



LEONARDO CYBER & SECURITY SOLUTIONS

GOVERNMENT SOLUTIONS



Today's governments and public administrations can take great advantage of the vast amount of data already available and those generated every day by increasingly interoperable systems and applications through the adoption of technologies such as the Cloud, Big Data and Artificial Intelligence. In fact, the exploitation of data and information supports the processes that underpin many aspects. The security and safety of citizens and the territory, the correct use of the country's resources to accelerate its economic growth and international competitiveness, the provision of services to citizens and businesses or efficient communication in emergency situations in the territory are some of the aspects to be addressed.

In this context, the redesigning of Public Administration processes and new digital-by-design processes allow new services to be offered to citizens and businesses based on procedures that will have to be paperless and as simplified as possible in order to reach as many users as possible. In addition, the application of technologies such as Artificial Intelligence can provide tools for monitoring and protecting the territory or preventing emergencies. Increasingly efficient decision-making is possible as a result of relevant context specific advice derived from experience.

Leonardo is a partner of Italian and European institutions to which it provides innovative solutions, based on proprietary and third-party technologies, to support their needs. The company has developed competences, solutions and integrated platforms to effectively address the complex and multiple requirements of institutional customers while guaranteeing IT security to protect the strategic and sensitive data of institutions, companies and citizens.

BENEFITS

- Consolidated capabilities for the national secure digital transformation and Cloud adoption
- Strong expertise in the management of complex infrastructures
- A complete range of managed security services for the cybersecurity of networks, infrastructures and applications
- Integrated solutions for data governance and valorisation

The digital transformation of Governments and Public Administrations is a complex and gradual process that must address many different aspects: the definition of a strategy, the design of processes in a digital key, the creation of new business or operational models, the adoption of digital technologies and tools, and the creation or improvement of the skills needed by people to interact with this new digital reality.

Leonardo, leveraging the experience gained over the years in projects for Public Administration Clients and in research and development, has developed a complete offer to address:

- The support to Clients for digital transformation through the adoption of new technologies, for the redesign of processes in a digital key and for the identification of the most suitable solutions for data collection, processing, quality control, integration, management and security.
- The design, implementation and management of digital infrastructures based on the customer's needs to ensure the required performance, as well as scalability and reliability requirements.
- The development of vertical solutions and applications for the digitalisation of processes, through in-depth analysis of the context and critical issues of the information managed.

Secure Cloud & Digital products

Cloud migration support	Leonardo has an iterative model and a supporting tool to address assessment and feasibility activities related to cloud migration. The model addresses the activities of analysing the infrastructure, identifying specific performance, efficiency and security objectives, defining the expected and desired state of Cloud adoption, analysing current gaps and identifying and planning the interventions to be implemented.
Secure Cloud Management	The need to orchestrate, secure and govern hybrid, multi-cloud and edge computing cloud environments is managed through the Secure Cloud Management Platform. The platform provides overall visibility over the resources, simplifies their management and makes it easier to optimise them within the infrastructure, thus enabling constant control over performance, quality of service delivery and security. The ability to perform what-if analyses allows scenarios to be simulated to assess the impact of any changes in infrastructure capacity, the migration of loads from one environment to another, and to control costs.
Privacy Management	Leonardo has a platform to implement the necessary controls to allow the anonymised and minimised extraction and use of information containing personal data, while guaranteeing privacy. The Privacy Query Platform, based on technologies such as Big Data and Artificial Intelligence, is usable in the Cloud or on premise and manages data and information stored on heterogeneous sources.



The ever-increasing availability of data - from satellite monitoring, images acquired by drones equipped with specialised sensors, surveillance systems and field sensors - now allows administrations to build up a comprehensive knowledge base, a repository of data from which to extrapolate valuable information to improve territorial security and anticipate critical future contexts.

Leonardo has developed a platform for advanced situational awareness that provides an overview of an area to be monitored or of an asset under protection, such as an archaeological site or a historical building, in order to:

- generate alerts concerning degradation or critical situations,
- ensure information superiority through the availability of useful information for the effective solution of an event or the monitoring of the evolution of a given situation of interest,
- manage workflows by providing appropriate decision support for timely intervention and coordination in the field,
- optimising the use of logistical resources,
- facilitate the investigative analysis of events by analysing large quantities of data.

Global Monitoring

Situational awareness

Data generated by sensors and analytics are collected by Leonardo platforms that provide security operators with tools to enforce situational awareness and perform sophisticated event management.

