ANNUAL REPORT 2024

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Photo: Tony Sebastian (Unsplash)

Reflections on the transition, ecosystem connection between WTT and Avina

Institutional learnings from 2024

In the past year, WTT consolidated its role as a reference in mission-oriented innovation, expanding its presence and impact across different fronts. From innovative technological advances to the articulation of the 5th National Conference on Science, Technology and Innovation, it was a year of growth and transition. To open this annual report, we replaced the traditional management message with a dynamic conversation.

We invited **Gaston Kremer**, WTT's executive director, and **Valeria Scorza**, CEO of Fundación Avina, to reflect on the challenges overcome, the main achievements, and the paths that will guide the organization's future. More than a balance sheet, this is an opportunity to understand how WTT continues to reinvent its mission of transforming science and technology into concrete solutions for a more sustainable world.

What were WTT's main advances in 2024? Was there any achievement that exceeded expectations?

Gaston: The transition from 2023 to 2024 was profound. In terms of leadership, after seven years at WTT, I was invited to assume the executive direction, at a moment when we not only changed who leads, but also reformulated our own objectives. Working in ecosystem, together with Fundación Avina, became central. We strengthened the team and evolved in initiatives for building dynamic capabilities in innovation institutions, in addition to expanding our work in public policies. These advances exceeded our expectations because we not only consolidated what was already underway, but also expanded our strategic role in systemic changes based on science, technology and innovation.

Valeria: The transition was indeed very significant. The main advance, for me, was the clear materialization that WTT and Fundación Avina are part of an ecosystem that promotes systemic transformations. To face today's challenges, we need innovations coming from different places, and Avina has always understood this. The change between 2023 and 2024 strengthened us in this sense: WTT now acts as an organization dedicated to creating enabling conditions for technological transformation.

"Working in ecosystem, together with Fundación Avina, became central. We strengthened the team and evolved in initiatives for building dynamic capabilities in innovation institutions, in addition to expanding our work in public policies"

Gaston Kremer

Our experience in supporting disruptive technologies in the Global South shows us that it is possible to scale solutions in other contexts as well, contributing to a prosperous future, centered on human dignity and care for the planet.

What most challenged the organization in the past year and how did the team deal with these challenges?

Gaston: The challenge was to value intellectual bravery and, at the same time, collectively build new ideas to face challenges in the areas of science, technology and innovation. We worked for inclusive, participatory, transdisciplinary innovation. And this required very specific skills, often not associated with a formal profession or hierarchy. Our greatest learning was to trust that intellectual bravery is built in networks, to open space for error and experiment with new approaches. Active participation in processes like the 5th National Conference on Science and Technology and international spaces, such as the Open Forum of Latin American and Caribbean Sciences (CILAC), was a direct result of this new posture

Valeria: The team is everything. WTT's people build the institution, absorb and shape its DNA. We experienced a beautiful process of leadership transition: Pablo Vagliente, for example, was fundamental in aligning WTT's DNA with Avina's. With Gastón's arrival, who brings this strong capacity for collaboration, WTT consolidated its role within the ecosystem. Today, there is clarity about when to lead, when to collaborate, when to give space. Looking towards 2025, the challenge will be to further enhance this ecosystem logic: knowing that sometimes the action will have WTT's face, sometimes Avina's, but that everything is a collective construction.

Publication "Cua'gü and Innovation", built with indigenous, quilombola and riverside peoples.

If you could highlight a single moment or project that symbolizes the impact in 2024, which would it be and why?

Gaston: In my view, the public policy front was a great symbol. It emerges from our trajectory with innovation in communities and traditional populations, and now applies this learning to the design of public policies. An example of this is the publication "Cua'gü and Innovation", built with indigenous, quilombola and riverside peoples. It compares existing legislation and proposes new paths to integrate science, technology and innovation with active social participation of Traditional Peoples and Communities. It is one of the possibilities of our will to provoke systemic changes taking shape.

Valeria: I wanted to complement by highlighting two points: first, recognizing that science and technology are also born in the peripheries, in the forests and in the communities, and not only in the great academic centers. Second, that balancing power relations allows these groups to sit at the decision table and have their solutions recognized. In 2024, we took this important step: in addition to creating technologies, we began to transform the culture and relations within the innovation system.

What does it mean, in practice, to reaffirm WTT's mission in an increasingly challenging global scenario?

Gaston: Our strengthening as an ecosystem will allow us to act with more force in global agendas. I see two critical fronts: one is scientific philanthropy, which needs to support a more trans and interdisciplinary, inclusive and collaborative science. The other is to integrate science, technology and innovation into the great global conventions — biodiversity, climate, desertification — combating the democratic deficit that still exists. WTT can articulate networks and contribute with solutions more connected to local realities.

