

# INTRODUCING TESTIA

Invisible Testing. Visible innovation.



# A reliable technology partner

A trusted end-to-end provider with a full range of services & products for structural integrity



## Our strengths



**30+ years**  
of expertise



**600+ talented**  
people



**18 sites**  
worldwide



**1,500+ customers**  
trust us



# VISION

Become the Aerospace reference  
in structural integrity

# MISSION

We make flying safe



# Delivering on our values every day



Flexibility



Innovation



Trust



Excellence



Integrity

# An end-to-end portfolio for a holistic approach

## What?

- Materials
- Elementary parts
- Final product

## When & Where?

- Design & Industrialization
- Manufacturing
- Assembly
- In-service

## How?

- Training
- Inspection
- Engineering
- Products & Solutions

# Our global end-to-end solutions focus on structural integrity

## Training & Qualification

Multilingual courses & accreditations across aerospace NDT methods

## Inspection

NDT inspection from elementary parts & throughout asset life cycle

## Engineering

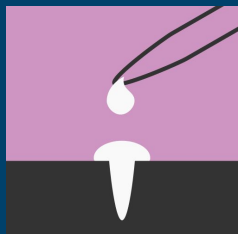
A broad range of engineering services guaranteeing structural integrity

## Products & Solutions

Augmented inspection, process automation and embedded intelligence

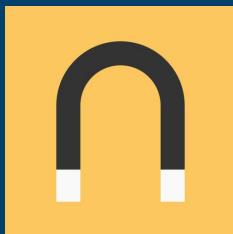
# Our NDT driven expertise

PT



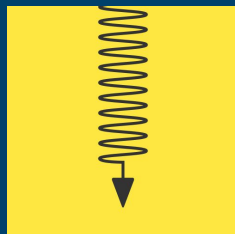
Penetrant  
Testing

MT



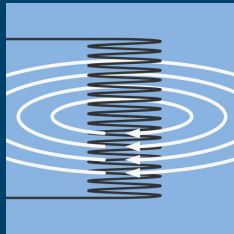
Magnetic  
Particle Testing

UT



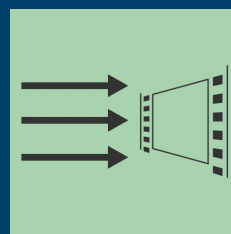
Ultrasonic  
Testing

ET



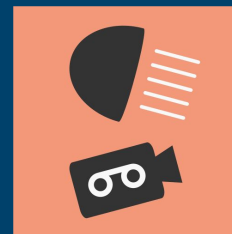
Eddy Current  
Testing

CT / RT



Computed Tomography  
/ Radiography Testing

TT / IRT



Thermography  
Testing

ST



Shearography  
Testing

# Bringing solutions to multiple high-end technology sectors

Aeronautics



Automotive



Sustainable Energy



Urban Air Mobility



Naval



Oil & Gas



Defence & Space



Wind Energy

# A global delivery model to better serve your needs



- France (HQ)
- Spain
- United Kingdom
- Germany
- Mexico
- Canada
- Singapore
- Malaysia

# Our expertise is recognised through dedicated accreditations



Transport  
Canada



For specific information about the scope of each certification please go to [testia.com/accreditations](https://testia.com/accreditations)

More than 20 OEM approvals

# NDT Training

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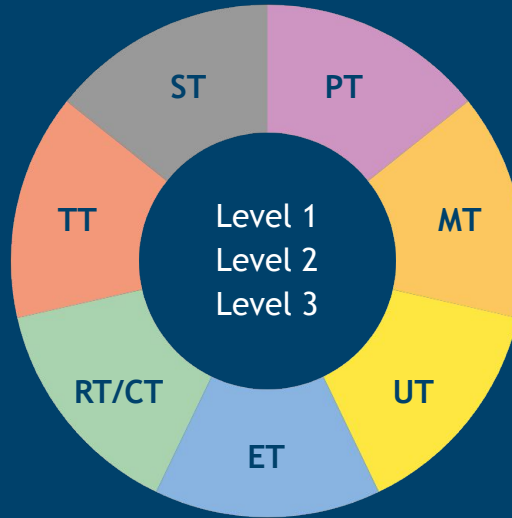
25 000+ trained and certified NDT inspectors since 1994

On-site, Off-site and E-Learning sessions

Customized & mobile classrooms, access to real aircraft components

Equipped with the latest NDT devices

# Training future inspectors for continued safety



50+ training courses available

FR, EN, DE, ES

Qualification Level 3 services, NADCAP preparation, Audit

Powered by 30+ senior NDT trainers

Inspection

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Leader in  
Aerospace  
NDT Inspection

Tailor-made solutions to meet your needs,  
wherever you are

190+ customers

In-situ & ex-situ

160+ certified inspectors

Own equipment

2 000+ EASA Form 1  
issued per year

Own workshops or at  
customer site

Proven rapid ramp-up capabilities worldwide

# Engineering

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NDT Engineering

Materials  
& Processes

Lab capabilities

## Delivering advanced engineering services & expert advice



- Inspection procedures & feasibility studies
- Qualification support
- Periodic verification / Calibration
- Mechanical testing
- Cabin interior testing
- Fluids testing
- Failure analysis
- Materials & Processes consulting
- Structural Health Monitoring
- 3D Metrology & Reverse Engineering