Surveillance and analytics

The company provides systems to manage and control different real-time video technologies. Each video stream can be instantly replayed and recorded for later investigation purposes. Video streams (as well as audio streams) can be processed by company artificial intelligence based video and audio analysis system named **Ganimede** for enhanced detection of dangerous or abnormal situations. Video surveillance and analysis systems are integrated in the **X-2030 control platform**.

Energy efficiency

Leveraging on modelling and simulation techniques and Big Data, Analytics and IoT technologies, Leonardo's **energy efficiency** solution is a platform addressing the management of energetic monitoring and data analysis to supply decision support facilities for energy efficiency and saving.

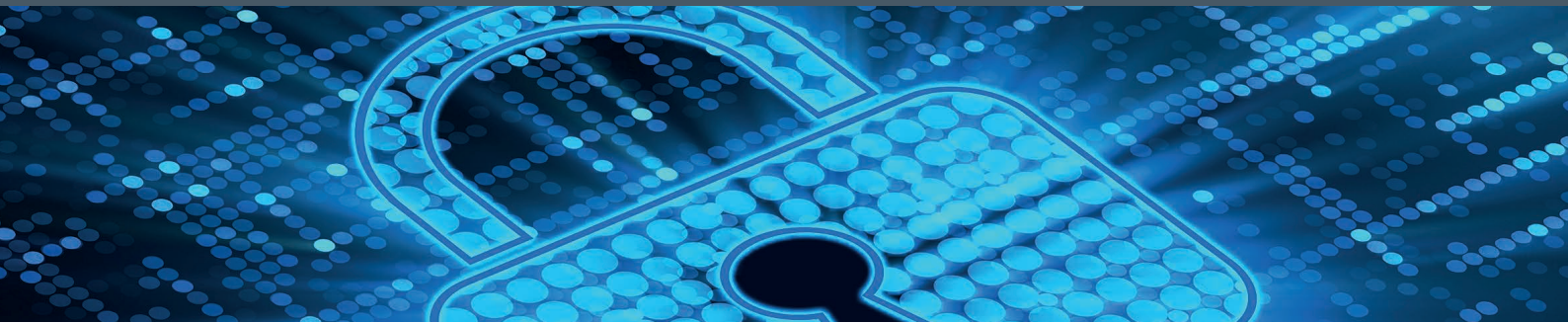


The increased reliance of existing platform on software and the extensive interconnection of network and systems enlarge the potential cyber-attack surface and exposure. Networks and applications need to be cyber protected and resilient in order to provide the operation continuity deserved by Governments and Public Administrations.

Leonardo provides a portfolio of services and solutions to identify, prevent, detect and respond to cyber-attacks that could affect its customers, offering a holistic approach to Cyber Security according to the NIST framework

Cyber Security & Resilience	
Risk Advisory & Consulting Services	Leonardo supports its Customers to understand and manage the cyber risks that they are exposed to. These services include a proprietary approach and an established process for designing and building on-premises security management infrastructures (SOC, CERT, IOC).
Managed Security Services	Managed security services, provided by Leonardo Global Security Operation Centre, configure and monitor IT/OT/IoT systems' security status in order to identify any breach of security policies to apply appropriate response actions. These services are and natively integrated with threat intelligence services with the aim to enhance detection capabilities.
Cyber Security Platforms	Leonardo services (as well as Leonardo projects) take advantage of in house designed platforms helping security operators in their task: <ul style="list-style-type: none">• Cyber information superiority suite composed by a combination of platforms providing threat intelligence, end point protection and malware analysis is based upon Information Superiority concepts applied to the cyber domain to obtain valuable and actionable information, which can be used to rapidly implement targeted defence and containment actions.• Cyber Situational Awareness system is a complete ecosystem specifically designed to keep CNIs' security teams and executive profiles informed of what is happening in terms of Cyber security supporting decision making and security investigation processes.



