



STI Cooperation in Grassroots Innovation Between AMS and India

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Outlines

- ❑ STI cooperation context in AMS and India
- ❑ Technology Transfer between AMS and India
- ❑ Challenges in grassroots innovation

STI Cooperation Context in AMS and India

- 1) Research training fellowship
- 2) R&D Collaboration
- 3) Innovation platform
- 4) Partnership development activities



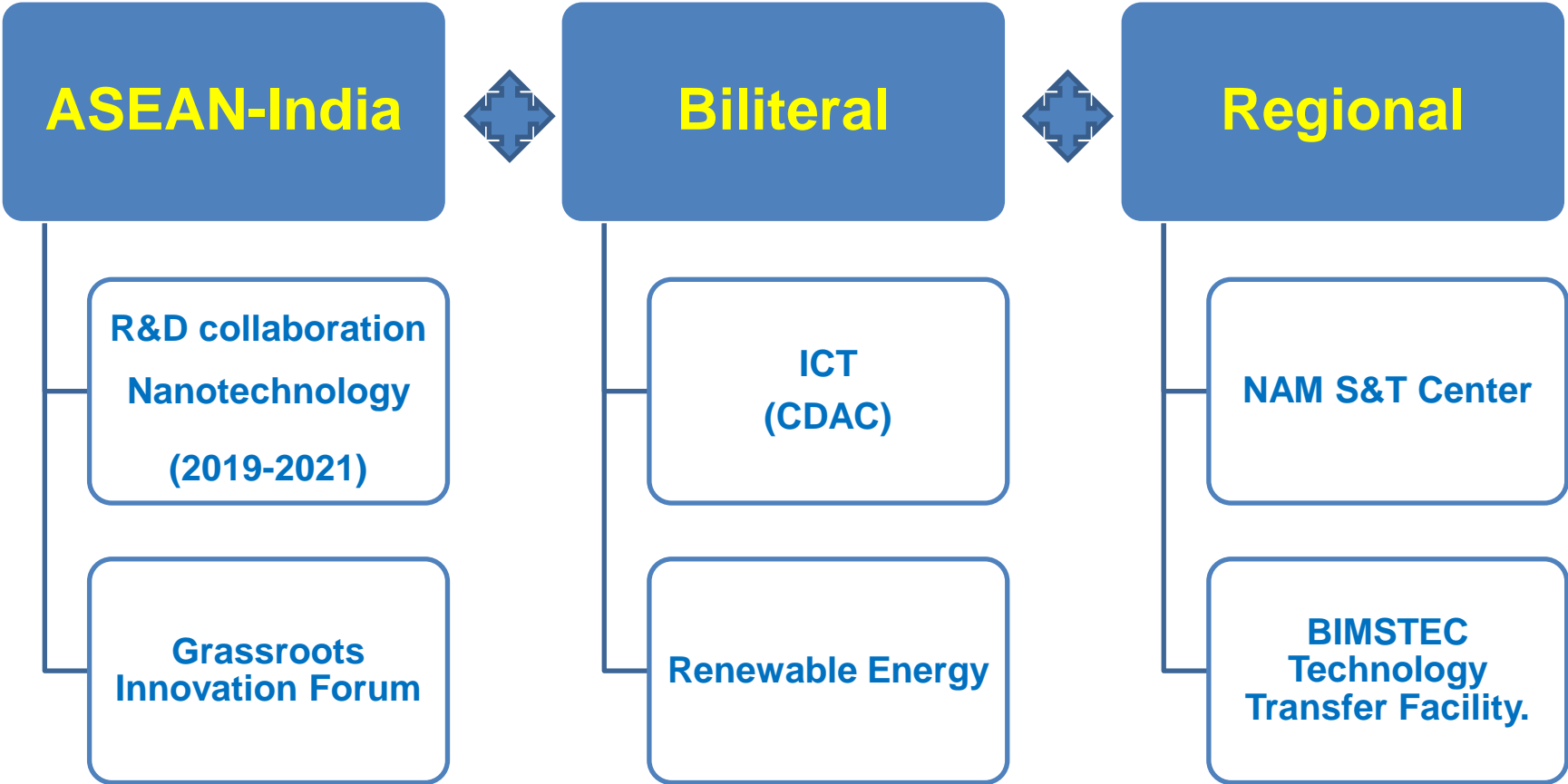
- (i) Regional & Multilateral Cooperation
- (ii) Bilateral Cooperation

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India- Myanmar Cooperation Context



ASEAN- India R&D Collaboration

ASEAN- India

R&D
collaboration
Nanotechnology
(2019-2021)

