



EXXELIA



www.exxelia.com

EN

PRESENTATION

« As a manufacturer of leading-edge specialty products, we are committed to ensuring that



our customers enjoy the full benefit of our unique knowhow and innovative solutions.

We have an unremitting focus on

quality and attention to detail, and through our resolutely customer-oriented service, we are dedicated to meet our commitments with responsiveness.

The men and women in our Group share a special passion and motivation to fulfil their missions. These qualities are apparent everyday in our commitment to teamwork, the dynamics of innovation and our ambition to succeed in the international arena. »

*Christophe Malrin,
CEO of Exxelia Group*

A blue ink handwritten signature of Christophe Malrin, consisting of stylized initials and a surname.



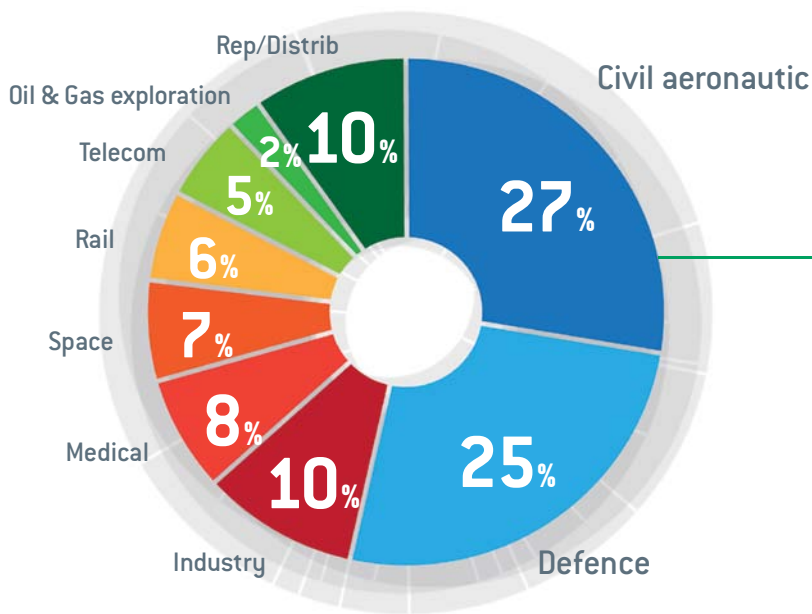
Exxelia Group, designer and manufacturer of innovative electronic and electromechanical solutions.

For over 50 years, Exxelia Group has been focusing its business on the design and manufacture of innovative high-tech solutions offering the highest levels of reliability: capacitors, filters, precision mechanics, position sensor and slip rings, and wound magnetic components. These products are manufactured to meet the requirements of space, aeronautics, defence, rail, medical, manufacturing, energy and telecommunications sectors.

The durability and reliability of these products have established Exxelia Group as an international reference.

