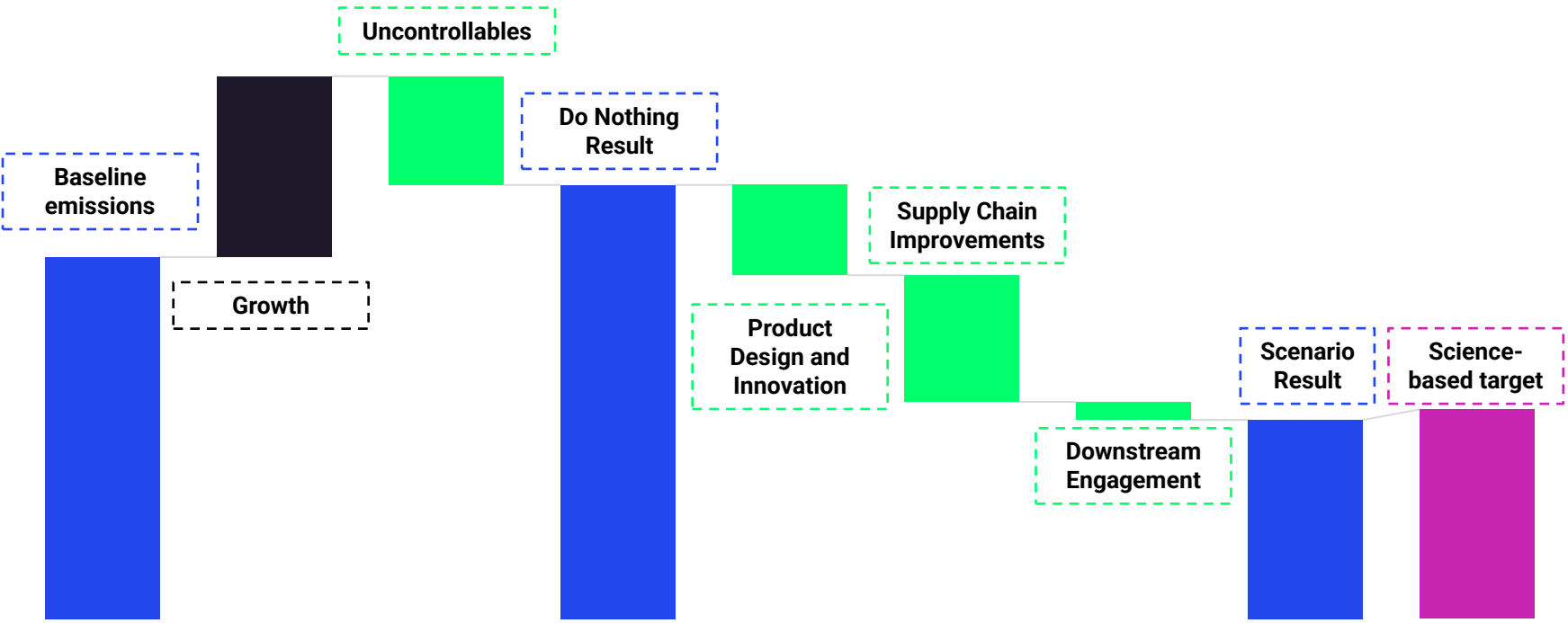
## Chapter Zero Toolkit

-  [Briefing](#)
-  [Scorecard](#)
-  [Governance Compass](#)
-  [Barriers and Enablers](#)

# A decarbonisation strategy builds a clear path from business-as-usual to your science-based target



## Example Output





# This should use a granular scenario-based model of controllable and uncontrollable decarbonisation levers



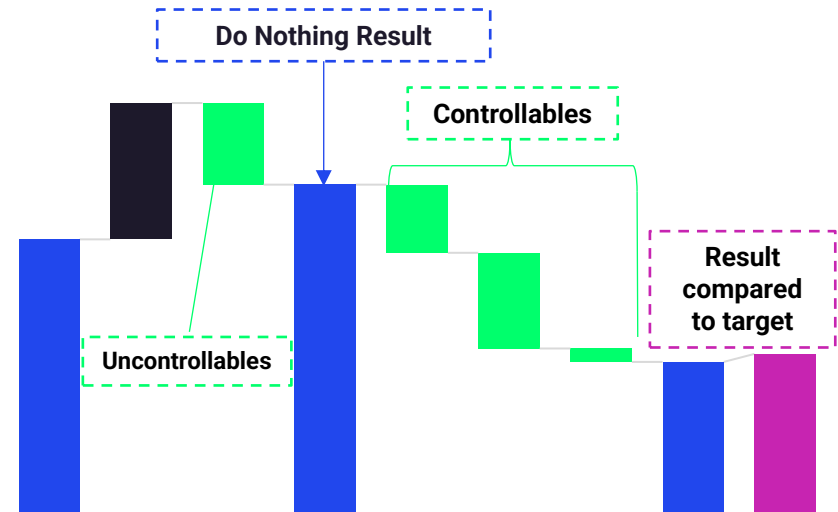
## Controllables

- Controllable levers are decarbonisation levers that the company can implement which are either currently available to a company and or projected to become available in the future.
- Examples include the implementation of circular business models or working with suppliers to increase the use of renewables.

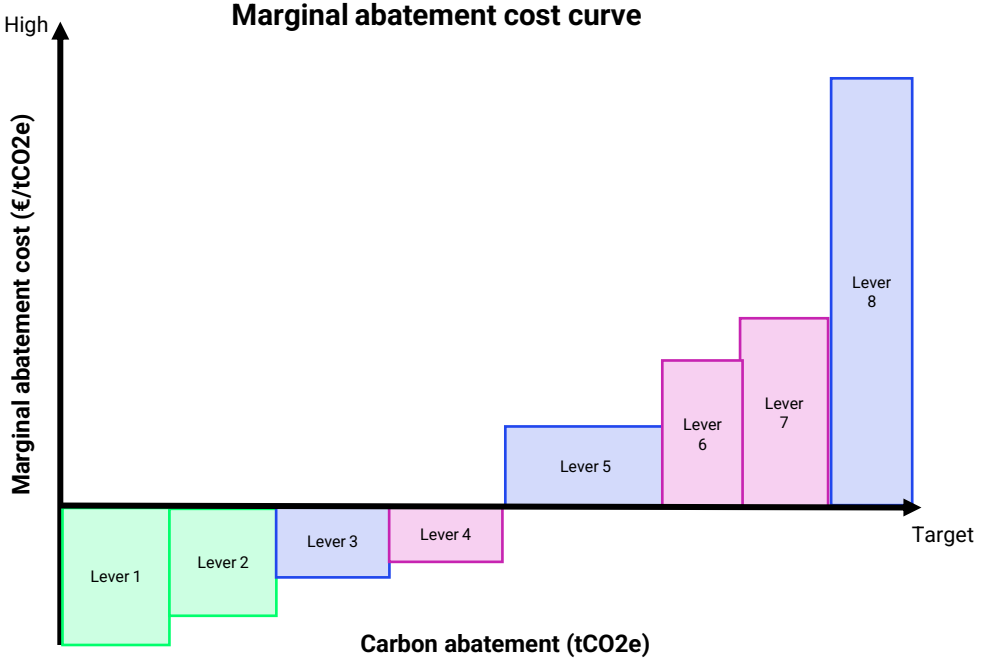


## Uncontrollables

- Uncontrollable levers are wider socio-economic changes that lie outside the control of a company but affect the carbon intensity of its activities.
- Examples include grid decarbonisation, technology developments leading to sector decarbonisation, etc.



