# Setting the foundations for Green Digitalization



Greg Miles
Decarbonization & Sustainability Head, PS&D
20/04/2022

Atos

# Atos

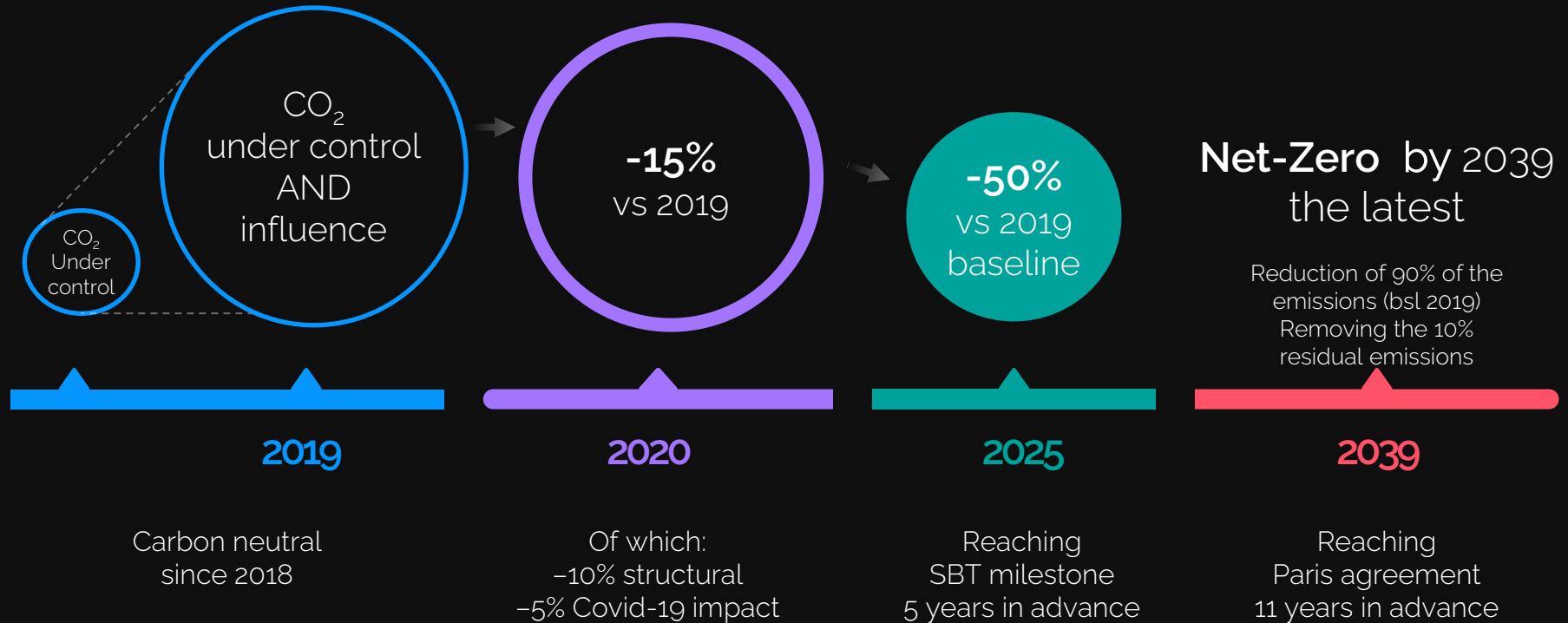We are **the global leader** in **secure** and **decarbonized digital.**

Supported by the talent and diversity of **109,000 employees** in **71 countries**, we generate an annual revenue of **€11 billion**.

