

AMIT

AMAZONIA INSTITUTE OF TECHNOLOGY

EXECUTIVE SUMMARY

VERSION 1.2



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OCTOBER 2022

This pre-feasibility study of the creation of an Amazonia Institute of Technology (AmIT) is part of the Amazon Third Way Initiative -Amazonia 4.0 Program, an initiative under the auspices of the Institute of Advanced Studies, the University of São Paulo (<http://www.iea.usp.br/pesquisa/grupos-pesquisa/amazonia-em-transformation-historia-e-perspectivas/amazonia-4.0>), and the NGO Instituto Amazônia 4.0 (www.amazonia4.org). This program has been additionally developing the Amazonia Creative Laboratories and the Amazonia Rainforest Business School.

CONTEXT: CHALLENGES

The Pan-Amazon today has an estimated population of 50 million people, the result of a three-fold growth over the last 40 years. Despite the unrivalled abundance of natural resources, which has been building up for more than 40 million years, the people who live in the Amazon region still have precarious living conditions.



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To date, national and international environmental laws and conservation efforts have failed to reverse deforestation and forest degradation in the Amazon. The revolutionary and unprecedented vision that AmIT proposes is urgent and necessary. The challenge lies in social empowerment, with the maintenance of standing forests and flowing rivers, with restoration and rational use of deforested and degraded areas, to devise new strategies for social inclusion, education, health, personnel training, and income generation.

AmIT: An ambitious and innovative project for a sustainable Amazon

In the early 2020s, a collective understanding began to emerge about the importance of creating a Pan-Amazonian Institute, inspired by the Massachusetts Institute of Technology (MIT), with the premise that knowledge of the Amazon must be based on Science and Technology directed towards innovation to ensure socioeconomic inclusion in the development of the region itself, observing the fundamental precepts of environmental conservation.

MISSION

To contribute to the socio-economic development and improvement of the quality of life of the Amazonian population, in synergy with the conservation and valorization of the forest and rivers, by transforming scientific and traditional knowledge into technological innovation at the service of the Amazon and the world.

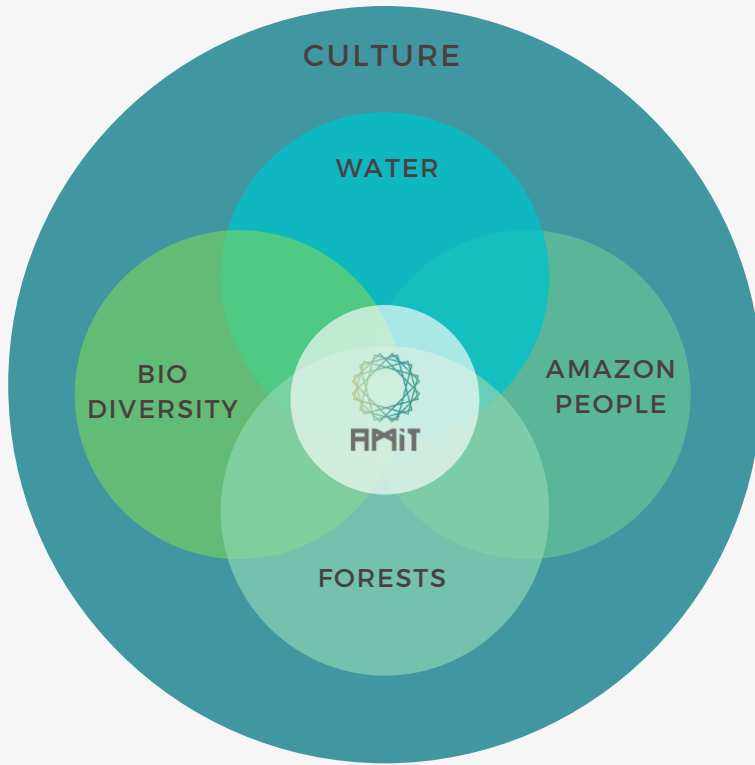
VISION

To be a world reference in education, science, technology, and innovation that effectively promotes sustainable and socially inclusive bioeconomy with environmental conservation, through the use of the information contained in the gargantuan diversity of the terrestrial and aquatic ecosystems of the Amazon forest.



