

# Transforming applications and infrastructures for digital business

With Atos and Red Hat



Trusted partner for your Digital Journey

**Atos**



**Red Hat**





On the journey to the cloud, no path is the same. While some organizations are dealing with the realities of legacy infrastructure, others are already well on their way to a hybrid or multi-cloud environment.

Atos understands that every company's cloud journey looks different and has created a unique response to help enterprises shape their own cloud-forward future – Atos OneCloud.



Atos OneCloud is a strategic initiative that blends cloud advisory consulting, application-transformation expertise, prebuilt cloud accelerators, and innovative talents in an end-to-end set of services to help organizations navigate their cloud journey securely.

Atos OneCloud modernizes enterprise applications to be agile, mobile, and rooted in analytics, across public, private, and hybrid cloud environments. It guides organizations on their journey to becoming customer-centric, future ready, and cloud forward, reaping benefits from modern application services.

The initiative consists of a unique set of 10 offerings in a powerful one-stop shop:

1. **industry-specific consultancy** services to develop cloud business solutions at scale
2. **multi-cloud orchestration across private and public**, and across all major public cloud providers, to maximize application migration and portability, lower operational costs, and ensure cloud interoperability
3. highly standardized and **automated management framework** and architecture
4. **next-generation private and sovereign cloud platform**, ready to be deployed and managed in any data center, to ease the migration to the cloud while ensuring compliance requirements are met around data sovereignty and security
5. **cloud application development and modernization/re-platforming**, including strong DevSecOps, allowing customers to accelerate business-critical applications' time to market
6. **cloud Artificial Intelligence (AI) and Machine Learning (ML)** to enhance business processes, create new solutions, and monetize enterprise data
7. **world-leading bare metal solutions** to support non-virtualized business critical applications adjacent to the cloud, to increase the breadth of consumable cloud services
8. **world-class cloud edge and far edge solutions** (local/field servers) combined with new 5G connectivity solutions, ensuring secure local processing and optimized bandwidth consumption
9. **cybersecurity supervision services**, with the ability to operate and respond to cloud native security controls and anticipate threats in a prescriptive vs predictive mode
10. **decarbonization offerings** guaranteeing year-on-year carbon footprint reduction of cloud infrastructure, data, and applications

## Delivered in partnership

Atos OneCloud is delivered by Atos in close collaboration with an eco-system of world-class partners, including Red Hat.

Atos is a Red Hat Premier Partner with 2,000+ skilled employees and over 1,100 active certifications and accreditations in Red Hat technologies. Together we:

### Provide the choice to change and avoid vendor lock-in.

Utilizing the core open source technology of OpenShift provides the freedom to move across different technologies. It's why 95% of digital leaders see open source as strategically important.

### De-risk delivery and increase business efficiencies.

Atos oversees the solution and migration based on proven methods, tools, and experience. Red Hat guarantees long-term support for the technology.

### Build an environment that allows our customers to be the first to innovate.

Red Hat brings together the best of open-source technology, providing access to software that allows freedom of innovation. Our partnership includes joint investment to accelerate roadmap capabilities, giving our customers earlier access to innovations.

"Together, Red Hat and Atos aim to accelerate the adoption of DevOps and agile application development, and help transform operational capabilities to modernize applications on container technologies, deliver new microservices and accelerate development processes."

**Arun Oberoi**

Executive Vice President, Global Sales and Services, Red Hat

# Delivering Industry-specific solutions

Atos and Red Hat design, build and execute cloud solutions to meet the specific needs of key industry sectors:

Manufacturing

Financial  
Services and  
Insurance

Public Sector

Telecoms,  
Media, and  
Technology

Healthcare and  
Life Sciences

Resources  
and Services

(Energy, Utilities, Transport, Retail,  
Logistics and Hospitality)

Technology blueprints  
underpinning the  
Industries' business  
KPIs

## SAP modernization

A scalable and automated solution to enable SAP customers to easily build and deploy SAP customizations as microservices on OpenShift, as part of the modernization of custom code in SAP S/4HANA

## Application modernization

Self-service and guided end-to-end developer journey to build, deploy, and run cloud native apps via standardized DevSecOps pipelines

## Telco Cloud

Migrating Telco customers through virtualization and into containers and the hybrid cloud

## Multi-cloud

A consistent container development platform to support the transformation of applications and to develop new applications in a microservices architecture across private cloud and multiple hyperscalers

## Atos Managed OpenShift

A standard 24x7x365 dedicated managed service on public and private cloud and bare metal

## Edge to cloud

Managing containerized applications close to the data



# Some examples

## Atos Managed OpenShift



Atos Managed OpenShift (AMOS) is an open platform-as-a-service (PaaS) for private and public clouds, including Google, AWS, Azure, and IBM Cloud, and now also running on bare metal. It is a key component of the **Atos OneCloud** initiative.

