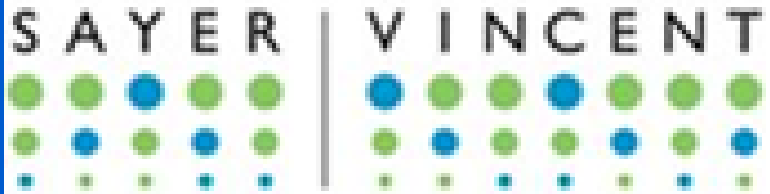


# *Introduction to Carbon*

Presented By:

Adrian Burton & Rob Allison

Contact Details: [adrian.burton@auditel.co.uk](mailto:adrian.burton@auditel.co.uk)



# Carbon 101

## Sustainability in the whole



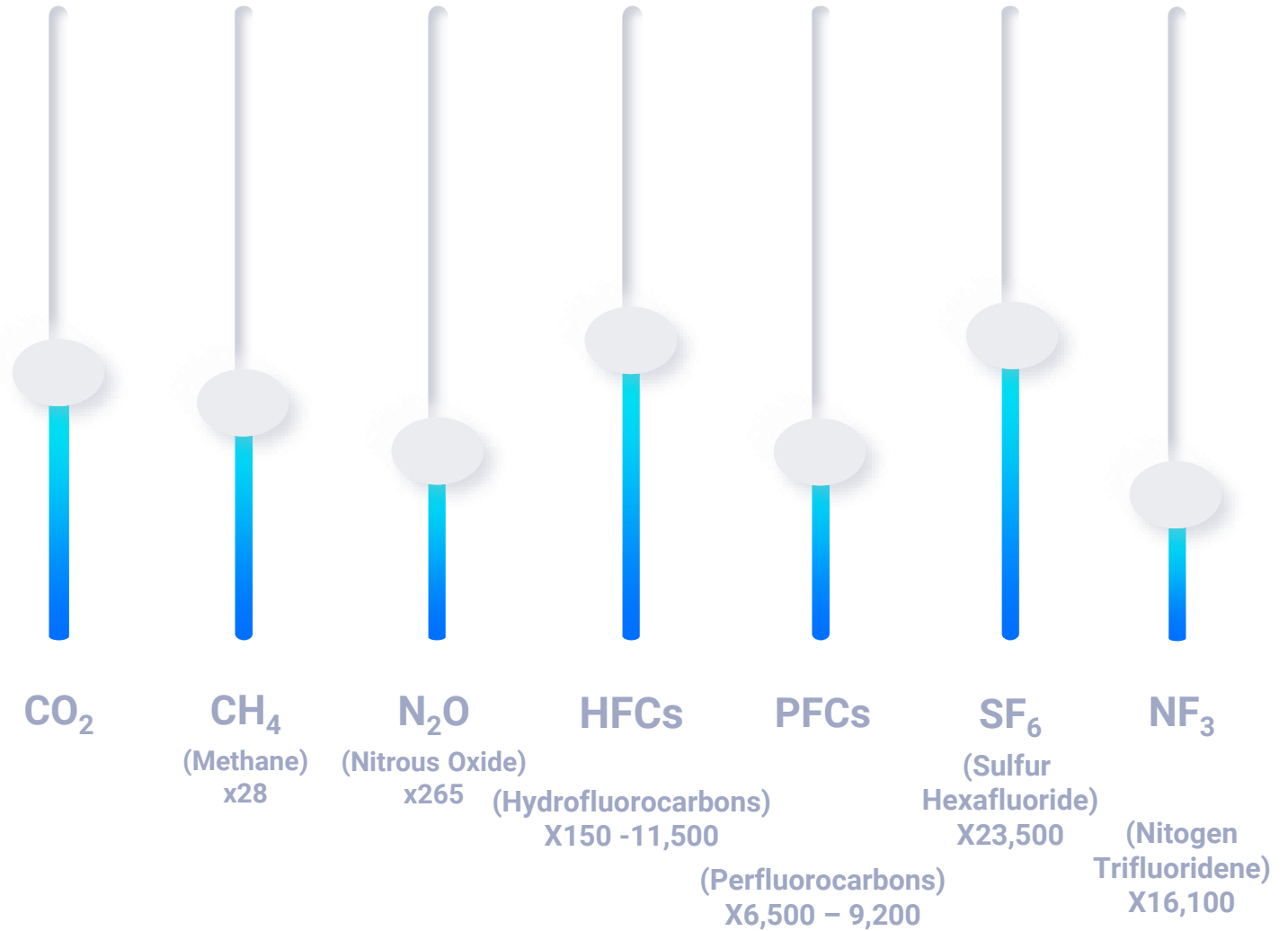
**Climate Action** is one of the 17 UN Sustainable Development Goals (SDGs).



