



**SEMINAR A THEME:**  
**"ASEAN-INDIA FUNDING & SUPPORT FOR INNOVATORS"**

**"ASEAN India Science, Technology and  
Innovation Cooperation"**



by

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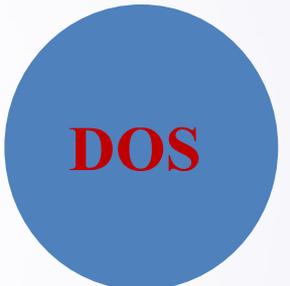
**DST**



**DBT**



**DAE**



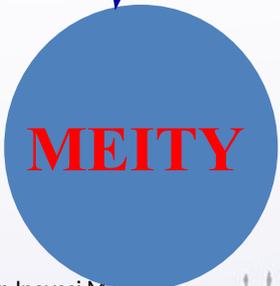
**DOS**



**DRDO**



**MOES**



**MEITY**



**OTHERS**



**DHR**



**DSIR**



**CENTRAL  
S&T  
DEPARTMENTS**



**CSIR**



**MOE**

**ICAR**

**MNRE**

**MOEF**



# Vision Components: Focus

Enhancing Quality and Relevance of R&D

Translation: Technology, Innovation to Market

Connecting Academia, R&D Labs, Industry, Startups, MSMEs, Ministries

Societal Connect & Contract: Science for People, People for Science

Diversity & Inclusion (*Youth, Women, Rural, SC/ST*)

# India's Key STI Achievements

- ❖ India ranks 3<sup>rd</sup> in terms of number of publications based on NSF database.
- ❖ It occupies 3<sup>rd</sup> rank in terms of number of PhDs awarded in Science and Engineering (S&E)
- ❖ Ranks 3<sup>rd</sup> globally in terms of number of Startups (59,384)
- ❖ It ranks 3<sup>rd</sup> in terms of no of UNICORNs in the world.
- ❖ India has created a massive jump in its global ranking of Global Innovation Index (GII) from 81<sup>st</sup> in the year 2015 to 46<sup>th</sup> in 2021 among 130 economies of the world.
- ❖ Women's participation in extramural R&D has also doubled in the last 7 years.
- ❖ India ranks 9<sup>th</sup> in terms of resident patent filing
- ❖ It also ranks 9<sup>th</sup> in terms of quality of research publications



# India's Inter-governmental S&T Arrangements

## Asia

- Bangladesh
- Bhutan
- Iran
- Israel
- Japan
- Korea South
- Maldives
- Myanmar
- Nepal
- Russia
- Singapore
- Srilanka
- Thailand
- Vietnam

## Australia

- Australia
- New Zealand

## Africa

- Ethiopia
- Rwanda
- South Africa
- Tunisia
- Egypt

## North America

- Canada
- Mexico
- USA

## South America

- Argentina
- Brazil
- Chile



## Multilateral & Regional Frameworks

- ASEAN
- BRICS
- BIMSTEC
- EU
- SAARC
- UNESCO/UNCSTD
- TWAS/ ICTP
- IOR-ARC

## Major Projects

CERN, KEK  
FAIR, SKA  
TMT, NLST  
LIGO,INO

## Europe

- Austria
- Belarus
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Finland
- France
- Germany
- Hungary
- Iceland
- Ireland
- Italy
- Netherlands
- Norway
- Portugal
- Romania
- Slovenia
- Spain
- Sweden
- Switzerland
- Ukraine
- UK

# Background AISTDF

- The creation of ASEAN-India S&T Development Fund (AISTDF) of 1 million USD (equivalent amount in INR) was announced during 6th ASEAN-India Summit in Singapore in November 2006.
- The budget allocation of AISTDF enhanced to an equivalent amount of 5 Million US Dollars during ASEAN-India Summit in Malaysia in November 2015.
- The Current validity of AISTDF is up-to 31 March 2025
- AISTDF account is held in India in INR. Science and Engineering Research Board (SERB), New Delhi is the implementing agency of AISTDF.

# Schemes /Programs under AISTDF:

- Research Training Fellowships for ASEAN researchers / scientists;
- Collaborative R&D projects
- Innovation Platform (AIIP)
  - Development of Innovation/ Technology Databanks for pooling and sharing
  - Linking Innovation/ Technology incubations Centers
  - Innovation/ Technology Summits/ Exhibitions / Fairs etc.
- Thematic scientific workshops/ training programs/Exhibitions

# Research Training Fellowships (RTF) for ASEAN Professionals

- 50 Fellowships per year for a duration of 2-6 months for research internship at any Indian Institution/University;
- Eligibility: Masters students up-to the age of 45 years.
- All expenses (round trip airfare by economy class, medical insurance, visa fees etc, fellowship amount; lump sum amount of for chemicals & consumables etc) to Indian host Institution.