We offer our clients a range of market-leading **digital solutions** and **products** alongside **consultancy** services, **digital security** and **decarbonization offerings.**

# Pioneering decarbonization
## Atos carbon emissions



$CO_2$
Under control

$CO_2$
under control
AND
influence

**-15%**
vs 2019

**-50%**
vs 2019
baseline

**Net-Zero** by 2039
the latest

Reduction of 90% of the
emissions (bsl 2019)
Removing the 10%
residual emissions

**2019**

**2020**

**2025**

**2039**

Carbon neutral
since 2018

Of which:
–10% structural
–5% Covid-19 impact

Reaching
SBT milestone
5 years in advance

Reaching
Paris agreement
11 years in advance

Atos

# The situation
## IT impacts the environment

- Organizations are digitalizing and the digital world is growing.

- Currently, digital technologies are responsible for 3.6% of global electricity use and 1.4% of global greenhouse gas emissions.

- What will these numbers look like if we don't act now given the fast acceleration of digitalization across the globe?

- Companies must now take up their responsibilities towards the impact of digital solutions and infrastructure.

Atos

# Greenhouse Gas Emissions – Digital Scope
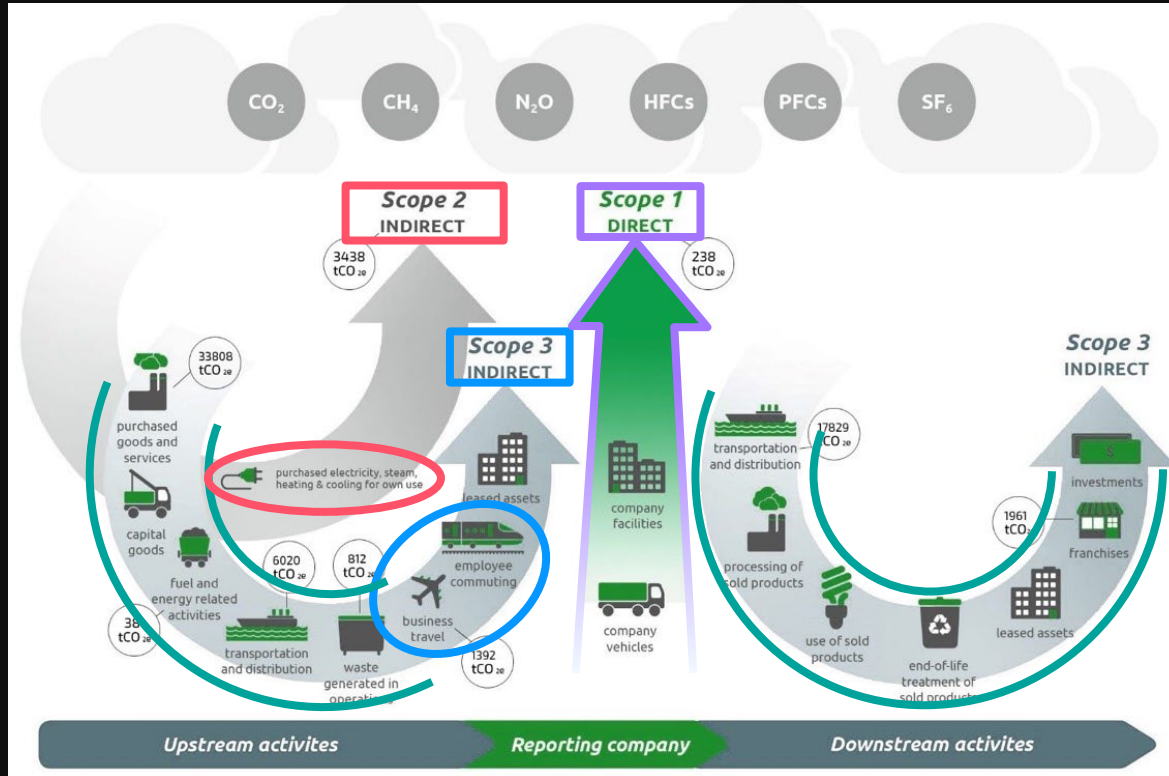


**Scope 1** (Direct)
- Company facilities
- Data centers
- Company vehicles

**Scope 2** (Indirect)
- Purchased electricity, heat, steam

**Scope 3** (Other indirect)
- Business travel (air, rail, bus, auto, etc.)
- Employee commuting (auto, bus, rail, etc.)

## Value Chain Impact Scorer (VCIS)

**Scope 3** (Upstream/downstream)
- Purchased goods/services
- Capital goods
- Transportation/distribution
- Waste generation
- Leased assets
- Processing/use/disposal of sold products
- Franchises
- Investments