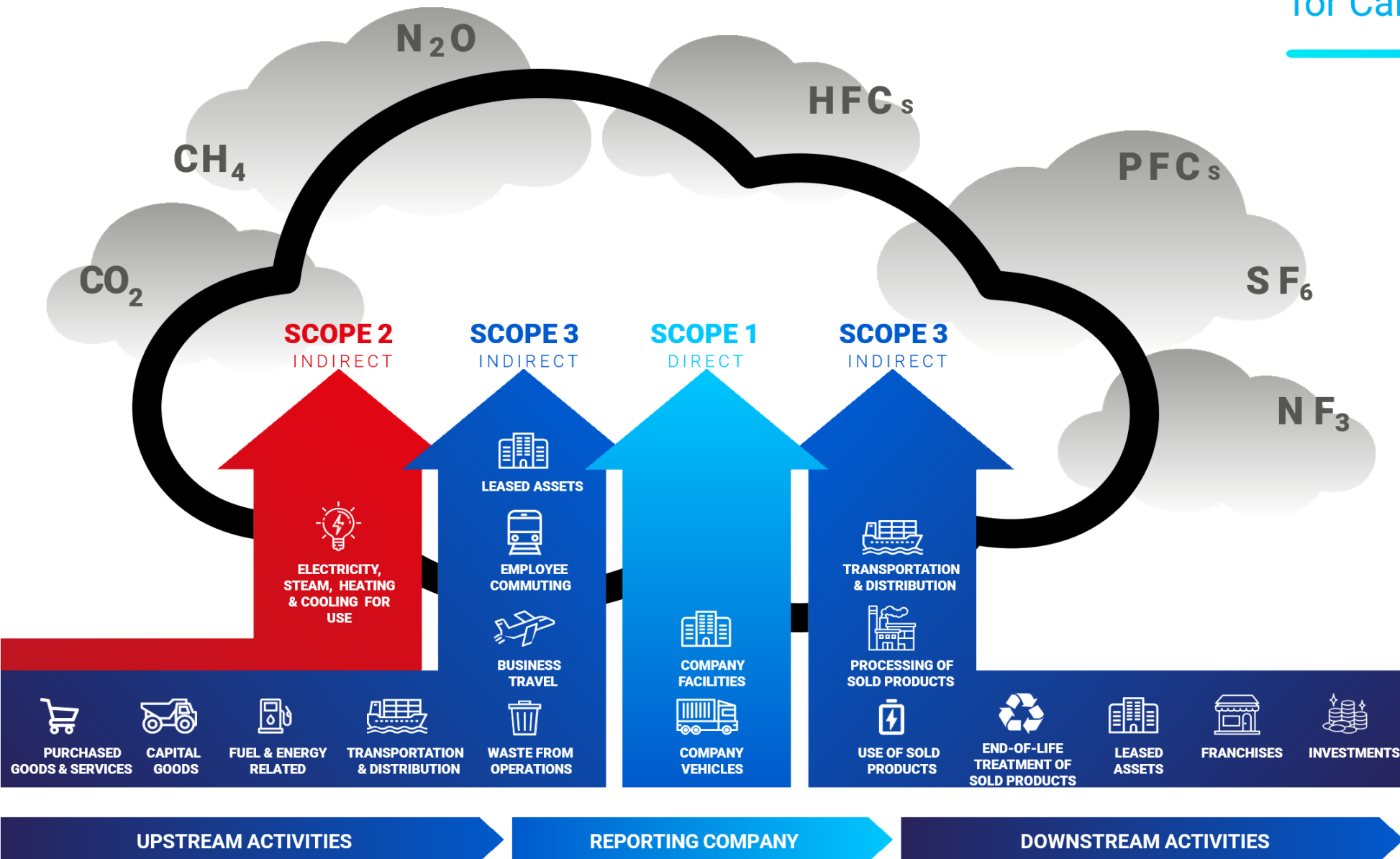
# Understanding Carbon

GHG – 7 main  
gases

Covert back to  
tCO<sub>2</sub>e



# GHG Emissions Scopes for Carbon Accounting



**Scope 1**  
Direct emissions from owned or controlled sources

**Scope 2**  
Indirect emissions from generation of purchased electricity, steam, heating and cooling

**Scope 3**  
All other indirect emissions that occur in an organisation's value chain (waste treatment, purchasing of goods, business travel, employee commuting etc).



An iceberg floating in the ocean. The tip of the iceberg is above the water surface, while the much larger base is submerged. A white bracket on the left side of the image groups the three scope labels. The background is a clear blue sky with some clouds and a blue ocean.

SCOPE 1

SCOPE 2

SCOPE 3

# Importance of Scope 3



## The Journey to Net Zero:

What the terminology is and what it means

---

### **Carbon Neutral – short term**

Means balancing your reducing GHG emissions by “offsetting” an equivalent amount of carbon for the amount produced.

### **Net Zero – long term**

This is reached when the amount of residual CO<sub>2</sub>e emitted is matched by the quantity of CO<sub>2</sub>e removed or captured. You cannot achieve net-zero by offsetting.





## The Journey to Net Zero:

What the terminology is and what it means

---

### **Organisational Carbon**

**Means the GHG emissions associated within the operational boundaries of the subject and within the organisational control.**

### **Embodied Carbon**

**Means the carbon associated with the material extraction, transport to manufacturer and manufacturing of a specific items or products.**