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PILLARS



DIMENSIONS

- Pan-Amazon
- Public-Private Partnership (PPP)
- Engagement of the Federal and State Public Sectors
- Partnerships with Public-Private Technology Clusters
- Active participation of the Amazonian, national and international STI sectors

THE AMAZON RIVER AS AN ARTERY OF KNOWLEDGE

AmIT's operations will be carried out through a unique and unprecedented system in the Amazon: The Amazon River and its tributaries in a context of accessibility, mobility, flexibility and connectivity. AmIT will operate in a constant exchange of local knowledge and innovative technological solutions for the main problems faced by Amazonian society. The fundamental purposes will be the strengthening of value chains in each micro-region, forest and river conservation, social inclusion, and quality of life.



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PROPOSAL STRUCTURE

GENERAL KNOWLEDGE UNIT (GKU)

REGIONAL KNOWLEDGE UNITS (RKUs): located in the Amazon countries and interconnected to the GKU, forming the main nodes of AmIT's action network.



TECHNOLOGY AT THE SERVICE OF SUSTAINABLE DEVELOPMENT

High-Tech units equipped with state-of-the-art laboratories and computer centers.

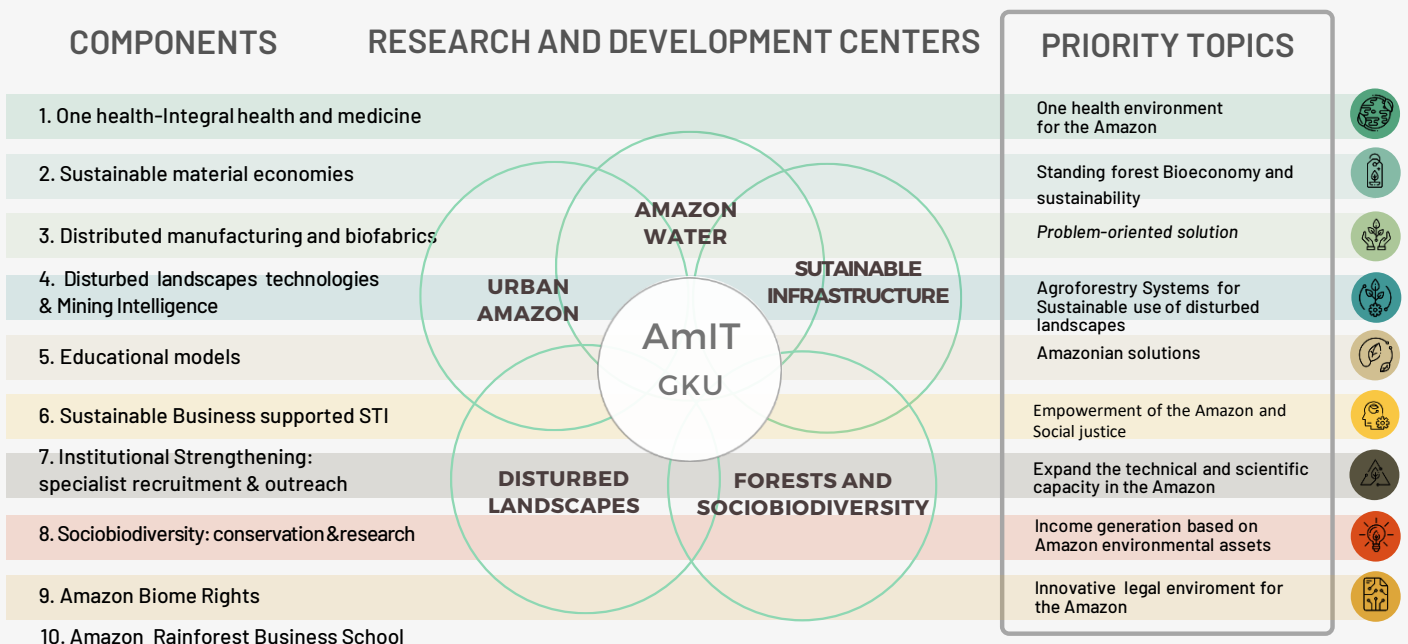


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CHRONOGRAM

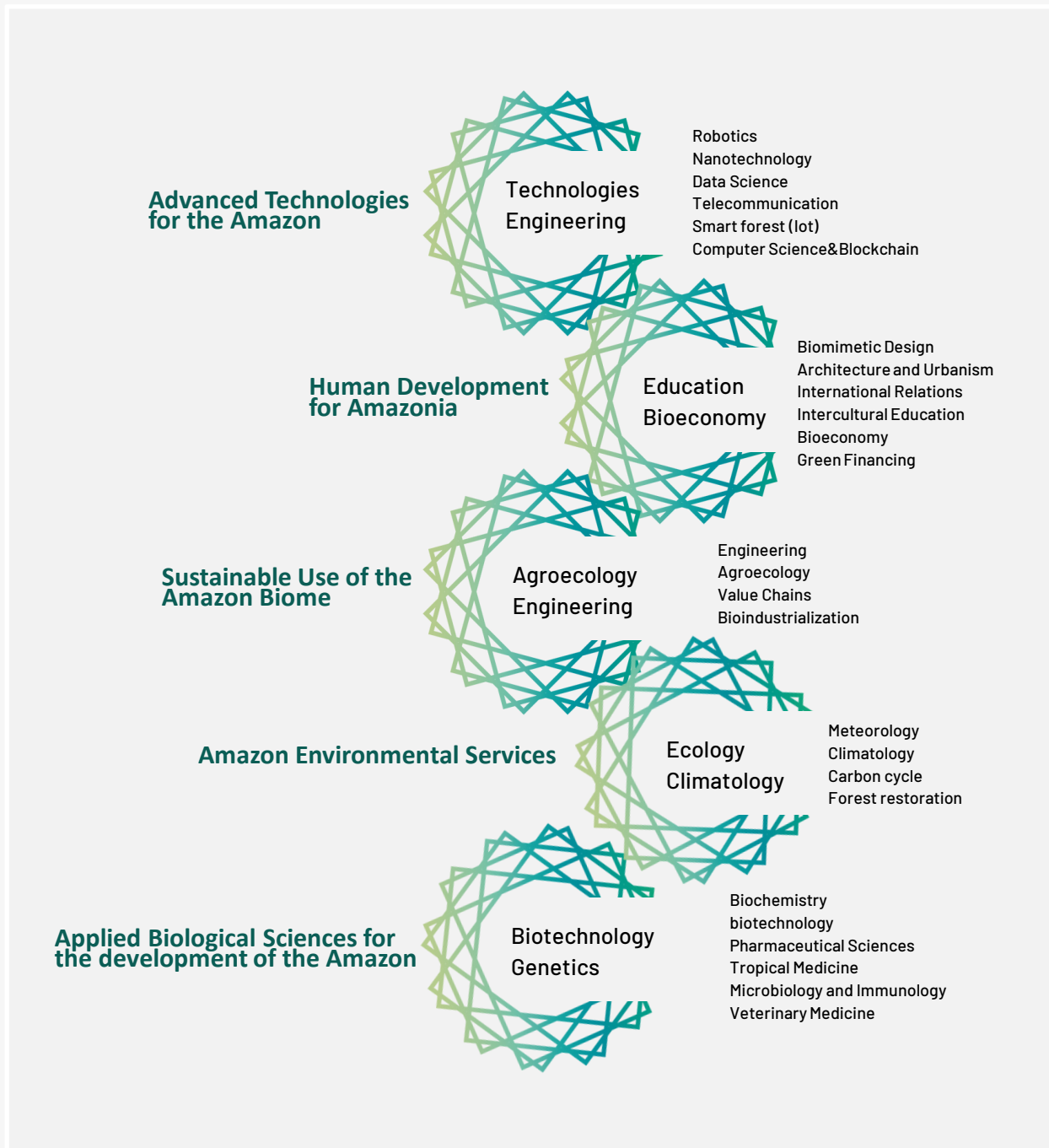
RESEARCH AND DEVELOPMENT CENTERS + COMPONENTS

The **Amazonia Institute of Technology (AmIT)** contemplates the creation of five **Research and Development Centers** dedicated to priority issues and products for the Amazon, which have almost always been neglected, through an innovative and integrative perspective, thus differentiating itself from traditional research institutions. The Centers should work together and across the 10 components of AmIT, including their priorities.