AtoS

# Digital Emission Management

## Identifying what digital emissions can be measured, how to measure them, designing and deploying a solution

### Identify Emitting Components

IT components are structurally inventoried that mainly cause $CO_2$ emission. Those that are high-emitting are usually qualified as the starting point to make an impact. The rest of the identified components are followed in the next stage

### Define CO2 Data Elements

The data elements required for carbon footprint calculation of the entire identified components are defined and located. Their business owners and technical complexity along with their format, size, layout, quality and approachability are described

### Deploy a Platform

A scalable emission management platform is selected and put in operation. It drives decarbonization related activities to orderly house, analyse, visualise, dashboard and report on the progress made to provably achieve the emission target set

### Design a Collection Mechanism

A pertinent data collection mechanism (e.g. governance, process, people, technology) is designed. The aim is to automate to the largest extent possible the acquisition of the necessary carbon data from different internal and external data sources

1
2
4
3

Emission Management

AtoS

# Our Digital Emissions Lessons



## MyCO2Compass

**Decarbonization Data Platform**

- Get a clear handle on the data required to drive real CO2e reduction

- Delivering data insights, visualization, analysis and forecasting, leveraging Atos data models from Ecoact and beyond

- Accounting for compliance and regulations including risk and maturity assessment

- Combining Atos' digital leadership with our carbon analysis expertise

# Decarbonization Level Agreement

Our large contracts include a carbon reduction commitment:
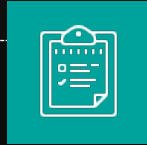DLA (DECARBONIZATION LEVEL AGREEMENT)

## Measurable
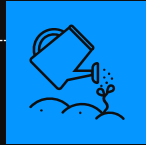
Achieve from 15% to 25% carbon footprint reductions*

## Binding

Atos will offset the $CO_2$ not reduced in accordance with the contract

## Auditable

External 3rd party audit every contract year

*Footprint reductions vary based on nature of the engagement / service Atos gives to their clients

Atos

# Scaler - Circular Computing for Digital Workplace
## Remanufactured devices



- Circular Computing sells remanufactured PC's that:
  - Are certified carbon neutral (customers can claim 316kgs of $CO_2$ avoided in their CSR report) & they **plant 5 trees for every laptop** the customer buys
  - Save up to 40% on the price when compared to new
  - Are premium performance, quality and backed by 1-3 year warranty

- As such – it answers to multiple customer stakeholders
  - ✓ Procurement : Save on cost and expenses
  - ✓ IT : Get performance, quality & service
  - ✓ Sustainability : Aligning with our customer's CSR goals & low carbon ambitions
  - ✓ PR & Marketing : To make the world's view of our customers a better one

- Perfect fit into the Atos Digital Workplace
  - We can turn this into a Decarbonized Device Subscription Service
  - We can even offer customers to sell their devices to Circular Computing at the end of the lifecycle
  - This is a great lever for reducing the carbon footprint for any customer that is in a device refresh planning and with whom we agreed on a Decarbonization Level Agreement

### Technicalities

- The laptops are not refurbished, they are rebuilt and appear 'new' to the users (**so CPUs are 4th, 5th , 6th Gen**)

- Circular Computing provides a **3 year warranty** Warranty is provided by CC – not by the OEM

- They work with **Dell, Lenovo, HP laptops** and moving into Chrome books

- Their factory is in **UAE** and they operate in **UK, Austria, NL, Denmark, NA**

