

Your data, your sovereignty

Accelerating your journey to a trusted cloud



Atos

Foreword

Sovereignty is an increasingly business-critical requirement as regulatory and global technology environments evolve.

Your sovereignty is about guaranteeing where your data is stored, how it is secured, who can access it, and that whoever operates it is accredited to do so.

In today's globalized cloud market, understanding and achieving sovereignty in a seamless and cost-efficient way is an emerging challenge. You need expert analysis of your sovereignty requirements with an integrated and optimized solution that demonstrates regulatory compliance while getting the best out of what cloud has to offer.

We have strong partnerships with leading cloud providers and have made significant investments in developing cloud infrastructure. This allows us to fully support our clients in their cloud journey. With a decade of experience across different industries, we specialize in navigating the complex cloud landscape and maximizing the business benefits of cloud investments.

We're here to help you meet the challenges of managing your data across the edge-to-cloud continuum in line with the highest jurisdictional data governance requirements.

Why sovereignty and why now?

Data is a critical asset and a new source of revenue, taxation, enterprise value and state independence. Protecting it on behalf of citizens and for national security has become increasingly complex.

In the digital age, cloud has become an essential enabler and critical national infrastructure, with hybrid and multi-cloud often the most cost-efficient option for public and private sector organizations.

It is a primary responsibility to ensure that people, data, systems and critical national infrastructure are protected in a fast-changing cyber and geopolitical context. At the same time, you need to balance data security with the drive for digital transformation and the use of data to deliver efficient and effective citizen and customer services.

Regulatory and legal frameworks that protect people, data, assets and infrastructures are evolving in response to the globalized cloud market. The US Cloud Act (enacted in 2018) means that the US Government can legally access data hosted by a US cloud company. National and regional legislation, for example across Europe and China, sets out requirements for local processing, governance and data protection.

Every organization that uses cloud needs a bespoke sovereign cloud solution giving you complete control of your data in compliance with all applicable local regulations.

What makes a sovereign cloud?

Sovereign cloud is a public or private cloud on which data is stored, controlled, managed, processed and accessed to meet local and regional regulations and jurisdiction requirements.

The advantage of a sovereign cloud is that it guarantees where data is stored, how it is secured, who can access it, and that whoever operates it is accredited.

Sovereign clouds are underpinned by four critical pillars:



Territorial and jurisdictional sovereignty

ensures that all data possession is covered and is protected by the ultimate legal authority within a defined territory. This ensures you meet your legal and regulatory obligations around data storage, usage and governance.



Data sovereignty

ensures the protection of data and critical infrastructure across all classified levels. This comprehensive approach includes data traceability throughout its journey, from edge to cloud, alongside robust governance and services for secure data exchange and usage. This means your data can't be modified, deleted, copied, or viewed by any unauthorized parties, including your cloud service provider.



Operational sovereignty

so you can define the operator's exact location, nationality, and clearances. This gives you visibility and control over all operational people, processes and data.



Technology sovereignty

so workloads can be deployed and executed without dependencies on your service provider's cloud platform. This allows you to store and run workloads on any certified infrastructure and migrate workloads without constraints to maximize performance and flexibility.

Sovereignty: private or public cloud?

It might seem that the best way to comply with increasingly strict data sovereignty regulations is to restrict your organization to a private cloud. However, this isn't the only viable solution. A sovereign cloud can be available via a certified public cloud infrastructure, providing a secure subset of the services delivered by public cloud.

Your sovereign cloud provider should protect you against potential policy violation, providing sovereignty expertise so that you don't inadvertently break existing privacy laws.

Sovereign cloud challenges

Devising the right sovereign cloud solution requires expert analysis and nuanced decision-making.

The addition of sovereign cloud as a choice within your cloud environment increases complexity significantly in terms of workload placement and management. Success depends on achieving the right balance between compliance, security, cost, features and the degree of complexity to optimally meet the needs of sensitive workloads.

To manage and segregate your data across the edge-to-cloud continuum, in line with the highest jurisdictional data governance requirements, you need to:

- 1. Analyze and classify your data to identify your data governance and sovereignty requirements**
- 2. Simplify your sovereign cloud landscape, selecting the best technology partner, cloud environment and deployment for your geography and sovereign needs**
- 3. Demonstrate ongoing compliance with regulatory certifications such as SecNumCloud or Cloud Computing Compliance Controls Catalog (C5)**
- 4. Maintain or increase cybersecurity while ensuring confidentiality, integrity and availability of data**

Atos Sovereign Cloud Services will help you meet all these challenges.



Atos Sovereign Cloud: your sovereignty protected

Atos Sovereign Cloud Services provide a methodology with a suite of solutions and operational cloud services for building and protecting your sovereignty.

Together, we will ensure the most efficient, effective, secure and compliant cloud environment that gives you complete data sovereignty wherever needed.