Grassroots
Innovation
Forum



- **ASEAN- India S&T Development Fund (AISTDF)**
- **Project title:** Development of Nanocellulose supported metal oxide/metal sulphide nanocomposites for photo catalytic and energy conversion applications
- **Multilateral Collaboration:** (i) ITM University , Gwalior , **India** (Project Leader)
(ii) Indonesian Institute of Science , **Indonesia**
(iii) Department of Research and Innovation, MOST, **Myanmar**
- **Outcomes:** 2 International journal papers & three journals under reviewing

India- Myanmar Bilateral Cooperation Context (1)

Bilateral

**ICT
(CDAC)**

**Renewable
Energy**

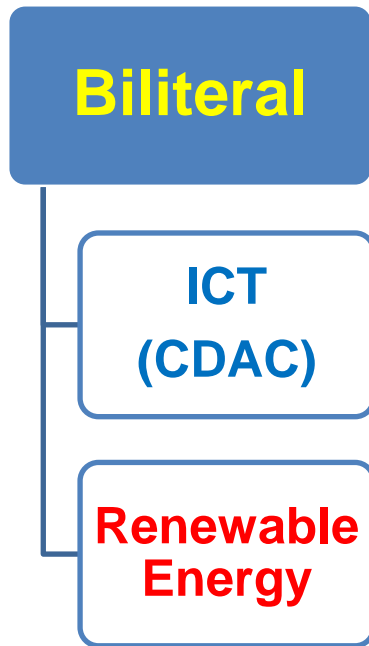
(1) Partners for ICT

- Center for Development of Advanced Computing (CDAC), India (MOU 2016-2021, 2021-2024)
- India-Myanmar Center for Enhancement of Information Technology Skills (IMCEITS) Training center
- (6) Courses & Trainees (2842)

1	Professional Diploma in Java Programming Course	24 weeks
2	Professional Diploma in MS. Net Programming Course	24 weeks
3	Professional Diploma in Wireless and Mobile Computing Course	24 weeks
4	Professional Certificate in Android Programming Course	8 weeks
5	Professional Certificate in Web Technologies Course	8 weeks
6	Professional Certificate in Linux Course	8 weeks



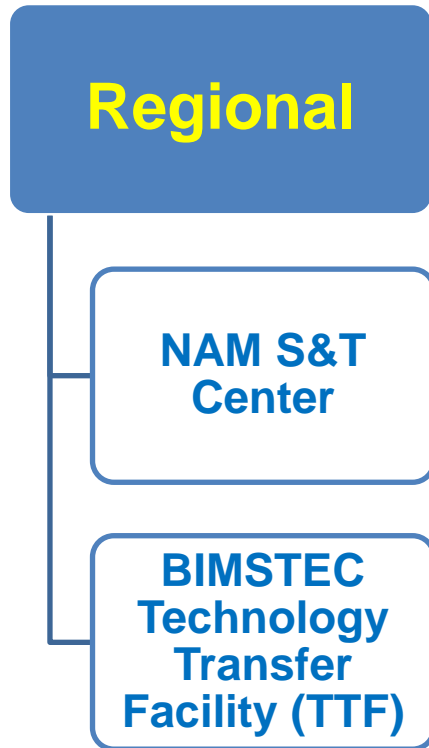
India- Myanmar Bilateral Cooperation Context (2)



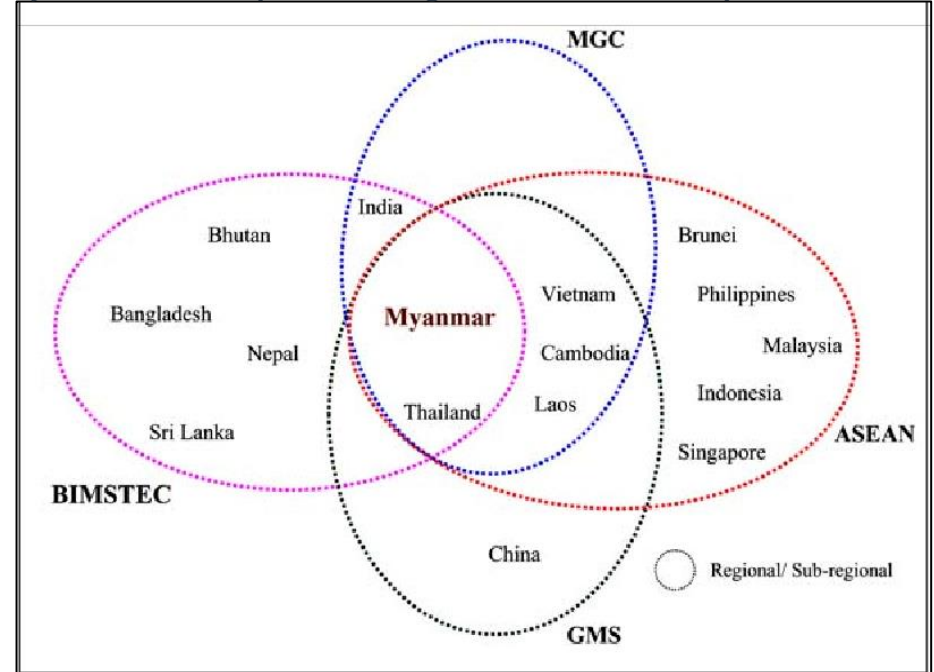
(2) Partners for Renewable energy- Ministry of New and Renewable Energy (MNRE), India (MOU on 29 August 2016 in New Delhi, India)

