



boost

the digital innovation
in cities and territories

Your business technologists. Powering progress

Atos

Local government: fuelling digital innovation

A local authority doesn't have the mandate or the resources to innovate in isolation. But it can play a leading role. It brings together stakeholders and facilitates links between them, as well as helping start-ups by making resources available to them. It helps to consolidate networks. And it provides a vital testing ground for smart cities.

Local government is a key stakeholder in an innovation ecosystem in which it can play a decisive and driving role. An ecosystem where start-ups, accelerators and incubators rub shoulders with research bodies, local businesses, public sector and not-for-profit organizations...

An IT partner can provide technical expertise, human and infrastructure resources, R&D capabilities, project experience, a sales force, stature and credibility - as well as the international elements needed to rapidly transform a promising idea into a

successful and practical widespread implementation - while at the same time respecting each stakeholder as part of a three-way winning partnership: for the start-up, the local authority and the business itself.

Atos has been committed to implementing this philosophy for many years now, and that's what has made it a vital partner for digital innovation on a local level. Atos works closely alongside local authorities to set up, develop and expand digital clusters: to grow projects, create jobs and develop the local economy.



“With Atos, local authorities can fully play their part as a catalyst for digital innovation, to build tomorrow’s smart cities.”



Attractiveness: the goal of the smart city

Smart cities create the conditions for controlled and responsible urban development. They address the key challenges of greater population density, providing innovative solutions to all aspects of urban life: people’s living conditions and civic involvement, environment, transport, education, tourism, sustainable development, services, residents’ peace of mind... Facilitators such as mobile services, the Internet of Things, big data and the cloud support these developments, while at the same time keeping personal data secure.



Open innovation at the heart of future strategies

Digital innovation provides the impetus for smart city projects. By leveraging economic development and employment, modernizing public services and boosting quality of life, dynamism and attractiveness, it is at the heart of future local government strategies. Local authorities can facilitate the emergence of the ecosystems that are essential to innovation, by articulating their operational needs and bringing together those who need to be involved. And Atos can help them to do this.



Atos: the natural partner for smart cities

Atos is involved in a wide range of projects, from the Smart grid that supports the EcoCité initiative in Grenoble (France), the intelligent parking system in Vienna (Austria) and intelligent mobile services with traffic prediction in Berlin (Germany), to intelligent surveillance in Eindhoven (The Netherlands), the ‘MyCity’ mobile digital services in Barcelona and the ‘SmartCity’ project in Rybnik (Poland) that is reinventing citizen participation... All these projects are designed as part of ecosystems that utilise innovative technologies to meet the challenges of the smart city.



Digital education: the dawn of the integration age

Teachers, students and parents alike have high expectations of digital technology. These days it's about providing consistent, well-maintained and secure environments - where it doesn't matter what devices are being used - and integrating all resources, taking a thorough and professional approach.

Atos helps local authorities and the world of education to take into account the new realities of digital, including mobile, and is committed to ensuring that all digital content and hardware is brought together as a coherent, functional and secure whole, to support every aspect of education. To achieve this, we offer services to guarantee day-to-day operational excellence (consultancy, integration, training and operation) as well as to support digital transformation, such as rolling out connected tablets, security or mobile services.

In particular, Atos is a market leader in the integration of open source educational portals - offering complete solutions for every kind of institution, from primary schools to universities - with over two million active accounts and many French regions and departments among the list of satisfied customers.

Smart transport delivers better services to passengers

By allowing real-time data about a vehicle, its passengers and its environment to be collected, processed and used, connected infrastructures open up huge potential for innovation and address pressing concerns such as evolving energy sources, passenger satisfaction and security.

For Atos, the digital revolution is all about open innovation. This in turn encourages a co-operative dialogue between technology and function within ecosystems that involve all the stakeholders and take into account the expectations of citizens and local government alike. Atos is involved in many such ecosystems and has completed numerous projects internationally, including:

- ▶ Connected seat belts for bus transport, based on the Internet of Things and mobile services, in a consortium supported by the Aquitaine region in France;
- ▶ A partnership with VeDeCoM the 'Institute for Energy Transition', focused on developing future low-emissions, autonomous and connected vehicles;
- ▶ The Bull Passenger Information System solution, building on our expertise in embedded systems and already implemented in the French city of Lyon ;
- ▶ Intelligent parking solutions, such as Ecarga (which manages electric vehicle charging stations) and the mobile payment, automated parking infringement processing and centralized timestamp management offerings from our subsidiary Worldline;
- ▶ The development of a real-time predictive road traffic management solution for the city of Berlin in Germany.





Easier access to **culture and heritage**

Mobile services, big data and connected objects are injecting new life into tourist information systems, with innovative applications to enhance and develop tourist, cultural and heritage assets.

Using multilingual captioning technology on connected augmented reality glasses - developed by Atos and start-up firm Theatre in Paris - the Avignon Festival is opening up access to French theatre for foreign audiences. Tested in spring 2015, the project was chosen to be part of the 'Living Lab of the Bridge', the cultural and technology accelerator born out of the 'La French Tech Culture Avignon-Provence' initiative.

The solution was used for the first time under real-life conditions during the flagship shows at the 2015 Festival. The augmented reality glasses got a very positive reception from their first users, including the French Ministers of the Economy and Finance, and of Culture and Communication.

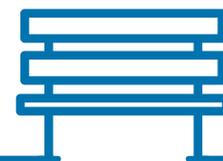
Local government supporting **energy transition**

Improved air quality, better management and development of water resources, wider participation in climate change debates... smart cities are at the heart of energy transition. At a time when the population is increasingly concentrated in urban areas, Atos offers innovative technologies to support local governments' sustainable development strategies.

