



RGI Biosteryl Tech

Engineering for Cultural Heritage



VELOXY[®] System



WHO WE ARE

Founded in **1989**, **RGI Biosteryl Tech** is an engineering company specialising in the conservation and protection of cultural heritage through **Integrated Pest Management (IPM)**.

The company designs, develops and supplies professional systems and equipment tailored to specific conservation needs, complemented by consultancy, dedicated services and specialised technical support.

Its main clients include museums, archives, libraries, public institutions, religious organisations, conservators and private collectors.

HOW RGI BEGAN

RGI was founded in 1989 through the courageous initiative of Eng. Ercole Gialdi, who immediately recognised the potential of **anoxia** in the field of **Cultural Heritage**, despite research on the subject still being in its early stages.

With the VELOXY® project—the world's first system specifically designed for the anoxic treatment of artworks—RGI pioneered the use of the anoxic method and began working closely with the organisations responsible for safeguarding Cultural Heritage.

In **2000**, the first prototype of **CONSERVER**® was developed: a machine designed for the vacuum preservation of paper-based and non-paper-based materials.

Over the years, RGI has continuously expanded and updated its range of products and services. Today, it operates **worldwide with an ISO 9001-certified management system**, ensuring the quality of its processes and services.



1989

Research led to the development of the first prototypes of the **VELOXY® System** (specifically designed for the **anoxic treatment** of organic materials), followed by major achievements such as the certification, in 1998, of the **European SAVE ART project** (contract code ENV4-CT98-0711).



