

OACPS Research and Innovation Programme

PSF service in feasibility study for a Science, Technology and innovation policy and for the creation of a national digital repository at the National Institute of Science and Technology of Timor-Leste



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Implemented by the OACPS Secretariat



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What was the rationale for seeking support from the Policy Support Facility?

- Considering the absence of a STI policy in Timor-Leste, the INCT cooperated with the PSF-OACPS funded by the EU to conduct feasibility studies on;
 - STI policy.
 - the creation of a national digital repository;
 - The study started October 2021, finalized and launched on June 22,2022.
 - The two studies were presented to Minister of Higher Education TL December 15,2022.
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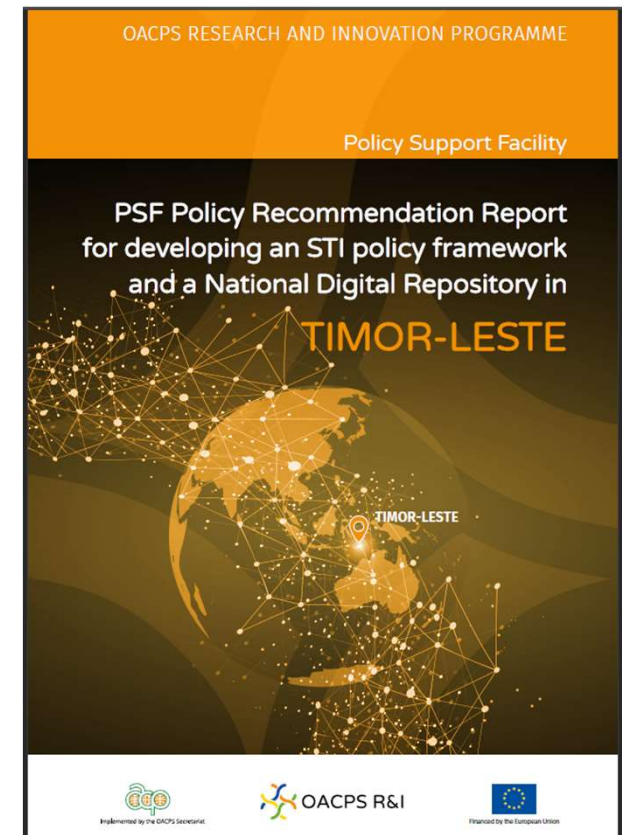
How was the service implemented? Methodology

- Method and sources of data were obtained through;
 - a) Desk review;(constitution of TL, national strategic plan of TL, INCT organic law, INCT Strategic plan, Timor-Leste Higher Education Policy on the like) for a preliminary and mutual understanding of the issues and the context.
 - b) Conducted Online interviews, FGD and questionnaires.

- The stakeholders of the *quadruple helix of innovation*, which compose of Representatives of academia, national government and public administration, IT and productive sectors; Civil society representatives were involved in the primary data collections.

III. How was the service implemented? Product

- All data collection process (FDGs, IDIs and Questionnaires) were done online platform.
- Capacity building, validation workshops with key national stakeholders, and an online regional workshop on open science.
- The expert panels also held another validating workshops on the two projects(STI and NDR drafts) with different national stakeholders, with the PSF team, the INCT, and other national team.
- The results of the projects : summarized in this report (STI and NDR).



I-What have been the main recommendations of the service?

In terms of STI policy, the recommendations are as follows:

1. Development of four pillars for Timorese STI policy based on the quadruple helix of innovation. STI programme formulation; National Digital Repository; Open science cloud (e-Colaboratorio Nacional); Physical infrastructure.
2. The Government of Timor-Leste should allocate funding and human resources to establish the INCT and maintain a long-term policy on STI, starting with planned concrete policy actions on STI. It is recommended that a target of 0.25% of GDP be set for research, rising to 1% after 5 years.
3. This budget dedicated to STI activities must include a budget for open access publications and subscriptions to academic journals;
4. Develop and deploy an open science policy that makes data FAIR (by design), makes publications and other research outputs freely available to society at large.
5. It is recommended to set up feasibility studies for the federated Open Science Cloud (e-Colaboratorio; Pillar 3) and for physical infrastructures (Pillar 4).
6. Start establishing international partnerships and Collaboration with national stakeholders is also a key element.

II-What have been the main recommendations of the service?

- The report ***recommends the creation of a National Digital Repository*** at the INCT, with the following characteristics:
 1. As a centralized system, coordinated and hosted by the INCT.
 2. The NDR software should be selected after the NDR strategy and vision are defined, along with the functionalities.
 3. An initial budget of EUR 300 000 for investment in the hardware, the installation process and the software installed is highly recommended. In addition, Timor-Leste should allocate human resources (technical experts and researchers) to develop, maintain and expand the NDR.
 4. key feature of a National Digital Repository is its sustainability. Content providers, developers and users need a long-term (at least 10 years);
 5. The scope of the Ethiopian example resembles the goals of the Timor-Leste Digital Repository provide a large group of stakeholders' access to a national research output.



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The budgets have been allocated for the following recommendation by the Panel Experts of the PSF/OACPS- EU.

The Installation
of Software fo
NDR



Human Resources
training for the
sustainability of
NDR



Research Funds
for the *quadruple
helix of
innovation*

What have you envisaged (or already done) to achieve the foreseen impacts of the service?

- The PSF final report has helped in the formulation and finalized the INCT Strategic Plan 2022-2030;
- The INCT was strengthened and optimized with more governance structures for planning, budgeting, coordination, management and promotion of scientific research, including open science (New Institutional Statutes);
- INCT will proceed to Collect, process and analyze basic data on the national scientific potential (organization of science map in 2023)
- INCT will proceed to Identify, address and raise awareness of the new risks and ethical dilemmas created by science and technology;
- Creating a national aggregator (directory) for open access journals. The INCT will collect information from journals and non-journals (publications) from the 19 higher education institutions;
- Promotion of open science.
- The study also helped INCT to install its software of the National Digital Repository in 2023.
- The Result of STI study also may assist INCT to formulate its STI legal policy in order to be approved by the National Parliament of Timor-Leste.



Thank You

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