



ASIAN OCCUPATIONAL SAFETY AND HEALTH RESEARCH INSTITUTE (AOSHRI) MEETING & SECRETARIAT OFFICE LAUNCHING

4TH – 5TH AUGUST 2025 | KUALA LUMPUR CONVENTION CENTRE, KUALA LUMPUR

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Introduction to Research Institution of INCT

- INCT is a public institute, endowed with legal personality, with extended administrative and financial autonomy and patrimonial, as well as scientific and editorial autonomy, without prejudice to the State's supervisory action, in accordance with the law and of this Statute, based on **Decree-Law No. 5/2023 of March 8 First amendment to Decree-Law No. 23/2014, of September 3**, which approves the Statute of the National Institute of Science and Technology (INCT). Article 4, paragraph 1 INCT continually promotes the advancement of scientific and technological knowledge in Timor-Leste, exploring opportunities that emerge, in all areas scientific and technological, with the potential to achieve highest international standards for creating knowledge and encourage its dissemination and practical application as a factor of development and improvement of the well-being of the population, and paragraph 2 The INCT actively seeks the continuous promotion of science, innovation and technology in Timor-Leste, as well as storing, preserve and disseminate the intellectual heritage of nature scientific, technological and academic and stimulate and promote the country's scientific research.

- **INCT Outcome-Based Research Grant:**

The "INCT outcome" **refers to the results and feedback from research projects funded by the Instituto Nacional de Ciências e Tecnologia (INCT)** in Timor-Leste. These outcomes are formally presented to INCT, **relevant ministerial/district stakeholders, and disseminated to the public**. The specific outcomes depend on the individual research projects and their objectives.

- **Focus Areas:**

INCT Thematic Areas: Innovation, Technology, and Infrastructure Education, Humanities, and Social Inclusion Health and Well-Being Economy, Agriculture, Tourism, Commerce, and Industry Environment, Biodiversity, and Climate Action



Recent R&D and Initiatives Activities of INCT

The Instituto Nacional de Ciências e Tecnologia (INCT), Timor-Leste's National Institute of Science and Technology, has been actively engaged in recent R&D and initiatives. These include funding scientific research projects, **promoting open science, and developing a strategic plan for science, technology, and innovation until 2030.**

Key Activities:

- Funding Research Projects:**

INCT has allocated funds to support various scientific research projects, with a focus on areas like health, nutrition, and socioeconomic aspects.

- Promoting Open Science:**

INCT, in collaboration with UNESCO and the Timor-Leste National Commission for UNESCO, organized a workshop on Open Science, aiming to ensure that scientific knowledge is accessible to all.



- Strategic Planning:**

INCT has developed a **strategic plan for 2022-2030**, outlining five key axes: **Scientific Research, Inventory and Training, Editing and Publishing, Accreditation and Cataloguing of Scientific Knowledge, and Institutional Development.**

- Research Dissemination:**

INCT is working to ensure that the results of scientific research are utilized by the government in policy-making.

- Collaboration and Partnerships:**

INCT collaborates with **various higher education institutions, government bodies, and international partners to advance science, technology, and innovation in Timor-Leste.**



Future Plans of INCT

The INCT (Instituto Nacional de Ciências e Tecnologia) of Timor-Leste has a strategic plan focused on stimulating science, research, innovation, and technology through 2030. This plan involves five key intervention areas: Scientific Research, Inventory and Training, Editing and Publishing, Accreditation and Cataloging of Scientific Knowledge, and Institutional Development. The INCT aims to support national development by ensuring research outcomes are utilized in policy-making and by fostering collaboration between research institutions and the government.

1. Promoting Scientific Research:

- The INCT will continue to support research projects across various strategic areas, including **health, biodiversity, infrastructure, and education**.
- A key objective is to ensure that research findings are effectively used by the **government in developing policies and strategies**.



