The International Nuclear Science and Technology Academy (INSTA)

An Education Network Initiative in Supporting Regional Nuclear Science & Technology Education and Human Resource Development

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Chair, INSTA Steering Committee

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Anchored in established regional cooperation projects

All institutional information and foundational context are derived directly from two primary International Atomic Energy Agency (IAEA) projects:

Project: RAS0075

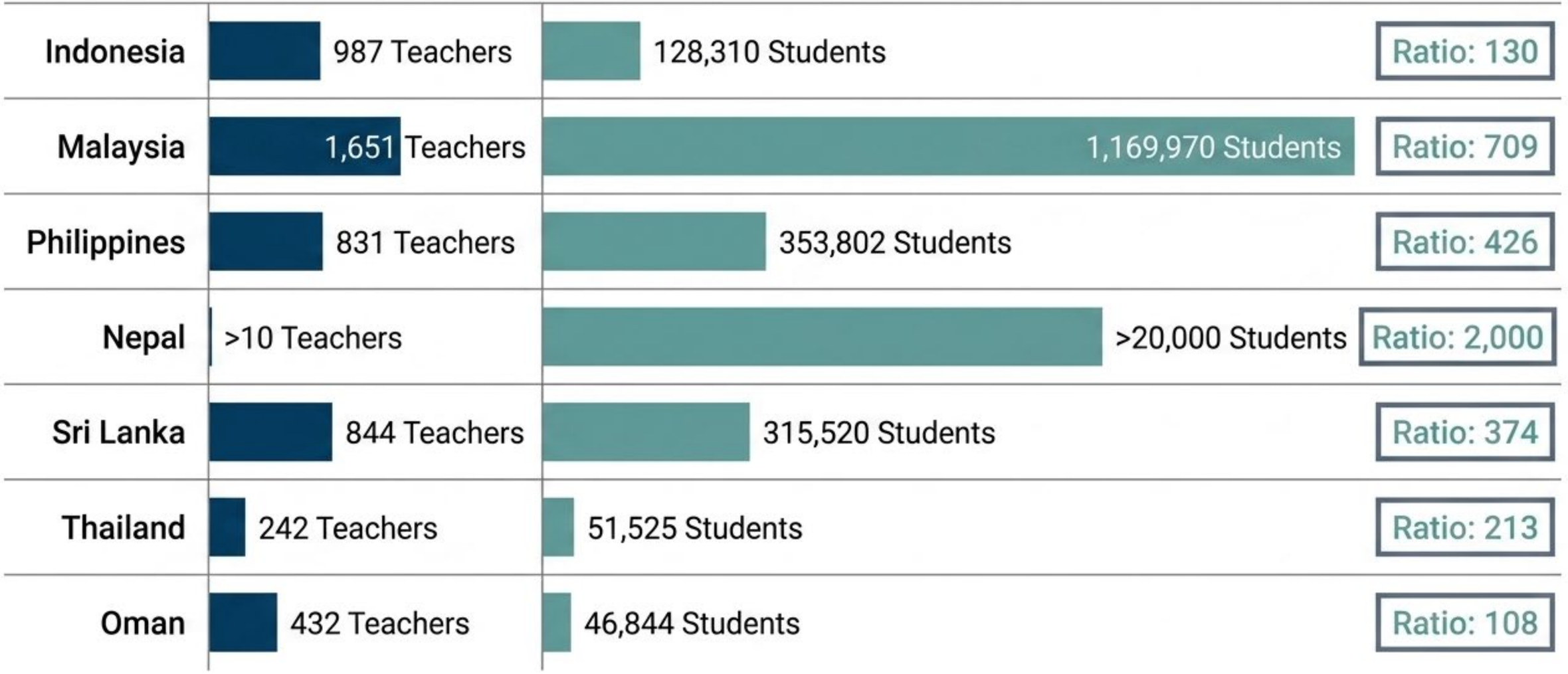
Introduction and baseline framework

Project: RAS0079

Implementation and operational data

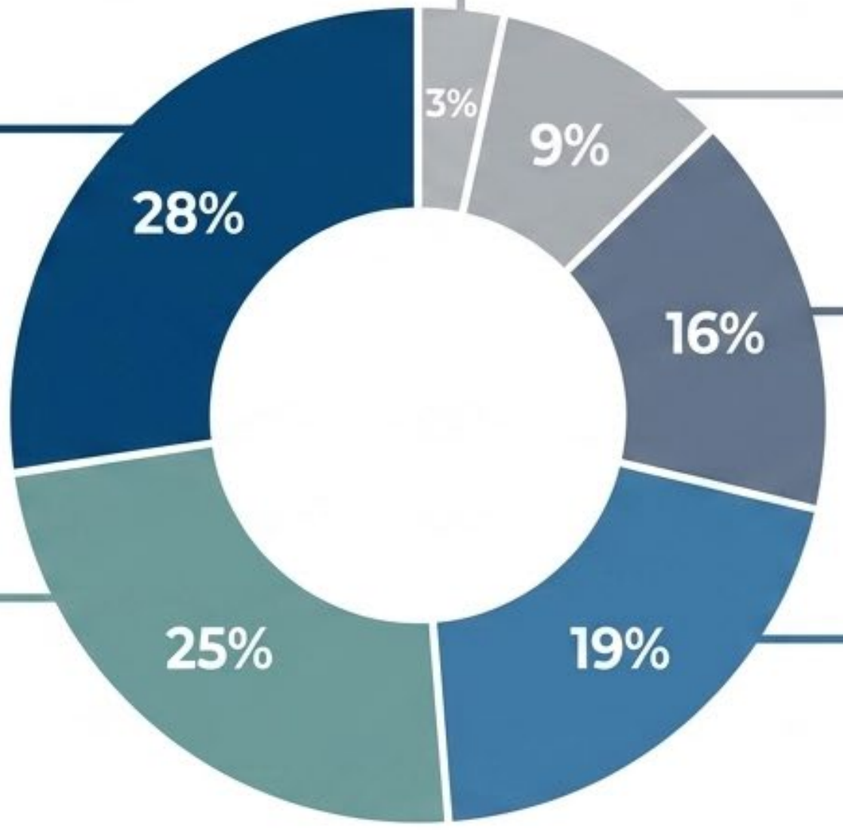
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The multiplier effect of regional nuclear education



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Diagnosing the critical gaps in NST education