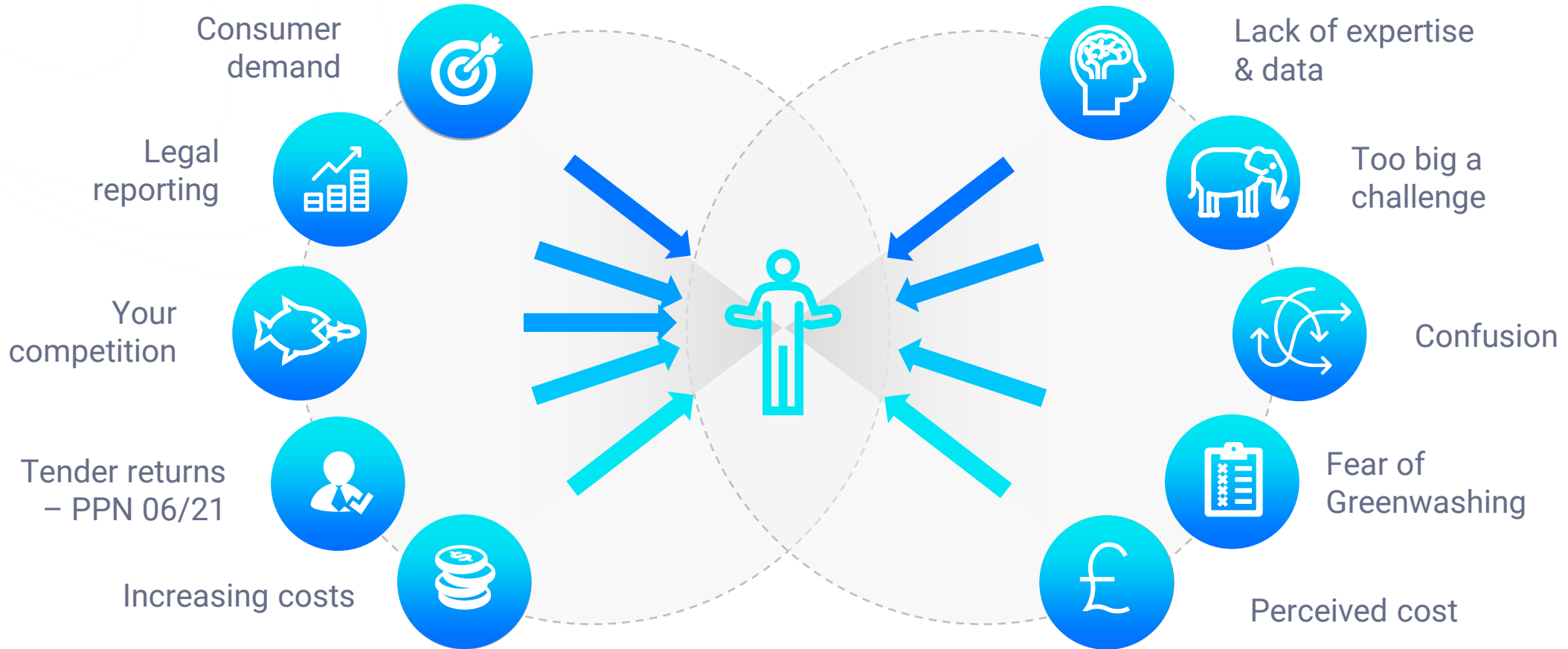


# Carbon Management

## Opportunities & Challenges

### Market Forces

### Challenges



# SECR & ESOS Qualification Criteria

	SECR	ESOS
WHO	Any 2 out of 3	either emp or both financial
Employees	> 250	> 250
Turnover	> £ 36m	> € 50m
Balance sheet	> £ 18m	> € 43m
Group	Group aggregate Can exclude small entities	No group aggregate One in all in
WHEN	Annual (directors report)	4 Yrs (next deadline Dec '23)
WHAT	Energy & Emissions Energy Efficiency Narrative	Total Energy Energy Audits on 90%
Verification	not mandatory	ESOS lead assessor