1994



2000

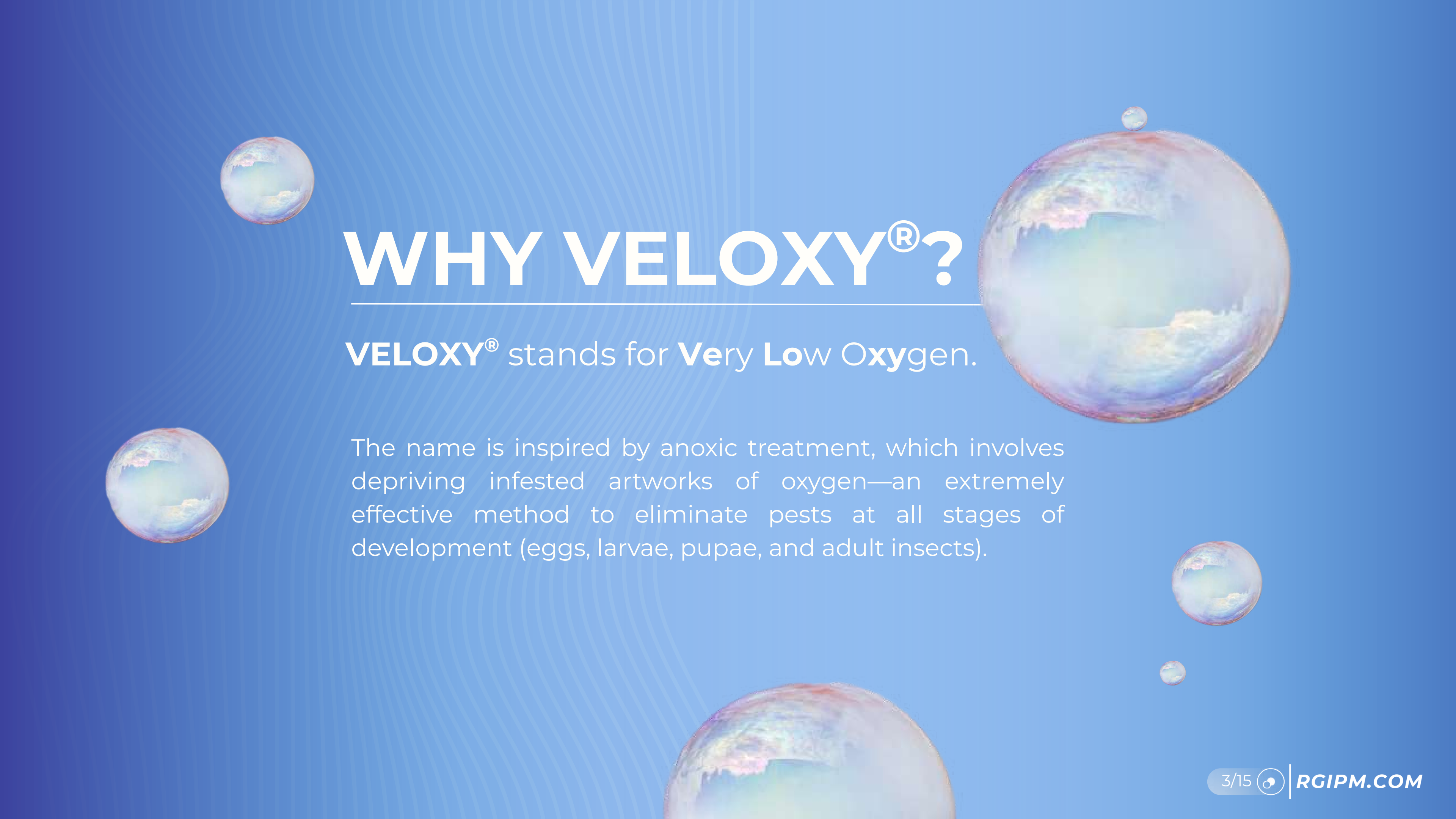


2006

Between 2004 and 2006, another European applied research project was developed, known as **ABIOS®**. This new machine was designed to **protect artworks from contamination by bacteria and microorganisms** (such as mould and fungi) in enclosed environments.



TODAY



WHY VELOXY[®]?

VELOXY[®] stands for **Very Low Oxygen**.

The name is inspired by anoxic treatment, which involves depriving infested artworks of oxygen—an extremely effective method to eliminate pests at all stages of development (eggs, larvae, pupae, and adult insects).

WHAT IS

VELOXY® is the world's first system specifically designed for the cultural heritage sector that uses **anoxia for the pest control** of artworks and materials.

By creating a **nitrogen-based** modified atmosphere, VELOXY® effectively eliminates pests in a **safe** and **non-invasive way**.



VELOXY®?

Thanks to innovative technology, the **VELOXY® System** generates pure nitrogen from ambient air and injects it into a custom-made, **gas-tight envelope** containing the artwork(s).

The artwork(s) is then sealed inside the oxygen-free envelope, creating ideal conditions for the **elimination** of **all pest species**.

HOW IT COMPOSED?*

- ① Main Unit
- ② Compressor
- ③ Air tank
- ④ Oxygen analyzer
- ⑤ Valves
- ⑥ Gas-barrier film
- ⑦ Heat-sealing tong



*Illustrations refer to the VELOXY® System standard version.

HOW IT COMPOSED?*

- ⑧ Hollow punch
- ⑨ Base for hollow punch
- ⑩ Reinforced tape
- ⑪ Hose cutter
- ⑫ Tube for nitrogen
- ⑬ Spiral hose



*Illustrations refer to the VELOXY® System standard version.

HOW THEY INTERCONNECT EACH OTHER?

The connections between the various components of the VELOXY® System are designed to be **intuitive**, **quick**, and **easy to set up** in any location.

Compressor



Short spiral hose



Air tank



Main Unit



Far spiral hose



Tube for nitrogen



Inlet valve



Outlet valves



Tube for nitrogen



Oxygen analyzer



Gastight envelope
containing the
artworks



RGI CERTIFIED TRAINING

RGI offers **professional training courses** for customers and operators, designed to ensure the correct use of the VELOXY® System.

The courses are delivered by **qualified professionals** and can be conducted:

- **on-site**, directly at the customer's premises;
- **via video conference**.

At the end of each course, **personalized certificates** are issued for each participant.