28% T&L Resources

Lack of instrument/equipment, outdated infrastructure, lack of lab/experiment tool.

25% Teacher/Expert

Lack of expert, lack knowledge of the teacher, not well-trained teacher.

3% Geography

9% Financial

19% Awareness

Lack of social acceptance, lack of understanding NST career, lack of awareness in policy maker.

16% Curriculum

Difficult and heavy, not included in secondary school, NST syllabus not sufficient.

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A strategic response to regional education needs

The Catalyst (Nov 2019)

Experts from 7 Member States in the region discuss solutions to enhance nuclear education for educators in NST and other scientific, technical, and social disciplines.

The Strategy

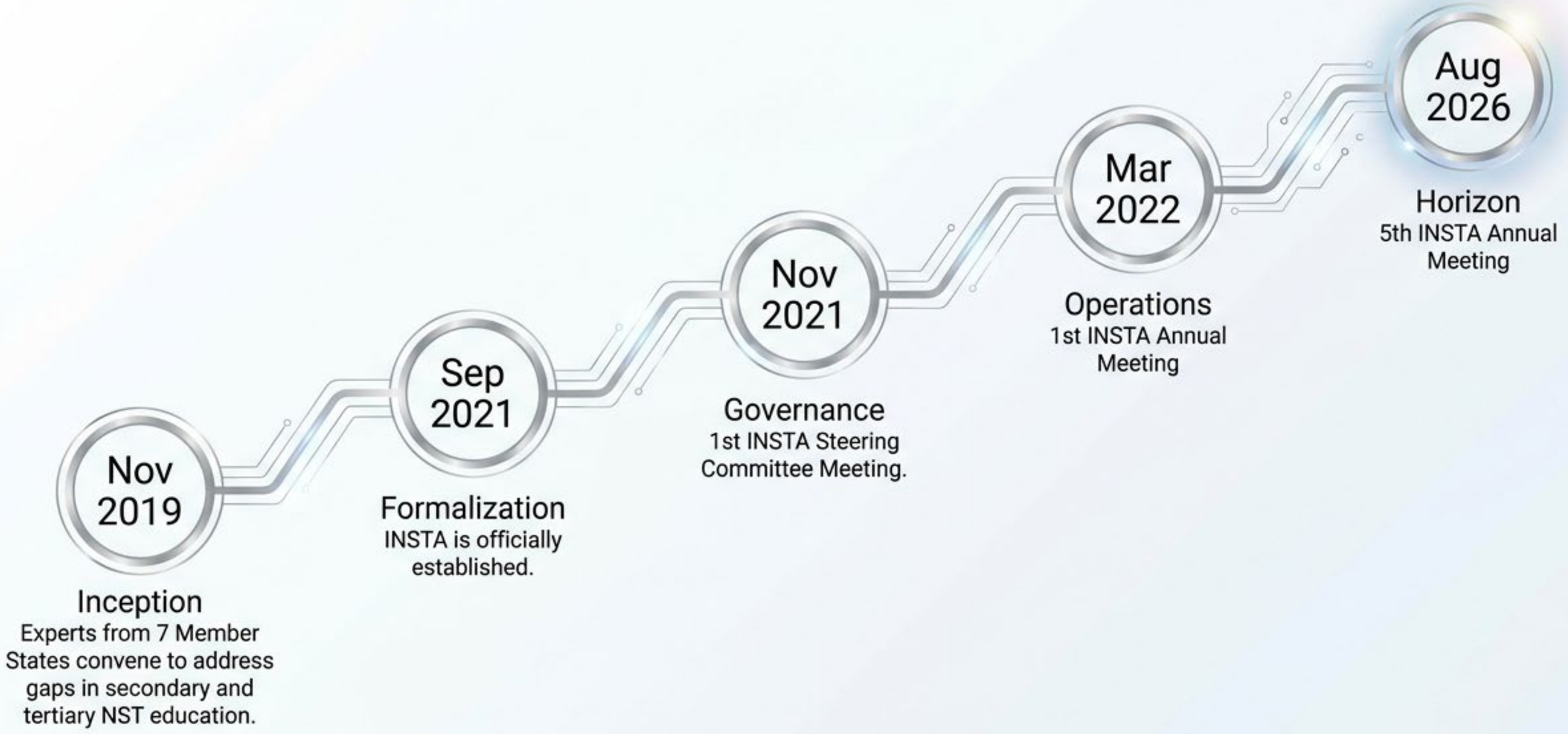
Accelerate the dissemination, awareness, and utilization of nuclear S&T applications to meet UN SDGs and national socio-economic priorities.

