



ANNUAL REPORT JULY 2018 - JUNE 2019



Southeast Asian Ministers
of Education Organization (SEAMEO)
Regional Centre for Quality Improvement
of Teachers and Education Personnel (QITEP)
in Mathematics

Message from the Director

As this is my first report since being appointed as Director of the Centre in June, it is with great pleasure to present to the Governing Board the accomplishments of the Centre for Fiscal Year 2018/2019.

Guided by the 2nd Five Year Development Plan, the accomplishments presented in this report are categorized by the following Key Result Areas: Regional Leadership, Regional Visibility and Solid Resource Base.

The fiscal year 2018/2019 saw many milestones in the history of SEAMEO QITEP in Mathematics (SEAQIM). Under the KRA I (Regional Leadership), the Centre has expanded its programme which involved the community surrounding. STEM (Science, Technology, Engineering and Mathematics) Village, is one of the many efforts of SEAQIM in producing a qualified human resource through education to face the 21st Century. In 2018/2019, we carried out three programme which consists of information dissemination, network development, and marketing initiative to improve our Regional Visibility (KRA II). SEAQIM conducted two activities that fit under KRA III (Solid Resource Based); they are capacity building and permanent viability of funds and budget. We are pleased to invite you to read the details in this report.

More than ever, SEAQIM, strives to innovate and pursue effective ways to work together. This would not have been made possible without the constant guidance and support of the Ministry of Education, Associate and Affiliate Members, Governing Boards, Stakeholders as well as mathematics teachers and education personnel.

Last but not least, I believe that the FY 2018/2019 has been very challenging for us, but our management and staff have dealt with those challenges as best as possible while keeping their professionalism. I am looking forward to working with those dedicated staff, and not less important, all the Centre's stakeholders in the year ahead.