# Integrating cost/benefit analysis for carbon emissions and financial impacts enables prioritisation and planning



### Value chain stage



# Building the business case: quantify the risk mitigation potential of the decarbonisation roadmap



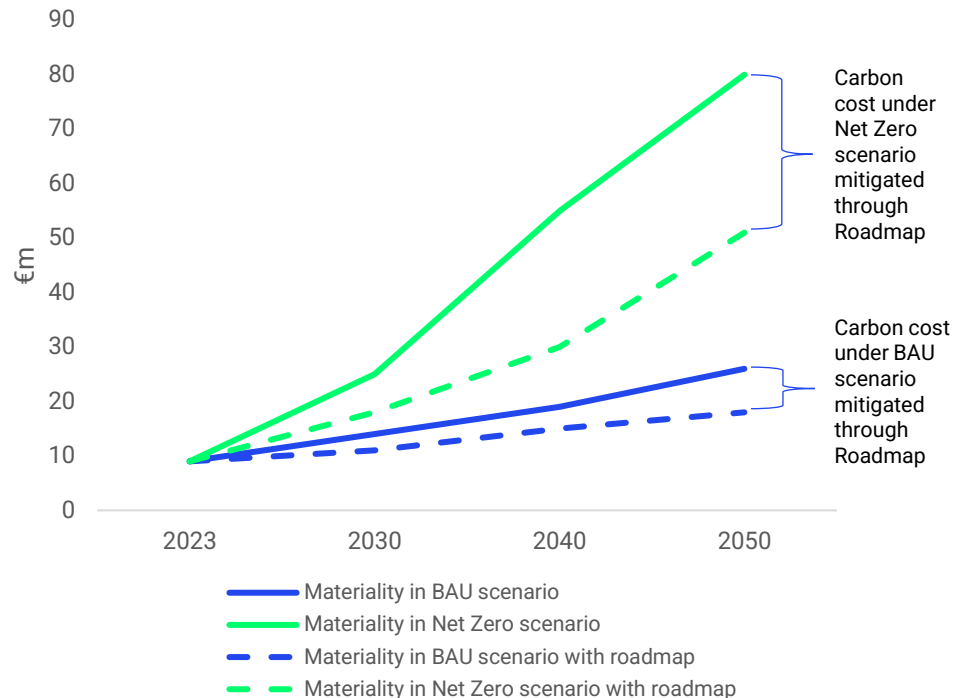
**By factoring in the risk mitigation potential, a more complete business case for decarbonisation can be created**

- Combine the decarbonisation roadmap with the climate risk analysis for your key risks.
- This can be used to compare the cost of business-as-usual with the cost of decarbonisation.