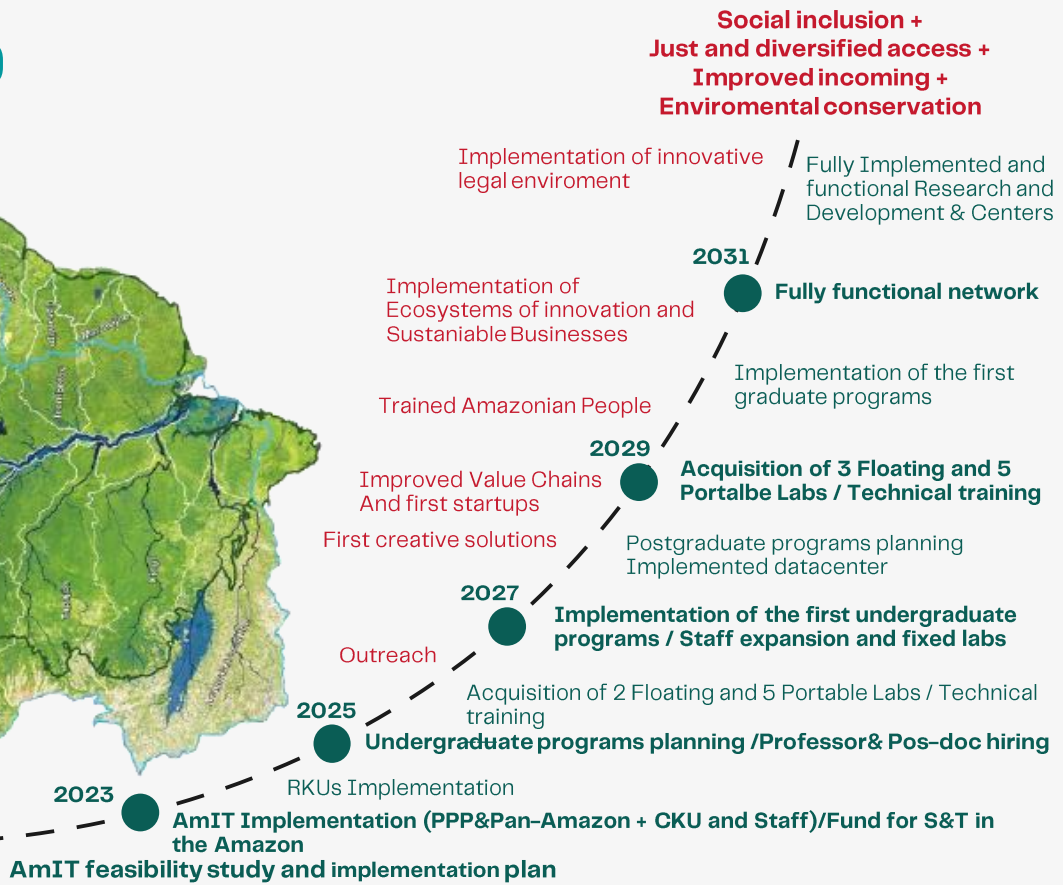
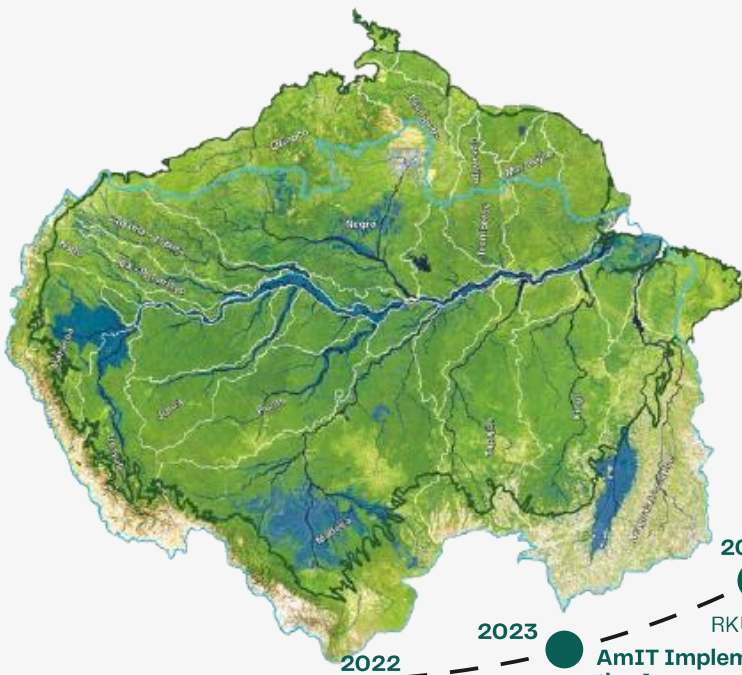