# Carbon Management Process

The new normal

**Step 1**  
Measure



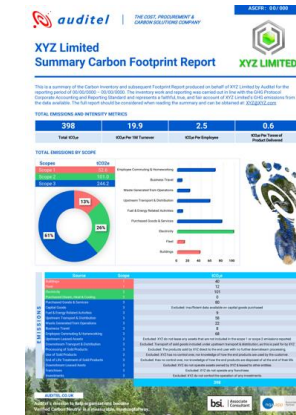
**Step 2**  
Set Targets



**Step 4**  
Verify



**Step 3**  
Reduce





THE COST, PROCUREMENT &  
CARBON SOLUTIONS COMPANY

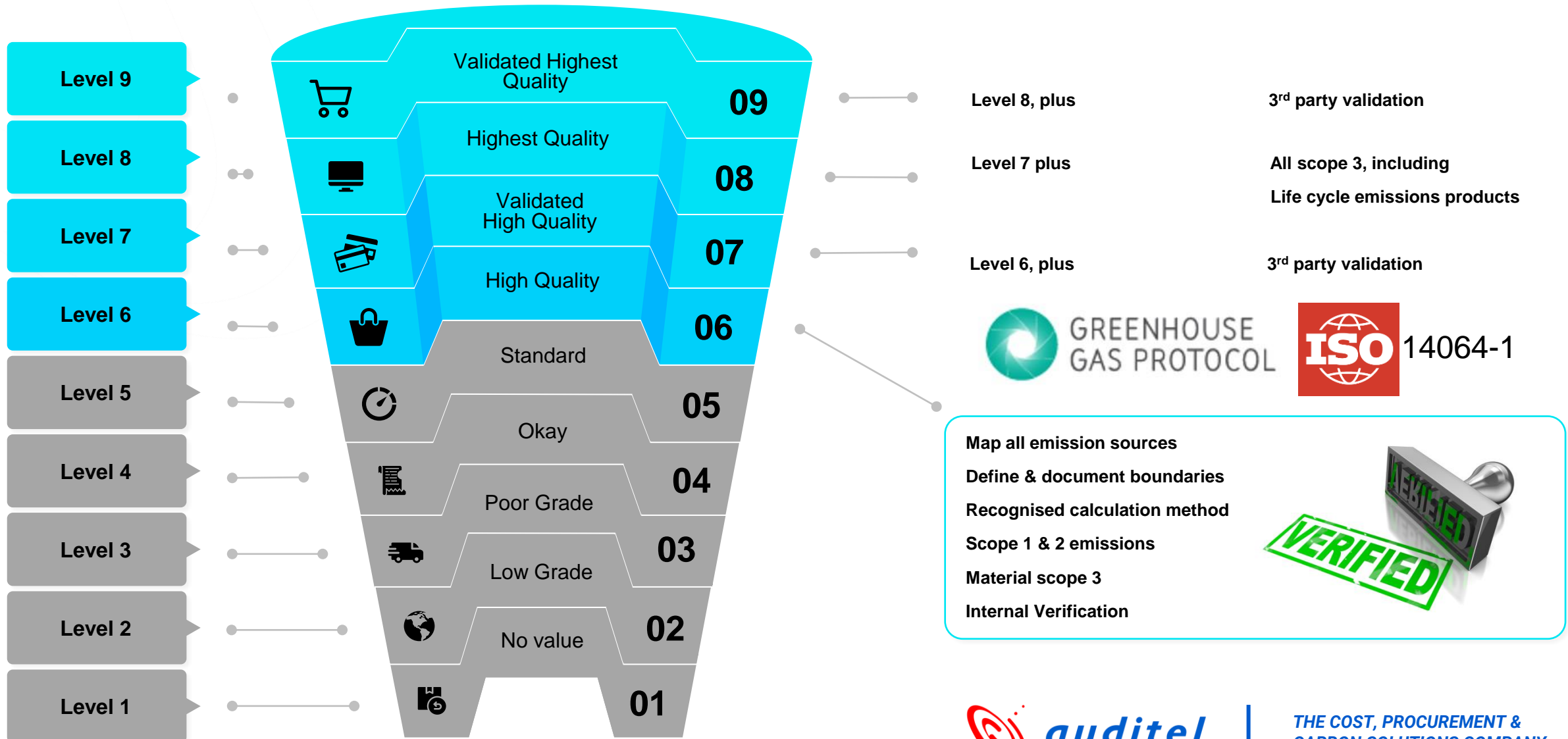


**NOT ALL CARBON FOOTPRINT  
REPORTS ARE THE SAME**



# Carbon 101

## Grades of Carbon Reporting





# Carbon Neutral

# Carbon Management in Infrastructure

# Verification of Science Based Reduction targets

# UNCC Net Zero Framework



# Quality Accounting

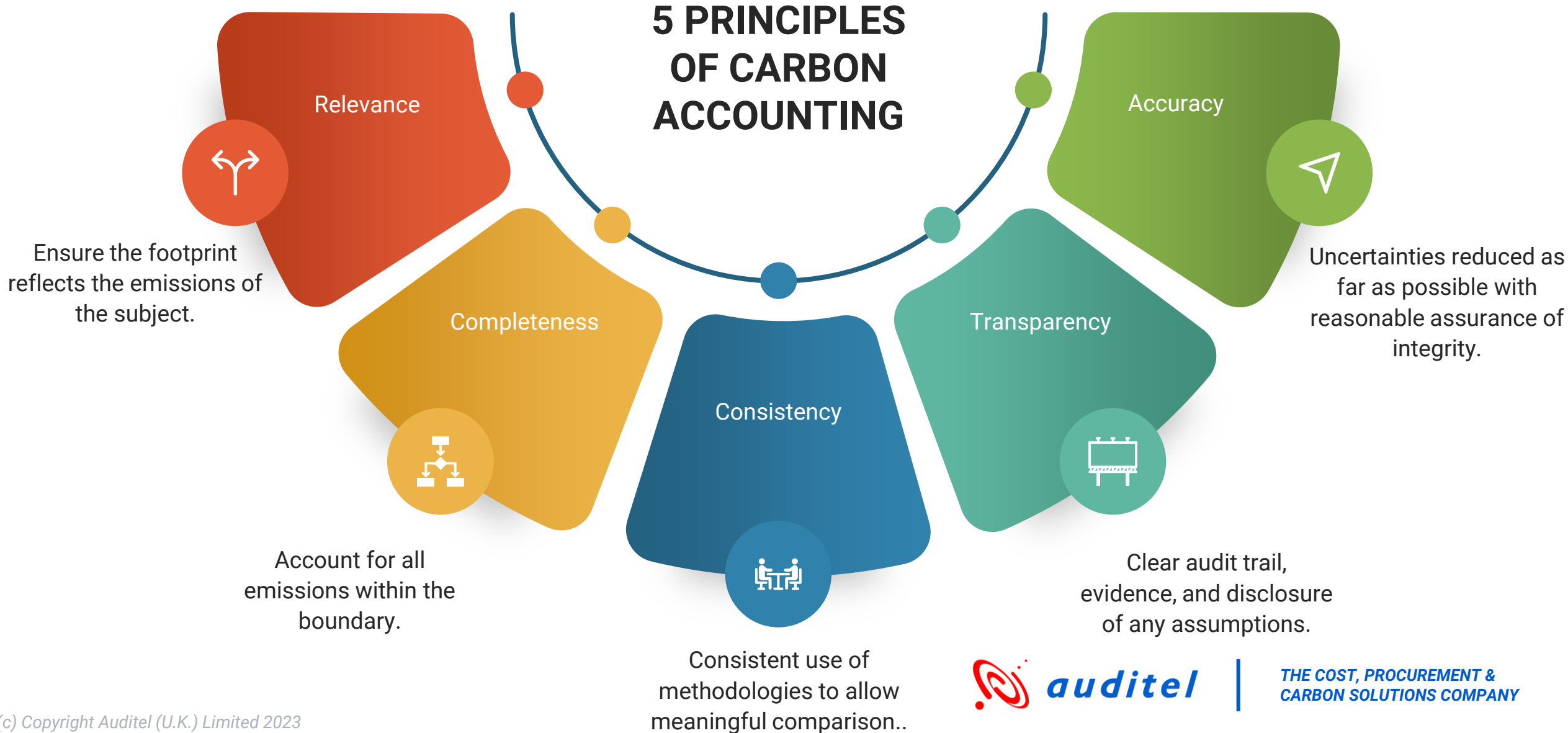
## Data Types

---

Type of Data	Description
<b>Primary Data</b>	Data collected from specific sources or sinks affected by the policy or action (for example, fuel used and measured at a specific facility)
<b>Secondary Data</b>	Data that is not collected from specific sources or sinks affected by the policy or action (for example, data from published databases, government statistics, literature studies, and industry associations)