- India- Myanmar Renewable Energy Joint Committee (3rd JWG meeting Online)
- **Project title:** Development of Renewable Energy Training Center (**MOU with National Institute of Solar Energy (NISE)**) & Waste to Energy and Clean Cooking Project (**MOU with Sardar Swaran Singh National Institute of Bio Energy (SSS-NIBE)**)

Technology Transfer between AMS and India



Myanmar's Participation in Regional Economic Cooperation in Asia



- ✓ As Asia becomes the engine of growth for the global economy and the ASEAN and India must capitalize on their partnership through enhanced connectivity to reap the benefits most.
- ✓ Myanmar is the land bridge between ASEAN and India so that it may be a potential player in future economic and STI development in the region.

Technology Transfer Accelerator Hub (DRI)



ASEAN-India Technology Transfer Center under AIIP

Creation of a databank to access the technologies developed in India and ASEAN countries

Log in access to know the technical information among ASEAN and India

Facilitation of technology demands and technology supplies through Technology Transfer Platform

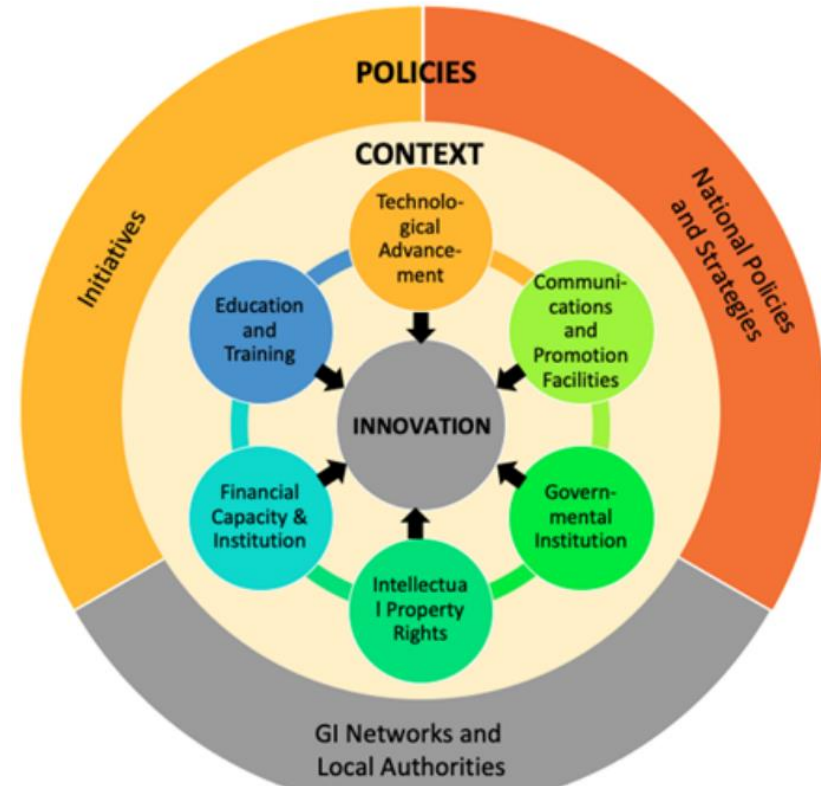
Bridging the technological gap between inventor, industry, manufacturers & academia of ASEAN countries



ASEAN-India TT Center in one of the AMSs may be established to take the opportunities to capture the competitive advantages brought by regional and global market chain.

