

The Sustainable Hospital

When sustainability becomes a success factor:
Realizing sustainability from a clinical, operational, and
business perspective.



Atos

Foreword

Every hospital today faces significant challenges: to meet increasing and complex healthcare needs whilst achieving fiscal objectives. And now there is another urgent objective: the fight against climate change.

The healthcare sector faces particular complications. Unlike other industries, where products and services can be substituted with lower-carbon alternatives, in healthcare such adjustments are not always possible. Yet significant reductions in carbon emissions are essential to meet government targets and ambitions for a net-zero future.

The challenge for hospitals is how to decarbonize while also delivering on key priorities including improvements to care, patient experience and efficiency. This is where digital technologies can make a major contribution to accelerate decarbonization.

Informed by our own world-leading decarbonization journey, Atos is enabling organizations to digitalize, transform and transition to net-zero. We can help you to integrate your digital and decarbonization strategies to meet your critical care priorities and financial objectives.

Sustainability challenges and opportunities for healthcare organizations

Digital technologies and data can make a major contribution to reducing carbon emissions while enabling high-quality, efficient, connected patient-centric care.

In healthcare, digital transformation is happening at pace, further accelerated during the pandemic. Digital strategies that may have taken years have been delivered in months, with the need to deliver more care remotely and expand to ever-increasing demand.

Digital technologies lie at the heart of hospitals' strategies to meet the complex challenges of delivering high-quality care while meeting fiscal objectives. They are also essential for decarbonization and more sustainable operations. In fact, while digital technologies account for around 1.4% of global carbon emissions, they can reduce global emissions by around 15% by 2030.

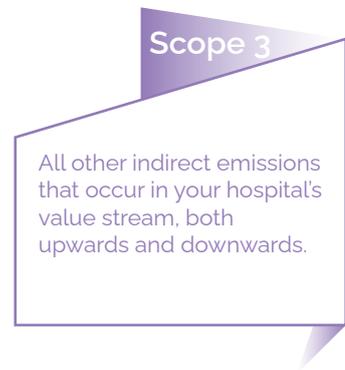


15%

of the carbon emissions of
a hospital can be reduced
using digital tools

Reducing your hospital's carbon footprint

For any hospital, the carbon footprint is made up of the energy you purchase and consume, the logistics you use, your buildings and facilities, your hardware and IT infrastructure, the services you deliver and the activities of your supply chain. These emissions are broken down into 3 different scopes (WHO - World Health Organization):

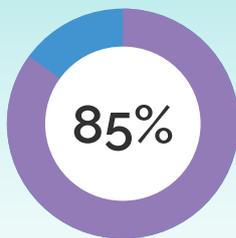


Some of the biggest challenges in sustainability for hospitals have been heightened during Covid-19. Waste volumes have increased with use of single-use products to combat the spread of the virus.

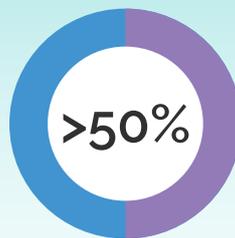
Energy consumption continues to be a major expense, accounting for over 50% of emissions across the healthcare value chain. With the supply chain making up 71% of all emissions, complexities are involved in reducing emissions that are not under your organization's direct control. For hospitals, there are now key opportunities to address these challenges and meet sustainability and cost targets by:

4.4%

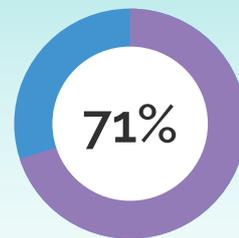
of net global emissions are caused by the healthcare industry...
This is equivalent to the emissions of Germany, France and Italy...
combined



of waste in the healthcare industry is non-hazardous



of energy consumption accounts for more than half of healthcare emissions*



of the supply chain accounts for 71% of the healthcare carbon footprint*

* includes energy consumed in the logistics process

- **Decarbonizing your IT:**

Consolidating and increasing the efficiency of IT operations: consolidation and modernization of, for example, data centers, using more efficient and specialized hardware, moving from hardware to software and 'cloud' / virtualization, moving to renewable energy sources for IT operations.