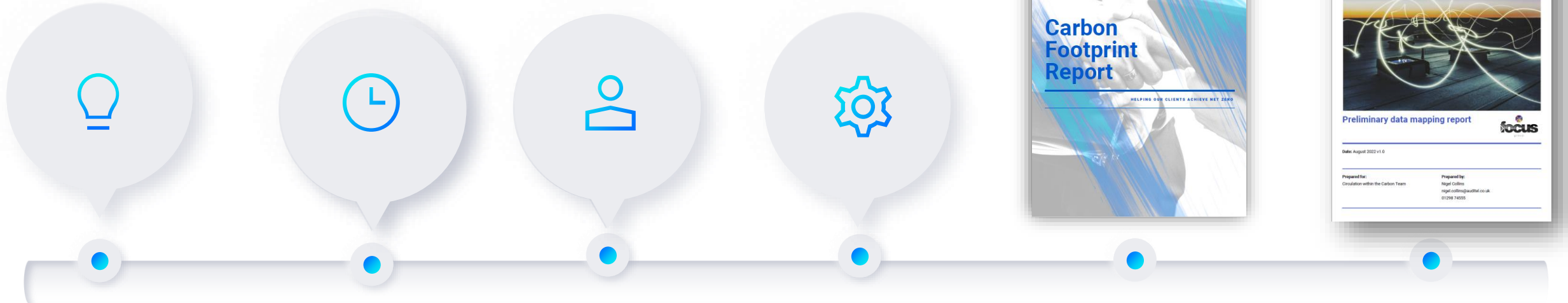
# Measure Carbon Footprint

## 5 Principles of Carbon Accounting



# Carbon Inventory

## The Process



### Identify Project Team

Needs a balanced team of senior leadership, operations and finance.

### Agree Boundaries

Begin with Scope 1 & 2 and sub-set Scope 3.

### Data Collection Plan

A blend of Primary & Secondary data sources

### Analyse & Assess Data

Analyze all data & information collected using approved method. E.g., GHG Protocol ISO14064-1

### Carbon Footprint Report

Your baseline carbon footprint will be established in this report

### Data Improvement Plan

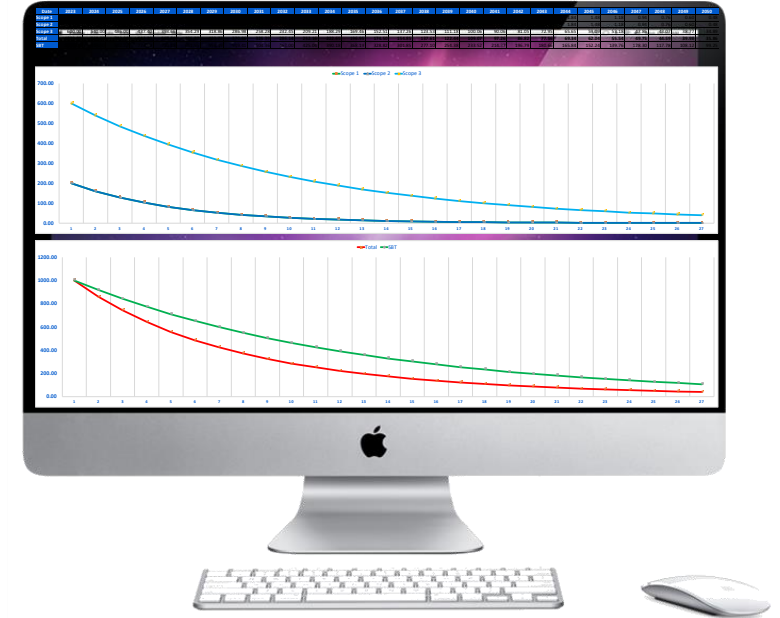
5-year plan for data improvement



# Scienced Based Target Setting

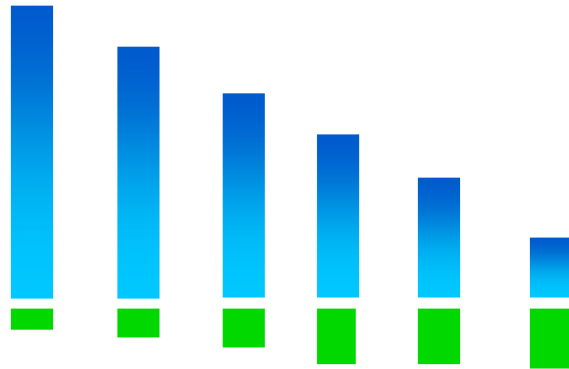
## Aligning to Save the Planet

What does net-zero mean?