Valeria: We live in a world in constant disruption, and WTT has an important role in this context: to illuminate what is urgent and ensure that local solutions can maintain themselves and expand. Philanthropy is crucial in this. Furthermore, the Global South has enormous potential to guide these transformations based on its own values and rhythms. WTT can help project this to the world, bringing new perspectives to the great international discussions.

""(...) science and technology are also born in the peripheries, in the forests and in the communities, and not only in the great academic centers."

Valeria Scorza

What are WTT's big bets for 2025 and what impact does the organization expect to generate in 2025 and how can we measure this progress?

Gaston: It's complex, right? But, looking at the long term, it will be much more. The logic is not just in the number, but in the action process we are building. We have the chance to have a clear impact on public policies aimed at innovation in family farming, which can impact more than 1 million people — although this is still under construction. In addition, I see results on several fronts: dissemination of technologies such as greywater reuse, advances for family farming, the transformation of science and technology institutions and the strengthening of the bioeconomy ecosystem in Pan-Amazonia. We are also focused on expanding our influence in global spaces, such as COP 30 and other conventions. My big bet is to further strengthen network work and consolidate the international scientific philanthropy agenda, bringing more context and new answers to the world we want to build.

Valeria: I hope we can achieve an impact that reaches 1 million people

Event: X Enconasa. Photo: Thaynara Policarpo

What message would you like to leave for those who follow and support WTT's work?

Gaston: Our commitment is to continue deepening collaborations, expanding the democratic possibilities of social participation in the co-production of innovation. In the science, technology and innovation of our countries, right? The message is that we will continue expanding the notions of who the innovators are, who can produce science, and what is essential in this scenario: supporting traditional science agendas so that, in these collaborations, we can transform. So, the invitation is to continue deepening and expanding collaboration.

Valeria: I always end with this message because I am an optimist and also a dreamer. And so, in this dream, I believe that, as essence, WTT also has the mission to invent what has not yet been written and to see what often goes unseen. In this sense, I leave the message that we continue inventing what has not yet been written and we continue observing what no one observes, with this feeling of thinking about how to bring this to the world. Show and create, but also, as an ecosystemic vision, how we see ourselves in this power of being the inventors of the world.

"We will continue expanding the opportunities about who can innovate and what is innovation."

Gaston Kremer

WTT ADVANCES IN 2024

Achievements

- New leadership and ecosystem strengthening with Fundación Avina
- Consolidation of WTT's role in systemic changes via science, technology and innovation
- Expansion of work in public policies and strengthening of innovation institutions

Symbol Project

- Highlight for the publication "Cuagu and Innovation", which proposes public policies with participation of indigenous, quilombola and riverside peoples
- Advancement in valuing science in communities, with balance in power relations

Main Challenges

- Integrate intellectual bravery with collective action
- Expand transdisciplinary, inclusive and experimental approach
- Overcome challenges with an aligned, collaborative team connected to the ecosystem

Mission in Global Context

- Strengthened action in scientific philanthropy and global conventions (climate, biodiversity, etc.)
- Commitment to local solutions connected to Global South realities

BETS FOR 2025

- Impact up to 1 million people, especially via public policies for family farming
- Expansion of technologies such as greywater reuse and strengthening of bioeconomy ecosystem in Pan-Amazonia
- Greater presence in global spaces such as COP 30

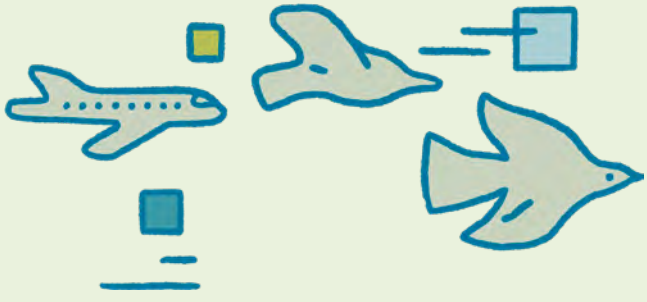


Photo: Tulio Martins

Who We Are and What We Do

World-Transforming Technologies (WTT) is a non-profit organization created in 2012 by Fundación Avina with the mission to promote political and socio-environmental transformations through science, technology and collaborative innovation. Our objective is to enhance the development, experimentation and dissemination of innovations that offer effective responses to socio-environmental problems of our time.

WTT was structured when Fundación Avina found, through an analysis of the impact entrepreneurship ecosystem in Latin America, that there was both a gap in scalable projects capable of receiving investments, and a lack of support for the journey of scientists who were behind innovations with high potential to positively impact society. Based on these two perceptions, Avina created WTT with the mission to bring the world of impact business closer to research and development spaces. Subsequently, the Good Energies Foundation and Brazilian entrepreneur Guilherme Leal joined Avina to strengthen the initiative.

