

Integrating Education for Sustainable Development in SEAQIS Programmes



QITEP In Science



@qitepinscience



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SDG 4 in SEAMEO Education Agenda



**The ideas of UN SDG 4.7 are attached in SEAMEO 7
Priority Areas**

VISION

to be a centre of professional excellence in the area of science teaching for teachers and education personnel within the framework of **sustainable development**

MISSION

to provide relevant and quality programmes in professional excellence for science teachers and education personnel through capacity building activities, resource sharing, research and development, and networking



SEAMEO QITEP IN SCIENCE PROGRAM HIGHLIGHTS

- Training on Environmental Education
- Inquiry-Based Science Education
- STEM Education

ENVIRONMENTAL EDUCATION

To improve the quality of science teaching and learning in schools with respect to ecosystem services and its support of Climate Change Education, Sustainable Development, and the Preservation of our Earth



TRAINING COURSE ON ENVIRONMENTAL EDUCATION FOR SUSTAINABLE DEVELOPMENT



TRAINING COURSE ON INQUIRY-BASED SCIENCE LEARNING



7

To promote teaching innovation, experience the process of inquiry – based science teaching and learning , and good practice exchanges in science education and inquiry based learning





STEM EDUCATION

To recognise the importance of STEM education to develop learners' 21st Century skills; experience STEM lessons and activities; design and manage STEM learning activities; produce a STEM-based lesson plan





STEM PROGRAM– SEAQIS

2018 - 2020

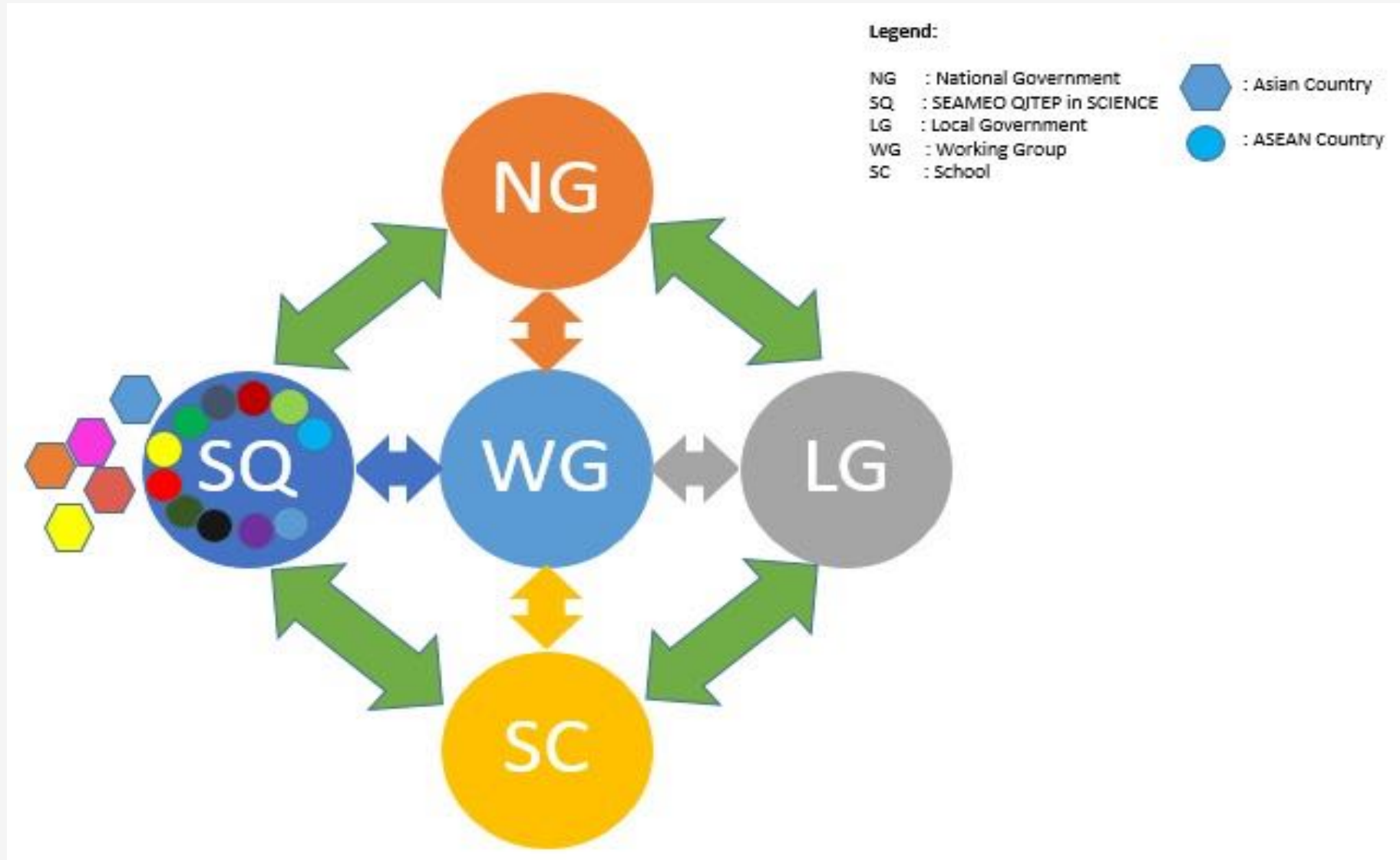
(educate today for tomorrow workforce)



