

National Cloud: Almaviva and Aruba's Green Cloud Factory for the Creation of the PSN

Their proposal to the MITD. Extensive experience with digital innovation in PA and four fully available carbon-neutral data centers. The two Italian companies guarantee total synergy between their skills and assets when it comes to applications, infrastructures, cloud services, and security.

Rome/Bergamo, October 2, 2021 — Almaviva and Aruba's Italian proposal for the National Strategic Pole (NSP), presented to the Ministry for Technological Innovation and Digital Transition (MITD), outlines a project for the implementation and management of the cloud infrastructure, in which to host the data and services of public administration, consistent with the timeframe and resources established by the PNRR and characterized by the highest assurance of reliability, resilience, and independence within the PA's digital transformation plan, aimed at ensuring quality and efficiency in the delivery of digital services to citizens and businesses.

Almaviva and Aruba present themselves together as promoters of a public-private partnership proposal (PPP), outlined in the relevant legislation, which guarantees surveillance, public supervision, and monitoring of the PSN, giving the MITD, or the public entity designated by MITD, the right to acquire a share, even a majority, in the share capital of the special-purpose entity that will be set up by the proponents in the event that they are awarded the contract.

The two entirely Italian owned and operated companies are counting on the *Green Cloud Factory* to be an engine of innovation for the country's economic system and the core of the PSN infrastructure for migration to the cloud environment, one of the strategic courses of action for the digital evolution of the PA, according to the technical and flexibility requirements defined in the National Recovery and Resilience Plan (PNRR) and in the Department for Digital Transformation's guidelines.

The partnership between Aruba, the largest Italian Cloud Provider, and Almaviva, a leading digital innovation group which today manages thousands of systems within the cloud (including *mission critical* systems), guarantees total synergy between their skills and assets when it comes to applications, infrastructures, and security, with a nearly unparalleled wealth of knowledge and experience with the ICT and applicative infrastructures of the PA in the Italian landscape, allowing them to fully comply with the guidelines and objectives of the PNRR.

Almaviva and Aruba's proposal was developed with a *security and privacy by design* approach, guaranteeing the highest standards of physical, logical, and network security, thanks to a wide range of *cyber security* services that protect institutions and safeguard their information.

Among the primary infrastructural and technological assets that characterize Almaviva and Aruba's PSN proposal are:

- a *Green Cloud Factory* with a widespread local presence;
- the full availability of campus data centers located in different regions, able to help accelerate the setup phase and encourage a migration speed that is faster than the objectives established by the government;
- 4 next-generation and green-by-design data centers that are carbon-neutral thanks to their autonomous production of energy as well as a "Guarantee of Origin" for the energy they take from the grid, provide high performance, energy sustainable, resilient, and secure services as well as cutting-edge technology thanks to systems that comply with and exceed Rating 4, equipped to ensure adequate levels of operational continuity and fault tolerance;
- a modular infrastructure in accordance with the need for adaptability to the migration plan;

- oversight of the entire supply chain, from data centers all the way to the public, private, and hybrid cloud service, based on the most widespread and open source proprietary enterprise technologies, ensure full technological autonomy and control of the cloud's digital infrastructures;
- skill in the storage, processing, and protection of the various types of national data (strategic, critical, ordinary) makes it possible to meet the requirements of the Italian Cloud Strategy;
- availability of adequate levels of encryption and management of foreign keys in various platforms;
- openness toward collaboration with other public, regional, and national entities, and European standards such as the Gaia-X initiative;
- expertise and direct delivery of core services in order to encourage and support administrations in the data migration process;
- ability to accompany institutions in their processes of applicative reengineering and *end to end* (E2E) integrated management of the most critical elements;
- technological agreements with the already active and PA-certified primary cloud providers, from a multi-cloud perspective, in order to allow access to the best solutions in the sector, thus eliminating the risk of proprietary lock-in.

Almaviva Group

Almaviva, the leading Italian Group in Information & Communications Technology, synonymous with digital innovation, accompanies the country's growth processes by rising to the challenge that enterprises must face in order to remain competitive in the digital age, innovating its business model, organization, corporate culture, and ICT. With a foundation of strong "Made in Italy" skills, Almaviva has created a global network of 45,000 people (10,000 in Italy and 35,000 abroad) and €891 million in turnover in 2020. It operates through 43 offices in Italy and 23 abroad, with a major presence in Brazil as well as in the United States, Colombia, Tunisia, Romania, and Brussels, the nerve center of the EU. www.almaviva.it

Aruba S.p.A.

Aruba S.p.A., founded in 1994, is the largest Italian cloud storage provider and the number one company in Italy for data center, web hosting, e-mail, PEC, and domain registration services. It has enormous experience in the construction and management of data centers, with an active European network at its disposal: in addition to its proprietary data centers (3 already active in Italy and one expected to be active by the end of 2021), it has another in the Czech Republic and additional partner facilities in France, Germany, the UK, and Poland. The company manages over 2.7 million domains, more than 8.6 million e-mail accounts, more than 7.6 million PEC accounts, over 130,000 servers, and a total of 5.4 million clients. It is active in the primary European markets, like France, England, and Germany, and boasts leadership in the Czech and Slovak Republics, as well as a consolidated presence in Poland and Hungary. In addition to web hosting services, it also offers dedicated server services, housing and colocation, managed services, digital signature, replacement storage, fiber optic cable, and smart-card production. Since 2011 it has expanded what it offers with cloud storage services and in 2014 officially registered the prestigious ".cloud" extension. In 2015 it created Aruba.it Racing, Ducati's official team in the Superbike World Championship, and in the same year announced the creation of the Aruba Business division, structured and designed specifically to support business partners in the IT and Internet market. In 2019 it officially announced the creation of Aruba Enterprise, a division that develops customized IT projects and solutions for companies and public administration. For more information: <https://www.aruba.it>



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