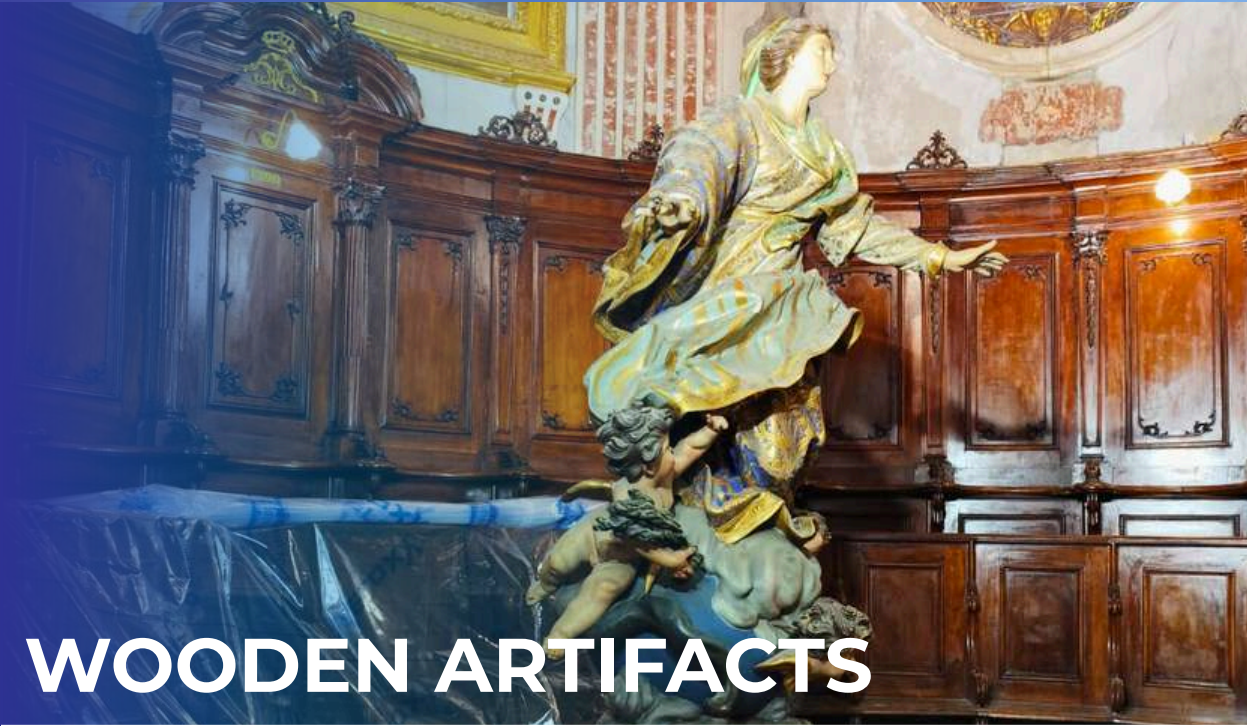
In combination with the training course, RGI also **provides direct support for the first 6 months**, ensuring continuous assistance during the initial phase of VELOXY® System operation



WHICH MATERIALS CAN BE TREATED?



