

Capgemini has engaged a sustainable IT transformation to drastically reduce the environmental impact of its digital activities and services.

Starting date of the project	November 2020		
Project Localisation Places of implementation of the project at this stage and targeted geography if replicable.	France		
Project objectives Type of climate innovation of the project with a description of the problem/issue addressed	The project answers to a dual objective: 1.Conducting a complete inventory and measuring the environmental footprint of Capgemini France IT capabilities 2.Deploying reduction levers until 2022		
Detailed project description	Capgemini started its sustainable digital transformation involving all French based entities by driving change in IT usage and operating models, and by onboarding all employees. Between November 2020 and March 2021, Capgemini realized: A qualitative maturity assessment on the 4 pillars of the sustainable IT methodology developed inhouse A quantitative audit of CO2e emissions generated by the layers of its IT, resulting in the confirmation of its main sources: I IT hardware, essentially laptops and screens Data centres, due to their energy consumption Data transmission The definition of its strategy and associated roadmap to reduce total emissions generated by its IT layers by 24% (hardware, data centres, network) before 2024, focusing on its main hotspots. The roadmap is based on 17 levers shared between CSR, IT department, Procurements, HR, and Business entities. The initialization of the reduction roadmap		
Main project's drivers for reducing the greenhouse gas emissions	Reduction levers □ Energy and resource efficiency (including behaviour) □ Energy Decarbonisation □ Energy efficiency improvements □ Improving efficiency in non-energy resources □ Emissions absorption: creation of carbon	Details on the aspects of the project Optimizing IT equipment's life cycle, from purchase to end-of-life Reducing number of applications Optimizing standard parameters for data exchange and storage Raising awareness among employees Training employees Adapting telephony offers for employees Integrating suppliers into the sustainable IT transformation Using less energy consuming applications Selecting IT suppliers (Cloud, Datacentres, equipment) according to environmental criteria	
	sinks, negative emissions (BECCS, CCU/S,) □ Financing low-carbon producers or disinvestment from carbon assets □ Reduction of other greenhouse gases emission		

Emission scope(s) on which the				
project has a significant impact		Aspects of the project		
and quantification of GHG emission reductions per emission		contributing to the rec		
scope		of emissions by emiss category	ion category	
		catogory	Please follow the	
			quantification methodology	
	Poduction of the company's ca	rhon donondonov	used in the Afep quidelines.	
	Reduction of the company's carbon dependency Scope 1			
	Direct emissions generated by			
	the company's activity.			
	Scope 2	Reduction of energy	50 tCO2 avoided per year	
	Indirect emissions associated	consumption		
	with the company's electricity and heat consumption.			
	Scope 3	IT equipment all along t	heir life 1 150 tCO2 avoided per year	
	Emissions induced (upstream	cycle	1 100 to 2 avoided per year	
	or downstream) by the	.,		
	company's activities, products			
	and/or services in its value			
	chain.			
	Increase of carbon sinks Emissions Absorption			
	Carbon sinks creation.			
	(BECCS, CCU/S,)			
	GHG emissions avoided by the	company at third partie	es	
	Avoided Emissions			
	Emissions avoided by the			
	activities, products and/or			
	services in charge of the project, or by the financing of			
	emission reduction projects.			
	Clarification on the calculation of	r other remarks:		
	Calculation of the emissio			
			cle Analysis (LCA) and based on Capgemini ttors: PUE, storage technologies (SSD / HDD)	`
	renewal rate of hosts).	ineters (example of indica	liois. FOL, storage technologies (33D / 11DD)	,,
	renewariate er necte).			
	2. Identification of major sou	rces of emissions		
			otops, screens, printers, phones, accessories.	
			ons, storing and processing data	
	Energy consumed for data to	ransmission		
	3. Identification and prioritize	ation of reduction levers		
	Examples below:			
	Hypothesis	-	Farget differential by 2024	
	Decreasing number of equ		8%	
	Extending computers' lifeti		+33%	
	Increasing computers' reco	onditioning rate -	+5%	
	4. Calculation of the total expe	acted GHG reduction (-2	4%) and spreading reduction over time	
	4. Galoulation of the total expe	colou dira reduction (2	470) und Spreading reduction over time	
Modality of verification of the	Calculation standard used (ADE	ME base, GHG protocol,	etc.): EcoInvent	
quantification.				
Other environmental and social	Verification of the calculation (in		essment performed with Quantis	
benefits of the project	The project contributes to the follow	wing SDG. consumption and produ	etion by:	
beliefits of the project			opment and consumption modes, in link with	the
	CSR strategy			
		iers in the sustainable IT j	ourney	
Decis of markets in				
Project maturity level	☐ Prototype laboratory test (TRL 7)		
	☐ Real life testing (TRL 7-8)			
	☐ Pre-commercial prototype (TRL	9)		
	☐ Small-scale implementation			
		ntation		
	Remarks: Perimeter: French BU			

Capacity and conditions of the project reproducibility, with associated climate impact mitigation potential	The opportunity of scaling the initiative at Capgemini Group level is currently under investigation. The approach would be to replicate the designed methodology to all other IT departments and consolidate levers deployment at international level.
Amount of investment made (in €)	250 k€ for the initial phase: assessment and roadmap definition
Economic profitability of the project (ROI)	□ ST (0-3 years) □ MT (4-10 years) □ LT (> 10 years) Remarks: Assessment and roadmap: 4 months / Deployment: 2 years
Engaged partnerships	Quantis on the quantitative audit
Open comments from the project owner	
More about the project	
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Project URL links	https://www.capgemini.com/fr-fr/service/numerique-ecoresponsable-pour-les-dsi/
Illustrations of the project	