Throughout its history and through a diverse range of Innovation Services, the organization has already developed and executed challenges, mappings, diagnostics, project management, strategy designs, among other contributions in partnership with civil society organizations, multilateral agencies and inter-governmental organizations. The year 2024 was marked by important advances for WTT, with strategic partnerships that positioned the organization to become a key actor in the Global South in the context of science, technology and innovation (ST&I). We managed to connect traditional knowledge and innovations, developing more sustainable solutions that are attentive to community needs. The work carried out throughout the year strengthened WTT's three priority programs, paving the way for even more impactful actions in 2025.

Team

GASTON KREMER

Executive Director

Gaston Kremer holds a degree in International Relations and is a specialist in Innovation Management from UFRGS. He conducted studies in technology ethics and governance, climate finance and sustainable energy, and international cooperation. His trajectory connects mission-oriented innovation, social participation and financing for sustainable transitions, with experience in territorial-based projects in the Amazon, in the Brazilian Semi-arid and in African and Latin American countries.

LARA RAMOS

Programs and Public Policy Coordinator

PhD candidate and master's in Science and Technology Policy from UNICAMP, and graduated in Environmental Engineering from USP. Researcher and consultant in "Science, Technology and Environment" themes, with experience in public policy analysis, construction and operation of innovation arrangements, implementation of participatory methodologies, articulation with governmental and non-governmental actors, and project management in the public and third sectors. Previous experiences include Government of Maranhão, ICMBIO, UNESCO and IDB.

MARIA ANGÉLICA JUNG MARQUES

Science, Technology and Innovation Manager

Agricultural engineer and master's in Animal Science from UFRGS, she holds a PhD in Knowledge Engineering and Management from UFSC with Pos-t-doctorate in Human Factors and Resilience from PUCRS. She was director of Sustainable Economic Development of the Municipal Secretariat of Science, Technology and Sustainable Economic Development of Florianópolis, Executive Director of the Reference Center in Innovation Environments of CERTI Foundation and Manager of Science, Technology and Innovation of Itaipu Technology Park. She has experience in the areas of Development of Innovation Mechanisms and Environments, with emphasis on innovation ecosystems, strategic planning, innovation and co-production

RENATA BUELONI

Science, Technology and Innovation Manager

Pharmaceutical-Biochemist graduated from UNESP, with MBA in Innovation Management from the business school Fundação Instituto de Administração (FIA-SP). She worked for 14 years in the private sector at Natura Cosmetics company in the positions of Scientific Manager and Innovation Manager, focusing on Research, Development and Innovation management in Bioeconomy themes with emphasis on technological competencies of Green Chemistry and Biotechnology for adding value to Brazilian sociobiodiversity inputs, especially Amazonian ones. She has experience in technological and strategic planning, global scouting of innovation ecosystems working in mapping key actors who seek sustainable innovation models. Pipeline and multidisciplinary project management promoting strategic partnerships with companies and startups to strengthen the implementation of innovative technologies in strategic territories. Experience in promoting dialogues between researchers and companies to structure collaborative innovation models.

RAFAEL SOARES

Science, Technology and Innovation Manager

Master's in Electrical Engineering from UnB with post-graduation in Financial Management from FGV. He worked in the public sector with the Ministry of Science, Technology and Innovation and with multilateral organization projects with the Inter-American Development Bank. He has experience in project, program and portfolio management in the areas of technology, innovation, infrastructure and sustainable development, with emphasis on team leadership, risk management and process optimization.

CRISTIANE ODA

Administration and Finance

Cristiane holds a degree in Accounting Sciences (State University of Londrina) and Law (Unibrasil), Post-Graduate in Accounting Management, Auditing and Finance (Inbrape). She has 12 years of experience at PUC/PR in managing national and international projects, working in the accounting, financial, administrative, fiscal and accountability areas. She acts as responsible for the administrative, financial and legal part of Fundación Avina entities in Brazil and WTT.

MARIANA BRIMDJAM

Communication Analyst

Marketing specialist, graduated from the Federal University of Rio Grande do Norte, with extensive experience in communication project management in the public and private sectors. She worked as Communication Coordinator at the São Paulo City Council, leading projects focused on advocacy, politics and territories. She has solid experience in content production, popular communication and digital mobilization, with emphasis on strategies that promote community engagement, social transformation and diversity.

MARIANA DA FONSECA

Junior Public Policy Consultant

Master's and graduate in Political Science from UFPE — Federal University of Pernambuco, with studies that aim to improve understanding about formulation, implementation and dismantling processes of the Food Acquisition Program (PAA) between 2003 and 2022. She contributes to social inclusion through participatory and innovative public policies, with an intersectoral and data-oriented vision for solving complex problems. She has experience in public policies in the areas of Youth and Science, Technology and Innovation, having worked at the Executive Secretariat of Youth of Recife and at the Secretariat of Science, Technology and Innovation of Pernambuco. She also works as a social educator and evaluator of social impact projects.