**Director,
Dr. Sumardyono**

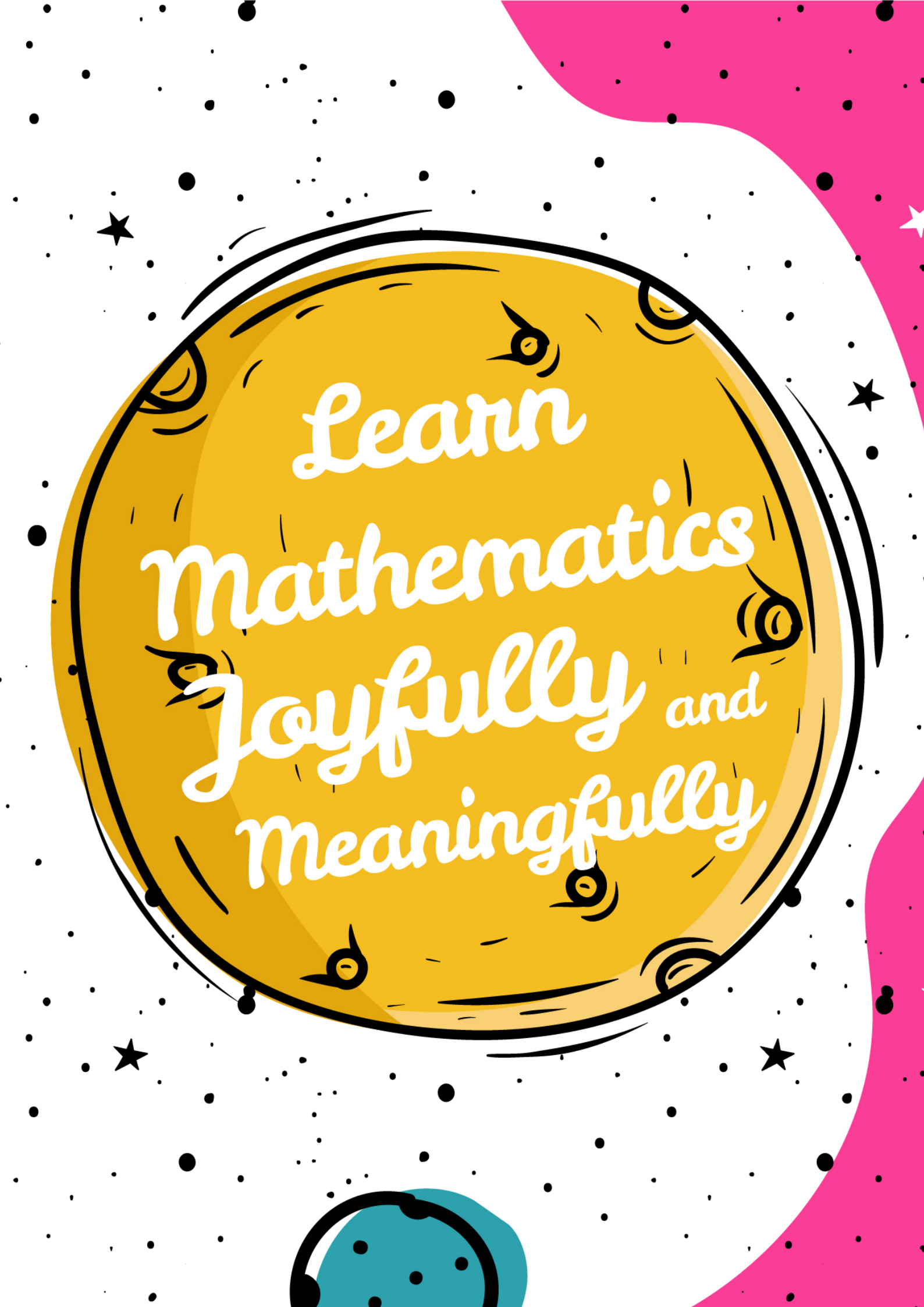




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Learn
Mathematics
Joyfully and
Meaningfully



SEAMEO Regional Centre for QITEP in Mathematics

Vision, Mission, Values, Goals and Motto

Vision

To be a Centre of professional leadership in the area of mathematics education for teachers and education personnel within the framework of sustainability in Southeast Asia

Mission

To provide quality professional mathematics education leadership and services for teachers and education personnel in SEAMEO Member Countries

Core Values

To realize the vision and carry out its mission, SEAQIM believes strongly in the importance of values as guiding principles for its staff in executing their tasks. All SEAQIM staff should be aware of, comprehend, and apply the Centre's values as follows:

1. Innovation;
2. Professionalism;
3. Service quality;
4. Global thinking; and
5. Inspirational leadership

Goals

The SEAMEO Regional Centre for QITEP in Mathematics is expected to achieve five major goals as follows:

1. To provide high quality education relevant to 21st century skill teaching capabilities;
2. To establish extensive networks and collaboration, information exchange and best practice sharing in the area of mathematics education among SEAMEO Member Countries;
3. To conduct research and development in mathematics education;
4. To provide intellectual forums on mathematics education innovation; and
5. To provide policy makers with up-to-date data and information on mathematics education.

Motto

Learning mathematics joyfully and meaningfully.







Key

Result

Area

One

KRA 1

Regional Leadership



KRA I

Regional Leadership

For the Fiscal year 2018/2019, SEAQiM completed a series of its core business, namely Courses, Research and Development, Structure of Syllabi and Learning Materials, Seminar, Workshop and Symposium during July 2018-June 2019. The detail of each activity is as follows:

A. Structure of Syllabi and Learning Materials Development

SEAQiM is undergoing five regular courses in 2019. One of the preparations done regarding this is Workshop on Structure of Syllabi and Learning Materials Development which was held on 4-5 September 2018. The workshop identified the teaching aids, materials and media to be used for the courses to run as planned. Collaborating with several mathematics education experts, this workshop achieve its target of developing 17 Syllabus for Course on Developing Lesson Study in Mathematics Education, Southeast Asia Realistic Mathematics Education, and Joyful Learning in Mathematics Education.

B. Regular Course

With funding from the Government of Indonesia the Centre carried out 5 Regular courses with 30 participants each. Theses courses covers designing and implementing lesson and action plans, producing support materials and media to enhance mathematics learning, and include exercises that demonstrate how to improve classroom dynamics.

The following table shows the list of our regular courses in FY 2018/2019.