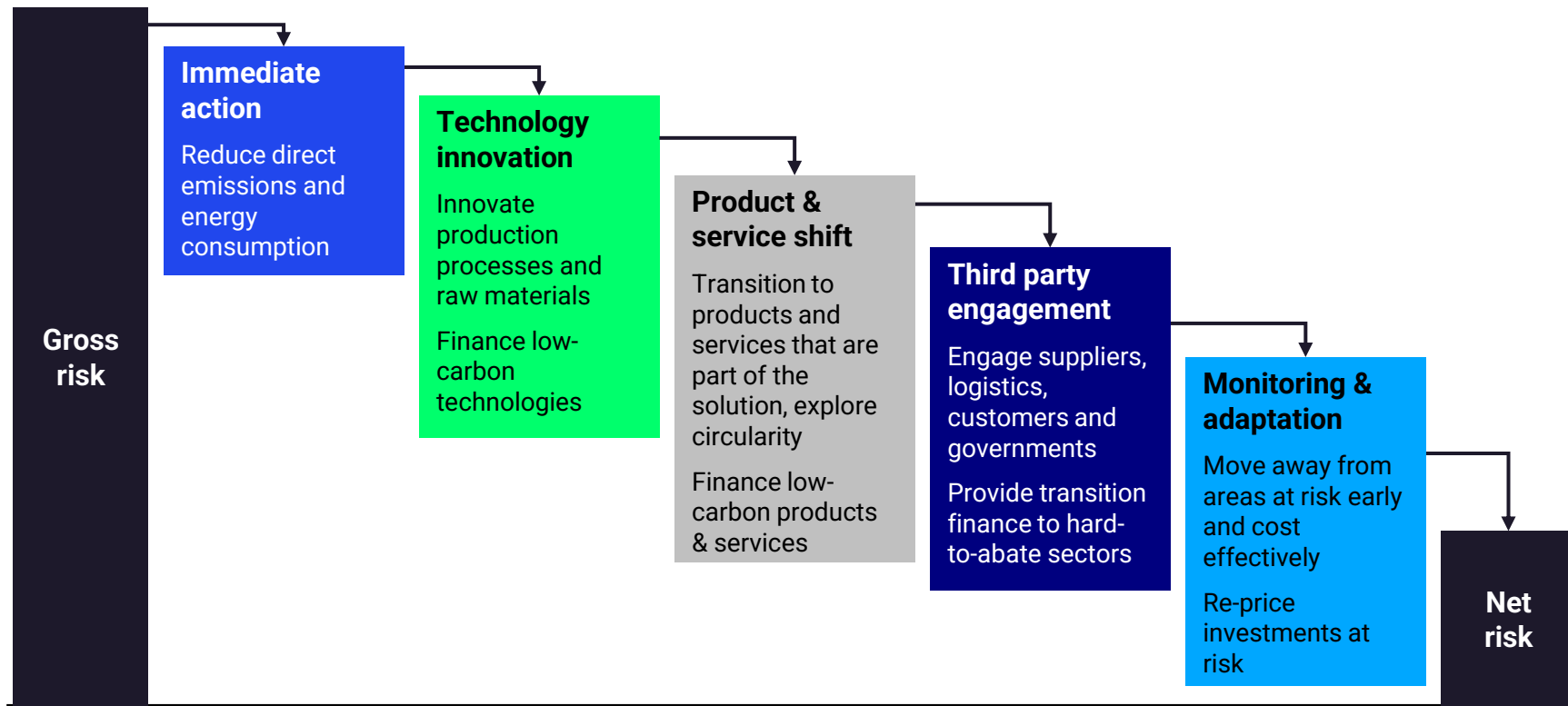


**Quantify the materiality avoided in one or more climate scenarios**

**Example of carbon pricing mitigation in a Net Zero Scenario**



# Transition risks can be managed by investigating how much change is needed to be resilient in Net Zero



# Example: ITV's Transition Plan

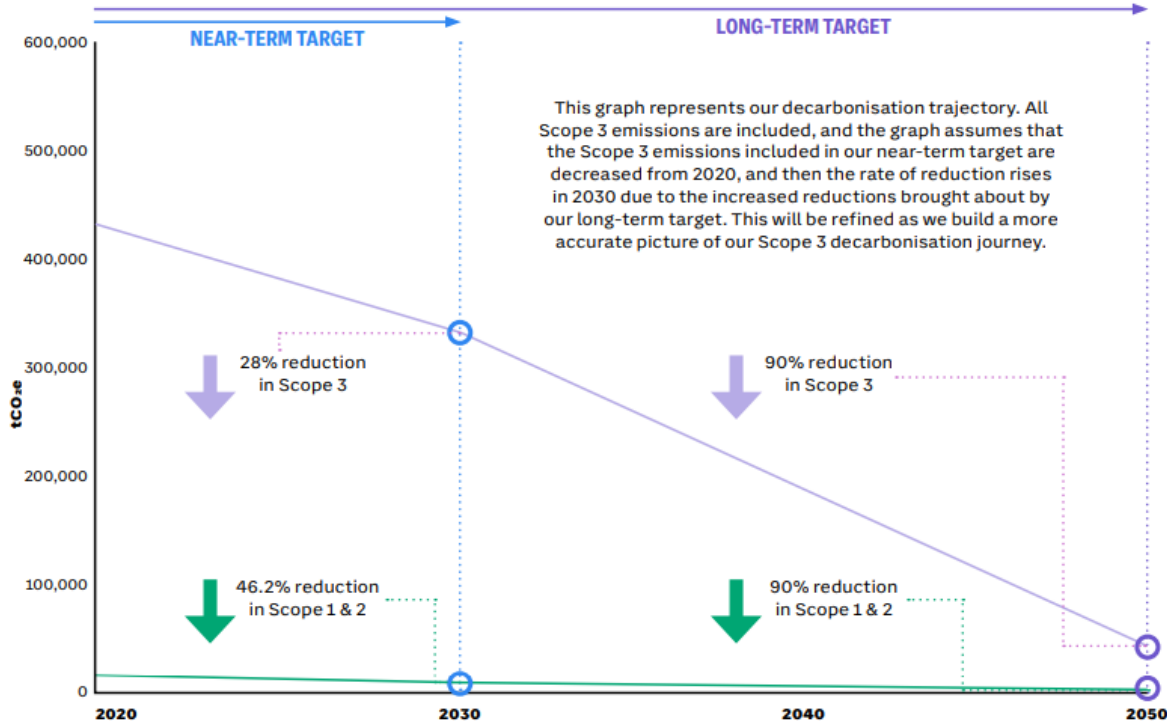



Figure 4: ITV's decarbonisation roadmap


Sets ambitious long- and short-term targets

# Example: ITV's Transition Plan


## CENTRAL SERVICES

Scope	Lever	Implemented or planned activities	Estimated savings (tCO <sub>2</sub> e)	Timeline
Scope 1 & 2	 Upgrading our buildings	At our Leeds site, recent major plant infrastructure and building upgrades led to a significant saving of approximately 1.8 million kWh of electricity and 3.5 million kWh of gas between 2020 to 2022. The ability to zone parts of the building means that where areas are not in use they can now be switched off, which will continue delivering savings in the future.	Approx. 1,000 tCO <sub>2</sub> e from our 2019 base year to 2022*  *2023 figures have not yet been reported	●

## ITV STUDIOS



Category	Lever	Implemented or planned activities	Status
 1: Purchased goods & services	Training and certifications	A significant portion of our Scope 3 footprint comes from the production of TV programmes by our internal production labels, and BAFTA albert plays a key role in shaping the path to net-zero for this part of our footprint. To achieve BAFTA albert certification, productions must calculate their carbon footprint and complete a Carbon Action Plan. So, by mandating the BAFTA albert certification on all titles produced in the UK, and working closely with the UK broadcasting community, we ensure that a coherent approach is taken across	●









## ITV MEDIA & ENTERTAINMENT

Category	Lever	Implemented or planned activities	Status
 1: Purchased goods & services	Linear broadcasting	We are working with our terrestrial and satellite distribution partners and our playout providers to improve data quality. We are gaining a better understanding of their Scope 2 emissions attributed to ITV, and will focus on the inclusion of Scope 1 and Scope 3 data to ensure we account for the full emissions associated with the services we procure. Alongside data improvements we are also ensuring efficiency, with service consolidation and switches to renewable energy.	●
	Streaming	We are working to understand the impact of increased digital traffic on emissions by developing models that enable us to understand the carbon impact of streaming platforms. This will allow us to forecast the impact of increased digital viewing and identify areas for emissions reductions.	●

Discloses specific actions to achieve the targets, across the full value chain

# Example: ITV's Transition Plan

- Actions implemented
- Being implemented
- Planned
-  Actions that help to accelerate the industry-wide net-zero transition
-  Actions to help us achieve net-zero emissions



ITV STUDIOS			
Area	Current or planned activities	Impact area	Status
Production	We have mandated that all new programmes produced in the UK should achieve BAFTA albert certification.	 	<span style="color: green;">●</span>
	International production labels are encouraged to engage with local collaborative initiatives in order to help to accelerate progress in all the markets in which we operate.	 	<span style="color: green;">●</span>
	As a global production business we are actively monitoring regulatory and market evolution to ensure compliance and to effectively meet changing customer needs.	 	<span style="color: green;">●</span>
	We are driving innovation to ensure that we can continue to deliver high-quality shows that viewers will love, while reducing the emissions associated with their production.	 	<span style="color: cyan;">●</span>

Maps how low-carbon innovation will help achieve targets and mitigate transition risks

# Example: ITV's Transition Plan

● Actions implemented    
 ● Being implemented    
 ● Planned

## ITV STUDIOS

Activity	Details	Status
 Tracking extreme weather	We have a Weather Notification System to enhance our response to extreme weather events and the impact they have on ITV production activities. This includes real-time monitoring of meteorological data, customised alerts tailored to production areas, and direct notifications to allow for proactive awareness. We are then building actions into our existing business continuity measures, which include insurance, operational preparedness, and evacuation protocols.	<span style="color: green;">●</span>
 Enhancing our processes	Climate risk has been built into New Production Notification Forms required for all new programmes prior to production.	<span style="color: green;">●</span>

Also considers actions needed for adaptation to physical climate risks





**Example: Decarbonising the offshore  
wind industry**

# Sustainability challenges within the offshore wind industry

Where the Carbon Trust is using **collaboration** will support industry acceleration



## Supply chain carbon emissions

Setting standards; mapping emissions; green materials production

## Construction and installation carbon emissions

Vessel emissions (offshore); transport emissions (onshore)

## Uncertainty on future trends

Impact of sustainability on cost; impact of climate change; mapping of GHG emissions of future sites

## Circularity

Recycling of various components /assets; reuse of various components /assets; site recovery/repowering

# The Sustainability Joint Industry Programme

## Objective and structure

- A **developer-funded** and **developer-led** collaborative programme to accelerate decarbonisation action across future fixed and floating projects for a net-zero OSW industry.
- A **united voice on sustainability** will help influence wider industry on targets and motives around sustainability within the OSW sector.
- We use the proven and reliable Carbon Trust JIP model to **interface with all relevant initiatives and parties** through advisory groups and expert panels to enable an industry-wide shift, including with licensing bodies and regulators.
- Together, we will support the transition to a net-zero OSW industry and **accelerate the deployment of carbon reduction solutions** in OSW.



### Programme management



### RWE SUS JIP Steering Committee



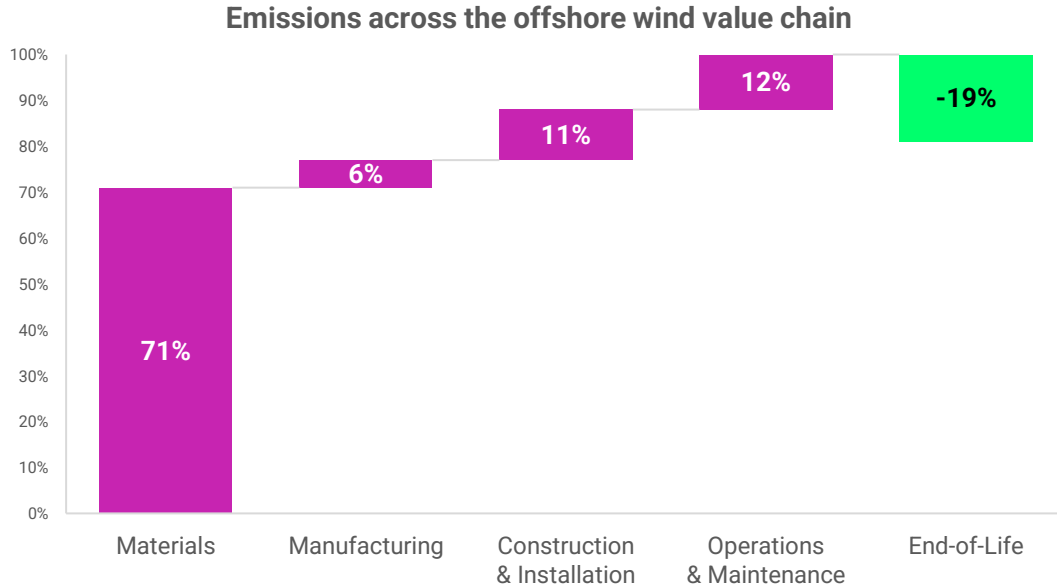
### OWLiD Project Delivery



### Stakeholders

- Government bodies
- Industry associations
- Regulators/licensing bodies
- Academic institutes