Current State: Net amount of GHG emissions is >55 GT CO<sub>2</sub>e year

Anthropogenic GHG emissions

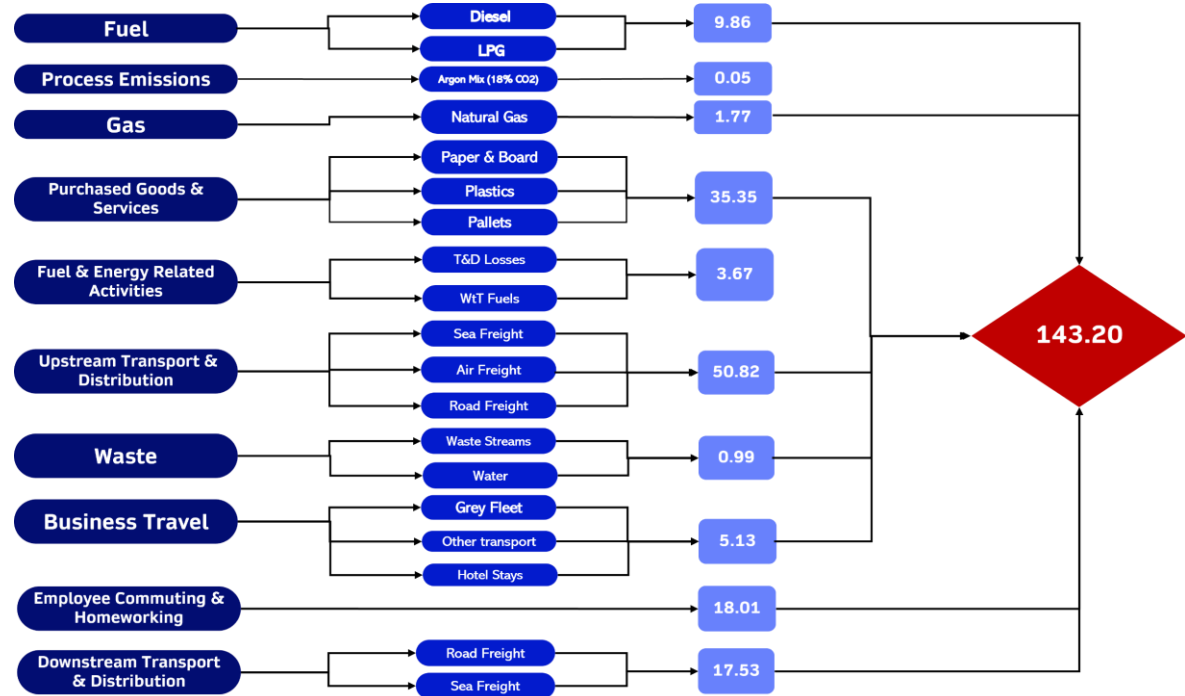


Goal: Net amount of GHG emissions is zero GT CO<sub>2</sub>e year

Anthropogenic carbon removals

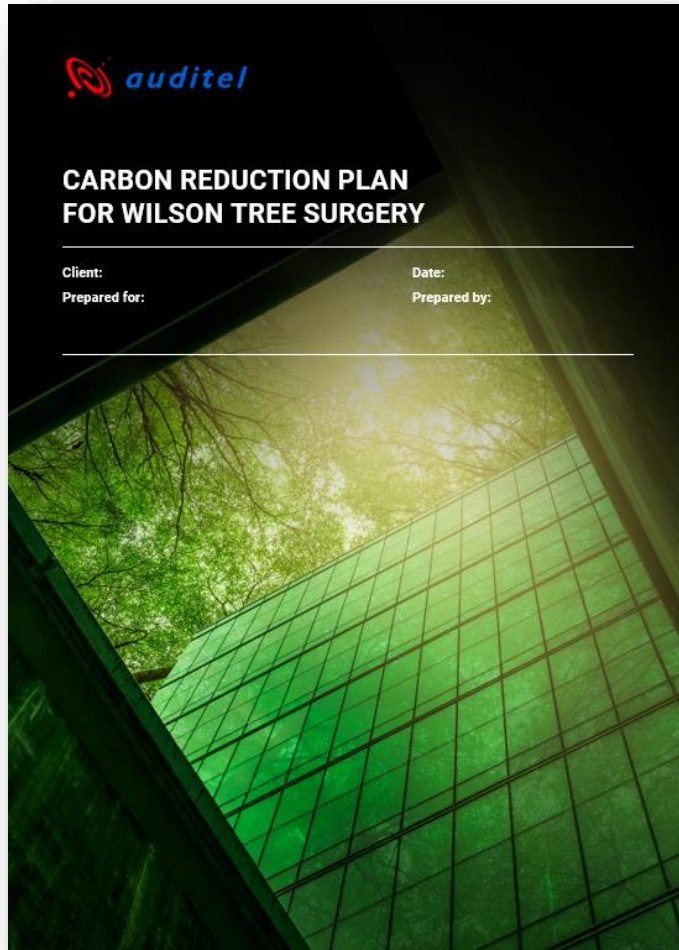
# Carbon Reduction Workshop

## A Strategy for Your Carbon Reduction Goals



# Carbon Reduction Plan

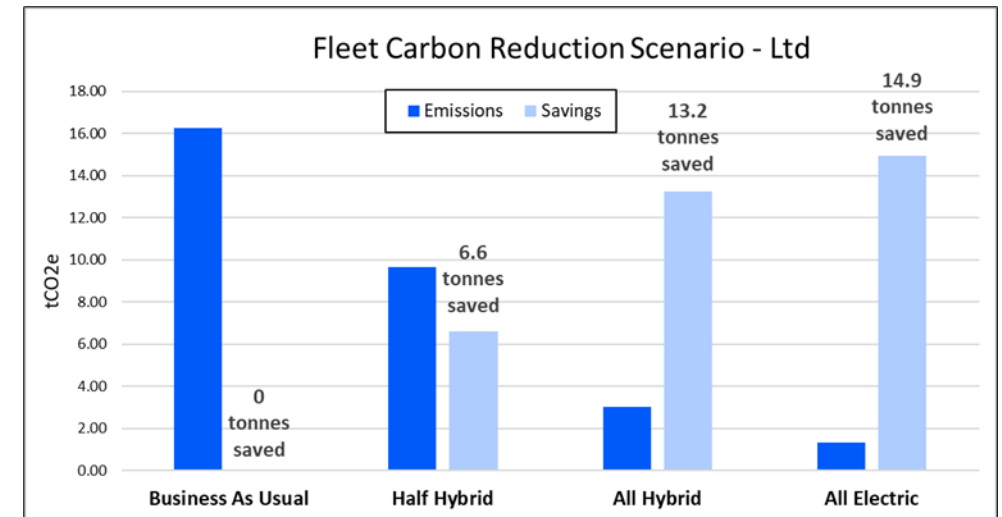
## A Roadmap to Your Net Zero Ambition



### Planned Carbon Reduction Initiatives

#### Carbon Reduction Targets

Scope Category	2022 Emissions (tCO2e)	Proposed Reduction by 2030 (tCO2e)	Proposed Reduction Measures
1	23.55	14.5	Moving all fleet to hybrid
2	0.00	0.00	N/A
3	205.35	7.85	Moving fully to carbon neutral delivery service
<b>Total</b>	<b>228.90</b>	<b>22.35</b>	





# Carbon Reduction Plan

## A Roadmap to Your Net Zero Ambition

---



- **Avoid Greenwash**
  - Risk to reputation & brand damage
  - Increasingly under spotlight
  
- **Consider**
  - Behavioural changes
  - Capital projects
  - Procurement projects

# Carbon Management Process

## Roadmap to Net Zero



tCO<sub>2</sub>e →

**Year 1**

**Year 2**

**Year 3**

**Year 4**

**Year 5**

**Net Zero**

1. Baseline
2. **Set Targets**
3. Reduce
4. Verify

**Starter**

1. Baseline
2. **Set Targets**
3. Reduce
4. Verify

**Emerging**

1. Baseline
2. **Set Targets**
3. Reduce
4. Verify

**Mature**

1. Baseline
2. **Set Targets**
3. Reduce
4. Verify

**Market Leader**

1. Baseline
2. **Set Targets**
3. Reduce
4. Verify