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2. Inventory and Training:

- This area involves collecting and **documenting scientific research and publications related to Timor-Leste.**
- The INCT also plans to establish rules **for accrediting national scientific journals and recognizing intellectual property.**
- Capacity building and professional **training for managing the national scientific repository will be a priority.**

3. Editing and Publishing:

- The INCT aims to support the dissemination of research **findings through various publications.**
- This includes establishing strategic partnerships with international institutions to provide access to research publications.
- Creating a digital scientific **repository is also a key goal.**



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Upcoming Project of INCT Timor-Leste

The upcoming projects of the National Institute of Science and Technology (INCT) in Timor-Leste, as of July 14, 2025, include establishing a digital repository and continuing with ongoing research programs. INCT also continues to support 47 research programs across various fields, disseminating findings to the public and government.

- Digital Repository:**

- INCT is working on establishing a digital repository, a digital file warehouse with metadata, to organize and store research materials.

- Research Programs:**

- INCT is actively involved in 47 research programs spanning different fields.

- Dissemination:**

- INCT is committed to disseminating research reports to both the public and the government.

- Future Plans:**

- The digital repository project is expected to be implemented in the coming year.



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Collaboration Opportunities of INCT Timor-Leste

The National Institute of Science and Technology of Timor-Leste (INCT) offers various collaboration opportunities, particularly in research, education, and knowledge exchange. INCT actively seeks partnerships with local and international institutions to advance scientific and technological knowledge in Timor-Leste and contribute to the country's development.

Opportunities in Research:

- Research Funding:**

INCT provides funding for scientific investigations in various thematic areas.

- Joint Research Projects:**

INCT encourages collaboration with other institutions on joint research projects.

- Research Dissemination:**

INCT supports the dissemination of research findings through publications and digital repositories.

- Partnership with BRIN (Indonesia):**

- Bilateral cooperation agreement for research and development.



Additional information of INCT Timor-Leste regarding to Occupational Health and Safety

Research Programs of INCT

Related to INCT research activities, there are also several research projects that also focus on occupational health and safety, including:

- I. **Geoscience Investigation on National Road Failure at Lugatoi Area, Viqueque Municipality, Timor-Leste (2024):** This project focuses on **understanding the geological and geotechnical conditions pertinent to road infrastructure**. Such investigations are **crucial for preventing structural failures, which pose significant risks of accidents and injuries**. By ensuring the stability of road structures and **minimizing construction and maintenance-related hazards**, this research directly contributes to enhancing the occupational health and safety environment for road construction and maintenance personnel.
- II. **Traffic Control Strategies to Reduce Road Congestion and its Impacts in Dili, Timor-Leste (2023):** This research project examines strategies for mitigating road congestion in the capital. **The systematic conduct of thorough risk assessments is fundamental to identifying potential hazards associated with traffic flow, such as increased accident exposure or prolonged idle times for professional drivers and public transport personnel**. Implementing effective control measures derived from such assessments directly **contributes to enhancing safety and reducing occupational risks for individuals whose work involves navigating or managing urban traffic environments**.

III. Solid Waste Management System in the Municipality of Dili: Challenges and Solutions (Ongoing/Proposed 2023): This research aims to comprehensively analyze the multifaceted challenges inherent in Dili's solid waste management system. Addressing these issues is crucial for public health and environmental well-being, which directly impacts the occupational safety of waste management personnel and the health of the wider community. Key challenges under investigation include:

- **Increasing Waste Generation:** Rapid population growth and ongoing urbanization are leading to escalating waste volumes, placing considerable strain on existing waste management infrastructure and potentially exposing waste handlers to increased risks.
- **Limited Landfill Space:** The identification of suitable and environmentally sustainable **landfill sites presents a growing challenge**, constrained by significant environmental concerns and public opposition. Inadequate facilities can lead to informal dumping, creating unsafe working conditions for those involved.
- **Environmental Impact:** Improper waste disposal practices contribute significantly to soil and water pollution, the emission of harmful gases, and an increase in greenhouse gas emissions. These environmental hazards pose direct health risks to waste collectors and nearby communities.
- **Public Awareness and Participation:** A notable lack of public awareness regarding proper waste segregation and disposal methods, coupled with insufficient community participation, significantly impedes the implementation of effective and safe waste management strategies.



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THANK YOU