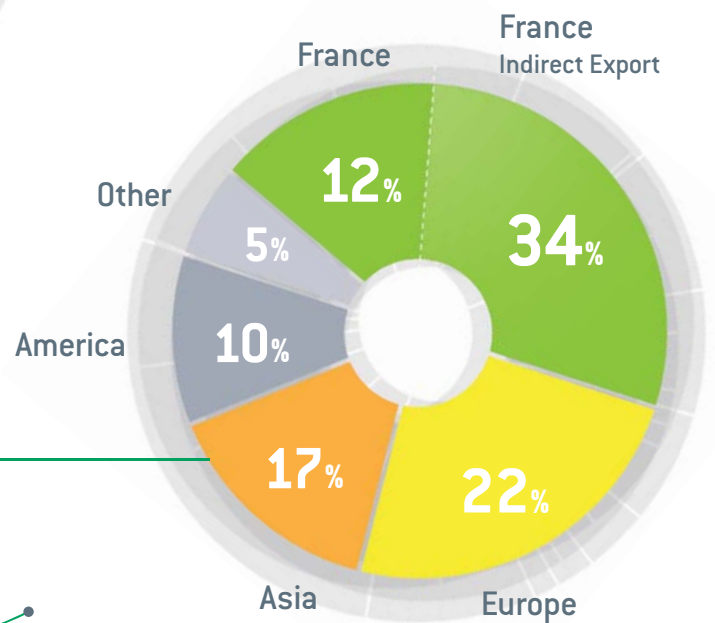


**EXCELLENCE
INNOVATION
QUALITY
SERVICE
OPENNESS**

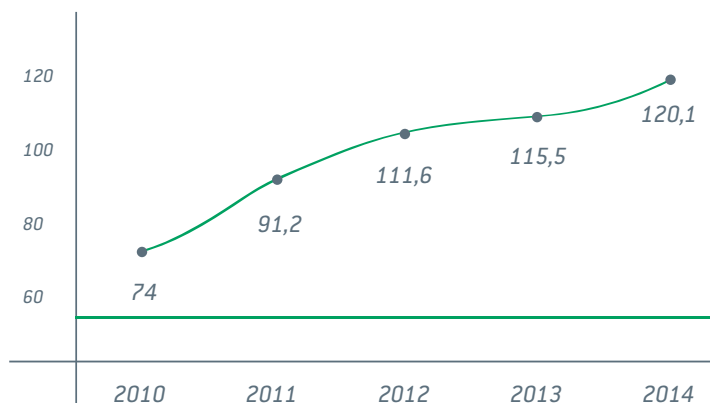


MARKET BREAKDOWN

BREAKDOWN OF TURNOVER BY GEOGRAPHICAL AREA



REVENUE HISTORY (€M)



OUR VALUES AND COMMITMENTS

OUR VALUES

5 values guide our business and action day-to-day:

- EXCELLENCE
- INNOVATION
- QUALITY
- SERVICE
- OPENNESS



OUR STRENGTHS

CUSTOMER SUPPORT:

Our plants and offices around the world allow a close relationship with our customers. Collaborations with our customers are built on trust and responsiveness.

QUALITY:

Our electronic and electromechanical solutions are designed and manufactured to meet specific technical requirements. We ensure optimum quality of our products: raw materials of high quality, inspections, measurements, tests.

SUSTAINABILITY:

Our companies are experiencing a continuous growth. Our sustainable products are references to our customers and are manufactured to the requirements of harsh environments in which they operate.

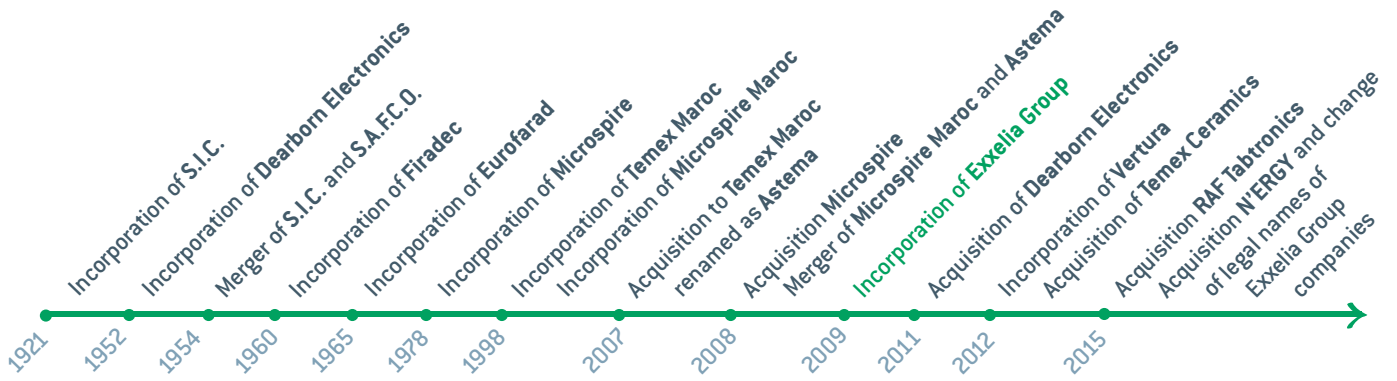
RESPONSIBLE COMPANY

- Prevention of industrial risks,
- Safety and security of personnel, industrial facilities and products,
- Respect for hygiene and working conditions,
- Audits, processes, regulations,
- Awareness of HSE policy and training for employees.



OUR DEVELOPMENT POLICY

HISTORY OF EXXELIA GROUP



OUR WORLDWIDE PRESENCE

Today Exxelia Group employs a worldwide workforce of over 1400 in France, Germany, Sweden, Morocco, China, India, the USA, Vietnam, Singapore...