WOODEN ARTIFACTS



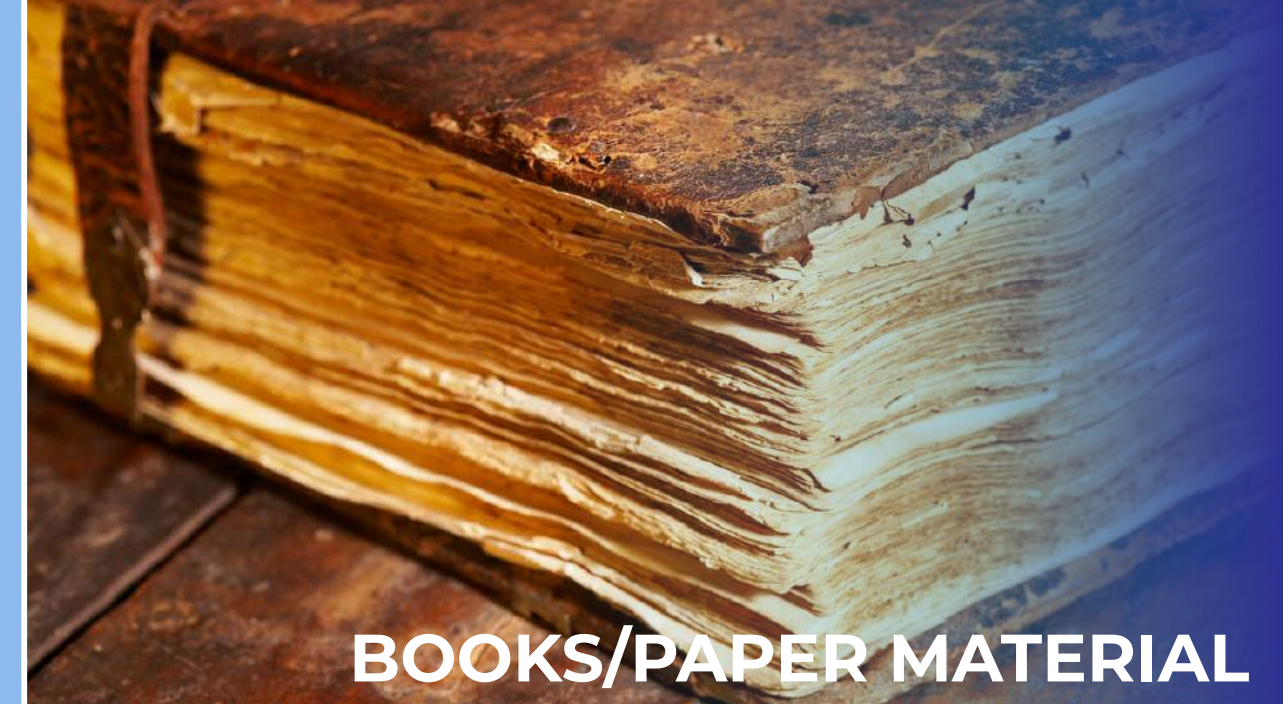
CANVAS/PAINTINGS



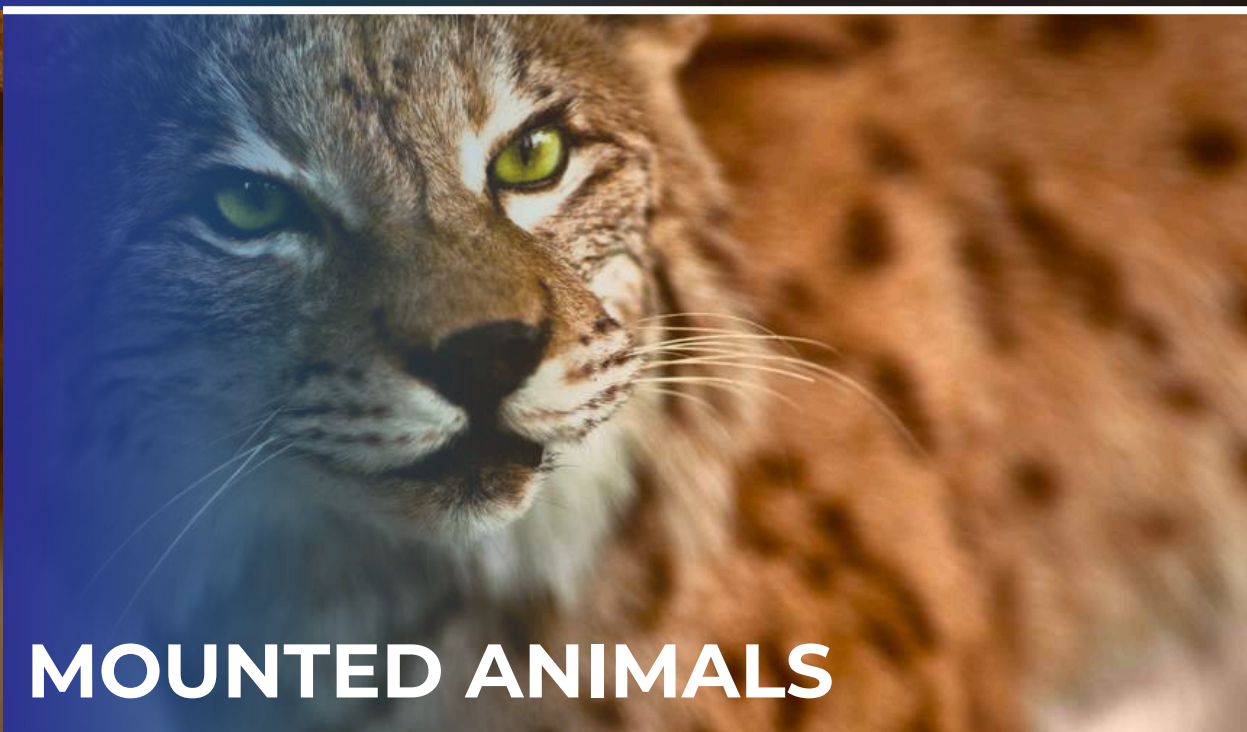
LEATHER



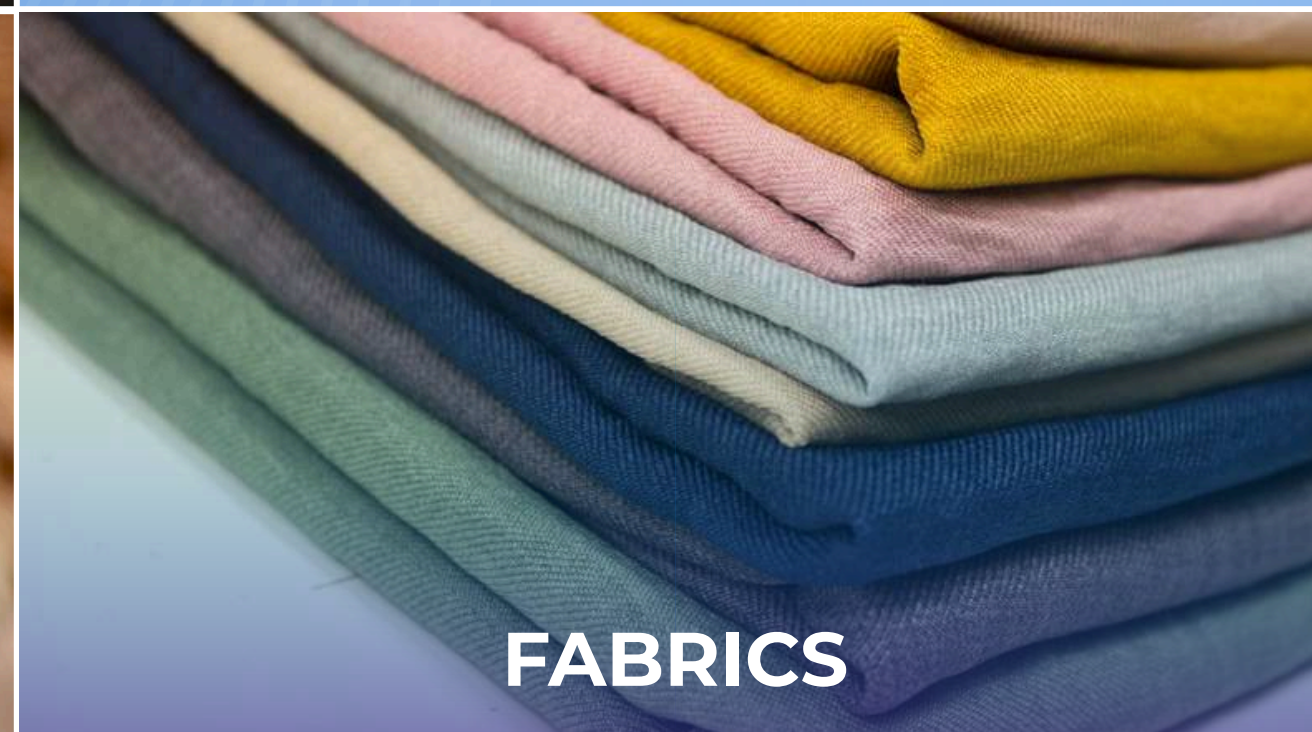
BOOKS/PAPER MATERIAL



MOUNTED ANIMALS



FABRICS



MIXED-MEDIA ARTWORKS



NO LIMITS ON SIZE



With the VELOXY[®] System, you can treat artworks of **any size**, from the smallest single pieces to large works or **entire groups**.

