

### The greatest threat is climate change



### We know about the impact ...

Every day, we are seeing the concrete effects of climate change

▶ A growing environmental movement has taken to the streets, demanding that politicians and organizations act now to reduce CO<sub>2</sub> emissions

Digital represents 10% of the world's electricity

 Digital technologies are responsible for 4% of global greenhouse gas emissions

Companies must take their responsibilities towards the impact of digital solutions and infrastructure



1) including video streaming

## Atos environmental program external ratings





### Sustainable in the digital era

why and what?



**Context** In today's landscape of emerging global trends, clients and stakeholders explicitly demand that digital businesses they engage with are operating actions to tackle climate change. Reducing CO2 emissions is playing a central role in delivering their digital agenda.

**Strength** Atos understands the importance of energy consumption in digital services and knows what it means to sustainably transform operations. We've been there, seen the bigger low-carbon picture, and can enhance sustainability practices of digital organizations.

**Offer** We will apply our approach to get insights into your digital decarbonization ambition and the to-be state to pursue. Applying tools, the maturity level of the related practice is assessed. The output is used to develop a roadmap how to move from the current maturity level to the desired digital decarbonization maturity state.

## Main steps towards digital decarbonization

#### Awareness

Becoming aware that decarbonization plays into client's strategies with a risk-based view

**Ambition Workshop** 

#### Measure

Evaluate digital related categories and apply tooling to measure their CO2 emission

Questionnaire and carbon calculator

#### **Actionize**

Define maturity level, benchmark it and start implementing controls to the reduce CO2

Roadmap



### **Digital Decarbonization Assessment**

main components



#### **Ambition Workshop**

#### objectives and process

#### **Objectives**

- ✓ Understanding your current views of the Digital Decarbonization practice in use.
- ✓ Gaining insight into your ambition and corresponding maturity level that fits best into the IT-side of your CSR strategy.
- ✓ Identifying possible, short-term actions to help achieving your ambition.

#### **Preparation**

All workshop participants will be asked to complete the **self-assessment**, consisting of 27 questions: 2 generic and 25 specific ones.

# Recommended workshop participants

- CIO
- Head of CSR
- IT Sustainability Manager
- Head of Infrastructure & Network
- Head of Workplace Services
- Head of IT Procurement

#### **Outcome**

#### A report consisting of:

- Analysis of self-assessment
- Reflection and wrap-up on the discussion around your digital decarbonization ambition
- Wrap-up of identified short-term actions

**AtoS** 

### **Assessment Questionnaire**



**Structure** over 120 questions with 6 levels of maturity (0-5), distributed over 9 categories

**Categories** Data, Services Staff, Software & IT Solutions, Hardware, Infra/Network, Data Center, Company, Supply Chain, Usage Management

#### **Sources**

- Task force on climate-related financial disclosure (TCFD) implementation guide 2019
- UK HM greening government ICT strategycombined assessment model 2015
- Best practice guidelines for the EU Code of Conduct on data center energy efficiency 2020
- ➤ COBIT 2019 framework
- Best practices and CSR (related) articles

#### **Answers Validation**



#### **Questionnaire answers**

- ► Inspection
- ▶ Inquiries
- ▶ Observation

Study documentation received

**Interview** and keep interaction with the interviewees

Review and monitor controls in use

### **Maturity Evaluation**



- **5** → **Optimizing** The enterprise is focused on continuous improvement
- **4** → **Quantitative** The enterprise is data driven, with quantitative performance improvement
- **3** → **Defined** Enterprise wide standards provide guidance across the enterprise
- **2** → **Managed** Planning and performance measurement take place, although not yet in a standardized way
- 1 → Initial Work is completed, but the full goal and intent of the focus areas are not yet achieved
- O → Incomplete Work may or may not be completed towards achieving the purpose of objectives in the focus areas

# **Maturity Evaluation**

way of working

tegory	Weighting	
ta	15%	Level 0: CO <sub>2</sub> Unawar
rvices Staff	5%	Level 1: CO <sub>2</sub> Aware
Software & IT Solutions	15%	Level 1. Co <sub>2</sub> Aware
lardware	15%	Level 2: CO <sub>2</sub> Adminis
nfra/Network	10%	Level 3: CO <sub>2</sub> Insight
ata Center	15%	Level 4: CO <sub>2</sub> Impactf
Company	10%	Level 4: CO <sub>2</sub> Impacti
Supply Chain	10%	Level 5: CO <sub>2</sub> Reduces
Usage Management	5%	