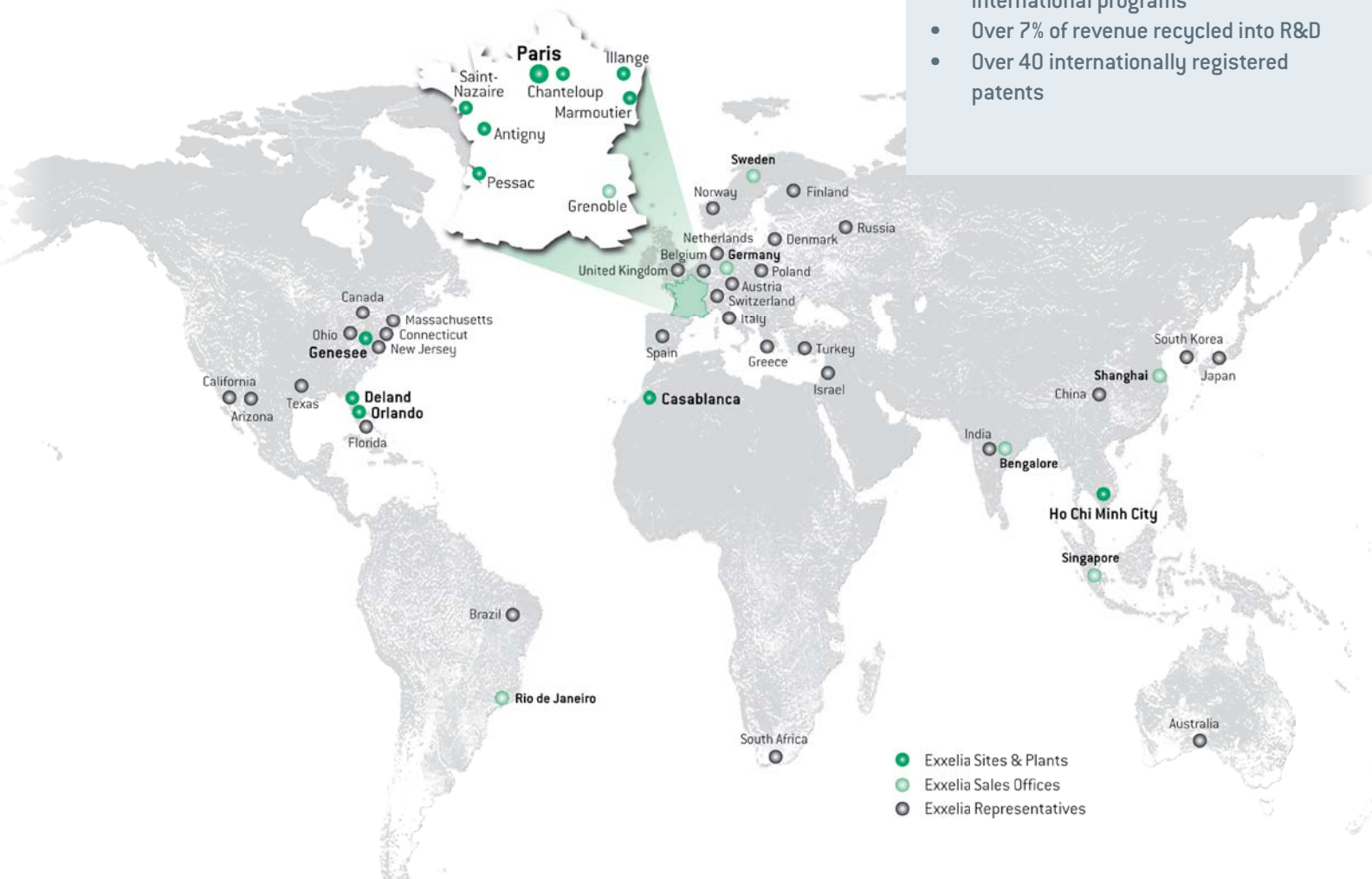
representatives on every continent, working as closely as possible with our 2000 customers to meet their expectations.

Exxelia Group also has the support of a vast network of distributors and sales

Our skills and knowhow have earned us international recognition.

