



Where the forest and technology work together.

We are ODBT, a Costa Rican company in the mountains of Montes de Oro. We look after our forest and measure it with digital tools, share what we learn, and train the people who will care for tomorrow's ecosystems.

Goals

2027

ECO-MONITOR under way

A European cooperation project to train environmental monitoring technicians in Latin America, coordinated by Politeknika Txorierri.

2028

A recognised programme

Our training programme accredited by INA, Costa Rica's National Training Institute.

2030

A regional institute

Living Labs in two countries, sharing one method and open data.

Living Lab Tajo Alto: the baseline

108

baseline cells: 9 domains × 12 closed months

59%

of cells with measured or billed provenance; only one empty cell

52.2–90.9%

monthly occupancy: lowest in June, highest in January

16.3–26.7

kWh of electricity per occupied night, by month

22.2 ms

median satellite latency; 99.96% in service with a single 26-second outage

13.2%

of the sky obstructed by the canopy: a forest measurement made by a machine

Method. Weakest-link rule. A composite indicator inherits the lowest provenance of its parts, never the highest. Billed kWh divided by measured nights is published as billed. Reproducible. The occupancy denominator is recalculated from the raw booking-system export with a script delivered with the data. You do not have to believe the figure; you can reproduce it.

Roles we can take in an EU consortium

- **Living Lab.** A real site where ideas are tested and measured.
- **Training venue.** Meeting room, accommodation and connectivity in one place.
- **Work placements.** Placements and study visits on a working site.
- **Data partner.** A year of data with the source of every figure.
- **Partner in Costa Rica.** As a beneficiary or an associated partner.

Conference & Meeting Centre

- **Capacity for approximately 100 people.**
- **Room with a multimedia area** and satellite connectivity for live streaming to partners abroad.
- **Equipment:** projector, Sony conference sound system, mixer with connections for all kinds of devices, 2 wireless microphones and solar backup power.
- **Accommodation and food on site:** 3 domes, 2 apartments and 1 room.
- **Low-impact operation:** solar distributed generation since 2019 and induction cooking.

Training: digital environmental monitoring technician

Together with European vocational training partners, we are designing the profile of the digital environmental monitoring technician: someone who looks after forests and water with sensors, connectivity and data. Tourism is one of its career paths.

- **Learning on a real site.** Students work with the forest and the data of a site in operation, not with a simulation.
- **Work placements.** We offer our site for the 320-hour work placement that Costa Rica's technical secondary diplomas require.
- **Training for trainers.** Teaching teams can stay on site for courses of several days.

Projects (confirmed only)

- **ECO-MONITOR · Erasmus+ PROPOSAL IN PREPARATION**
Training environmental monitoring technicians in Latin America. Coordinated by Politeknika Txorierrri; ODBT would be the Living Lab and training site in Costa Rica.
- **Bosque Vivo 5G ACCEPTED · 5-9 OCT 2026**
Our idea at the Central American 5G Innovation Hackathon: listening to the forest with sound sensors and artificial intelligence.
- **Lia · AI assistant IN PRODUCTION**
Our own AI assistant serves visitors on WhatsApp, Messenger and email, and handles bookings without human help.
- **More partners in Costa Rica and Honduras IN PREPARATION**
Public institutions, vocational training providers and conservation organisations. Their names will appear here once they confirm.