

Inria Brasil

A PARTNERSHIP WITH LNCC AND BEYOND



Patrick Valduriez

Inria



<https://project.inria.fr/inriabrasil>

The Partnership





- National Institute for Research in Digital Science and Technology
 - Created in 1967, as part of the "Plan Calcul"
 - 3800 researchers, 220 project teams
 - 230 startups since 1984
 - 10 centers, joint with major French universities



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- Joint agreement with LNCC
 - Signed with MCTI in April 2023
- And beyond
 - A hub to partner universities



Universidade Federal Fluminense

UNICAMP

PUC Minas

Universidade Católica de Brasília

UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

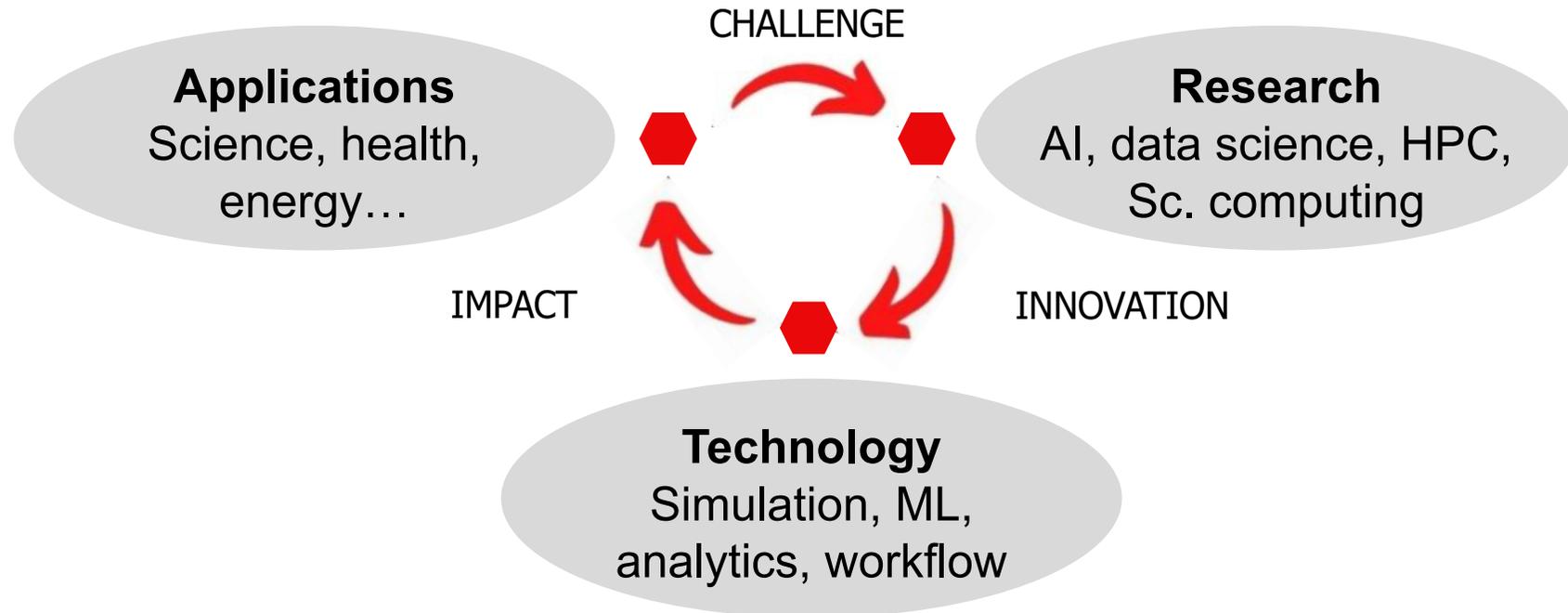
UNIVERSIDADE FEDERAL DO RIO GRANDE DO NORTE



Scientific directors: Patrick Valduriez (Inria), Frédéric Valentin (LNCC)
Partnership officers: Claire Saint-Léger (Inria), Anmily Paula Martins (LNCC)

Inria Brasil: objective

- High-quality, impactful research
 - In AI, data science, HPC and scientific computing
 - To address the challenges of complex applications
 - And create innovative technology



Collaboration Opportunities

- **New Brazilian plan for AI (2024-2028)**
 - \$5 Billion to turn the country into a world reference in the use of AI
 - 60% for innovation in the private sector
 - A new supercomputer for AI at LNCC
 - Santos Dumont supercomputer (from Atos Eviden)
 - The fastest in Latin America dedicated to scientific research
 - 90th in the TOP 500 ranking
- **France-Brazil strategic partnership**
 - New action plan (March 2024) in AI, HPC, cybersecurity, innovation in technology and agriculture
 - COMIX (Sept. 2024): new joint calls ANR-CNPq



