Ministry of Science and technology Taiwan

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Funding Overview

Geographic Area: Taiwan, Far East Asia

Budget: Approximately 15,000 Million USD, Approximately 7.0 Million USD for SD Division

Department Area(s): Natural Sciences and Sustainable Development, Engineering & Tech., Life sciences, International Collaboration & Science Education, Humanities & Social Sciences,...
Taiwan R&D Expenditure

Taiwan R&D Expenditure as a Percentage in GDP

USD mil

Total R&D Expenditure

As Percentage in GDP


0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000

0.00% 0.50% 1.00% 1.50% 2.00% 2.50% 3.00% 3.50%
Department of Natural Sciences and Sustainable Development
- Atmospheric Sciences Division
- Chemistry Division
- Disaster Division
- Earth Science Division
- Mathematics and Statistics Division
- Oceanography Division
- Physics Division
- Sustainable Development Division (SDD)
- Spatial informatics Division
Characteristic of Sustainable Development Research Project in MOST.

- **Mission Orientated.**
  - Research topics of SDD are reviewed and revised regularly to meet the needs of policy on national development.

- **Highly Integrated.**
  - The SDD encourage proposals of interdisciplinary research project. Each project must have 3~5 sub-projects.
Review of Sustainable Development Research Topics.

(1997-2008)

- **Global Change Group**: Research themes including: Monitor and simulation of environment change; Development of international conventions; Impact of global environment change on Taiwan...etc.

- **Environment Protection Group**: Research themes including: Management of waste; Pollution control; Conservation on coastal and slope land...etc.

- **Humanities Economic and Social Group**: Research themes including: Industrial policy; Agriculture policy; Transportation policy; Energy policy; Decision making and executive mechanism...etc.
In 2008, “Sustainable Development Research Plan for SDD: Mid-term Research Strategy” of NSC reorganized research topics on Sustainable Development:

- Sustainable Society and Human Security;
- Environmental Governance;
- Land Use and Urban Development;
- Industrial Transform;
- Sustainable Resource and Environment.

Each Topic have 2-5 research themes.
Annual budget for SDD funded by the Ministry of Science and Technology.
Funding Examples

Taiwan Climate Change Projection and Information Platform Project (TCCIP)

Integrated Research Program on Climate Adaptation Technology (TaiCCAT)

Core projects for future earth (included in regular Calls)
TCCIP is a large research project that hopes to support adaptation policies with scientific evidence.

- To integrate climate-related data from a variety of governmental agencies (e.g., CWB, WRA, etc.)
- To produce local climate data for historical observation and future projection (i.e., downscale GCM to Taiwan)
- To provide climate service (i.e., data disclose in a user-friendly website)
The project, Taiwan Integrated Research Program on Climate Change Adaptation Technology (TaiCCAT), has developed the Cross-sectoral System Dynamic Model (CSD Model) to deal with cross-sectoral issues and built the 6-steps climate change adaptation framework for supporting adaptation making.
Current planning of Sustainable Development Researches in Taiwan.

Response Future Earth’s concept (co-design, co-product, co-delivery) to re-organize and propose research topics.

Core Project (I)
1. Land Resources
2. Ecosystem Service
3. Land-Ocean Interaction in the Coastal Zone
4. Disaster Risk and Climate Governance
5. Urbanization and Global Environmental Change
6. Water resource management
7. Climate Change and Human Health
Current and Future Funding Priorities

1. Regular Calls and Core Projects
2. TCCIP & TaiCCAT
3. Belmont Forum Calls & International collaborations
Thank You for Your Attention