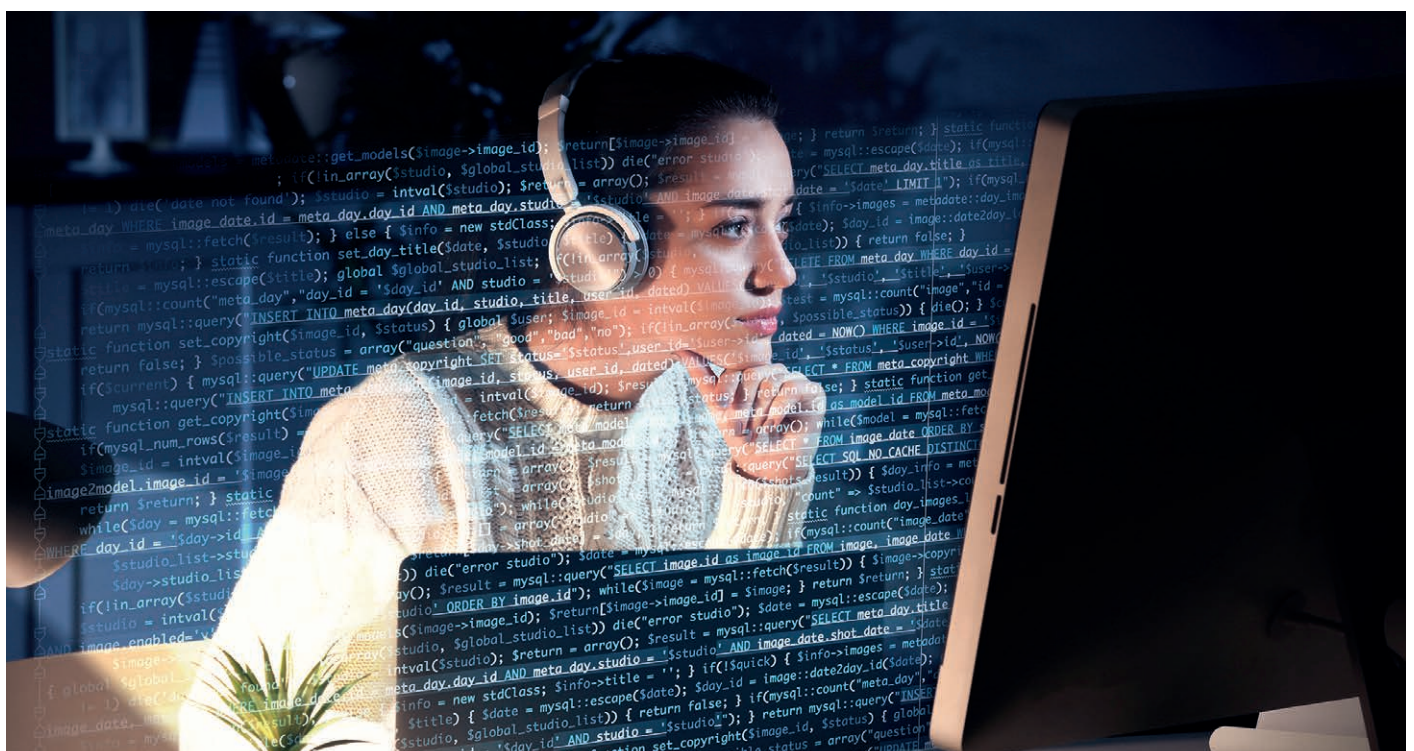


Cyber threats are constantly evolving and becoming more and more pervasive and sophisticated; this is determining the need of a diffused awareness on cyber security among end user population and the necessity of constant training and exercise for cyber security specialists.

The public sector because of the wide diffusion of ICT technologies in vital processes is feeling these needs as any other technologically advanced organization.

Leonardo can support his Customers with both a cyber-training offer and platforms leveraging innovative technologies and learning methodologies.

Cyber Training	
Cyber & Security Academy	An innovative training centre to promote cyber security awareness increase competencies by means of a complete training portfolio delivered by expert trainers leveraging advanced platforms for hands on exercises.
Cyber Trainer	Cloud-based platform to train and keep up to date both security professionals and non-expert users managing the whole training process (training needs, formal learning, exercises, certification).
Cyber Range	Integrated environment for immersive realistic simulations of cyber-attack/ defense scenarios and advanced simulation operation to test cyber resilience of system and infrastructures.





HIGHLIGHTS

Leonardo supports its institutional Customers through IT and strategy consulting, solutions and applications to digitalize their core processes and implement new digital services.

The wide range of Leonardo solutions also addresses multiple aspects of Public Administrations: from the security of territories and citizens through global monitoring platforms and applications to emergency management through reliable communications up to the security of infrastructures and data through cybersecurity solutions.

ABOUT CYBER AND SECURITY SOLUTIONS DIVISION

With experience in information technology, communications, automation, physical and cyber security, Leonardo Cyber and Security Solutions Division generates synergies by joining its expertise to support enterprises, agencies, public safety, security and emergency organizations. Our offer includes solutions for the security and protection of critical infrastructures, transport infrastructures, major events and stadia, cyber security, integrated networks systems and secure communications that enable reliable and efficient information management.



Secure Cloud &
Digital



Global
Monitoring



Mission Critical
Communications



Cyber Security
& Resilience

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