AGENDA

- STEM House
- STEM Piloting
- SEA Digital Class
- STEM Research Grant
- STELR – STEM Education
- STEM based Education Film Competition for Student (?)

STEM DEVELOPMENT DESIGN



3 Years Planning

Program	2018	2019	2020	Partner
STEM House	10 Schools: Bontang, East Kalimantan	30 Schools: 2 Prov	90 Schools: 3 Prov	INOVASI, ATSE Australia
STEM Piloting	Sumba, East Nusa Tenggara	Sumba, East Nusa Tenggara	Sumba, East Nusa Tenggara	INOVASI
SEA-Digital Class	20 sch: 11 countries Prim n Junior Secondary	100 sch: 11 countries Prim n Junior Secondary	500 sch: 11 countries Prim n Junior Secondary	3 QITEPs, SEAMOLEC
Research Grant on STEM Ed.	30 research	60 research	90 research	Research n Dev Centre
STELR-STEM Ed.	40 participants; 11 countries	40 participants; 11 countries	40 participants; 11 countries	ATSE Australia

1. STEM HOUSE

➤ STEM House

- ❑ School as STEM Service Center (STEM House)
- ❑ Surrounding Schools may borrow learning resources from STEM House
- ❑ In collaboration with ORICA & Bontang Local Ed
- ❑ Activities Design:
 - ❖ Providing Students and Teachers' book, Module of STELR Kit on Renewable Energy
 - ❖ Learning resources translation
 - ❖ Teachers training

2. STEM PILOTING

- ❑ To try out STEM implementation in primary level
- ❑ In Sumba, East Nusa Tenggara
- ❑ In collaboration with INOVASI
- ❑ Activities design :
 - ❖ Developing STEM learning resources
 - ❖ Teacher training
 - ❖ Teacher assistance program
 - ❖ Evaluation

3. SEA DIGITAL CLASS

- ❑ To reach wider targets by online platform strategy
- ❑ In collaboration with SEAMOLEC which facilitate Massive Open Online Course (MOOC)
- ❑ Target: South East Asia Science teachers 8th grade
- ❑ Activities design :
 - ❖ SEAQIS, providing learning resources: video and relevant resources
 - ❖ Teacher, learning online resources, implement, and report result

4. STEM RESEARCH GRANT

- ❑ To facilitate classroom action research (CAR) for teacher through teacher community
- ❑ In collaboration with Research and Development Center
- ❑ Activities design :
 - ❖ Teacher training on STEM (representative of teacher community)
 - ❖ CAR assessment
 - ❖ Dissemination to teacher community
 - ❖ Research and facilitator assistance
 - ❖ Seminar

5. STELR-STEM EDUCATION

- ❑ To introduce inquiry based learning and STEM
- ❑ Theme: Renewable Energy
- ❑ In collaboration with Australian Academy of Technology and Engineering (ATSE)
- ❑ Target: Primary and Junior Secondary Teacher in South East Asia



Thank you