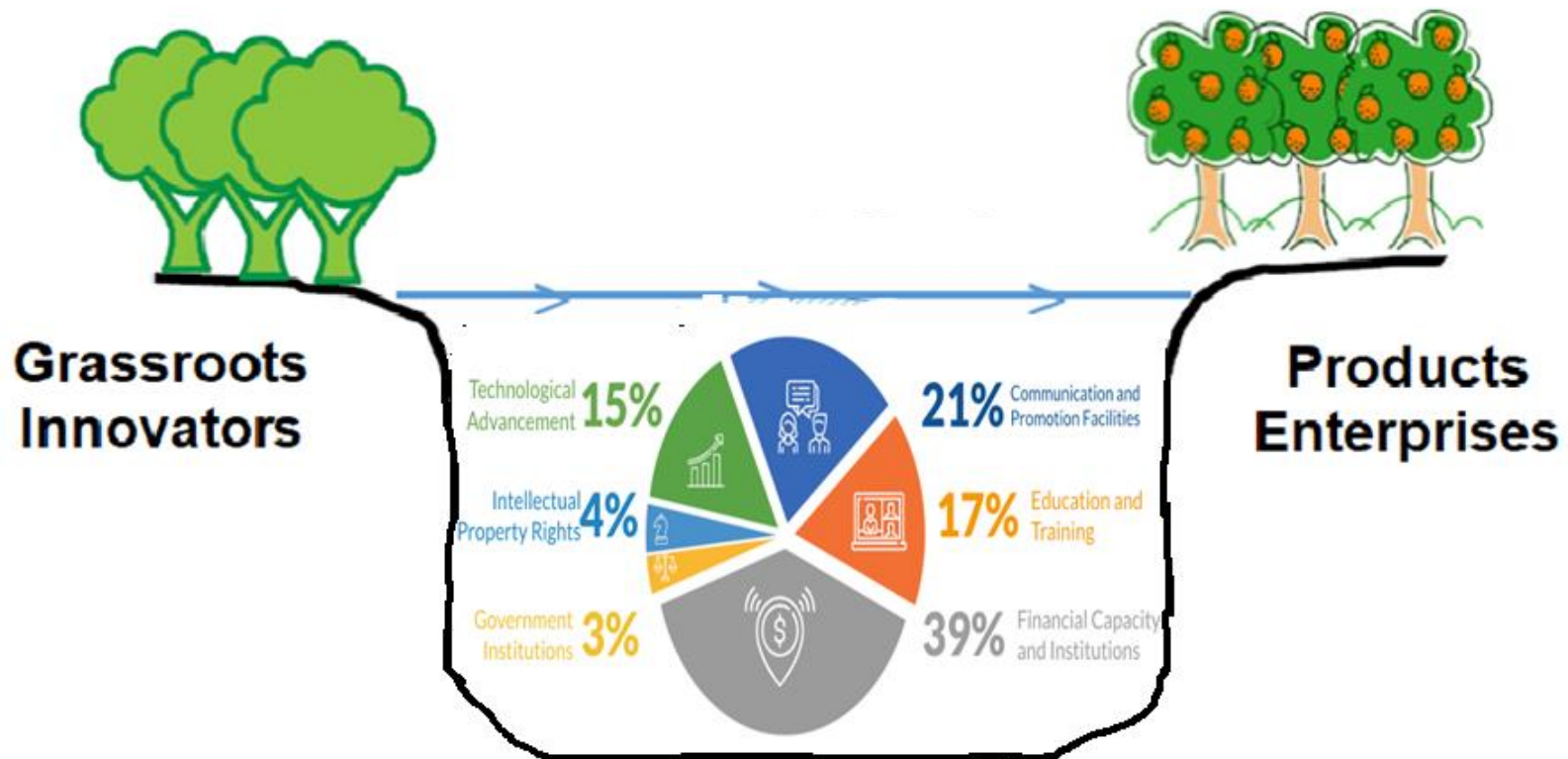
Challenges in Grassroots Innovation

- 1) As a bottom-up approach, grassroots innovation converts the ideas and innovations of knowledge-rich but **they lack venture funds**.
- 2) The grassroots innovators mostly rely on the surrounding environment to shape its path towards success and **communication and promotion facilities** become an issue.
- 3) **The applied technology and research activities** are limited; a comprehensive diagnostic tool that can effectively predict the potential and success of grassroots initiatives.
- 4) **They need education and trainings to** raise their design, testing, development and implementation.
- 5) They lack the ideal framework of **protecting intellectual property**, care of formal institutions and systems, and attention from the educational system.



Barriers of Grassroots Innovation

- ✓ Grassroots innovations are converted into products and enterprises, and their technological, economic and social values are materialized.



Needs

&

Motivation

For accelerating grassroots innovation,

- 1) Awareness forums and enhancing the innovative ideas, fostering grassroots community and mobilizing academia and youth.
- 2) Grants and financial supports for innovators
- 3) Tax incentives and IPR
- 4) The grassroots innovation policy (and integrated with national STI agenda).
- 5) GI promotion facilities - the platform for training, communication, exchanges and integration to bridge the enterprises and innovative force

- 1) The GI winners to be considered for the fellowship/scholarship program awards by AISTDF
- 2) Build the online platform showcase for the products of the GI winners in the ASEAN COSTI /India STI/ASEAN-India website
- 3) Talent mobility program among India and ASEAN
- 4) ASEAN-India STI Fellowship program for women

2022 National Youth Performance Showcases (26-27 Dec 2022)



**Minister of Science and Technology encouraged the students from GTI/
Technological Universities/ICT Universities under the MOST**



THANK YOU!



<http://dri.gov.mm>

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