Inria Associate Teams

- Program

- Annual call for international research projects
- Funding (about €30.000 from Inria) for 3 years
 - Additional funding should be secured by international partner

- Ongoing projects (2025)

- 9 associated teams

- Inria: Atlantis, AT-Sop AE, Camin, Coati, Iroko, Kopernic, Tadaam, Taran, Veridis
- Brasil: CEFET-RJ (1), LNCC (2), Unicamp (1), UFB (1), UFMG (2), UFC (1), UFRGS (1)

- Keywords

- Data science; photonics & deep learning; HPC & urban floods; cyber physical systems; human–computer interaction & handicap; HPC & energy efficiency; proof certification; graphs & telecommunication networks; large transformer models

AMSUD



- 2-year projects involving at least one team in France and 2 teams in South-America
- Ongoing projects (2025) - **Inria Brasil**
 - 2 MATH AmSud projects
 - 5 STIC AmSud projects



Inria Brasil Workshops

- **IBW, 2023**
 - São Paulo 10-11 April, with USP
 - 50 participants
 - Industry: Atos, FrenchTech Brazil, Stellantis
 - Petropolis 12-14 April, with LNCC and UFRJ
 - 80 participants
 - Industry: Atos, Orange, Petrobras, Serratec, Total
- **IBW 2025, Sept. 2025 (online)**
- **Thematic hybrid workshops**
 1. Energy and digital science, PUC Rio, Dec. 2023
 2. AI and applications, LNCC, April 2024
 3. Digital agriculture, Inria Montpellier, Sept. 2024
 - With CIRAD, INRAE, IRD and ESALq (USP)
 4. **Digital health, Unicamp, Campinas, April 2025**
 - **With Fiocruz and INSERM**

Success Stories



Academic Research (since 2020)

- 16 Inria associate teams
- 3 Inria international chairs
 - Frédéric Valentin, LNCC (2018-2022)
 - Eduardo Barbosa, UFF (2023-2027)
 - Fabio Porto, LNCC (2024-2028)
- 15 CLIMAT, STIC & MATH AmSud projects
- 2 postdocs
- 216 joint publications Inria Brasil

Winner (top 4) of Xprize Rain Forest



- The Brazilian Team (ESALQ, Pl@ntNet, et al)
 - Gathers biologists, ecologists, economists, engineers, computer scientists and mathematicians from Brazil, Colombia, France, Germany, Spain, Portugal, UK, USA

Research with Industry



- **HPC4e BR-EU 2015-2017**
 - BR: ITA, LNCC, UFRGS, UFRJ, UFP, Petrobras, IBM Brazil
 - EU: BSC, Inria, Lancaster Univ, CIEMAT, Repsol, Total
 - Strong results in Exascale computing, geophysics and data science, with technology transfer to industrial partners
- **RISC2 EU-LATAM 2021-2023**
 - Coordination network for HPC with BSC and 8 European HPC actors, including Inria and Atos Eviden, and the main LATAM HPC actors, including LNCC
 - Delivered a roadmap to foster cooperation in HPC between EU and LATAM
- **Provlake (Inria, UFRJ, IBM Brazil)**
 - A data management system across distributed services, databases and workflows by leveraging provenance data
 - <https://ibm.biz/provlake>: used by IBM for their clients



Hints to Get Started

- **Motivation**
 - Make sure it is very strong as it requires a big investment in time and money
 - Traveling is not enough
- **Identification of the partner team**
 - Should match your research interest, with high-quality and complementarity
 - Search at <https://www.inria.fr/en/list-of-project-teams>
- **Contact of the partner team**
 - Ideally in person at a workshop or conference, or by email to start the discussion
- **Creating a trustful relationship takes time**
 - The best way is to start doing some focused joint work, ideally through master or PhD students
 - Student exchange (internship, sandwich) helps a lot
- **Once all this is done, then apply for joint funding**
 - AmSud project, Inria associate team, ...

Inria Alumni

- Network of current and former Inria members
 - Exchange, support, and sharing of information
 - Groups (per Inria center, country...)
- A newsletter every 2 months
 - For registred members
- Links
 - www.inria-alumni.fr
 - <https://www.linkedin.com/in/inria-alumni-assoc-38956697/>
 - <https://www.linkedin.com/groups/83234/>
- Contact for international alumni
 - Charlotte.Peyrat-Vaganay@inria.fr



Patrick Valduriez, Ambassador in BRASIL: his portrait

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