No.	Title of Activity	Date	Venue	Achievement
1	Course on Developing Lesson Study in Mathematics Education for Junior High School Mathematics Teachers	25 July-7 August 2018	SEAQiM	Real Teaching was held at SMAN 1 Pakem 2018 CSI total: 88.18% with details as follow: Organization and Planning: 91.38% Content and Delivery: 89.02% Facilities: 87.84% Usefulness of Course Sessions: 84.48% Improvement between Pre and Post-test is significant with an increase of 95.08%
2	Course on Differentiated Instruction in Mathematics Education for Senior High School Mathematics Teachers	24 August-6 September 2018	SEAQiM	Real Teaching at SDN Jaten Ngemplak, Yogyakarta CSI total: 94.04% with details as follow: Organization and Planning: 95.40% Content and Delivery: 94.95% Facilities: 89.26% Usefulness of Course Sessions: 96.57% Improvement between Pre and Post-test is significant with an increase of 118%
3	Course on Clinical Supervision for Headmaster and Supervisors	10-23 October 2018	SEAQiM	Real teaching was held at SMPN 1 Sleman CSI total: 92.09% with details as follow: Organization and Planning: 92.09% Content and Delivery: 91.48% Facilities: 93.84% Usefulness of the course sessions: 88.96% Improvement between Pre and Post-test is significant with an increase of 5.88%

No.	Title of Activity	Date	Venue	Achievement
4	Course on Teacher Made Teaching Aids for Junior High School Mathematics Teachers	15-28 March 2019	SEAQiM	Real Teaching was held at SMAN 8 Yogyakarta CSI total: 96.30% with details as follow: Organization & Planning: 97.32% Content and Delivery: 96.31% Facilities: 95.01% Usefulness of Course Sessions: 96.56% Improvement between Pre and Post-test is significant with an increase of 52.16%
5	Course on Southeast Asia Realistic Mathematics Education for Primary School Teachers	28 March- 10 April 2019	SEAQiM	Real Teaching was held at SMPN 4 Depok CSI total: 92.69% with details as follow: Organization and Planning: 91.18% Content and Delivery: 89.27% Facilities: 87.20% Usefulness of Course Sessions: 89.40% Improvement between Pre and Post-test is significant with an increase of 23.37%

Customer Satisfaction Index (CSI)

SEAQiM implemented five regular courses with each training course attended by 30 participants. The programme for each course consisted of 100 hours. The course conducted were Course on Developing Lesson Study in Mathematics Education, Course on Differentiated Instruction in Mathematics Education, Course on Clinical Supervision, Course on Teacher Made Teaching Aids, and Course on Southeast Asia Realistic Mathematics Education. Besides theory, participants will also experience hands-on activities as well as implementing their developed Lesson Plan to chosen school in Yogyakarta.

On the implementation of its regular courses, SEAQiM conducted a course evaluation by the end of each week to collect information on the betterment of these courses. The evaluation includes several points such as Organization and Planning, Content Delivery, Facilities, as well as the Usefulness of Course Sessions. Out of these points, the Customer Satisfaction Index can be measured.



Outdoor Activity during Course on Teacher-made Teaching Aids for Junior High School Mathematics Teachers

The evaluation found that the Centre excels in most of the points above with the average CSI of 90%. Participants were impressed and very glad that they had participated in the course and are planning to implement them in their schools as well as sharing the experience with other teachers in their area. They expressed that the course increased their knowledge, especially in the teaching and learning area. They believe that what they have learned during the course is very beneficial for them. On the other hand, participants also mentioned that there would be challenges in implementing what they have learned, such as time constraints and also the facilities their school provide.

