



Company Profile

Visible-Light-Activated Materials for Cleaner, Safer Environments — from Earth to Space

Our mission: bringing surface hygiene from the old millennium to the new

As far back as memory goes, we have cleaned the same way — scrub, wash, repeat — more recently adding chemicals that clean for a while yet pollute for years. EcoAida builds self-cleaning into the materials themselves: a durable property of surfaces/textiles, not a task to repeat daily.



Our technology · photoactivated carbon dots (C-dots)

Carbon-based, metal-free materials that, under ordinary visible light, provide a continuous, localized protective action. Integrated a single time, they lower the microbial load onto functionalized surfaces and textiles — as documented in laboratory testing — with no leaching biocides and in line with the EU and international guidelines.

Why it is different

- **Continuous, not on-off** — keeps surfaces protected, unlike wipes and sprays
- **Visible light, not UV** — works indoors under ordinary light, with no special lamps
- **Proven** — validated in high-biocontainment labs; >10 peer-reviewed publications
- **Protected** — patent granted in Italy and EU, PCT extended internationally

From Earth to Space

Keeping a spacecraft clean from microbes (documented abundantly on Mir and the ISS) means bringing up disinfectants and cleaning products, in an environment where every extra gram and cubic centimeter counts. Protection built into the materials — active on its own, with no water, no consumables and no crew time — removes that burden and gives microorganisms far less foothold.



Applications & business model

Applications reach across shared, high-touch environments — marine, space, transport and construction — with a dual-use dimension for naval/air and defense settings. The model is B2B: EcoAida provides the C-dots and hands-on implementation support, while industrial partners integrate them into their own materials. We welcome aerospace partners to contact us to build our technology into their own products.



Headquarters & Laboratories

Science & Technology Park, Porto Conte Ricerche, Alghero (SS), Italy

Sector

Advanced materials & coatings

Focus

- Self-cleaning surfaces & textiles
- Visible light-activated, no leaching biocides
- Lab-validated antimicrobial efficacy

Team



Silja Petrocchi
Chief Executive Officer



Franco Lori
Chief Business Officer



Davide De Forni
Chief Scientific Officer



Plinio Innocenzi
Chief Development Officer



Giancarlo Buccarella
Chief Legal Officer



Corrado Songini
Chief Commercial Officer



Valerie Looper
Chief Intellectual Property Officer



John Hautman
Chief Regulatory Officer



Luca Mercaldo
Chief Financial Officer

Intellectual Property

Patent granted in Italy + Europe
PCT extended internationally
Protection to 2041

Scientific basis

A wealth of peer-reviewed publications in top-ranked journals



Motto

Cleaning without polluting

Contact

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