Photo: Tulio Martins

2024 Impacts: An Overview

Technologies Program

Photos: WTT collection

PROJECT

BIOPLASTIC

Arrangement with the Association of Agroextractivist Producers of Colônia do Sardinha (ASPACS)

370 direct beneficiaries

05 partner institutions

State University of Amazonas (UEA), Federal University of Viçosa (UFV), Federal University of Paraná (UFPR), Institute for Conservation and Sustainable Development of the Amazon (IDESAM) and the TutiPlast industry established in the Manaus Free Zone.

PROJECT

BIOFILM

Arrangement with National Institute of the Semi-arid (INSA), UFCG (Federal University of Campina Grande) and Social Impact Incubator (IACOC) of the Paraíba Technology Park Foundation.

02 partner teaching and research institutions

Participation of the Fonte do Sabor cooperative for initial technology testing.

Photo: WTT archive

PROJECT

REUSE

Arrangement with National Institute of the Semi-arid (INSA), Paraíba Technology Park Foundation (PaqTcPB) and Federal Rural University of Pernambuco (UFRPE).

40 direct beneficiaries

02 teaching and research institutions

09 participating families

Rural settlements and quilombos, in the state of Paraíba, represented by the Program for Application of Appropriate Technologies to Communities (PATAC); Cultural Action Center (CENTRAC); Agreste Leadership Forum (FOLIA); AS-PTA Agroecology, Borborema Pole (POLO) Regional Collective of Family Agriculture Organizations (COLETIVO).

Photo: **Tulio Martins/WTT archive**

Photo: **WTT archive**

PROJECT

PLANTER

Arrangement with startup LiveFarm Agro. A Family and Solidarity Agriculture initiative, Community Supported Agriculture - CSA.

05 partnerships

:CSA, Flor de Lótus; Cerrado Seeds Network (RSC), Invento Institute and Verde Novo Sementes.

PROJECT

BRAZIL NUT TRACEABILITY

Arrangement with startup Agrosmart and Association of Agricultural Producers of Beruri (ASSOAB) and technology validation in 1 community.

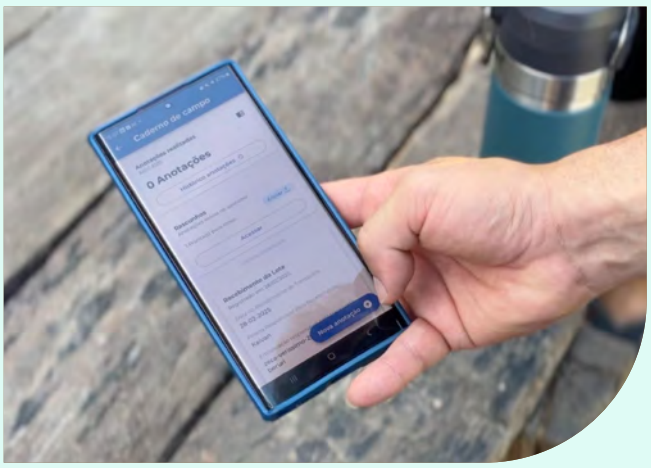
67

benefited agroextractivists

268

indirect beneficiaries

Communities Uauaçú, Uixí and Villages Makauã and Joarí located in the municipality of Beruri/AM.



Photos: WTT archive

Capacities Program

Photos: WTT archive

50

participants

in the Sociobioeconomy Center workshops

30

partners involved

Producer associations, producer network, agroextractivists, indigenous, rural workers union, universities (UFPA, Emilio Goeldi Museum, and IFPA), 3rd sector organizations (ITV, ISA, TNC, GIZ, OCA), Sebrae, Government of the state of Pará (SEMAS), and companies (Natura, Sambazon, 100% Amazonia) in 2 workshops

WEBINAR

Partnership with ITV (Vale Technological Institute)

328 DIRECT BENEFICIARIES

120 WEBINAR PARTICIPANTS

4 MOBILIZED ORGANIZATIONS — TV, Vale, PUCRS and UFPA

Policies
Program

Photos: WTT archive

23 national and international events
with WTT participation

05 events held
for debate and political incidence

350 public and private partner institutions

National Events:

- Realization of the 1st Brazilian Forum on Mission-oriented Innovation: 90 participants representing government, civil society, academia and companies, without direct beneficiaries
- Realization of 3 Free Conferences within the scope of the 5th National Conference on Science, Technology and Innovation: 242 mobilized public and private institutions; without direct beneficiaries
- Realization of the Workshop on Traditional Knowledge at the 76th Annual Meeting of the Brazilian Society for the Progress of Science: support for 20 representatives of social organizations working in traditional territory contexts for participation in the workshop and SBPC programming

International Events:

- Participation in the 2nd Conference of ILACCT - Latin American and Caribbean Initiative of Science and Technology to Combat Desertification: 20 mobilized public and private institutions
- Participation in the G20 Social Summit: 05 mobilized public and private institutions; 01 ENEI representative supported for participation in the event
- Participation in COP-16: launch and delivery of the publication "Cua'gü and Innovation" to 100 representatives of government, civil society, academia and companies

Publications and other productions:

- Realization of collective production of the publication "Cua'gü and Innovation"
- 04 audiovisual productions about traditional knowledge, reaching more than 5000 views on social networks
- 04 audiovisual productions about social participation and ST&I public policies, reaching more than 3000 views on social networks
- Support for the XI National Meeting of Indigenous Students (ENEI): financial support for the event realization, directly benefiting 800 students from 124 peoples
- Launch and delivery of the publication "Strengthening Social Participation" to 150 representatives of government, civil society, academia and companies

Main events of 2024

24 participations in events

INTERNATIONAL

- Smart City (AR)
- Southern Cone Mission-Oriented Innovation Forum (UY)
- Avina Foundation Plenary (CL)
- COP16 (CO)
- IDB Lab Forum (AR)
- Cilac Forum 2024

NATIONAL

- I Brazilian Forum on Climate Finance (SP)
- State ST&I Conferences (SP and RS)
- Thematic Conference Science and Technology for Social Development (RJ)
- 76th SBPC meeting (PA)
- 2nd In-person Meeting of the Sociobiodiversity Economies Observatory(BSB)
- C20 (PE)
- Rural Sanitation Seminar of the Brazilian Semi-arid Articulation (RN)
- G20 (RJ)
- Enconasa (PB)
- Free Conference "Science, Technology and Innovation for the Ecological Transformation of Agrifood Systems"
- Free Conference "Mission-Oriented Innovation"
- Preparatory seminar for 2nd ILACCT Conference - Latin American and Caribbean Initiative of Science and Technology to Combat Desertification (PB)
- IDB Invest Sustainability Week (AM)
- Latin American Journey of Social Studies of Science and Technology (SP)
- 5th National Conference on Science, Technology and Innovation (5th CNCTI)
- Greywater Reuse Meeting (PB)
- Free Conference on Sociobio

Finance and Transparency

WTT's financial mobilization considers both programmatic contribution and third-party mobilization. A return in social impact is expected from both. On one hand, in the period 2022-2024, the programmatic contribution was USD 963,704, distributed in social investment (funds that WTT grants to develop programmatic actions within prioritized institutional programs) and programmatic implementation (programmatic actions carried out directly by WTT's team). On the other hand, during these three years, the mobilization of third parties as counterparts and leverages that, with WTT's direct support, were channeled from other financing institutions to the organizations and initiatives of our partners, totaled USD 772,359. Total: USD 1,736,063.

WTT FINANCIERS 2024

Fundación Avina, Instituto Ibirapitanga, Instituto Clima e Sociedade, Porticus, CLUA, Instituto Arapyaú, Vale Association for Sustainable Development and Brazilian Foundation for Sustainable Development

Total financial mobilization

R$ 8.872.741

(Value from 2022-2024)

New revenues per year

FINANCIAL MOBILIZATION	2022	2023	2024	TOTAL
Social investment	R$ 622.221	R$ 679.764	R$ 1.043.756	R$ 2.345.741
Programmatic implementation	R$ 586.207	R$ 1.133.266	R$ 1.625.286	R$ 3.344.759
Third-party mobilization	R$ 1.000.000	R$ 2.182.241	-	R$ 3.182.241
Total mobilized	R$ 2.208.428	R$ 3.995.271	R$ 2.669.042	R$ 8.872.741
WTT Administration	R$ 117.605	R$ 193.184	R$ 449.532	R$ 760.321

Photo: WTT archive

Programs

New Technologies

The New Technologies program focuses on promoting innovation by mobilizing the country's science and technology assets, to respond to and overcome the great socio-environmental challenges of our time, enabling collaborative innovative solutions with impact. WTT directs its work from the Innovation Orchestration Center (IOC) using its mission-oriented science methodology orchestrating collaborative innovation arrangements through a set of indicators organized in three main pillars: scientific excellence, connectivity and diversity. WTT believes that adopting the open innovation model, uniquely combining different expertise and institutions, together with the co-production model of innovative technologies, is the path to develop solutions for agenda challenges in which the organization concentrates its efforts, including regenerative agriculture, bioeconomy and rural sanitation.

In 2024, WTT's IOC consolidated strategic alliances with Porticus, iCS, CLUA and JBS Fund for the Amazon, enabling important advances in the projects developed during the year. The Reuse project played a strategic role, promoting the installation of greywater double filtration systems in six locations in Paraíba, directly benefiting 40 people from nine families in rural settlements and quilombos. In addition to delivering the systems, four training workshops on rural sanitation were held, strengthening the knowledge of the families served. The project presents potential for integration into public policies, already being incorporated into the Rural Sanitation Program for the Semi-arid proposed by ASA.