- **Decarbonizing your operations:**

Using digital tools such as automation, digital twins, the Internet of Things (IoT), artificial intelligence (AI) and machine learning (ML) to reduce waste and accelerate the decarbonization of hospital and supply chain operations. These can range from remote care to reduce travel, to digital twins to influence sustainable product design. You could develop a "Green app" to engage staff and raise awareness about different types of waste; smart buildings and energy assessments can offer fast returns on investment and reduce your carbon footprint over short periods.

More sustainable procurement and supplier contracts will reduce carbon emissions along your value chain.

Shaping and delivering your Sustainability vision

Bringing our decades of experience working with healthcare organizations and our leadership in decarbonization, Atos can work with you to shape, implement, and measure your Sustainability vision as part of your hospital's wider vision and objectives. We'll help you to decarbonize your IT, your wider operations and your value chain.

Vision

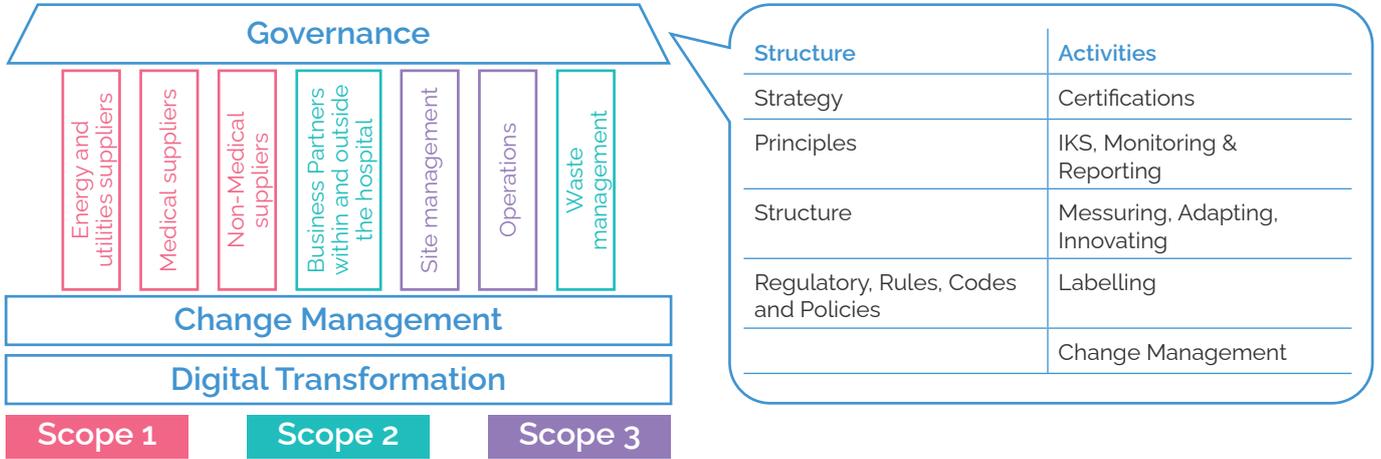
We help hospitals define an ambitious, realistic, and meaningful sustainability vision. We base this on input from the hospital's key stakeholders, but also on external reports and benchmarks. One of the results of this exercise is clarity on the type of capabilities that the hospital needs to generate. Perhaps the main characteristic of this vision is that it is scalable, so that specific workstreams and activities can be easily derived from it.

For example, one healthcare organization recognized that as healthcare transforms to a more digital way of working, scaling digital technologies sustainably is vital. Atos was engaged to conduct a Digital Decarbonization Assessment to produce a breakdown of the organization's digital emissions and, most importantly, a roadmap on where emission reductions can be made, including over 50 recommendations that will accelerate the organization's journey to net-zero.