**Market Leader**

# Honest Communications

## Sharing Your Carbon Journey with the World

**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

**CHARITY SECTOR**

### Auditel help P3 take action to measure & drive progress towards becoming Net Zero



*"It is our responsibility to act in the interest of our stakeholders; the people we work alongside, our staff, our volunteers, and every single person in the communities we serve, to take action starting now. The work we are doing with Auditel will help us measure and drive our progress towards becoming Net Zero."*

Mark Simms  
CEO, (P3)



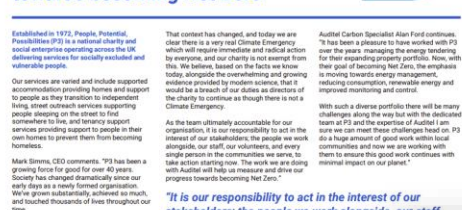
**P3**

PEOPLE POTENTIAL POSSIBILITIES  
Summary Carbon Footprint Report

**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

**CHARITY SECTOR**

### Auditel help P3 take action to measure & drive progress towards becoming Net Zero



**P3**

PEOPLE POTENTIAL POSSIBILITIES  
Summary Carbon Footprint Report

**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

**COMMERCIAL PROPERTY SERVICES**

### Innes England begin their journey to become Verified Carbon Neutral

**INNES ENGLAND**  
MAKE A GREAT DECISION



Photo: Innes England's sustainability committee

*"As the built environment is responsible for nearly 40% of global carbon emissions, it is essential that we in the real estate landscape make it a key priority to reduce the environmental impact. Innes England aims to responsibly operate in the property and places sector whilst safeguarding the planet."*

Matt Hannah  
Managing Director  
Innes England



**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

**COMMERCIAL PROPERTY**

### Innes England begin their journey to become Verified Carbon Neutral

**INNES ENGLAND**  
MAKE A GREAT DECISION

Innes England provided award-winning commercial property services are delighted to announce that they have joined forces with their new Carbon Partner, Auditel, to deliver on their strategic objective of reaching Net Zero.