Another project completed in 2024 was Bioplastic, which achieved the production of a partially biodegradable biopolymer and advanced in the 100% biodegradable version from the use of Brazil nut husks, adding value to a previously discarded by-product. Among the achievements, the contract signed between Tutiplast industry and ASPACS, in Lábrea (AM), for the supply of 36 tons of husk powder stands out, which represented a 60% increase in the association's income. The project also delivered an economic viability guide for the husk chain in partnership with IDESAM.

Based on the Science, Technology and Innovation in the Semi-arid study, two other projects were conducted. The first, focused on developing a biofilm to increase fruit shelf life, managed to extend conservation time by up to eight days in bench tests. However, technical challenges related to microbiological stability and viability of small-scale application led to the decision not to proceed with prototype scalability at this time, with research continuity being planned by INSA for a Finep call.

ADVANCE

BIOPLASTIC PROJECT

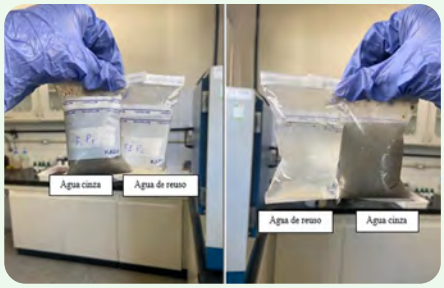
Advance to 100% biodegradable biopolymer

Use of Brazil nut husks to form bioplastic. Photo: WTT Archive

ADVANCE

REUSE PROJECT

Implementation of greywater double filtration systems in six locations in Paraíba



Gray water and reused water. Photo: WTT archive

ADVANCE

BIOFILME PROJECT

Increase in conservation time up to eight days in bench tests

Photo: WTT archive

The second project, focused on promoting resilient family farming, achieved the evolution of a three-line mechanized modular planter prototype, more compact and efficient. The technology advanced from TRL 3 level to TRL 7 and will now be incorporated into a new project with Finep support for its consolidation and expanded use.

In the bioeconomy field, WTT also completed the Brazil Nut Traceability project, developed in partnership with Agrosmart and the Agro-extractivist Association of Beruri (ASSOAB). The project made available a customized application and dashboard to systematize data on sustainable management practices, allowing traceability from collection to processing. Face-to-face training workshops and a final field validation were held in the communities of Uixí, Uauaçú, Makauã and Joarí, directly benefiting 67 agroextractivists and indirectly impacting 268 people. The initiative opens the way for the valorization of certifications such as Organic Brazil, USDA and Fair Trade, and the technology will be disseminated in 2025 at a traders' fair, with potential for expansion to new communities in the next harvest.

With these deliveries, WTT consolidated its work in 2024 in strengthening innovative solutions with direct impact on traditional communities, adding value to local productive chains and expanding the integration of social and digital technologies for promoting environmental conservation and sustainable development.

ADVANCE

PLANTER PROJECT

Evolution of the Planter prototype

First version presented to the Ivento team

Second version tested at FAL-Unb

Third version tested at CSA Flor de Lótus. Photos: WTT archive

ADVANCE

BRAZIL NUT TRACEABILITY PROJECT

Aplicativo para sistematizar dados de práticas de manejo sustentável da castanha

Photo: WTT archive

New Capacities

ITV - Workshop at the Vale Technological Institute.
Photo: WTT archive

The New Capacities Program focuses on working with other organizations to, based on science, technology and innovation, stimulate processes of development and activation of organizational capacities. In this program, WTT collaborates with organizations in internal processes, always contextualized, in designing solutions that strengthen these organizations' dynamic capacities in innovation and co-production. To this end, tools, methods, experimentation spaces and knowledge systems are made available and co-created in order to develop and activate innovative and co-productive capacities.

WTT believes that science and technology co-produced with traditional knowledge is capable of promoting the development of innovative and sustainable solutions. And that the strengthening and activation of capacities of ST&I organizations directed by local collective challenges and missions can make all the difference.

In this context, the year 2024 marked important advances with Amazon S&T organizations with WTT's direct collaboration. Aligned with its institutional mission to promote collaborative innovations to overcome socio-environmental challenges, WTT concentrated its actions on two fronts: (i) development of dynamic capacities for innovation and implementation of innovation journey focused on bioeconomy based on missions for ITV; and (ii) experimentation of knowledge co-production and transdisciplinarity methodologies as a process of mobilization and intersectoral dialogue with traditional communities and the ST&I network, resulting in a proposal for operation of the Pará Sociobioeconomy Center.