It enables continuous innovation with no vendor lock-in, allowing DevOps teams to build, test, and release new applications and updates more efficiently, increasing time to market by 3x and developer productivity by 300%.

The AMOS core technology is based on OpenShift, a proven technology that has advanced capabilities beyond those of the hyperscalers. Applications can be redeployed on any hardware platform or moved from cloud to edge with confidence and security. AMOS includes 24x7 globally available support services delivered by Atos.

## Atos Telco Cloud

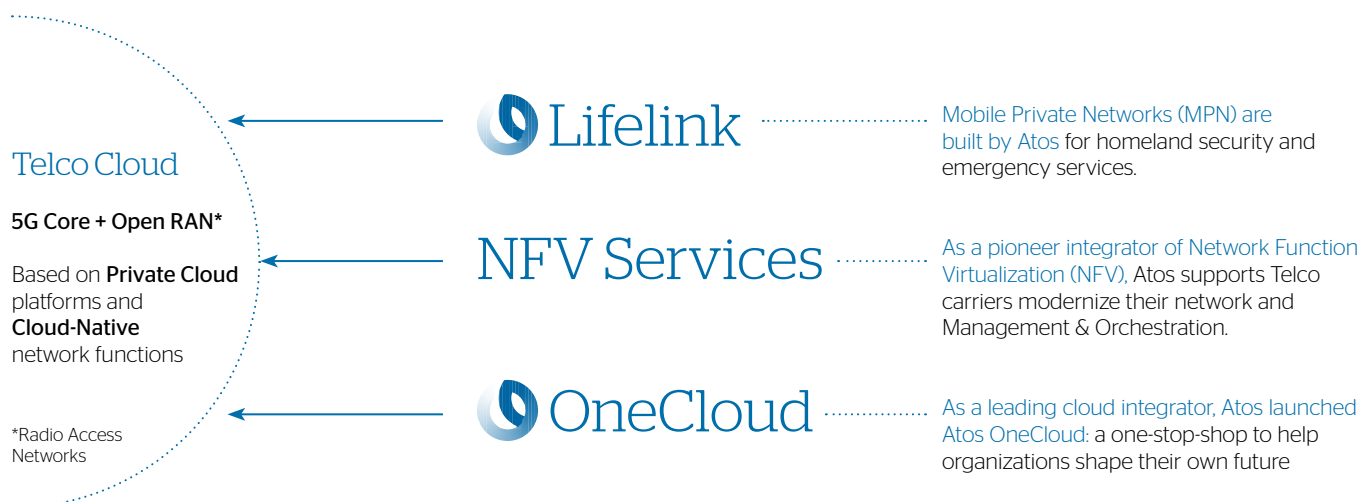
Today's cloud technology not only facilitates networked digital transformation with new communication technologies like 5G mobile networking, it is also an enabler of these communication technologies themselves. 5G would not be possible without the "Telco Cloud".

State-of-the-art telecom systems are based on Cloud-native Network Functions (CNFs): software which runs on Kubernetes platforms. Long gone are the appliances in both the network core and the Radio Access

Network (RAN). These are replaced with future technologies like Open RAN which incorporate containerization and micro-service meshes. These new generations of telecom products offer unprecedented automation, scalability, and fault tolerance.

The Atos Telecom Industry teams have been providing telecoms solutions for over 30 years. They are a proven partner to telecom carriers in the deployment of virtualization and containerization platform technologies (Red Hat OpenStack and AMOS, and other Atos

OneCloud principles) for the modernization of telecom networks. Modernization offerings include services around: roll-out of 5G Core, Open RAN and Multi-access Edge Computing (MEC), NFV (Network Function Virtualization) applied to existing networks, and development and implementation of 5G transformation strategies.







# Case studies

1

**A Dutch Social Security Provider deployed Red Hat OpenShift and AMOS within the customer environment in a twin data center, connecting the customers CI/CD tooling and delivering 24x7x365 support including operational and security monitoring.**

We have been managing the customers platform throughout their lifecycle including full automated project creation and user management through self-service options. We have upgraded them from OpenShift 3.9 to 3.11 to 4.2 with zero application downtime leaving the users to focus of projects and applications.

2

**A large European telco operator and tier-2 Communications Service Provider (CSP) introduced Network Function Virtualization infrastructure (NFVi) based on Red Hat OpenStack.**

The organization needed to handle huge mobile data growth with a carrier grade Core 4G and 5G Mobile Data use case based on industry leading Network Appliances. 20+ other Virtual Network Functions (VNFs) for other use cases were also installed on the NFV infrastructure and significant security features were implemented to obtain the government security agency's accreditation. The NFVi capacity was extended by a factor of 12 to match traffic growth while deployment time was reduced by a factor of 4 and significant CapEx and OpEx savings. Through this project, the telecom operator developed the agility required to quickly respond to new market demand.