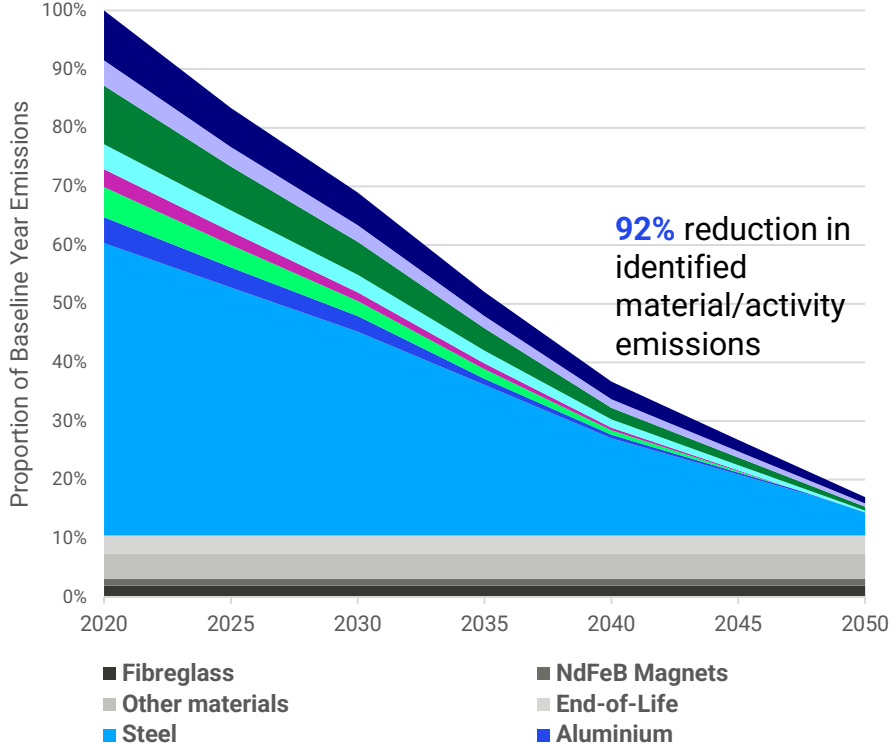
# Industry-level decarbonisation opportunities



# The offshore wind transition pathway demonstrates that Net Zero is achievable with significant action



Decarbonisation projections by emission source classification\*

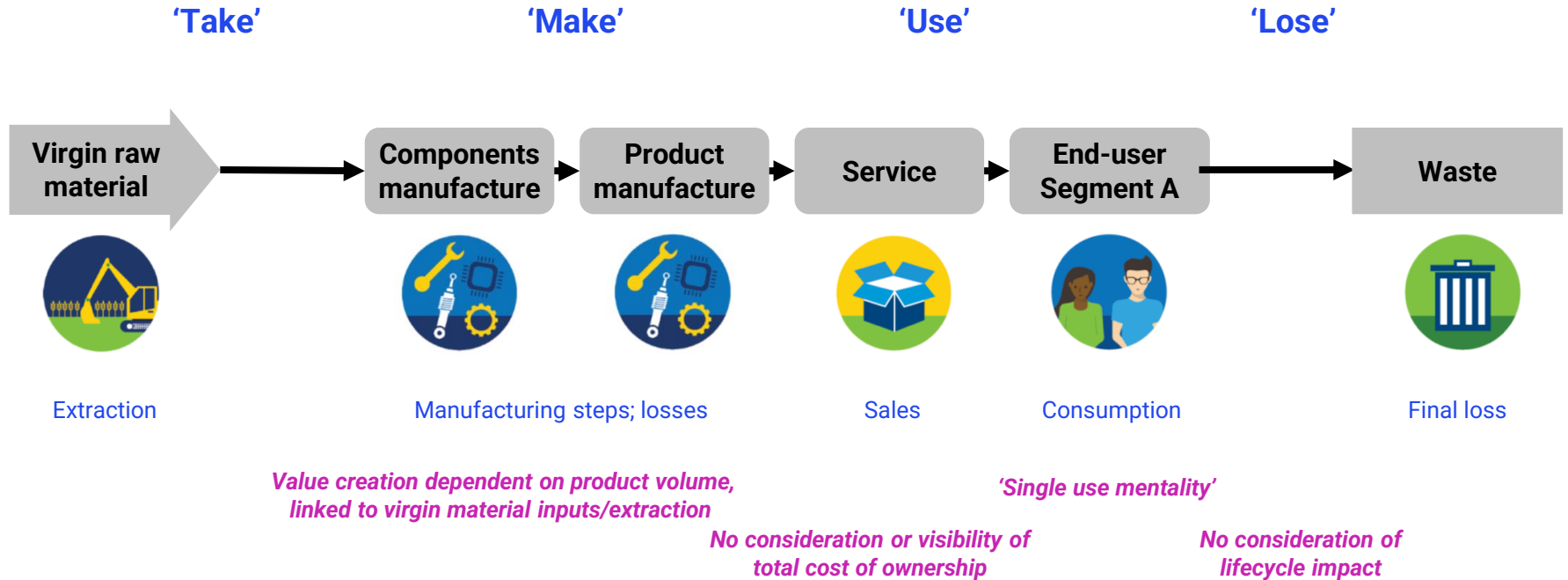


\*Based on Siemens' SG 8.0-167 DD EPD. The decarbonisation of the components shaded in grey have not been evaluated within the scope of this work.