Thanks to the gas-barrier film, **customized gastight envelopes** can be created to **precisely match** the size and shape of the artworks.



VELOXY® IN NUMBERS*



WEIGHT
24 Kg

SIZES (cm)
30x40x130

POWER
17 litres per minute of
nitrogen with 0.2%
residual oxygen

*Data refers to the standard Main Unit of the VELOXY® 1000.

VELOXY®'S TECHNOLOGY

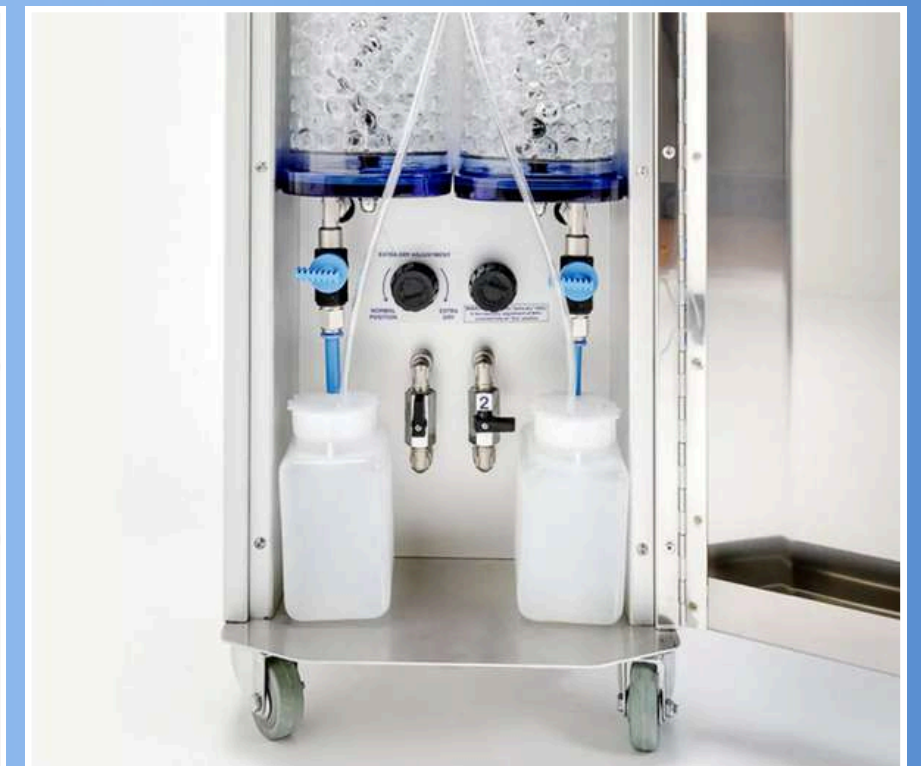
More than thirty years have passed since 1989, years of projects, **evolutions** and **successes**, all encapsulated within the new VELOXY®.

A product that combines **experience** and **technological innovation**, two fundamental aspects to solve the new challenges of Integrated Pest Management applied to Cultural Heritage.



DISCOVER THE NEW ERA IN ANOXIC TREATMENT

- **Lightweight** to transport (only 24 kg);
- The design of the VELOXY® System features separate components, making it **easy to transport** and **install in any location**;
- Thanks to the specific **RGI training course** and due to its ease of assembly/use, the VELOXY System can be used **independently by RGI clients**;
- Enhanced **human-machine interaction** through new software implementation;
- Designed to **reduce** operating and maintenance costs;
- **LED backlit display** designed for better understanding of parameters;
- Optimized internal structure, easy to **integrate** with **newly designed components**.