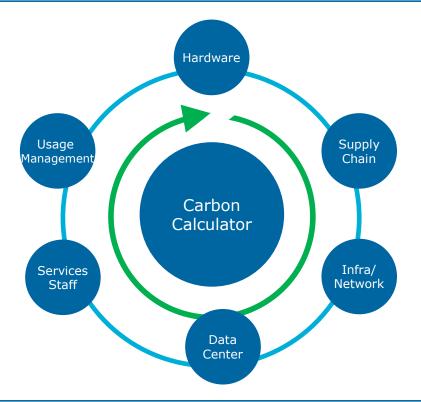
## **Maturity Evaluation**

titles



#### **Emission calculation**

manufacturing and consumption



#### **Hardware**

- Servers
- Disks
- PCs
- Keyboards
- Mice
- Monitors
- Mobile phones
- Printers

#### **Supply Chain**

- Cloud
- **Printing Services**
- Mobile Device Management

#### Infra/Network

- Routers
- Switches
- Firewalls
- Storage
- Load Balancers
- Cables
- **Network Security** Devices

#### **Data Center**

- Facility
  - Power/Cooling
  - Disaster Recovery
  - Server Racks
- Hosting
  - Servers

#### Networks Services Staff

- Buildings
- Professional Travel

#### **Usage Management**

- Employee Footprint
- Development / Testing Environments

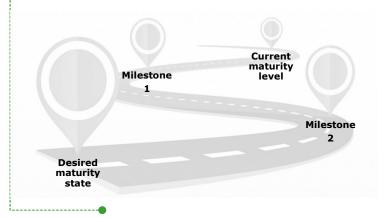


## **Roadmap Maturity Improvement**



The **roadmap** illustrates what needs to be done to get from the current maturity level to the desired maturity state

It is a **structured report** that gradually presents actions and defines how to measure their progress, using the nine categories



## **Consolidated Report**



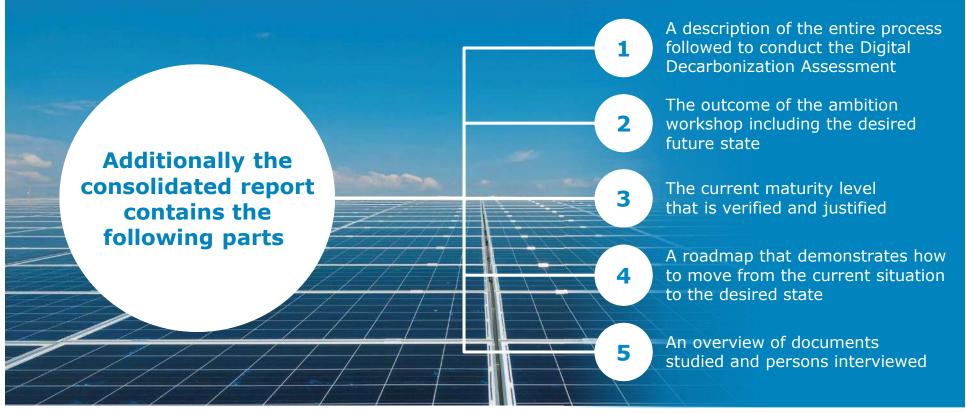
The outcomes of every activity of the **Digital Decarbonization Assessment** are documented in one single report.

Where possible, illustrations are included to increase the readability of this deliverable.



### **Consolidated report**

more details



### **Pricing and duration**

per deliverable and in total



## **Decarbonization for Digital Cloud Platforms**

#### Key features of Cloud Decarbonization with Microsoft Azure





Assist with creating **trusted cloud strategies** that achieve end to end CO2e reduction – across all environmental factors and GHG Protocol scopes



Complete visibility and control of emissions data throughout the entire cloud lifecycle



Embark on **complex cloud transformations** and reach business goals whilst meeting sustainability ambitions



# Thank you

For more information please contact:

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