C. In-country course

SEAQiM is also organizing a programme which is supported by the Government of the Republic of Indonesia and the host institution. The Centre is open for hosts institution to send a proposal to conduct mathematics courses based on their needs. In this FY SEAQiM successfully organized 8 In-country courses. The details are as follows:

No	Venue	Date	Title	Participants
1	Samosir	29 July-8 Augustus 2018	In-country Course on Joyful Learning in Mathematics Education for Primary School Teachers.	30 Teachers
2	Lombok	10-14 December 2018	In-country course on STEM Education for Junior High School Teachers	40 Teachers
3	Semarang	7-10 October 2018	In-country Course on ICT for Primary School Teachers	200 Teachers
4	Medan	22-26 October 2018	In-country Course on STEM Education for Junior High School Mathematics Teachers	30 Teachers
5	Waingapu	6-9 August 2018	In-country Course on Joyful Learning in Mathematics Education for Primary School Teachers	30 Teachers
6	Ponorogo	26-30 November 2018	In-country Course on Teacher Made Teaching Aid for Primary School Teachers	41 Teachers
7	Hanoi	1-5 April 2019	In-country Course on Joyful Learning in Mathematics Education for Junior High School Mathematics Teachers	29 Teachers
8	Hanoi	1-5 April 2019	In-country Course on Joyful Learning in Mathematics Education for Primary School Teachers	24 Teachers



Teachers on Vietnam-Australia School, Hanoi experience how to teach mathematics in a fun way

In FY of 2018/2019, SEAQiM has the honour to train teachers both domestic and abroad through one of its primary programme, In-country course. Through this programme, the Centre expects to share best practices in mathematics as well as mathematics innovation for SEAMEO Member Countries. The Centre also believes that through this programme teachers will gain more knowledge in teaching mathematics in more creative ways. Based on the evaluation, the average of the Customer Satisfaction Index is 86.19%. These are based on 4 points: Organization and Planning, Content and Delivery, Usefulness of the Course Session, and Time Management. The programme covers 42 hours of theory and hands-on activities. Teachers enjoyed the course and felt that some subject needs a prolonged time.

D. Customize Course

The Centre continuously updates with the current issues of mathematics education. Aside from its main courses, the Centre also conducts Customized Course. This course is tailored based on the needs of the proposing institution. All funds will be shouldered to the proposing institution, and it is also responsible for organising the execution of the course.

In this Fiscal year, the Centre held 2 customized courses. The first customize course was held in Aceh Jaya Education Office on 22-26 October 2018. A total of 46 teachers benefited from this programme. Looking at the importance of STEM (Science, Technology, Engineering, and Mathematics), a series of courses were held in collaboration with Directorate of Junior High School Education. The course was held twice at Hariston Hotel Jakarta on 6-10 August 2018 and on 1-5 October 2018. It was also held in Yogyakarta on 27-31 August 2018 and in Makassar on 25-29 September 2018. This course benefited 240 teachers. During the course, participants were engaged in discussion, group work as well as presentation.

E. Research and Development

SEAQiM is committed to achieving its main goals in which one of them is conducting research and development in mathematics education. Through this programme, the Centre along with collaborating teachers/institution had the opportunity to search for knowledge, investigate systematically, with an open mind, to establish novel facts, solve new or existing problems, prove new ideas, or develop new theories at all levels of mathematics education. In this Fiscal Year, the Centre conducted a total of 2 main research programmes. The detailed information is as follows:

1. Mathematics Regional Wide Assessment (MaRWA)

Mathematics Regional Wide Assessment, or known as MaRWA, is one the Centre's initiated programme. Targeting only in SEAMEO Member Countries, this programme was developed to gather information on strength and weaknesses of year 5, 8, and 10 students in Mathematics. These grades are chosen deliberately as the students in these grades are approaching the end of their learning journey at primary and secondary levels, respectively. SEAQiM has undergone stages to develop mathematics items. These items are then tested out to a total of 740 students from Sleman Regency, Yogyakarta.



One of the School selected to join this programme is SD Muhammadiyah Condong Catur

Subsequently, following the tested items, a report was developed. These report will be presented in the upcoming workshop on August to representatives of Sleman Education Office. Based on the result, it can be concluded that students find difficulty in answering the Medium Order Thinking Skill and High Order Thinking Skill type of questions. On the other hand, students can answer the Low Order Thinking Skill type of problem without difficulties.