# Ministry of Justice UK

## What Decarbonisation actions have we taken?

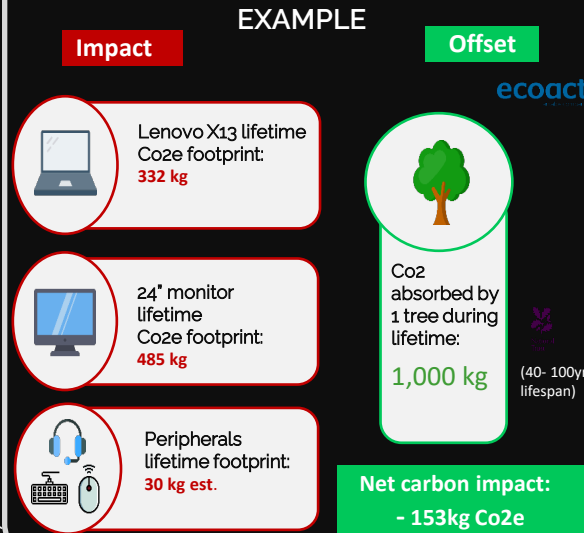### 🍃 Refurbishing and donating end of life hardware

Our partnership with **sustainable IT recycling** firm Tier 1 through our SME Horizons programme allows us to **save end of life hardware from being sent to landfill** and instead recycle the parts or better yet refurbish the device to be re-used elsewhere, such as the education sector.

Tier 1 help us recycle our own hardware as well as other clients across the public sector, meaning we have a good understanding of how to **securely dispose of sensitive public sector hardware** – all without damaging the environment.

### 🍃 Measuring impact of change & offsetting

To help **achieve the Government's ambition of Net Zero**, we measure and report the carbon impact of every change. We can then mitigate this though **carbon offsetting.**

#### EXAMPLE

**Impact**                    **Offset**

ecoact

Lenovo X13 lifetime Co2e footprint: **332 kg**

24" monitor lifetime Co2e footprint: **485 kg**

Peripherals lifetime footprint: **30 kg est.**

Co2 absorbed by 1 tree during lifetime: **1,000 kg**  (40- 100yr lifespan)

**Net carbon impact: - 153kg Co2e**

### 🍃 Measuring business carbon footprint

Our Decarbonisation Dashboard solution uses NextThink data to give an **interactive look at the carbon footprint of your business**, allowing you to easily **analyse the data** and **capture key insights** for decision making.
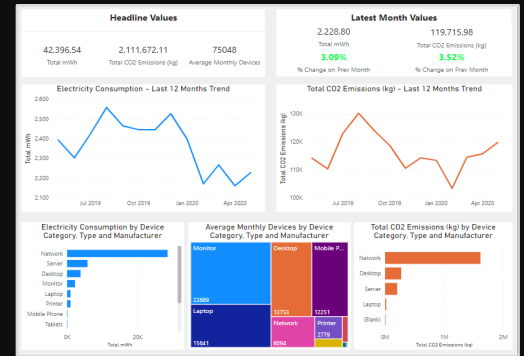
# Digital has the potential to reduce global emissions

## x9

Digital technologies represent the opportunity to reduce global carbon emissions by 9-15% through solutions in energy, manufacturing, agriculture and land use, buildings, services, transportation and traffic management

Atos

# Some client examples

| Center of **Excellence** | >150<br>Net Zero &<br>Climate experts | Digital and<br>Business Advisory | 1%<br>incremental growth<br>ambition by 2025 |
|---|---|---|---|

Enhancing soldier autonomy with energy efficient applications

Increasing employee engagement in sustainability

Reducing carbon footprint of services

Reducing fuel consumption

Measuring real-time power consumption of IT estate

Determining the carbon impact of IT projects for MOJ

Increasing energy efficiency with smart meters

Optimizing energy efficiency & leakage detection

Atos

# Thank you!

For more information please contact:
Greg Miles
T+ 44 733 310315
greg.miles@atos.net

**AtoS**