R&D and INNOVATION

- A team of expert, dedicated engineers and researchers,
- Strategic partnerships with university laboratories, leading education establishments and companies in industrial sector.
- Collaborations in European and international programs
- Over 7% of revenue recycled into R&D
- Over 40 internationally registered patents



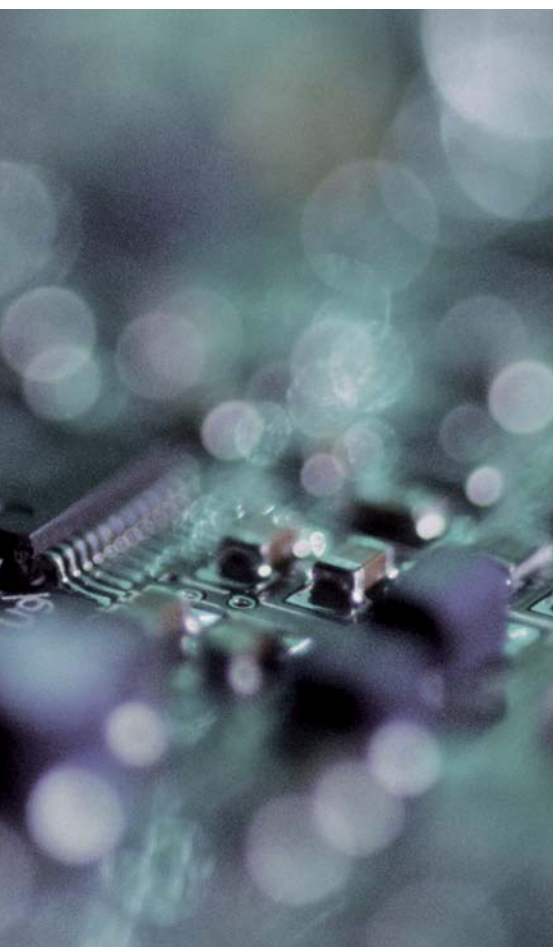
Filters

Miniature EMI-RFI filters:

these components come as either tubular versions with diameters ranging from 3 to 17 mm or surface-mounted. They are also available as multiple filters integrated into the same housing..

Energy filters:

these components fulfil an EMI filtering function, and can protect against lightning and nuclear electromagnetic pulses (HEMP). Applications range from power supplies filtering to communication lines, room protection with Faraday cages and emission security (TEMPEST) for strategic buildings.



Precision mechanics

We machine high-precision parts and build complex assemblies, from prototypes to medium-scale production runs for the aeronautics, defense and space vehicle markets. Our ERP system gives us full control of the supply chain, production, and materials procurement, right through to surface treatment and field testing.

Sensors and associated systems

Position sensors: these modules transcribe mechanical motion into usable electrical information.

- Precision potentiometers: contact position sensors based on resistive technologies. Plastic film, Wound or Hybrid models are available.
- Optical encoders: contactless position sensors that enable high-accurate angular or linear position digital measures. Exxelia is offering a range of absolute and incremental optical encoders.
- Hall effect sensors: contactless position sensors using electric field measurement. Output may be digital or analog.

Slip rings: these modules are used for transferring data or power signals from fixed to mobile parts. Almost always custom-designed, they support multiple configurations in terms of type and number of signals transferred.

Wound magnetic components

Exxelia Group is specialized in the design, the manufacturing and sales of magnetic components, wound magnetics, inductors, transformers, motors, sensors and actuators for high performance applications.

The technology offer includes the standard linear and toroidal technologies, as well as the Chameleon Concept Magnetics technology (CCM), the Toroidal Transfer molded Technology (TT), the SESI planar/low profile technology, the Aluminum Foil Winding technology (AFW), developed to meet the most demanding applications.

Sub-assemblies

Exxelia Group offers its customers outsourcing services based on its two main specialty areas: the assembly of complex electronic components and sub-assemblies and the manufacture of magnetic components.

Microwave tuning screws

Exxelia Group offers a full range of microwave tuning screws for cavity filters, oscillators, filters, waveguides etc., as well as custom designs on demand. Tuning components are machined in a range of materials: brass, Invar, Arcap, etc.

Ferrites

Mostly intended for isolator & circulator sub-systems widely used in a broad range of frequencies in radio-communication systems, Ferrite materials are offered in disk, triangle and special custom-designed dimensions. They provide low delta H (ΔH) propitious to IMD reduction. Their combination with selected dielectric material allows a choice of FDA apparatus, of repute to save space in isolator/ circulator construction.

Dielectric resonators

Several dielectric constant ranging from 24 to 78, provide High "Q" characteristics for applications 1.5 GHz to 100 GHz thru 7 selected materials. Combination of resonators and tuning elements for cavity filters adjustment on request.

Coaxial resonators

Those resonators are generally used in filters, duplexers, DRO's and VCO's applications within a broad range of frequencies. They allow the best compromise between impedance, "Q" factor and resonant frequency.



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Exxelia Group companies