Leadership formation and strengthening of local and global communities

Knowledge sharing is vital for innovativeness, and collaborative innovation is fundamental in the context of new models and solutions that meet social, economic and environmental demands. In this context, leaders are the true agents of change, transforming organizational ideas and visions into reality, creating bonds and motivating people. By creating a co-production culture, which seeks the sharing and integration of scientific and traditional knowledge, opportunities are opened for promoting learning and transformative innovation.

Courses, events and laboratories

The program has developed mechanisms to promote and develop repertoire in the themes of mission-oriented innovation and knowledge co-production. These mechanisms can be quick courses, seminars and webinars for awareness on the themes or experiential learning and reflection spaces in the format of workshops and laboratories. Experiential learning is a process in which knowledge is created by transforming experience.

WTT's practical experiences in creating these spaces have demonstrated the need to create increasingly more spaces for social participation, providing meetings, idea exchanges and debates, as well as sharing the evolution of activities and results of projects that effectively act as "bridges" integrating ST&I with traditional knowledge and wisdom.

Osociobio Center.
Photo: WTT Archive

New Policies

Free Conferences at 5CNCTI. Photo: MCTI archive

The New Policies Program has as central objectives the engagement of actors and the strengthening of national and international ST&I public policies. For this, it works on two major work fronts: (i) Learning Networks and (ii) Scientific and Technological Policy Observatory. Learning Networks encompass a set of actions to boost social participation in ST&I, such as conducting training workshops, learning trails, webinar cycles, promotion of national and international events, and technical studies of practice communities. The Scientific and Technological Policy Observatory, in a maturation phase, builds analyses, studies and publications for a broad audience.

In 2024, the highlights were the mobilization around the 5th National ST&I Conference, participation in the G20 Social Summit and COP-16 on Biodiversity, and progress in structuring Technical Cooperation Agreements with the Brazilian Agricultural Research Corporation (Embrapa) and with the Center for Strategic Management and Studies (CGEE). In these spaces and actions, WTT was consolidating its work with governmental and non-governmental actors, in continuity of the mobilization work developed during the 1st Mission-Oriented Innovation Forum.

Social participation and the 5th National ST&I Conference

In the conference's preparatory stage, which occurred between December 2023 and May 2024, there were more than 200 debate spaces throughout the country - separated into regional, thematic and free conferences. The free conference mechanism was unprecedented in this edition, with the objective of strengthening

the participation of actors who historically did not participate in national debates on scientific and technological policy. In this context, WTT mobilized efforts to build three free conferences, engaging 242 public and private institutions and collectively building 55 recommendations for the four axes of the National ST&I Strategy.

During the national conference, WTT participated in the Special Session "Free Conferences in the 5th CNCTI", in which Lara Ramos – Programs and Public Policy coordinator - presented the main recommendations built collectively and positioned the importance of continuing social participation spaces post-conference.

The fruits of these collective constructions and participation in the 5th CNCTI were varied, and the construction of a Technical Cooperation Agreement with the Center for Strategic Management and Studies (CGEE) for strengthening social participation at the national level stands out. The Agreement was signed at the end of 2024, and 2025 actions are already being planned in partnership with CGEE and the Ministry of Science, Technology and Innovation (MCTI).

Impact on public policies and intersectoral dialogue

In addition to contributions to explicit Science, Technology and Innovation public policy, WTT has been working with sectoral policies, such as food and nutritional security policy, and socio-environmental and climate policy. The choice of the food security agenda is justified, in the Brazilian scenario, by the governmental priority of combating hunger and the integrated action of allies in this agenda.

In this sense, the development of a work plan for Technical Cooperation Agreement with the Brazilian Agricultural Research Corporation (Embrapa) stands out, with the objective of proposing strategies and mechanisms for ecological transformation in agri-food systems based on Science, Technology and Innovation (ST&I). Specific objectives are: to stimulate, map and strengthen co-creation and co-production processes of socio-tech-

Participation in the G20 Social Summit and COP-16 on Biodiversity. Photo: WTT archive

nical solutions in territories, recognizing the different innovative niches and making their actions systemic, connecting them with the National Innovation System (NIS).

Participation in the G20 Social Summit and COP-16 on Biodiversity

Within the scope of the international socio-environmental and climate agenda, participation in the G20 Social Summit and COP-16 on Biodiversity stand out. At the Social Summit, WTT and Cipó Platform conducted an activity with the objective of integrating dialogue between ST&I, Sociobioeconomy and Climate. Among more than 850 proposals received, the activity stood out for its focus on valuing traditional knowledge and for the participation of relevant actors such as representatives of the National Council of Extractive Populations, Amazon Concertation, and Climate Change Coalition.