Governance

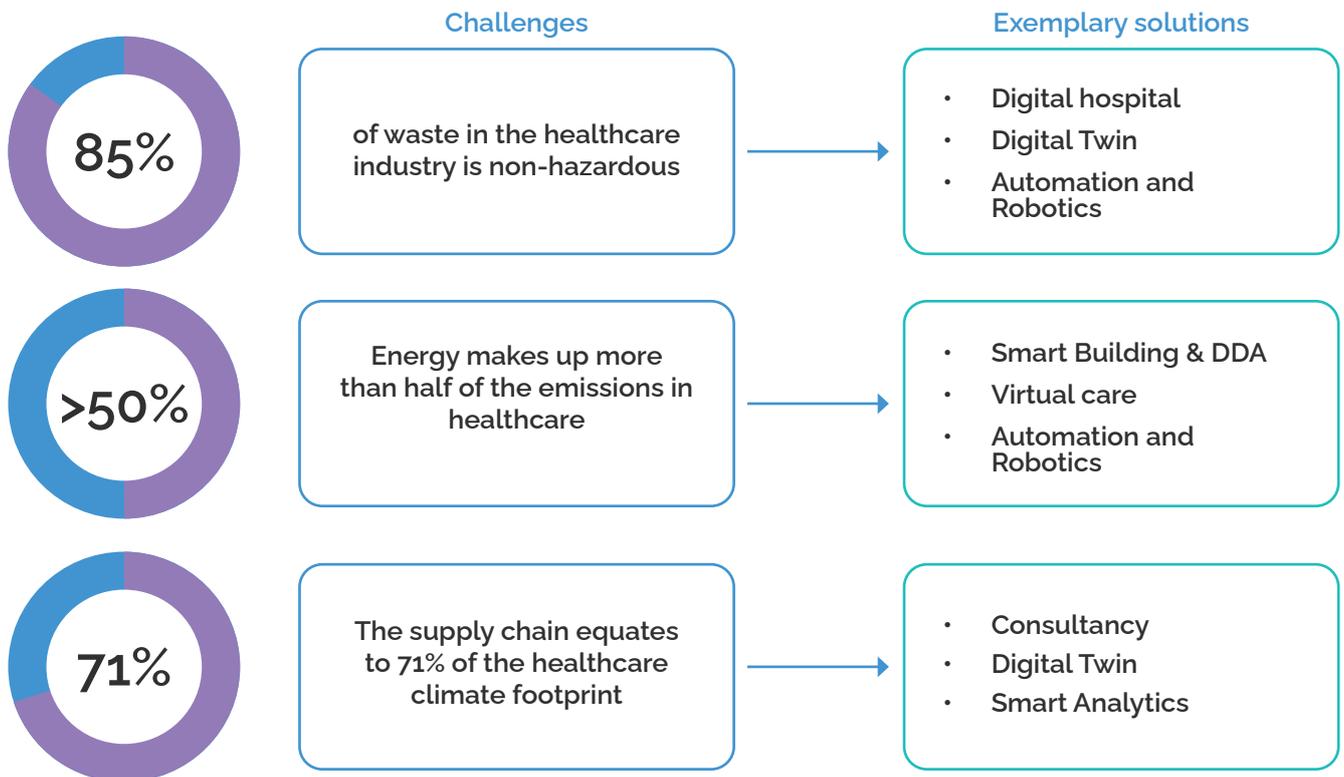
Whether you are starting from scratch, or already have an established Sustainability team or program, we can help ensure you have the appropriate governance structure (this can also be a virtual structure). The main functions we provide for such a structure are to define specific objectives for the different areas of the hospital, compliance as well as the measurement methods and criteria, certification and labeling of your own processes but also those of your suppliers, planning and roll-out of initiatives, communication and change management.



Operations

This is where we aim to take advantage of all the benefits and opportunities of digital technology to determine the 'critical paths', whether on the patient journey, the clinical journey or the non-medical journey. It is on these that we generate a use case and recommend an appropriate digital lever to move from a 'critical path' to a 'sustainable' one. The advantage of this method is that in most cases these digital levers also have a positive business case in terms of operating expenses (OpEx) or generation of new revenue streams. We will take the following steps:

1. We map the different journeys specific to your hospital.
2. We define focus areas for a detailed assessment (we use feedback from internal stakeholders, but also Atos best practices). We look for elements within the journeys that can be enhanced with the support of digital technology, for example, for:
 - Journeys segments with redundancies.
 - Repetitive sequences.
 - Activities not linked to a physical space.
 - Activities where human interaction is not essential.
 - Activities that can be extrapolated to digital platforms.
 - Infrastructure.
3. We carry out an assessment in which we establish a measurement of the impact on sustainability, but also of the business impact.
4. We establish what would be the type of solution/use case and what are the capabilities needed to implement and operate this use case structured in the form of a digital project for which a business case is defined and committed.
5. For the implementation a team is defined and for the operation it becomes part of the scope of the governance organization.



