

# DGA

## INFORMATION SUPERIORITY

### Key facts

Heir to CELAR and LRBA

**1 250** employees on site, 2/3 are engineers

**15 km** from Rennes, 2h from Paris by high-speed train

An establishment of the Direction Générale de l'Armement (DGA), DGA Information Superiority is the technical expert of the French Ministry of Defence in the fields of information and communication systems, cybersecurity, electronic warfare and tactical and strategic missile systems.

### CAPABILITIES

Within the French Ministry of Defence, the DGA is responsible for:

- equipping the armed forces by managing armament programmes,
- preparing for the future, by anticipating upcoming threats, and by managing technological evolutions and industrial capabilities, in order to develop future defence systems,
- promoting defence export sales.

**DGA Information Superiority** operates mostly to manage the technical risks of the armament programmes, from technical specification to real performance validation and assistance to operational deployment. It also provides direct support to the Armed Forces and to some defence system export sales.

Heir to CELAR and LRBA, **DGA Information Superiority** relies on advanced skills in the fields of information and communication systems, cyberdefense, electronic warfare and tactical and strategic missile systems; it applies those skills on land, sea, air, and space systems.

Providing its technical expertise from electronic components to "systems of systems", it is involved in most French armament programmes and contributes to the four defence strategic axes:

- knowledge and anticipation (knowledge of the threat, space-based intelligence, UAVs...),
- protection (ballistic missile defence, early warning...),
- intervention (Rafale combat aircraft, tactical missiles...),
- deterrence (strategic ballistic missiles, nuclear submarines with launch capabilities...).

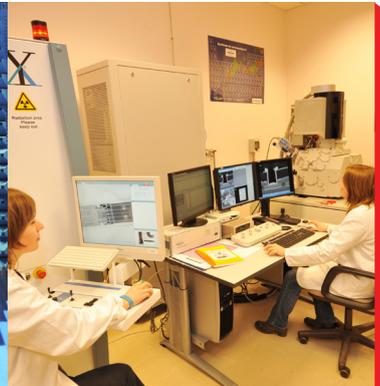
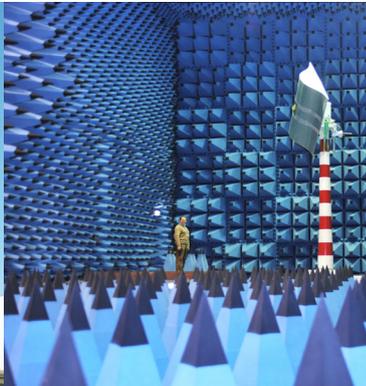
### ESTABLISHMENT ENGAGED IN A CONTINUOUS APPROACH OF :

- Quality: ISO 9001 certification (overall certification for the DGA)
- Environmental protection: ISO 14001 certification
- Health and Safety: OHSAS 18001
- Metrology Quality: COFRAC accreditation in the fields of electricity/magnetism and time/frequency.

### CONTACTS

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The technical skills of DGA Information Superiority rely on engineering methods and on a coherent set of facilities (measurement bases, test platforms...), which allow to offer comprehensive expertise services. Our fields of activity are the following:

■ **Systems of systems**

Managing multiple systems involved in a defence mission, optimizing operational chains, controlling interoperability risks: searching overall performance based on multiple systems by an analysis of cost, effectiveness and threats.

■ **Command and control information systems and intelligence systems**

Collecting and processing data coming from different information sources (image, electromagnetic, space-based, UAVs...) and assuring technical consistency and interoperability between different armed forces systems (Army, Air force, Navy and joint forces), while ensuring information security.

■ **Telecommunication networks and transmission systems**

Ensuring the technical performance of transmission systems in a disturbed radio electric environment; ensuring networks interoperability and optimizing the use of the radio-electric spectrum.

■ **Information systems security and cyberdefense**

Guaranteeing the confidentiality, the integrity and the availability of information and of its support systems. This activity covers all aspects, from the design of algorithms and cryptographic components to the evaluation of secure architectures for complete systems.

■ **Electronic sensors: radar, infrared, inertia, GPS...**

Ensuring the performance of systems relying on electronic sensors and operating in an electronic warfare environment. This includes the evaluation of systems used to localize the opponent (radar...) while mastering the techniques (stealth, decoying, jamming...) that aim to deceive this opponent, as well as guidance and navigation systems for precision weapons.

■ **Tactical and strategic missile systems**

Ensuring the comprehensive performance of missile systems, taking into account their guidance, navigation and propulsive systems in hostile environment.

■ **Electronic and optronic components**

Assessing the performance, controlling the reliability and managing the obsolescence of defence-specific components.

**PARTNERS**

Many partnerships and cooperations with :

- The 3 armed forces and government agencies
- Industry, from large groups to SMEs
- The scientific community: CNES, CEA, ONERA, CNRS...
- The higher education system: universities, laboratories...
- The regional environment: local authorities, high-tech clusters...
- Foreign counterparts: CERDEC, DSTL, WTD...