The Solution

Concluded that a forum of cooperation among universities, training centers, research organizations, regulatory bodies, and agencies is needed. Resulting in the establishment of **INSTA, a regional educational initiative supported by the IAEA.**

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Accelerating Regional Capacity Since 2019



The regional mandate: Accelerate the dissemination, awareness, and utilization of safe nuclear science and technology applications to meet the UN Sustainable Development Goals.

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Collaborative infrastructure for sustainable education

Primary Goal: Strengthen and sustain tertiary nuclear S&T education to enhance the utilization of nuclear applications in IAEA Member States in the Asia-Pacific region to meet the UN SDGs.



Facilitate

Linkages among academic institutions and stakeholders for sharing and optimizing resources.



Foster

Educational programmes and platforms to address current and emerging needs for NST education.



Engage

Envision and organize activities to engage and motivate NST educators and stakeholders.

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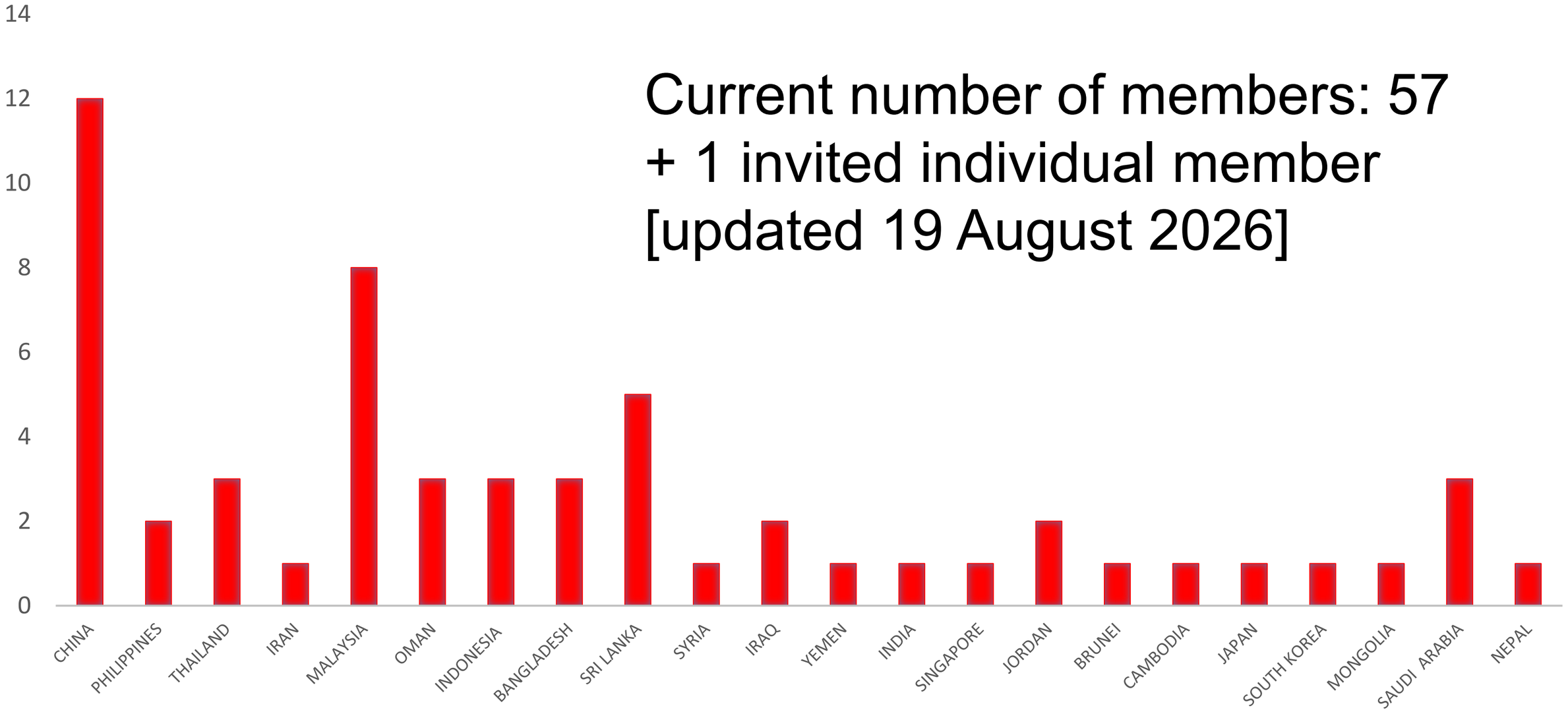
Status update