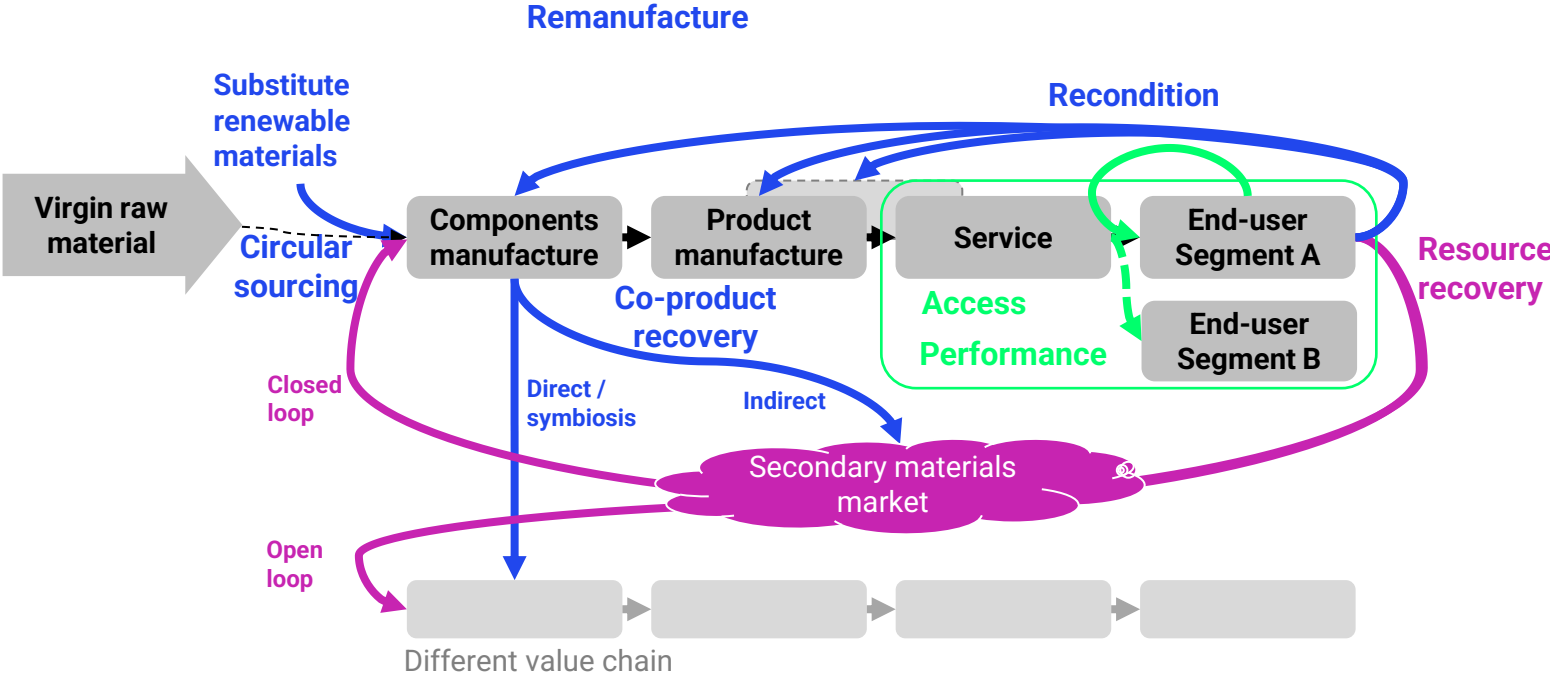


**Example: Circularity as a decarbonisation  
lever for offshore wind**

# Linear economy model



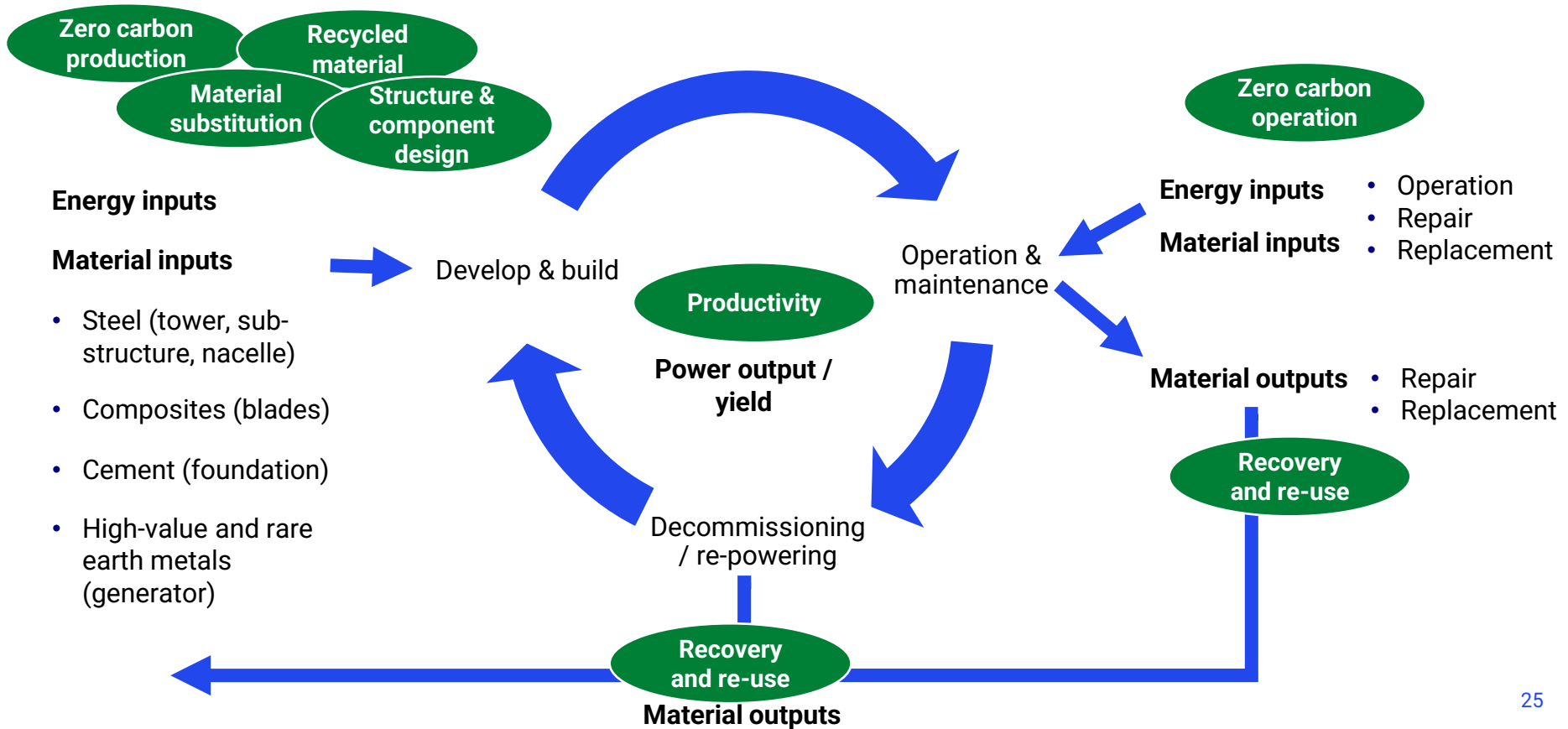
# A circular economy maintains and retains the value of products and materials within a system