2. SEA Digital Class

SEAQiM, collaborating with SEAMEO Regional Centre for QITEP in Science (SEAQiS) and SEAMOLEC, held a program on ICT-based 21st Century Curriculum for Science and Mathematics in the Context of Southeast Asia. This initiative focuses on identifying learning domains in Science and Mathematics that are generic to all Southeast Asian countries and are representative of the realities of the region considering technology, national policies, learning contexts and conditions, as well as the regional vision of becoming a fully-integrated community. In the end, this process will help define what 21st Century Curriculum truly means for the Southeast Asian countries.

This programme was initiated in 2015. In this FY, two schools participated in the programme which was held online. The two schools were Silanga National High School and Victorino Mapa High School from the Philippines.

F. Special Training

In this fiscal year, SEAQiM held STEM Camp on 18-22 February 2019 at Tembi Rumah Budaya, Bantul, Yogyakarta. A total of 30 Junior High School Teachers actively participated in this programme. The Centre invited Kumano Yoshisuke, Ph.D from Shizouka University to share his experience and knowledge. This camp is designed to help teachers develop their skills in designing outdoor mathematics activities and to change student views towards mathematics. The outdoor activities enabled teachers not only having classes outside of classroom but also stimulating students to learn through playing, experimenting, as well as playing games that arouse a deeper understanding of the surrounding environment.



Prof. Yoshisuke of Shizouka University sharing his knowledge to the enthusiast teachers

G. Seminars, Workshop, and Symposium

SEAQiM has met its target of conducting 1 Symposium and 1 Seminar. The details of these events are as follows:

1. International Symposium on Mathematics Education and Innovation

International Symposium on Mathematics Education and Innovation (ISMEI) is a biennial event which aims to foster the exchange of innovative ideas and strategies for mathematics teaching and learning in modern classrooms. This international forum also provides an opportunity for mathematics educators to foster collaboration and partnership. The Centre held this symposium in 1-3 November 2018.

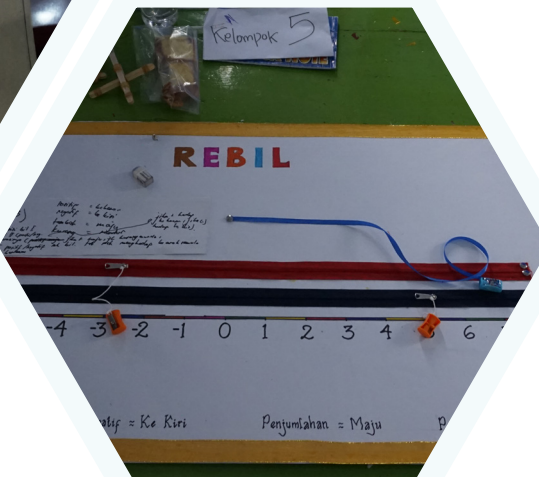
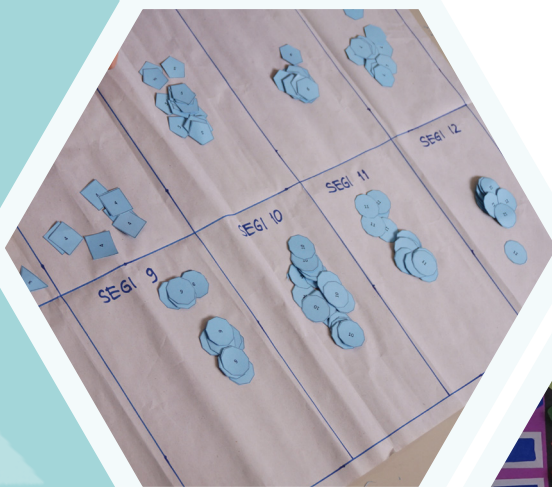
The theme for the 5th ISMEI is 'Preparing Future Generations Through Transdisciplinary Learning'. Workshop on Young Mathematics Constructing Emerging Mathematical Model. A total of 150 participants attended in this symposium. Five keynote speakers were invited to join this event and they were Prof. Lew Hee Chan from Korean University of Education, Chaiwuti Lertwanasiriwan, Ph.D from the Institute for the Promotion of Teaching Science and Technology, Prof. Dindyal Jaguthsing from the National Institute of Education Singapore, Dr. Lynda Ball from the University of Melbourne and Prof. Yoshisuke Kumano from Shizouka University. Besides the symposium itself, parallel workshops were also held in which was attended by the participants of the symposium.