Own testing labs & partnerships with Airbus labs

## Products & Solutions

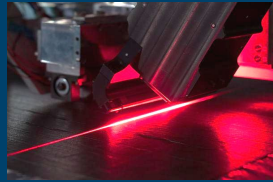
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Augmented Inspection



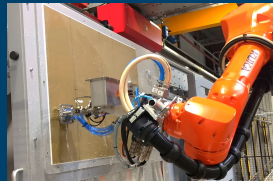
Smart Inspection Tools, Remote Assistance, Smart Mixed Reality, 3D Asset Manager

Process Monitoring



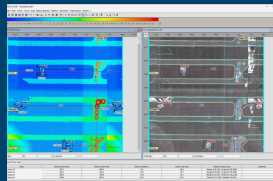
Electrical reflectometry for RTM & LRI, Laser profilometry for AFP & Artificial Vision

Robotics & Automation



Inspection systems

Diagnosis Intelligence



Focused Diagnosis Tools & NDT Visual Inspection Software

Securing our clients' business growth



# Case #1 Aerospace

Solving quality escapes

Goal: Fix manufacturing quality challenges on A350 composite panels

- Level 3 support
- Cross continent expert team
- Level 1 training & certification
- Designed & qualified ad hoc smart solutions



## Case #1 Aerospace

Solving quality escapes

Right balance between NDT technical expertise, high level of panels materials knowledge and client intimacy relationship.



## Case #2 Automotive

Helping you to ramp-up

Goal: **Design & manufacture** a fully customized Penetrant Testing System

- **Fluorescent Penetrant Inspection (FPI)** for aluminium parts
- **Penetrant Testing (PT)** inspections for automotive components



## Case #2 Automotive

Helping you to ramp-up

Thanks to technical choices, the PT line meets client expectations and can inspect 450 parts per day and higher if needed.



## Case #3 Naval

Delivering innovative technologies to secure ship integrity

**Goal:** In a European collaborative project context, we contribute to the next generation of predictive maintenance framework, which combines in-service measurements and digital modeling:

- **Reliable sensing technology selection** (fiber optic sensor focus)
- **Data processing** support for damage detection and structure prediction



## Case #3 Naval

Delivering innovative technologies  
to secure ship integrity

Our approach is based on the transfer of  
innovative solutions from aerospace across  
the naval industry.



## Case #4 Oil & Gas

Optimizing your operational efficiency

**Goal:** Deliver a post-processing software in order to **decrease analysis time** and **improve accuracy** of the analysis, provide a cloud based solution for archiving and analysing data



## Case #4 Oil & Gas

Optimizing your operational efficiency

- A **customization of NDTkit** for displaying 3D representations to locate anomalies quickly
- A **cloud-based solution** to archive let the capability to archive and seek easily results
- A **machine learning algorithm** to assist operators to detect defects



## Case #4 Oil & Gas

Optimizing your operational efficiency

Our solution improved the **reliability** of the results by **reducing human factor errors** and **reducing the time needed to control weldings**.



## Case #5 Space

Improving rocket materials performance by evaluating structural damage

Goal: Gather **data performance** of new materials and structures for Ariane 6



## Case #5 Space

Improving rocket materials performance by evaluating structural damage

- Identification, testing and conceptualization of monitoring solutions for evaluating strains & damages at different stages of the launching process
- Fiber optic sensors
- Acoustic sensors
- Benchmarking, planning & conducting a PoC test on-site, replicating the loads expected by structures



## Case #5 Space

Improving rocket materials performance by evaluating structural damage

Thanks to our sensor toolbox, we offer an **end-to-end solution**, from **engineering** to **implementation & analysis**.



## Case #6 Wind Energy

Leveraging breakthrough technologies to generate effective wind energy

**Goal:** Determine the **feasibility** of a miniature & autonomous SHM sensor to replace the current analog solutions

- Developing an **autonomous smart multi-parameter sensor**
- **Use-case assessment**, sensor customization (programming), sensor installation, testing support on-site and assistance in data collection & analysis



## Case #6 Wind Energy

Leveraging breakthrough technologies to generate effective wind energy

We offer a global solution, from sensor customization to IoT (Internet of Things) & data analytics.



## Case #7 Sustainable Energy

Taking advantage of our expertise to support the emerging energies

Goal: Develop an automated inspection system for the **ITER** (International Thermonuclear Experimental Reactor) front wall panels



## Case #7 Sustainable Energy

Taking advantage of our expertise to support the emerging energies

- Definition of the **ultrasonic testing** solution
- Integration of some of our standard products as technological bricks
- Development of dedicated supervision software
- Delivery of the full acquisition & analysis chain interfaced to one robotized scanner

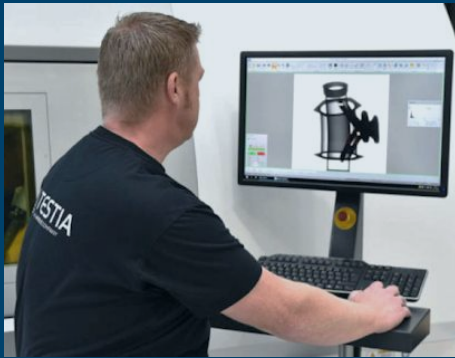


## Case #7 Sustainable Energy

Taking advantage of our expertise to support the emerging energies

Thanks to our expertise in NDT, we contributed to an innovative & sustainable project.

# Our competitive advantage is driven by our talented, dedicated people



End-to-end expertise



Customer-centric  
Innovation



In-house laboratories  
& shop floors



People driven by  
passion & commitment



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