Source: Carbon Trust, R2Pi/EU Horizon2020

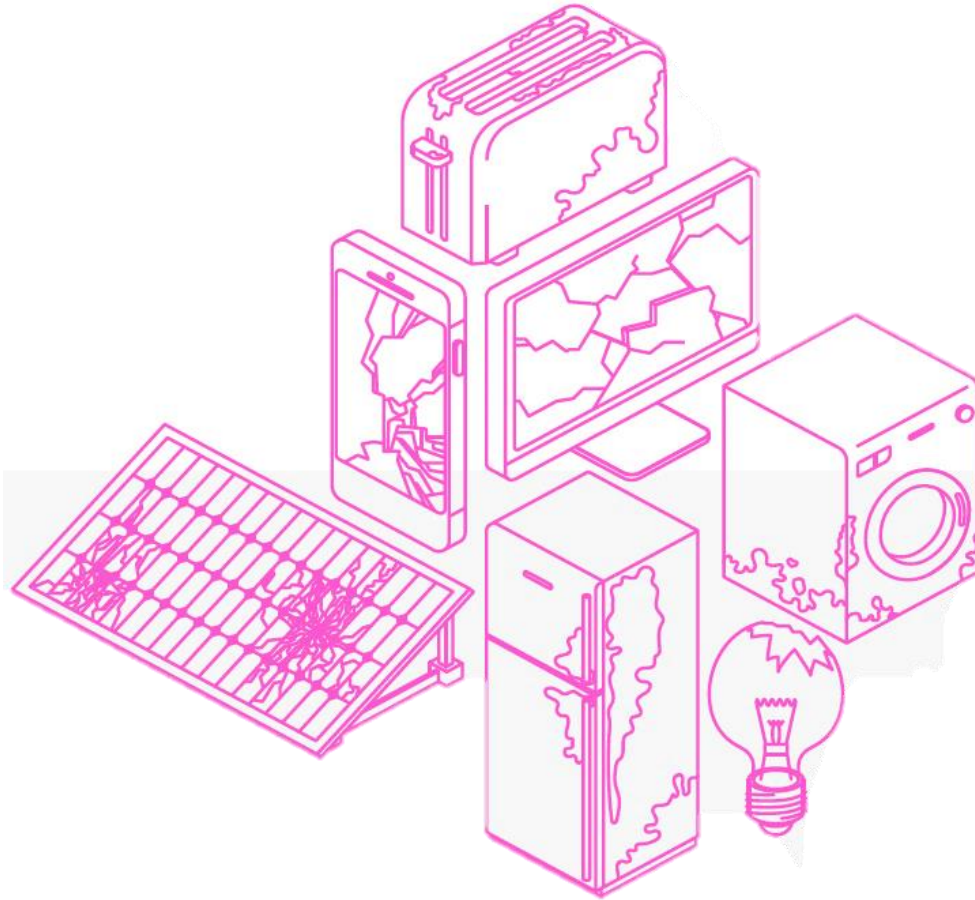


# Circularity within the offshore wind value chain





**Example: Circularity as a decarbonisation  
lever for the ICT industry**

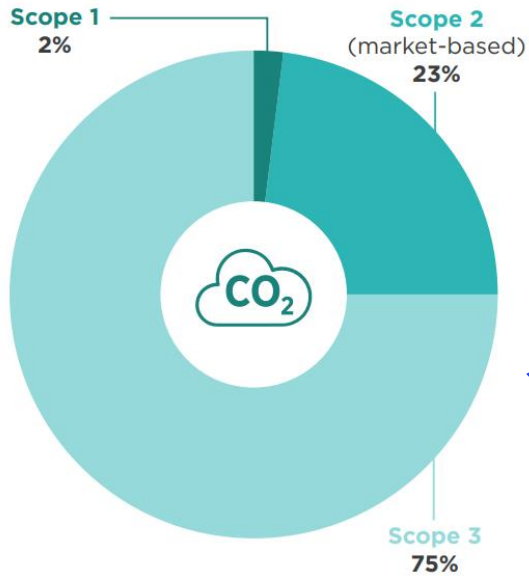


**62M tonnes of e-waste was generated globally, of which 22% was documented as formally collected and recycled**

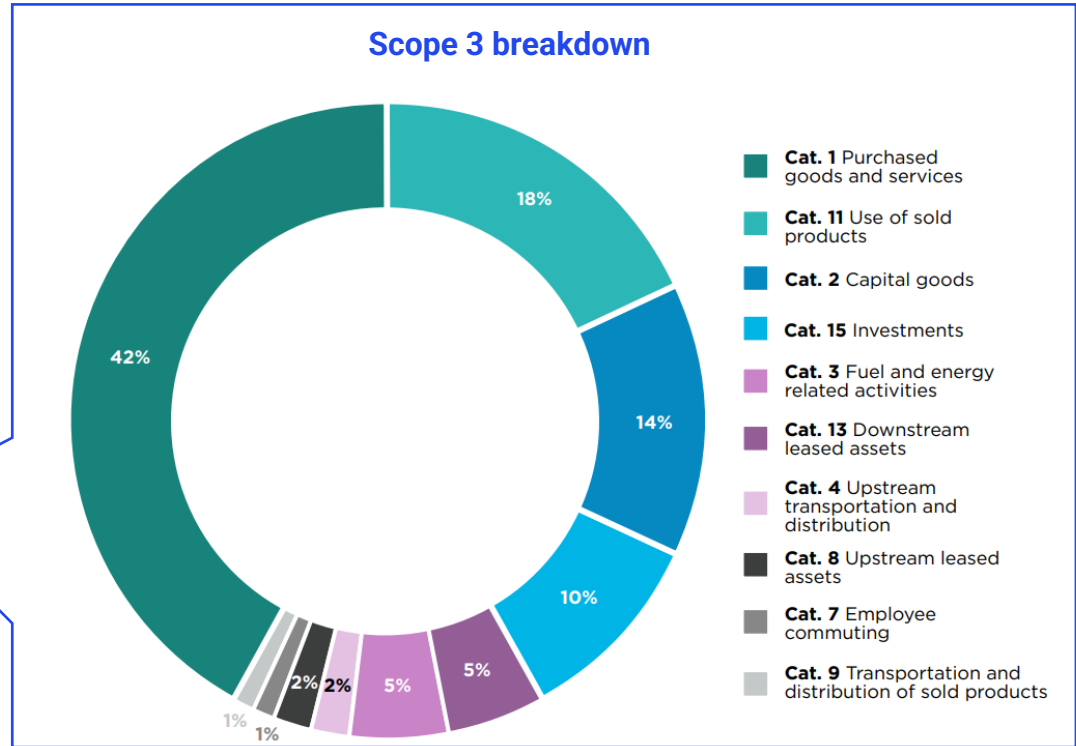
**\$91B is the estimated value of metals in global e-waste**

# In the mobile sector, approximately 60% of value chain (Scope 3) emissions come from the supply chain and use of sold products