Many local authorities are looking to manage their energy consumption more effectively, by optimizing every step in the lifecycle of a particular resource: from its production, transmission and distribution to the end user. Data processing is at the heart of this issue, and Atos uses its expertise in big data and real-time systems to implement high value-added projects.

Atos WorldGrid develops smart meter management solutions - including for renewable energy - taking into account specific situations in different countries, such as for ERDF in France. We use our big data expertise to monitor transport and water distribution networks, to diagnose leaks and other issues faster. We also offer the Geolive real-time air and water quality management solution. And the MyCar project saw Atos and Bolloré launch the first all-electric corporate car fleet, equipped with last-generation battery technology.

In Grenoble, as part of one of the flagship projects in the EcoCité program, Atos Worldgrid is building a smart grid for better energy management. Driven by Gaz Electricité de Grenoble - with the co-operation of local utilities producers (water, district heating...) - the project is based on a technical and software infrastructure provided and implemented by Atos Worldgrid, including connected multi-media electronic metering, network sensors, data aggregator, supervision system, displays and 'energy boxes' in the home, real-time data restoration applications...



Citizens at the heart of their hometown

As well as education, public transport and the environment, cities can do many things to make their citizens' lives easier, to involve them in local governance and to facilitate dialogue in everyday life.

Citizen relationship management projects are a growing priority, structuring local government business processes and improving their efficiency. For users, it's all about providing easier access to online services via all channels: mobile, social networks, the Internet... Atos focuses on using the Lutèce open source platform and the 100+ web services it offers to modernize the dialogue with citizens, in association with the 'Connect France' project and the state platform more broadly.

Atos offers the MyCity suite of mobile applications, which have already been chosen by major cities including Barcelona, Birmingham and Edinburgh to improve interactions between citizens and local government. Atos was also involved very early with the integration of 'certified' participatory voting solutions, for example to provide votes in national polls for French citizens living abroad and for internal elections at the Ministry of Education.

Making citizens' lives easier

The need to control the acceleration of urban development is mobilizing towns and cities alike. The smart city can bring new perspectives, whether it's the implementation of connected health and social ecosystems, location-based services, overall security or innovative mobility solutions.

Responding to the risks of pandemics in increasingly urbanised areas requires a rapid, comprehensive and joined-up multi-agency approach, involving many players including public services, health, local government, communication services and citizens themselves. Atos has developed a complete solution – MyCity Epidemic Management – structured around the key, integrated steps and based on Microsoft xRM technologies to track relevant information in real time, and anticipate, predict and inform people.

With CityPulse, Atos takes an innovative approach to using big data for a comprehensive approach to security that also respects people's privacy. Chosen by the city of Eindhoven, the application captures the atmosphere of one of the busiest streets in the Netherlands, live, and reacts quickly when an incident is detected.

Using FixThis, citizens who are out and about are asked to send information about any incident or damage to street furniture they may see directly to the local council, via their smart phones, with geo-location technology ensuring a quick and effective response. The solution has been chosen by major cities including Barcelona.

Atos, the natural smart cities partner

As a leading digital services company, Atos is firmly committed to supporting governments, local authorities and other public bodies in their digital transformations.

Value-added services

Atos focuses on providing consultancy, integration and outsourcing, big data and security, cloud operations and transactional services that deliver value to public sector business and operational activities. We support local authorities through four major types of transformation projects, combining organizational, business and IT skills, and backed up by end-to-end governance:

- ▶ **Operational excellence:** providing IT Departments with the tools and leverage they need to optimise costs and ensure the quality of the IT services they deliver
- ▶ **Customer experience:** to increase the attractiveness of the local area, by implementing innovative digital services and using novel technologies such as the Internet of Things, smart mobility and big data
- ▶ **Reinventing business models:** by promoting the adoption of new practices and optimised business processes, drawing on the expertise of Atos Consulting in 'zero @mail' and bringing together entities of all sizes
- ▶ **Trust and compliance:** by improving security measures to ensure that people's privacy is respected and personal data is protected.

Accelerating digital transformation using open source and open data

Atos - which has a dedicated open source services centre - is responsible for FIWARE, an open source platform, financed by the European Commission, which aims to promote smart urban services. Thirty-one European and Brazilian cities will contribute to improving services in transport, energy efficiency and climatology. Eventually, these systems will be shared between the cities, enabling them to be implemented more widely. FIWARE will also help start-ups involved in the project to access the global market for smart cities services.

Atos and its partners have also launched Datalift, a services platform for organizations that want to aggregate and enhance all the information flows feeding their information systems. With ecosystems becoming increasingly open, organizations have the opportunity to develop their own information assets by cross-fertilising them with those of their partners: content providers, social networks, open data... Inevitably, this means coping with a variety of formats and different types of data. Datalift enables data to be consolidated and enriched, allow for dynamic analysis and the production of new, extremely high added-value data.



About Atos

Atos SE (Societas Europaea) is a leader in digital services with 2014 pro forma annual revenue of circa € 11 billion and 93,000 employees in 72 countries. Serving a global client base, the Group provides Consulting & Systems Integration services, Managed Services & BPO, Cloud operations, Big Data & Cyber-security solutions, as well as transactional services through Worldline, the European leader in the payments and transactional services industry. With its deep technology expertise and industry knowledge, the Group works with clients across different business sectors: Defense, Financial Services, Health, Manufacturing, Media, Utilities, Public sector, Retail, Telecommunications, and Transportation.

Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and is listed on the Euronext Paris market. Atos operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, and Worldline.

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