Leveraging the cloud continuum to give you the best cloud

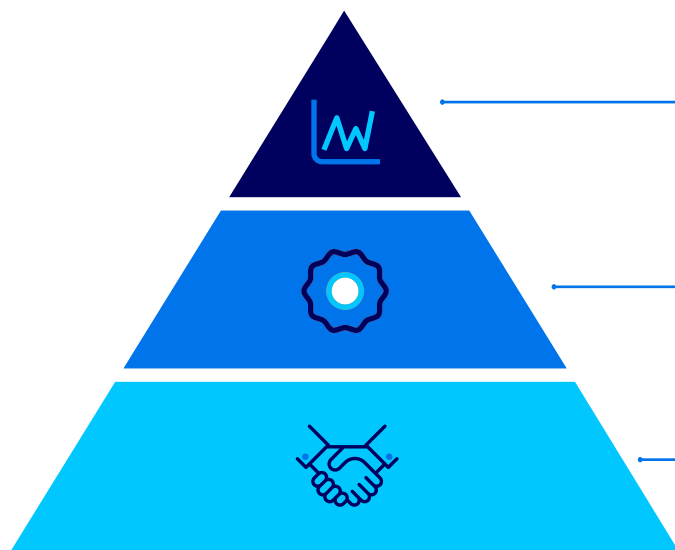
We will help you to classify your data to identify which type of cloud is best for each dataset.

You can select different types of cloud, with gradations of data access and segregation depending on exact need; for example, specifying whether encryption and key/access management are needed and where

You can build your own private on-premises environment to secure your most sensitive data while benefiting from the advanced technology of the hyperscalers in the cloud.

You can choose what data to deploy to the off-premises cloud and what data to keep on-premises or at the edge.

Atos Sovereign Cloud features



Data residency: policies to contain your data and applications within your preferred geographic boundary

Sovereign controls: sovereign landing zones, trusted execution environments, encryption keys owned by you, together with explicit approval to access data to execute service operations

Transparency: the ability to undertake audits to examine your cloud provider's compliance processes and evidence

Accelerating and securing your trusted cloud journey

Working with our trusted partner ecosystem, we can orchestrate and manage end-to-end cloud migration, or manage a cloud journey you have already started.

Pragmatic, risk-based, and right for you

We will take a risk-based approach to assure your sovereignty with a hybrid and multi-cloud strategy.

If your sovereign needs come from a legal obligation and a certification scheme aligns with this, the solution is straightforward: select the certified environment. However, we recommend formalizing the risk coverage promised by the certification.

We'll then help you carry out further risk analysis if needed. We'll involve your internal risk owners who know what threats must be addressed for the data to be migrated to cloud.

Then we'll apply a pragmatic step-by-step methodology to identify the required sovereignty level.

Maximizing your benefits from Sovereign Cloud

With Atos Sovereign Cloud, you'll benefit from:

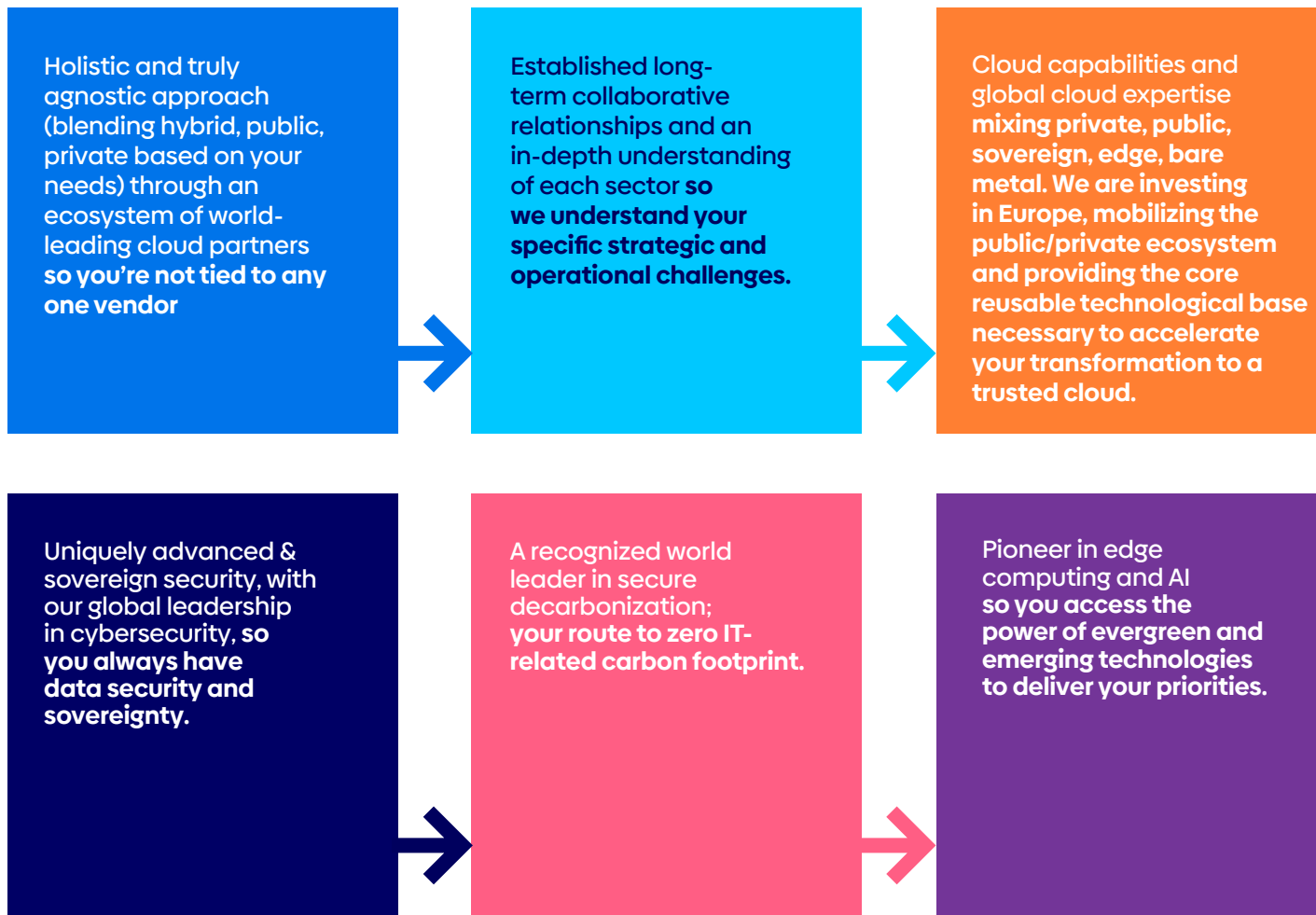
- Data and infrastructure are fully protected, secure and demonstrably compliant
- Simplified and cost-effective sovereign cloud landscape, including enterprise-grade service management, security, governance and compliance across sovereign and non-sovereign clouds
- Power of data and digital transformation unleashed through a rich portfolio of compliant IaaS, PaaS and SaaS services, data platforms and use cases



Atos: your trusted sovereign cloud partner

Six key differentiators combine to position Atos uniquely as your sovereign cloud partner.

By collaborating with your in-house teams, we will ensure the most efficient, secure, and compliant cloud environment allowing you to maintain essential control over your data.





What's next?

Let's take the next step on your sovereign cloud journey.

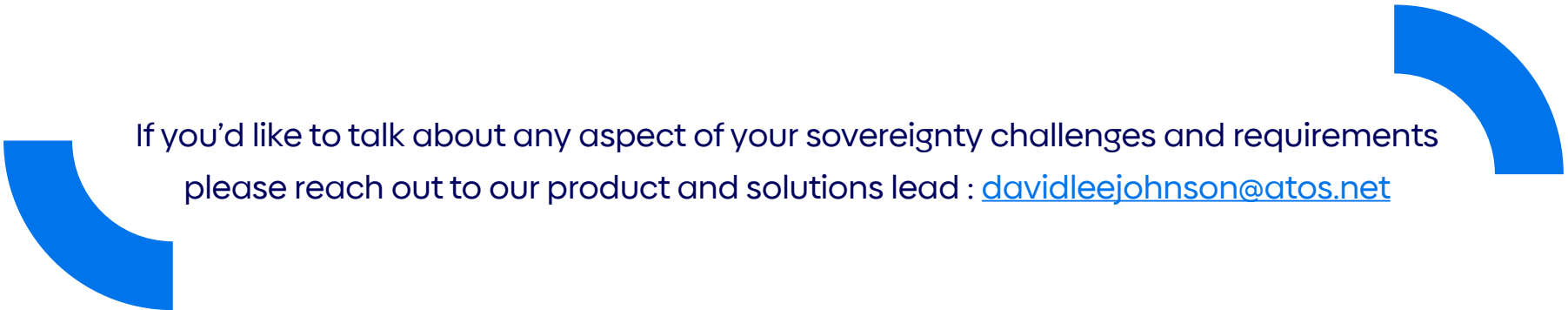
Four key questions to support your sovereignty discussions and decision-making

01 What is my key data?

02 Where should I store my data?

03 How should I control, protect and exchange my data?

04 Where should I process my data (at the edge, in a private cloud, in a public cloud)?



If you'd like to talk about any aspect of your sovereignty challenges and requirements please reach out to our product and solutions lead : davidleejohnson@atos.net

About Atos

Atos is a global leader in digital transformation with 110,000 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 69 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) and listed on Euronext Paris.

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
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Let's start a discussion together



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