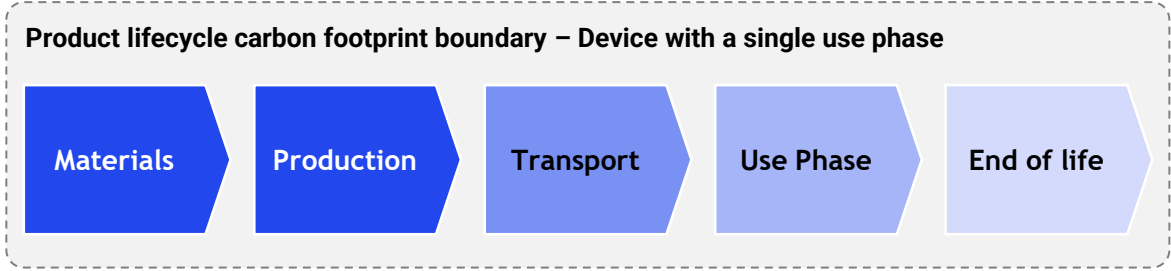
## Mobile industry emissions by scope



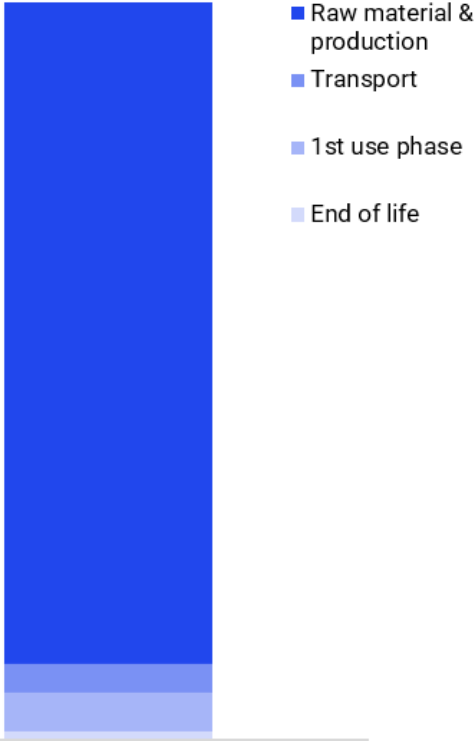
## Scope 3 breakdown



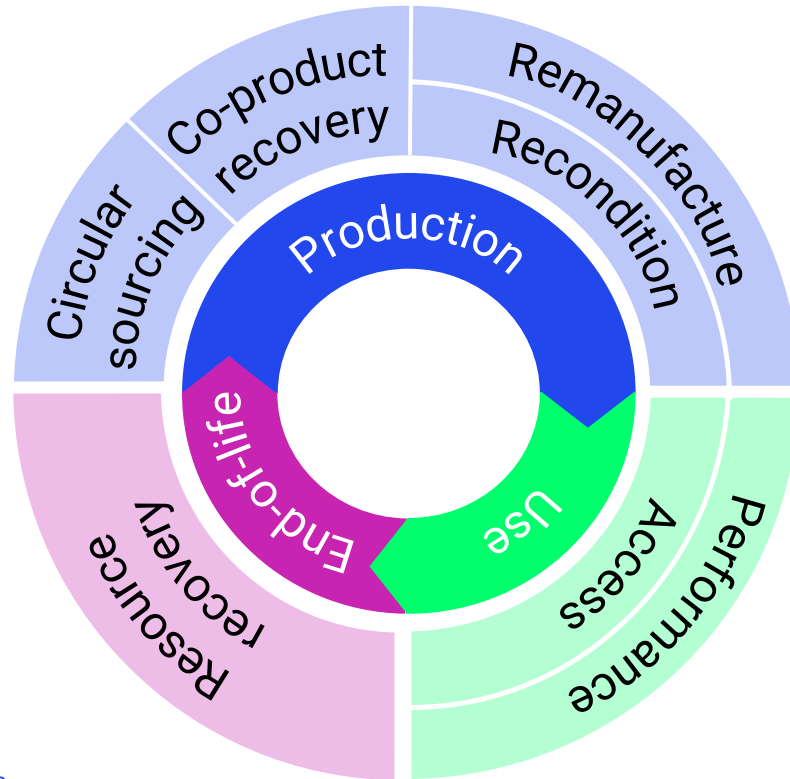
# For a mobile device, raw materials and production can contribute over 80% of lifecycle emissions



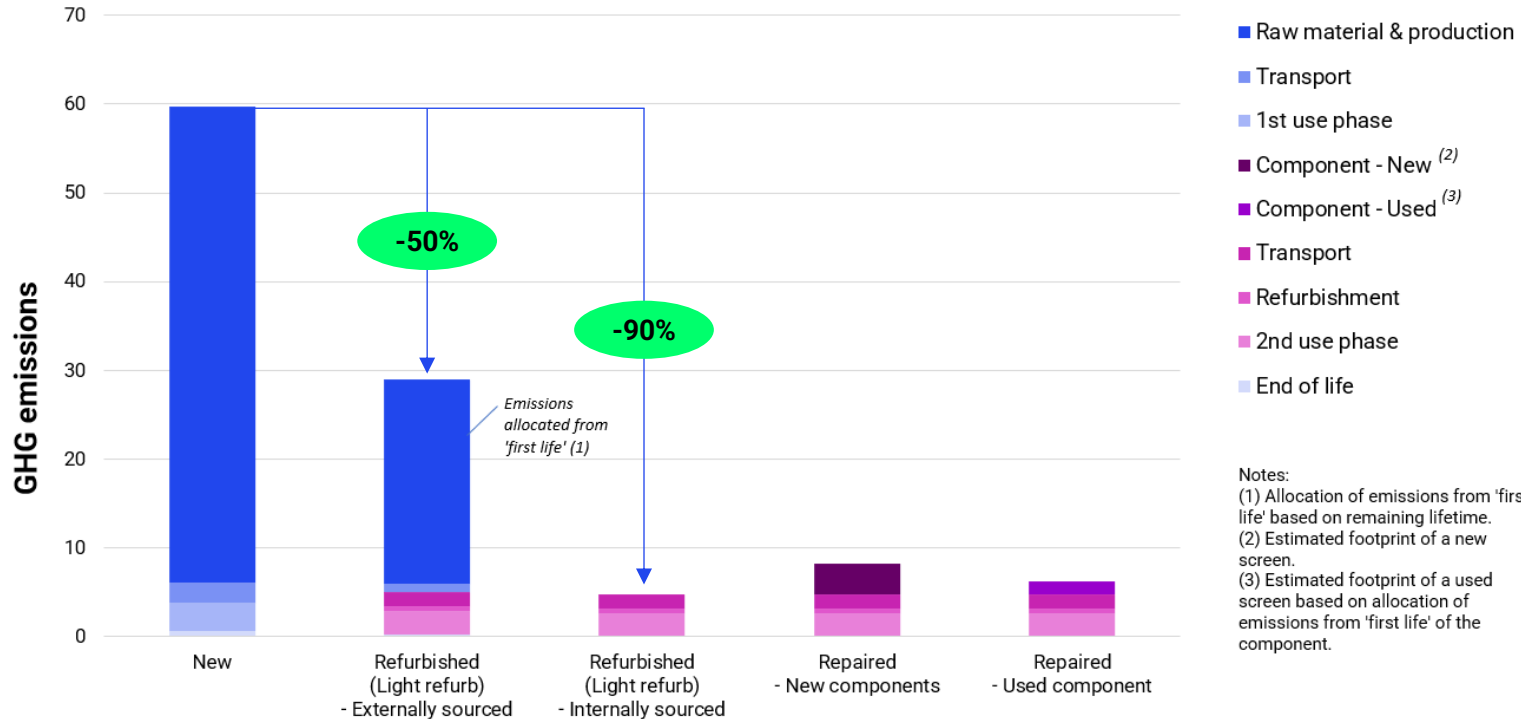
Distribution of lifecycle emissions for a device