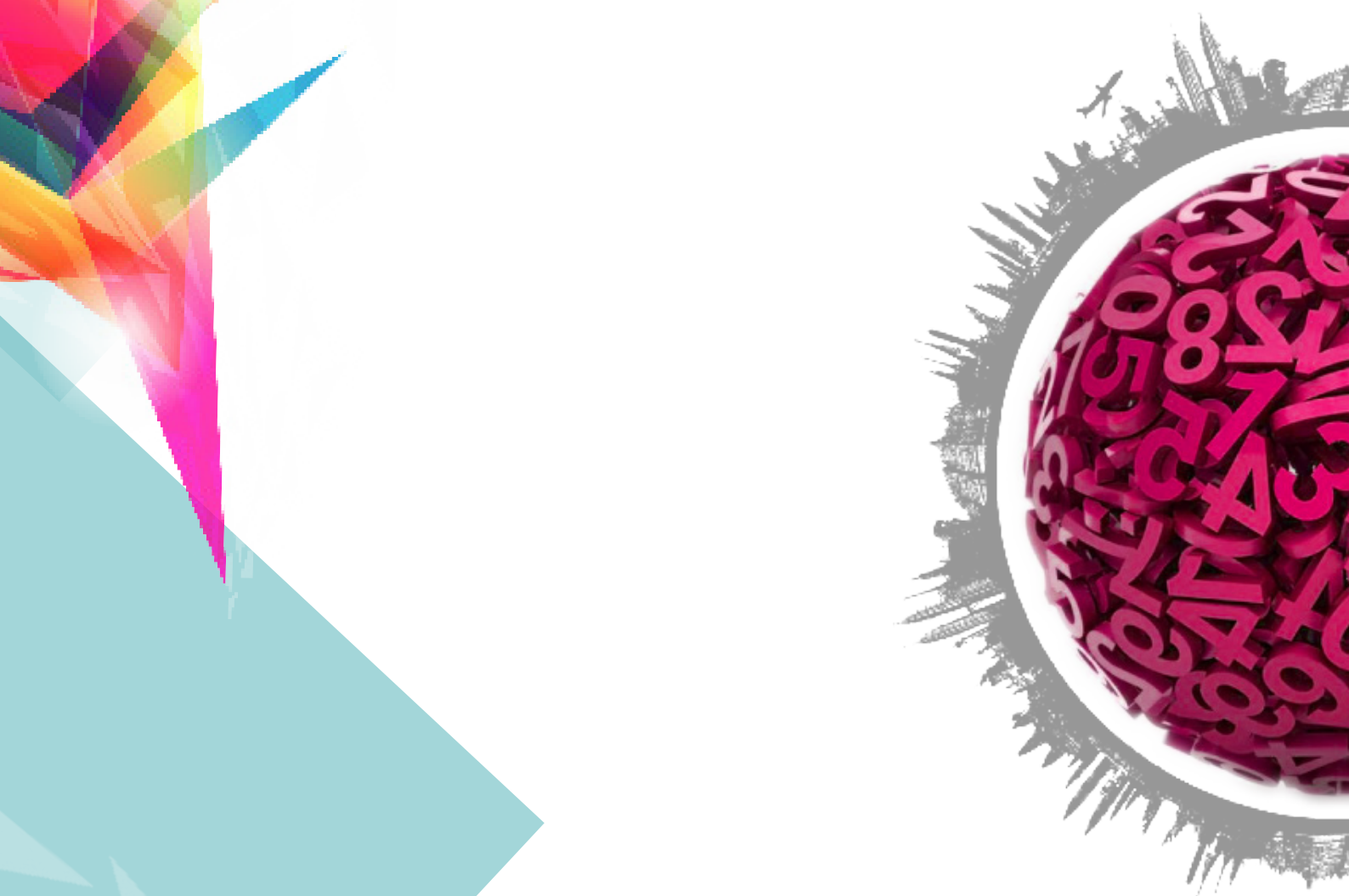
2. As a commemoration to SEAQIM's birthday, the Centre held a One-day Workshop on STEM & HOTS for Mathematics Teachers. The workshop was held twice, on 12 of July for Junior High School Mathematics Teachers and on the 13 of July for Primary School Teachers. In total, 60 teachers benefited from this workshop