3

**Smart cities use technology to deliver better services for citizens, ultimately improving their lives.**

However, with so much data now available, aggregation is the biggest challenge. In Bordeaux, Atos monitors and aggregates multiple Internet of Things (IoT) data sources from Intelligent Transport System, buildings, waste management, etc., enabling the local authority to share information in real time with citizens. We use AMOS to run those workloads, free from the constraints of physical hardware, giving Local authorities the flexibility to easily adapt and grow their smart-city services.







# Atos One Cloud plan: A highly collaborative approach

The Atos OneCloud plan is a co-design approach with our customers. It starts with realities of today, generates targeted changes toward future state, and produces an executable roadmap guided by business outcomes.

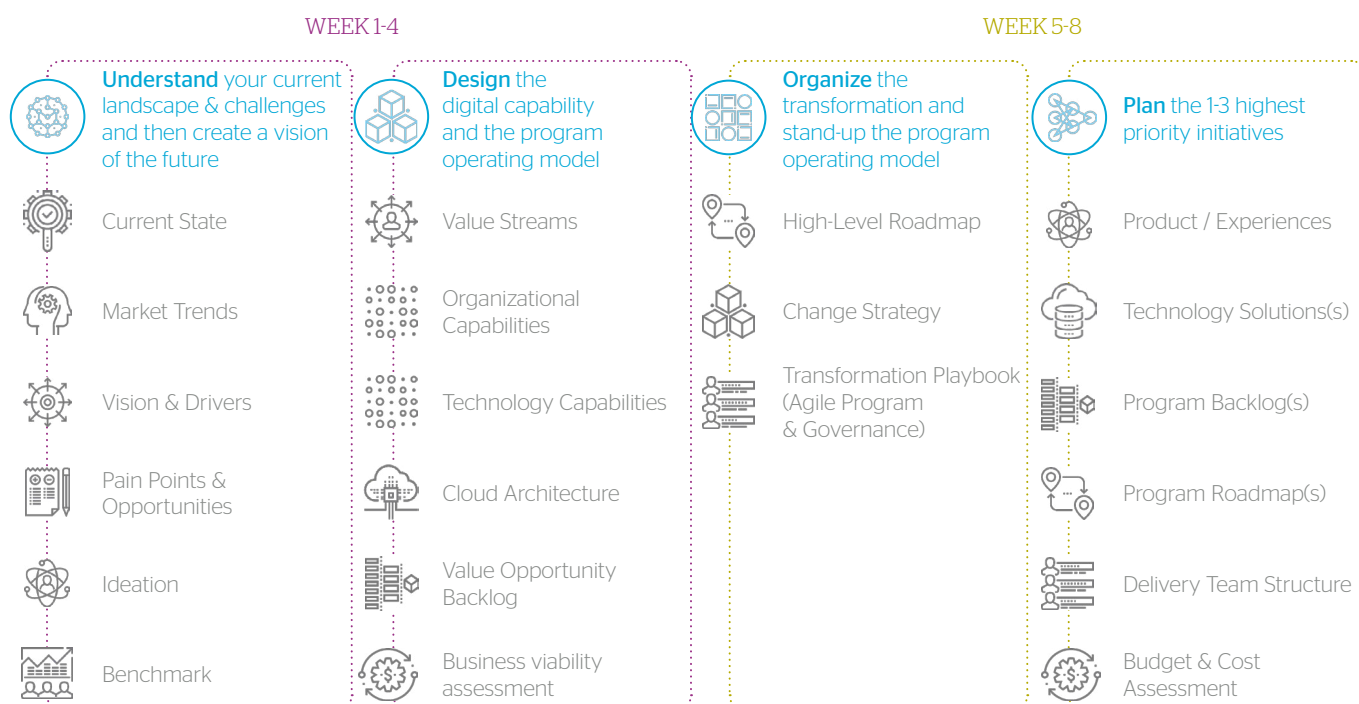
## In just 90 days, the Atos OneCloud Plan delivers:

- a customized cloud business case
- an industry-specific cloud reference architecture
- a roadmap for application, data, and infrastructure modernization
- a set of projects to execute, priority-driven by business value.

## Atos OneCloud delivers business outcomes

The end result of an Atos OneCloud engagement is a digital footprint optimized across on-premises, private cloud, and public cloud platforms, customized to fit the organization's unique business needs, providing:

- speed to market through the use of pre-built technology tools
- increased agility to continuously prioritize high-value change
- an assurance that data and systems are safe
- a reduced carbon footprint.









# About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of over € 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 operates under the brands Atos and Atos|Syntel. Atos is a SE (Societas Europaea), listed on the CAC40 Paris stock index..

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/onecloud](#)**

Let's start a discussion together



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