Transformation Management

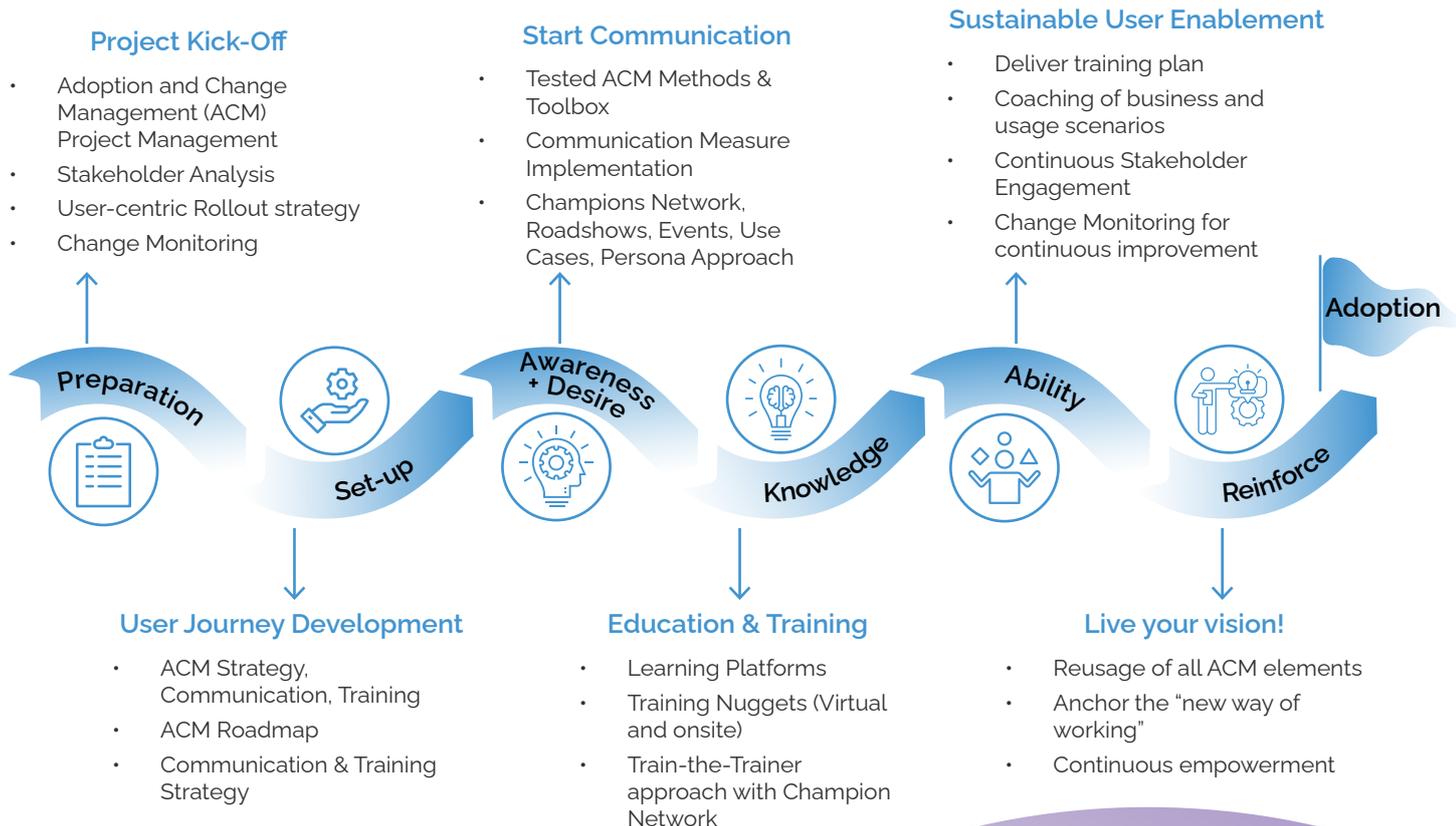
We divide this element into two stages:

Implementation

Ensuring a smooth roll-out and business continuity of the hospital at all times, we perform a digital enablement of your organization to support the new way of working and we will also provide you with the necessary tools for you to enable patients and partners.

Change management

Based on the different types of profiles within your organization we create a program to prepare the organization and the employee (digital enablement, up-skilling). We establish constant communication channels so that there is clarity of objectives and performance both overall and for each unit (if desired).



Benefits you'll see

At the end of this exercise, you will have a clear sustainability vision, fully integrated with that of the entire hospital and contributing to the hospital's objectives. Your hospital will have a catalogue of activities, a prioritized roadmap, and the potential impact in terms of both sustainability and business. And in terms of transformation, your hospital will have clear proposals for the roll-out of possible digital levers and strategies to help staff embrace change.

Work with a global leader in decarbonization

Atos not only believes in decarbonization, we are a world leader in practicing it. Atos is widely credited with the highest standards for our pioneering efforts in sustainability; our environmental program and climate leadership have been recognized year after year by international organizations such as the CDP and the Dow Jones Sustainability Index.

Atos has been carbon neutral since 2018 and we have committed to reducing the global carbon emissions under our control and influence by 50% by 2025, as well as offsetting all our residual emissions by 2028. Our target to achieve net-zero by 2028 is seven years ahead of the 2035 target we previously set ourselves, and 22 years ahead of the Paris Agreement's 2050 target. This acceleration reflects the success Atos has already had – reducing our global carbon emissions by 15% in 2020 alone.

Atos' Net-zero transformation practice brings expertise from across the globe to help you realize your own sustainability goals. From our climate consultancy practice, EcoAct, to our decarbonized digital solution portfolio and our open and diverse ecosystem of partners, we can support you each step of the way.



Our environmental journey

Our environmental journey program began in 2008 and we became one of the first digital companies to offset the carbon emissions of our datacenters in 2014. Our program has significantly reduced our carbon footprint, meeting the most demanding scientific objectives of the Science-Based Target initiative (SBTi) to keep global warming at 1.5 °C.



2008

Atos launches its **Environmental Program** and focuses on climate emergency



2014

All Atos' main sites must enter the **ISO 14001** certification process and get certified



2015

Climate change **commitments** are made by Atos as part of the Paris Agreement¹



2016

Atos' CO2 reduction targets are now part of the Group's 3-year **Strategic Plans**



2017

The **SBT initiative** validates Atos' carbon intensity target for 2050 (-86% versus 2012)



2018

Atos' absolute CO2e emissions are reduced by **-50%** between 2012 and 2018



2019

Atos offset **100%** of its carbon operational perimeter **50/50 carbon capture** and wind-farms projects



2020

Atos commits to the **1.5°C SBT by 2025** and to reach **Net Zero emissions by 2035**



2021

Atos commits to Net Zero emissions as early as 2028 (i.e. 22 years ahead of the Paris COP 21 Agreement)

¹Paris Agreement: the 2015 United Nations Climate Change Conference, when the agreement to set of limiting global warming to "well below 2°C" compared to pre-industrial levels was signed.

Next steps

The first step of this journey would be a non-binding conversation (normally 90 minutes) with you to understand your needs, challenges, and goals. With this information, and based on your directions, we can propose some tailored approaches and potential next steps.



Orthopedics
&
Sports Center

About Atos

Atos is a global leader in digital transformation with 109,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), listed on Euronext Paris and included in the CAC 40 ESG and Next 20 Paris Stock indexes.

The [purpose of Atos](#) is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

Find out more about us

atos.net

atos.net/en/industries/healthcare-life-sciences/decarbonization

Let's start a discussion together



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