H. Monitoring and Evaluation

The Centre conducted a Monitoring and Evaluation to ensure the level of achievement and impact on the overall programme. In the implementation, the Centre did an online survey to distribute the questionnaire and collect the data. From the report the Centre discovered that after participating the training, teachers gained more knowledge on mathematics teaching and learning. The survey also shows that teachers had difficulties in time constraints and the overcrowded curriculum









Key

Result

Area

Two

KRA 2

Regional Visibility



KRA 2

Regional Visibility

In FY 2018/2019 SEAQiM carried out 3 main programmes to improve regional visibility namely Information Dissemination, Network Development Building Linkages with Mathematics Teachers and Education Personnel Forum, and Marketing Initiatives.

A. Information Dissemination

The first programme is Information Dissemination which has 2 sub-activities including journal publishing and website development/improvement. The key performance indicator for the number of journals published/printed copies was a target of 2 volumes published and 500 copies printed in which unfortunately did not meet its target.

This journal was distributed to SEAQiM's course participants, schools, as well as to institutions collaborating with SEAQiM.

In addition, the activity of website development/improvement, which had the target of being completed within 12 months, was also achieved in line with this target.



B. Network Development

In conducting its programmes, the Centre has collaborated with a total of 75 institutions including other SEAMEO Member Countries, Schools as well as Government Offices. Collaborations were held in various programmes such as Regular Courses, In-Country Courses, Seminars and many more



Collaboration with Universitas Islam Sultan Agung Semarang

C. Marketing Initiatives

The third programme is marketing initiatives. There are four activities under this programme and they are exhibitions, audience with local government, give away, company profile as well as social media update.

In this FY, the Centre participated in 3 different exhibitions which give an opportunity to promote the Centre's programmes and activities as well as to strengthen linkages with other institutions. One the publication showcased during the exhibition is the Company Profile which has a summative summary of the Centres achievement since its day one.



Audience were intrigued with one of the games showcased in the exhibition during the Jogja Education Week

As another way of promoting the Centre, audience with local government was also conducted. In total the Centre has visited 4 education offices.

As part of the marketing initiatives, the Centre also held a Give Away for the social media followers with the most creative birthday wishes video. Two followers won a special merchandise from the Centre.

The Centre is also active in its social media namely Instagram, Facebook as well as Youtube. Updates of the Centre are posted in the Centre's Social Media. From the Youtube channel, audience can learn about innovative ideas in teaching mathematics as well as fun mathematical games.







Key

Result

Area

Three

KRA 3

Solid Resource Base

KRA 3

Solid Resource Base

There were two main programmes conducted within the solid resource base KRA during July 2018 – June 2019. The first programme was capacity building which covered human resource development, infrastructures, and facilities development. The second programme covered the permanent viability of funds and budget.

A. Capacity Building

1. Human Resource Development

The Centre manages its human resource effectively and efficiently to gain staff's maximum potential in doing their responsibilities as well as improving their competence. In Fiscal Year 2018/2019, the Centre sent their staff to join programmes provided by other Institutions

NO	NAME	TIME	VENUE
1	SAEMAUL Undong Training for SEAMEO Official	24-29 June 2019	Yeungnam University, South Korea Funded by the Ministry of Education and Culture of the Republic of Indonesia
2	18 th Asia Pacific Training Workshop on EIU	19-28 July 2018	APCEIU, Seoul, Korea Funded by APCEIU
3	International Conference on Teaching Statistics	8-13 July 2018	Kyoto, Japan Funded by SEAQiM
4	Intensive Training on E-Journal Management	7-8 August 2018	Oak Tree Hotel Semarang Funded by SEAQiM
5	Workshop on Analysis of Media Needs	3-5 September 2018	PPPPTK Matematika Funded by PPPPTK Matematika
6	Research on STEM	25 September - 14 December 2018	Southern Illinois University
7	Workshop on Character Values of Ki Hajar Dewantara Education	16-18 October 2018	PPPPTK Matematika Funded by PPPPTK Matematika
8	Workshop on Strengthening Corporate Communication in SEAMEO Centres	8-9 November 2018	SEAMEO BIOTROP Funded by SEAQiM
9	Workshop on Social Media Social Management	8-10 April 2019	Whiz Hotel Jakarta Funded by SEAQiM

2. Infrastructure and Facilities Development

In FY 2017/2018 SEAQiM renovations were made in 4 rooms.