Member States and territories of Asia and the Pacific Region

- Afghanistan
- Australia
- Bahrain
- Bangladesh ✓
- Brunei Darussalam ✓
- Cambodia ✓
- China ✓
- Fiji
- India ✓
- Indonesia ✓
- Iraq ✓
- Iran, Islamic Republic of ✓
- Israel
- Japan ✓
- Jordan ✓
- Korea, Republic of ✓
- Kuwait
- Lao People's Democratic Republic
- Lebanon
- Malaysia ✓
- Marshall Islands
- Mongolia ✓
- Myanmar
- Nepal ✓
- New Zealand
- Oman ✓
- Pakistan
- Palau
- Papua New Guinea
- Philippines ✓
- Qatar
- Saudi Arabia ✓
- Singapore ✓
- Sri Lanka ✓
- Syrian Arab Republic ✓
- Thailand ✓
- United Arab Emirates
- Viet Nam
- Yemen ✓
- Vanuatu
- Territories under the jurisdiction of the Palestinian Authority

[22 Member States]

Member Organisations per Country



Current number of members: 57
+ 1 invited individual member
[updated 19 August 2026]

Terms of Reference: Institutional and individual membership

Organizational Membership

Open to educational, research, and training institutes, and national competent authorities involved (or planning to be) in NST education in the Asia/Pacific region. Requests must be in writing to the Steering Steering Committee and are processed via defined internal procedures.

Invited Individual Members

Granted in an ‘individual’ capacity exclusively by invitation of the Steering Committee. Participants serve in the same capacity as organizational members but are not permitted to hold official positions within INSTA.

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Terms of Reference: Points of Contact (PoCs)

Structure

Designation: Each member institution must designate exactly one MAIN and one ALTERNATE Point of Contact.

Responsibilities

- Act as the primary interface with the INSTA Steering Committee.
- Manage the member's profile regarding NST education and training programs on the INSTA portal.
- Maintain comprehensive knowledge of the member's NST activities.
- Actively disseminate information about INSTA to other potential institutes.

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Terms of Reference: Working Group mandates

	WG1 - Technical Coordination	WG2 - Program & Platform Development	WG3 - Special Projects
MANDATE	Coordinate between academic institutions/stake and optimize existing regional resources to advance R&D in nuclear education.	Develop educational programs and platforms to address needs for qualified educators (curriculum, materials, platforms).	Plan and organize special events and propose TC projects to increase educator involvement in NST programs.
PREVIOUS ACTIVITIES	INSTA member needs survey, website, social media.	INSTA EPE.	INSTA Schools, INSTA Webinars.

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Sustaining the network through active contribution

INSTA serves a unique and critical niche: "Educating Educators.' Our success depends entirely on the active contribution of our members to share knowledge, pool resources, and foster new programs.

INSTA

For additional information: irman@ukm.edu.my

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