EDUCATION FOR THE PAN-AMAZON

UNDERGRADUATE AND GRADUATE PROGRAMS



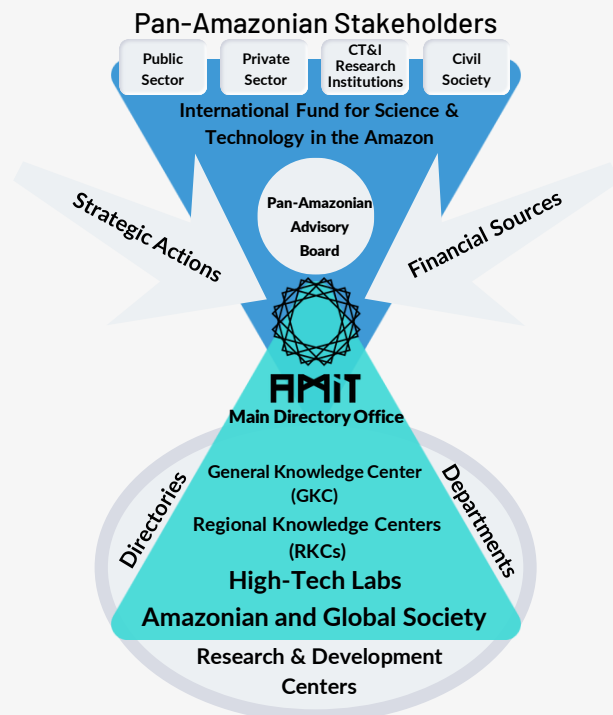
ROAD MAP



GOVERNANCE AND COOPERATION

The AmIT will be a public-private institution with a Pan-Amazon outreach that will include representatives of governments, intergovernmental institutions, universities, research institutes, businesses, other private sector organizations and civil society. Together, they will form the Governing Council of AmIT”.

The Council will guide decision-making, including the application of financial funds. To this end, the creation of an “International Fund for Science and Technology in the Amazon” is foreseen. The application of the financial resources will meet AmIT's mission and vision, directed towards Amazonian society and global perspectives.





FINANCIAL CONSIDERATIONS

FINANCIAL SUPPORT ESTIMATED FOR THE FIRST FIVE YEARS

CATEGORIES	SUBTOTAL (USD)
INVESTMENT	133,967,200
PERSONNEL	31,529,100
TRAVEL & PER DIEM	7,760,000
CONSULTING	19,000,000
RESEARCH & EDUCATION NETWORK	196,850,000
ENDOWMENT	500,000,000
PAN-AMAZONIA PARTNERSHIPS	2,500,000
TOTAL GERAL	891,606,300

IMPACTS OF AMIT IN THE AMAZON

IMPACTS

-  Life quality
-  Environmental sustainability
-  Creative solutions
-  Improvement value chain
-  Reduction of social inequality
-  Qualified professionals
-  Socialization of knowledge
-  Science and entrepreneurship
-  Innovative legal environment



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AmIT proposes to seek creative solutions, involving a holistic and transdisciplinary look at the region's structural problems and sustainable development.

PLANNING (2022-2023): PROGRAMMATIC RESPONSE

- A robust “Amazon Reset Facility” – replenished by carbon offset payments. ESG and other innovative finances.
- A multisectoral and Pan-Amazon mechanism that serves the public, private and third sector, shared by the eight Amazonian countries and one territory, managed by the World Bank and multilateral/bilateral and private sector financiers.

AMAZON RESET FACILITY – ACTION AREAS

AMAZON
WATER

AMAZONIA
RAINFOREST
BUSINESS
SCHOOL

DISTURBED
LANDSCAPES

SUSTAINABLE
INFRA-
STRUCTURE

FORESTS &
SOCIOBIO-
DIVERSITY

URBAN
AMAZON

UNDERPINNING :

AMAZONIA INSTITUTE OF TECHNOLOGY-AMIT

Transformative scientific
collaboration for the Amazon

PROPOSERS



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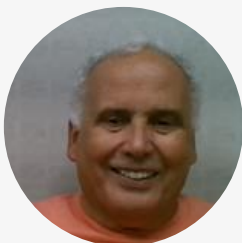


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