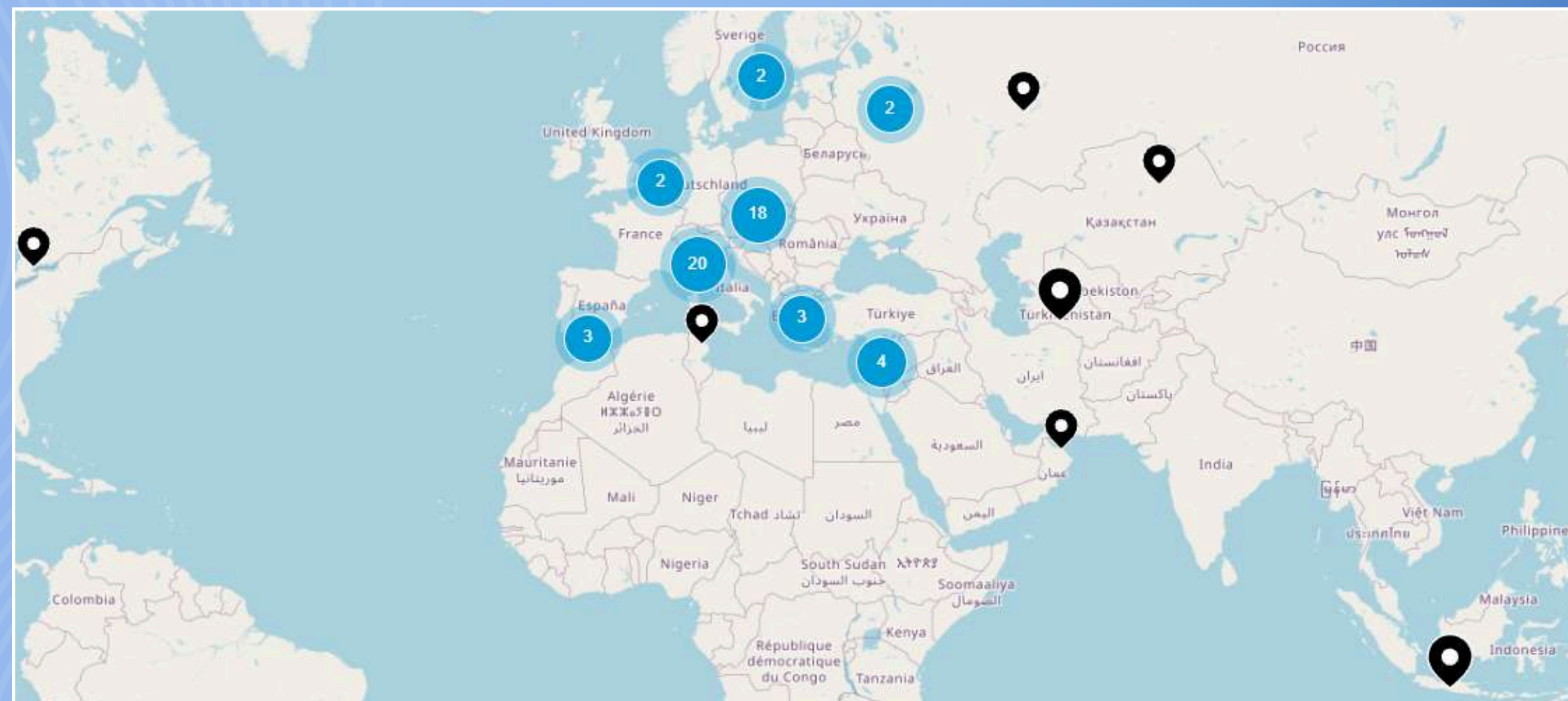
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RIJKS MUSEUM

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WHO CHOSE RGI



+30.000 artworks treated

+600 customers worldwide

**FOR ANY ADDITIONAL
INFORMATION,
QUESTIONS
OR INQUIRIES,
DON'T HESITATE TO
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