At COP-16 on Biodiversity, which took place in the city of Cali in October and November 2024, WTT marked its presence with the launch of the publication “Cua’gu and Innovation”. The central objective of participation was to monitor debates around strengthening integration between scientific, traditional and local knowledge. This monitoring continues in 2025, with another initiative with Cipó Platform: with a defined path for the coming months, the two institutions will work with research conduction and knowledge production, and political incidence towards COP30.

From top to bottom: Free conference; COP 16. Photo: WTT archive

Publications

Policy Briefing I

The policy brief "Strengthening Social Participation", resulting from the process of building free conferences and participation in the 5th National ST&I Conference, gathers relevant contributions for the four axes of the National Strategy, and aims to serve as reference material for the continuity of participatory monitoring and social control spaces in ST&I themes. It is a special publication, built in partnership with various organizations, addressing specific topics of Sociobiodiversity, Agri-food Systems and Mission-Oriented Innovation agendas.

Partner institutions: MCTI, MDA, Ministry of Finance, MAPA, Paraense Emilio Goeldi Museum, Brazil Nut Observatory, Sociobiodiversity Economies Observatory, Pirarucu Collective, Fundación Avina, DPCT-Unicamp, CNI, CONFAP, EMBRAPA and ABA.

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Policy Briefing II

Cua'gü and Innovation: Connecting Knowledge and Transforming Realities. The publication highlights the importance of valuing traditional knowledge in Brazil and the challenges faced for its full integration into the National Science, Technology and Innovation System (SNCTI). Built collaboratively with indigenous, quilombola, extractivist leaders and researchers, strategic recommendations are presented to ensure that this knowledge is recognized as fundamental in building innovative and sustainable solutions.

Partner institutions: Terena People Council, Extractive Populations Council, Lowlands COP, Fundación Avina, Mancala Institute, Society, Population and Nature Institute, MMA, Paraense Emilio Goeldi Museum, Sociobiodiversity Economies Observatory, Free, Prior and Informed Consultation and Consent Protocols Observatory, and Amazon Brazil Nut Observatory.

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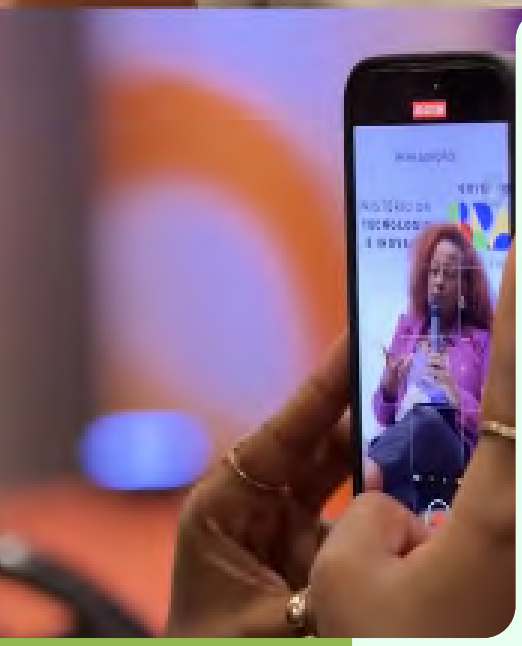

Innovation and Communication

In 2024, WTT's communication registered significant advances, with strong growth on the main digital platforms. On Instagram, reach increased from 7,569 to 23,143 users, driven by collaborative content and strategic actions. On LinkedIn, the follower community grew from 1,836 to 2,204, reinforcing WTT's positioning with specialized audiences. The organization's website also showed excellent performance, surpassing the mark of 75 thousand impressions and registering 2,500 active users, with a number of publication downloads that tripled compared to the beginning of the year.

Special communication highlight for WTT's action in inviting two young communicators to cover the 5th National Conference on Science, Technology and Innovation (5CNCTI), a space historically little occupied by youth. The partnership with Engajamundo also boosted engagement, with the production of four reels that expanded WTT's presence and reach on networks during the event.

Photo: Tulio Martins

Perspectives for 2025

We close this 2024 cycle with the certainty that WTT's work, strengthened by Fundación Avina's ecosystem, will continue driving concrete transformations through Science, Technology and Innovation. In 2025, our focus will be on consolidating the impact of our programs: we will advance in the dissemination of greywater reuse technologies in the semi-arid through public policies, expand innovation financing aimed at solutions that benefit family farmers and extractivists, and deepen the strengthening of dynamic capacities of ICTs in Pan-Amazonia, both individually and in regional networks. On the policy front, in addition to contributing to strategic frameworks in the National Innovation System, we will expand our international presence in spaces such as biodiversity and desertification conventions and COP30. We will also continue betting on the articulation of international scientific philanthropy networks committed to applied impact research and co-production of transformative innovations.

We invite our current and future partners to join this movement, renewing their support for WTT and joining forces to expand the resources and ambition of a collaborative, ethical and transformative science.

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