# Status Update (AI-RTF)

Country	Total Awarded Fellowship	Availed so far	Availing 2023
Brunei	5	2	-
Indonesia	34	10	6
Laos	3	1	1
Malaysia	49	22	6
Myanmar	34	21	8
Philippines	8	2	4
Thailand	10	7	1
Vietnam	27	11	2
<b>Total</b>	<b>170</b>	<b>76</b>	<b>28</b>

Last Call for Application of AIRTF - **01<sup>st</sup> August 2022 to 30<sup>th</sup> November 2022**

Total Applications received in last cycle - 35

Total Applications selected in last cycle - 28

These 28 Fellows will start coming to India from August 2023

Launch of Next Call 2023: Last Quarter of 2023/first Quarter of 2024

# ASEAN-India Collaborative R&D Projects

- 20 projects per year for a duration of 2 years (extendable for 6-12 months).
- The project partners must comprise of one Indian and at-least 2 ASEAN MS.
- Financial support: International mobility from India to ASEAN-MS and vice versa; salary for junior researchers (Ph.D student, post- doc etc); accessories/ chemicals/ consumables; and institutional over head charges.

# Status Update (AI-CRD)

- **Total projects supported so far** – 104 (Completed-72 , On-going-32)
- Last Call announced in Sept 2022 and last date was Dec 31,2022
- **Priority areas** for last Call were Agriculture Biotechnology including Food S&T; Pharmaceuticals and Drug development; Clean energy materials and systems
- New proposals received-**192/29**
- AI-CRD Call-2023 likely to be launched in Jan 2024

# III. ASEAN-India Innovation Platform (AIIP)

## 1. The key elements of AIIP:

- ✓ Development of Technology /Innovation Databank for sharing among India and ASEAN MS for up-scaling, transfers and commercialization;
  - Social Innovations databank  
<http://www.indiaaseaninnovation.com/>
  - Research Innovations Databank  
<http://www.aseanindiaresinn.com/>
  - Product Innovations databank  
<http://www.aseanindiapip.com/>
- ✓ Networking/linking of existing Innovation/Technology incubation Centers.
- ✓ Organization of Start up festival, thematic workshop and training programs.

# Key Features of Grassroot Innovations

Affordable

Accessible

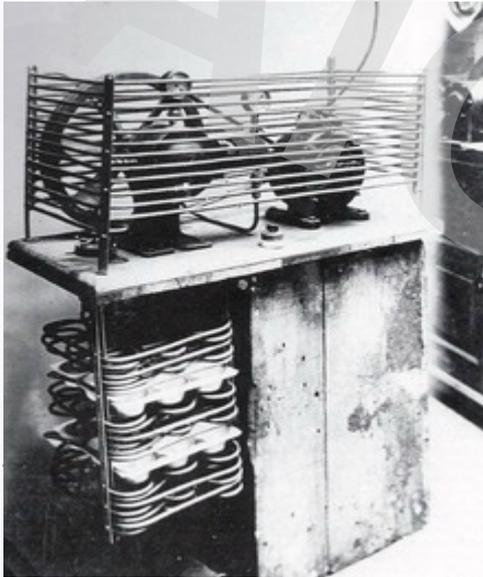
Sustainable

Simple

Inclusive

Local

# Value Chain of Grassroot Innovations



**DOMELE refrigerator**  
c. 1914



# Key Elements Grassroot Innovation System

Technology Scouting, documentation and database management

Valued addition R&D (Technology/Design)

IPR Management

Business development

Social Dissemination/Commercialization

# ASEAN India Grassroot Innovation Platform

- Building and maintaining the Innovation Bank titled ASEAN India Innovation Platform (AIIP) – Social Innovations: Platform is repository of Innovations from India and ASEAN member states
- Mapping Innovations from India for ASEAN Member States: NIF has mapped about 5-10 innovations for each country and shared as per requirement of each country
- MISTI Cambodia has submitted 2 QIP (Quick Impact Projects) with the Embassy of India in Cambodia towards capacity development and technology transfer
- Organized 3 India ASEAN Grassroot Innovation forum events in Indonesia (2018), Philippines (2019) and Cambodia (2022)
- Exposure visit of some of the Innovators from ASEAN states in India



**Thank you for your kind  
attention**