# The mobile sector can apply a number of circular models

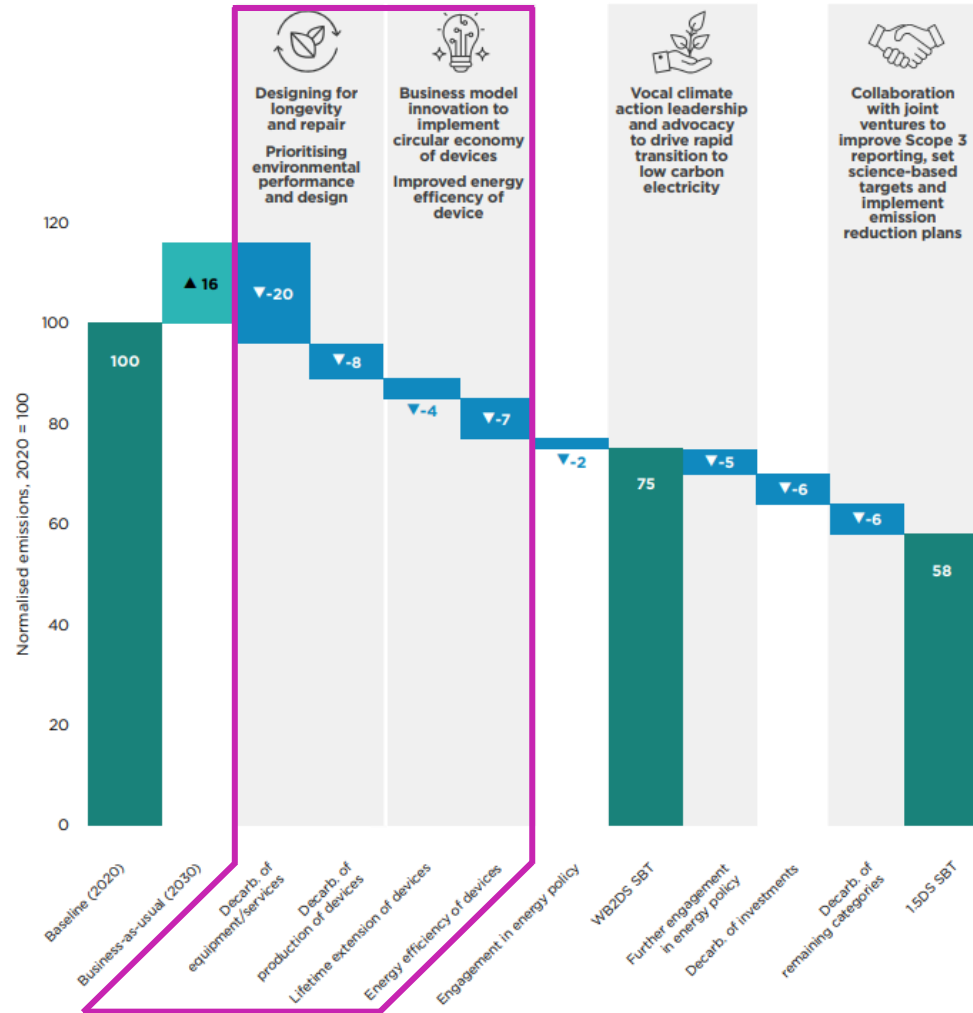


# Reconditioning can reduce Scope 3 emissions associated with mobile devices by 50-90%





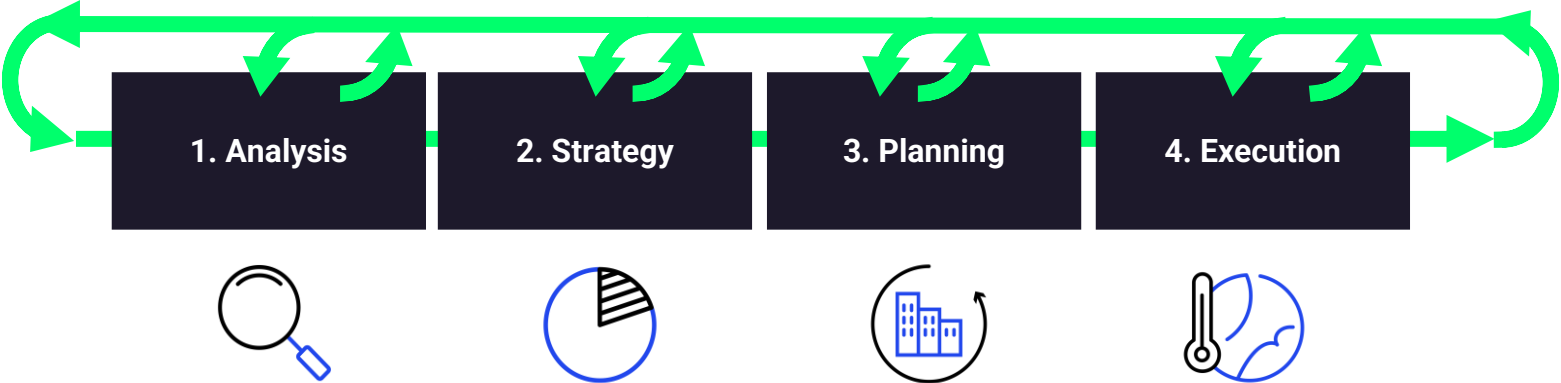
# Circularity and product design are the biggest levers that the sector needs to unlock to achieve their climate targets



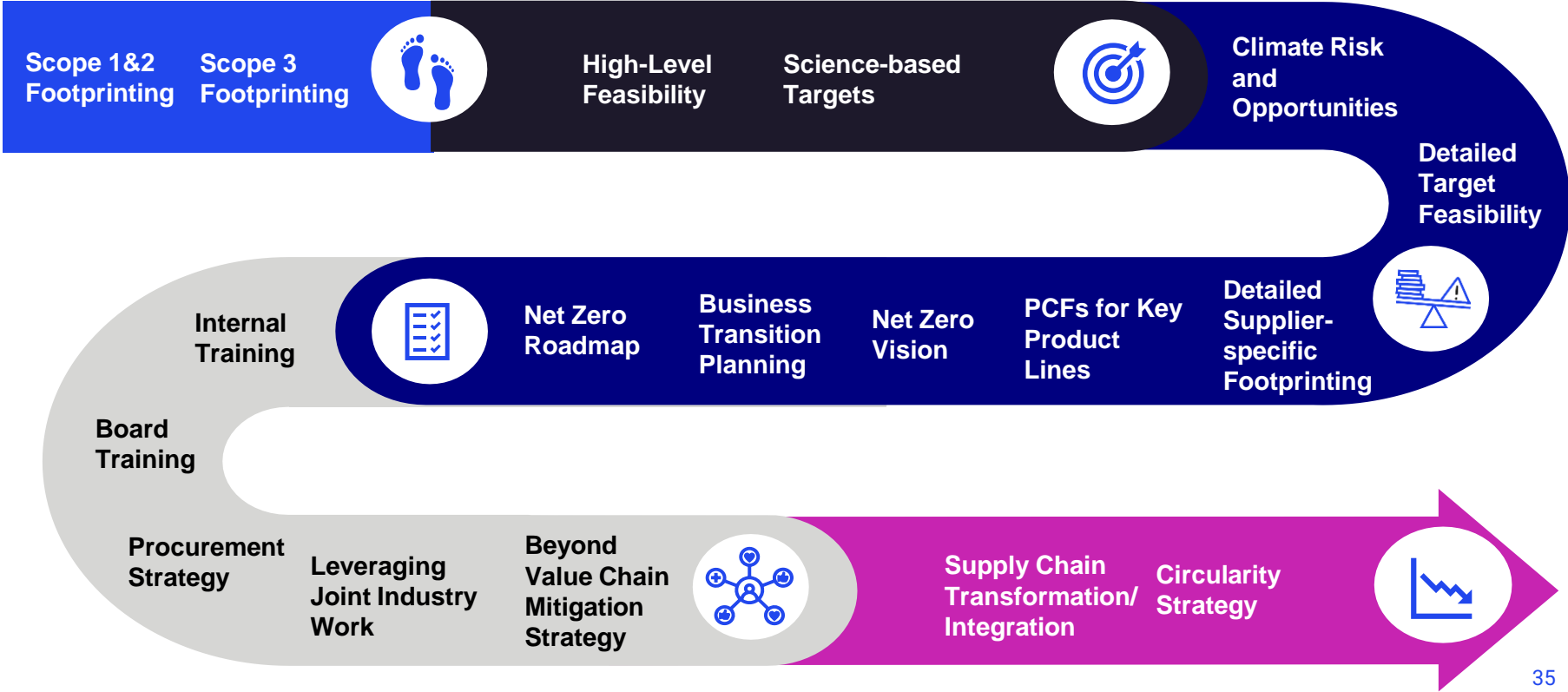


# Conclusions

# Circularity and business model innovation need to be part of transition planning and execution



# While every journey is different, there are milestones to work towards



# Summary

- Transition Planning is an opportunity to **turn ESG compliance into strategy**
- **Use scenario analysis** to assess your climate-related risks and opportunities, and create a business case for decarbonisation
- Decarbonising will help you **mitigate risks** and **unlock opportunities**
- **Collaboration and engagement are key** to achieve Zero