Innes England provided award-winning commercial property services for a wide range of businesses across the Midlands that are looking for local, tailored expert advice at any stage of the property lifecycle.

With 4 office locations in Derby, Nottingham, Leicester and now Birmingham, our localised approach means we can provide unparalleled knowledge and insight for our prestigious client list.

Our director-led experienced team offers a complete integrated solution spanning the entire commercial property spectrum, maximising value whilst mitigating any potential risks.

'Planet, Places & Property'

Matt Hannah Managing Director Innes England comments, "As a leading agent in the Midlands, we recognise that our role is to manage our business and that of our clients by putting disciplines into practice that help reduce environmental impact. Acting now can positively influence the environment, community and economy, today and in the future."

*"As the built environment is responsible for nearly 40% of global carbon emissions, it is essential that we in the real estate landscape make it a key priority to reduce the environmental impact. Innes England aims to responsibly operate in the property and places sector whilst safeguarding the planet."*

Matt Hannah, Managing Director Innes England




Photo: Innes England's sustainability committee

**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

**PEOPLE POTENTIAL POSSIBILITIES**

### People Potential Possibilities Summary Carbon Footprint Report

ACFR: 22/007

This is a summary of the Carbon Inventory and subsequent Footprint Report produced on behalf of People Potential Possibilities by Auditel for the reporting period of 01/04/21 - 31/3/22. The inventory work and reporting was carried out in line with the GHG Protocol Corporate Accounting and Reporting Standard and represents a full CO<sub>2</sub> footprint, and full account of People Potential Possibilities GHG emissions from the data available. The full report should be considered when reading the summary and can be obtained at: [info@ppp.co.uk](mailto:info@ppp.co.uk)

**TOTAL EMISSIONS AND INTENSITY METRICS**

	3,399	3.5	5.0
Total tCO <sub>2</sub> e	tCO <sub>2</sub> e Per Bedroom	tCO <sub>2</sub> e Per Employee	

**TOTAL EMISSIONS BY SCOPE**

Scope	tCO <sub>2</sub> e
Scope 1	1706
Scope 2	411
Scope 3	1029

**EMissions**

Scope	tCO <sub>2</sub> e
Energy	940
Transport	186
Business Travel	412
Waste	0
Purchased Goods & Services	Excluded: insufficient data available P3 can best estimate with no specific CO <sub>2</sub> footprint for the whole operation.
Company Cars	Excluded: insufficient data available P3 can best estimate with no specific CO <sub>2</sub> footprint for the whole operation.
Freight & Supply Chain Activities	30
Business Transport & Distribution	Excluded: insufficient data available P3 can best estimate with no specific CO <sub>2</sub> footprint for the whole operation.
Waste Generated from Operations	280
Business Travel	132
Employee Commuting / Home Working	447
International Business	907
Government Transport & Distribution	Excluded: no government transport and distribution due to the nature of services provided.
Procurement / Temporary Services	Excluded: no procurement services in the report of services provided.
Use of Self Products	Excluded: no self products due to the nature of services provided.
Use of Self Products	Excluded: no self products due to the nature of services provided.
Domestic Business Travel	Excluded: P3 does not collect data for energy and purchased in upstream leased assets.
International Business	Excluded: P3 does not collect data for international business.
Waste	Excluded: P3 does not collect data for waste.
<b>Total</b>	<b>3399</b>

**auditel** | THE COST, PROCUREMENT & CARBON SOLUTIONS COMPANY

Auditel's Mission is to help organisations become Verified Carbon Neutral in a climate safe, straightforward way.

bsi Associate Consultant





# Carbon Management Statement

## A Declaration of Your Carbon Commitment

# Stirling<sup>®</sup>

MEDICAL and SCIENTIFIC

## Net Zero Commitment

Everyone at Stirling Medical Group wants to do the right thing by the environment. We are committed to supporting the UK government's ambition of being Net Zero by 2050 and aim to minimise our impact on the planet by working to science-based targets.

In the short to mid-term, we are focussing our efforts on the accurate measurement of our emissions in all areas of activity, and then working closely with our partners and suppliers to explore ways to reduce our absolute emissions. We are too early in this journey to make verified claims about our achievements.

Stirling Medical Group are currently in the process of a detailed carbon inventory for 2023 emissions covering all scope 1, 2, & 3 emissions within the defined boundaries of our operational carbon footprint.

Throughout this work we will strive to use the Best Available Technique (BAT) when reporting and measuring our emissions. If better data or practice becomes available in the future, we will look to adopt it.

We welcome all of our partners and suppliers to join us on this important journey to Net Zero.

Working with our Carbon Partner







**auditel**

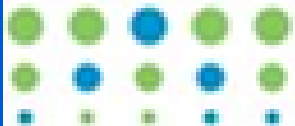
COST, PROCUREMENT &  
CARBON SOLUTIONS COMPANY

*Your Partner on your journey to Net Zero*

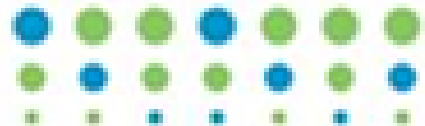
*Thank you*

Contact Details: [adrian.burton@auditel.co.uk](mailto:adrian.burton@auditel.co.uk)

SAYER



VINCENT



**bsi.** | Associate  
Consultant

**nqa.app** | Associate  
Partner