



AMIT

Instituto de Tecnologia
da Amazônia



OVERVIEW

(APRIL, 2026)

The **Amazon Institute of Technology** (AmIT) is built on the understanding that a conserved Amazon requires a prosperous Amazon, and that global climate stability depends on fair socioeconomic development for the nearly 50 million inhabitants of the Pan-Amazon region, including approximately 2.2 million Indigenous peoples.

The region concentrates around 18% of the planet's freshwater, forests that regulate the global climate, unparalleled biodiversity, and massive carbon stocks. Yet, it faces extreme inequality, underutilization of scientific potential, and fragmented value chains incapable of transforming knowledge into sustainable income, inclusion, and well-being.

The Amazon must be decoded in order to be conserved. AmIT is the translation platform that converts information from the Amazon biome into Nature-Based Solutions (NbS) and scalable businesses, acting on value chain bottlenecks to structure knowledge chains. Its mission is to contribute to sociobioeconomic development and improved quality of life for the Amazonian population, in synergy with the conservation and appreciation of forests and rivers, transforming scientific knowledge and Indigenous wisdom into technological innovation in service of the Amazon and the world.

A light, agile, network-based platform built on **three pillars of integration**:

Pan-Amazonian: The challenges and the biome transcend geopolitical borders. We operate in a Pan-Amazonian manner, articulating a symmetrical network without subordination among the eight countries and the territory of French Guiana, connecting universities, governments, companies, and, most importantly, local stakeholder.

Knowledges: We unite scientific knowledge and people of the forest's knowledge to generate Amazonian innovations with scalability potential and positive impact.

Action: Our purpose is to decode and socialize information. We translate complex scientific data into accessible technology and problem-oriented solutions. We ensure that innovation leaves the laboratories and reaches communities, generating income, quality of life, and protection for all biomes.

AmIT will serve as a global reference in technological innovation, leveraging the information embedded in the Amazon forest to address priority challenges across **five key themes**:



AMAZON
WATERS



URBAN
AMAZON



ALTERED
LANDSCAPES



FORESTS &
SOCIOBIODIVERSITY



SUSTAINABLE
INFRASTRUCTURE

STRATEGIES

- a)** Decentralize science and technology from Amazon state capitals to other municipalities, operating directly in areas of interest with the support of local society, institutions, and highly specialized researchers and technicians focused on problem solving;
- b)** Leverage natural resources as economic alternatives for social inclusion and biome conservation, including the strengthening of value chains with identified markets through the bioindustrialization of a wide range of biodiversity-based products.
- c)** Transform environmental liabilities of degraded and altered areas into environmental assets, according to their edaphoclimatic conditions;
- d)** Propose the implementation and improvement of sustainable infrastructure to address logistical challenges across the Pan-Amazon region;
- e)** Design frameworks for sustainable businesses that position the Pan-Amazon as a global reference in the sociobioeconomy.
- f)** Contribute to public policies for the appropriate use of natural resources in the Amazon.

PROJECTS AND INITIATIVES

Innovation Hubs

Modular distributed manufacturing structures installed near production zones to address regional logistical constraints, enabling at-source industrial processing, reducing intermediaries, and allowing producers far from urban centers to access final markets.

Floating Stations

Mobile research units that use river networks to extend scientific infrastructure to remote regions, serving as vectors of territorial integration and capable of operating across the entire Pan-Amazon. Their purpose is to conduct technical outreach by collecting data *in situ* while democratizing access to technology for inland cities, riverine communities, and Indigenous Peoples.

Citylabs

An initiative designed to establish inland municipalities as demonstration and evaluation environments for technologies related to sanitation, energy, and connectivity. The focus is on adapting engineering solutions to the Amazonian context and validating their technical and operational viability prior to large-scale replication, while generating qualified evidence to support future expansion and scaling.

Courses

Technical and higher education programs (undergraduate and graduate) developed with local institutions and traditional communities, focused on addressing real biome challenges and integrating Amazonian characteristics and cosmovisions into curricula and pedagogical models, with the goal of training professionals to operate technologies and manage Amazon-adapted businesses.

Cyberspace

A digital platform that aggregates and cross-references dispersed scientific data on Amazon biodiversity to model economically viable value chains, reducing information asymmetry and directly connecting scientific knowledge to investors and entrepreneurs.

CONTACT

Prof. Carlos Nobre, PhD

Chair of Climate and Environmental Sciences, University of São Paulo (USP)
Co-President, Science Panel for the Amazon
Planetary Guardian

cnobre.res@gmail.com

+55 12 99666-2758