B. Community Service Programme

Besides programmes mentioned above, SEAQiM also holds community service programme(CSP). In this FY, two CSP were held namely Mentoring Programme of Post Natural Disaster and Kampung STEM Joho.

On August, a massive earthquake hits NTB, Indonesia. There were many victims hurt and died. A team from SEAQiM were then sent to the location on 17-20 August 2018 to give moral support to the victims especially children.

The kampung STEM Joho was initially designed for societies nearby the headquarter of SEAMEO QITEP in mathematics, named Joho village. The programme has been initiated due to the responsibility of the SEAQiM and PPPPTK Matematika to people in the nearby areas. Pedukuhan Joho was chosen to be the first Kampung STEM established. The Kampung STEM Joho has been officially launched by Minister of Education and Culture of Republic Indonesia, Prof. Dr. Muhadjir Effendy in November 2018. The program engaged adults and school-age children in the Kampung with simple STEM activities. The Kampung STEM Joho activities were scheduled every Friday. The documentation of the activities has been posted and shared through MoE and SEAQiM website and social media. STEM products by the women of the kampung have been exhibited on many occasions.

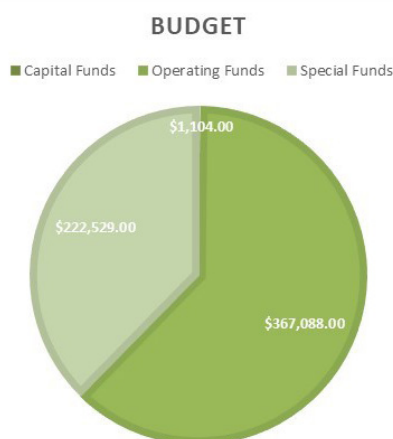


The Kampung STEM Joho has been officially launched by Minister of Education and Culture of Republic Indonesia

C. Permanent Viability of Fund and Budget

Most of the Centre's programme, activities, and operation for FY 2018/2019 were fully funded by the Government of the Republic of Indonesia, except for the activities under customized course.

In FY 2018/2019, the Centre received a budget amounted to USD 590,721. By the end of the fiscal year, the Centre was able to expend 97.96% of the budget mounted, which was amounted to USD 578,670.



D. Strategic Management Dialogue

The last programme focuses on strategic management dialogue. This programme included the Centres Directors Meeting (CDM), High Official Meeting (HOM), Governing Board Meeting (GBM) as well as Inter-centre Collaboration Meeting.

Initially, SEAMEO Secretariat held CDM to seek counsel and advice from the Centre Directors to carry out the directives of the SEAMEO Council. The meeting now serves as a forum to exchange ideas and viewpoints of new policy directions, to discuss SEAMEO's development programmes as well as to share achievements and experiences. In this FY the CDM was held at Amari Watergate Hotel, Bangkok, Thailand on 17-19 July 2018. Two delegates were sent to join this event.

The 41st High Official Meeting was also held in the same venue as CDM on 27-29 November 2018. Two delegates were also sent to join the meeting. This annual meeting reviews the programme updates by SEAMEO units in the previous year as well as considering the proposal of the new programmes involving regional level. In total, there were over 300 programmes that have been done or are in progress so far.

On September 16-21, the Centre held the 9th Governing Board Meeting at Grand Inna Beach Hotel and Resort, Bali. The meeting generated input and guidance on the programme that had been implemented from July 2018 to June 2019 and decision making for progress at SEAQiM for the next fiscal year were summarized in the proceedings that had been approved upon by the Governing Board Members.

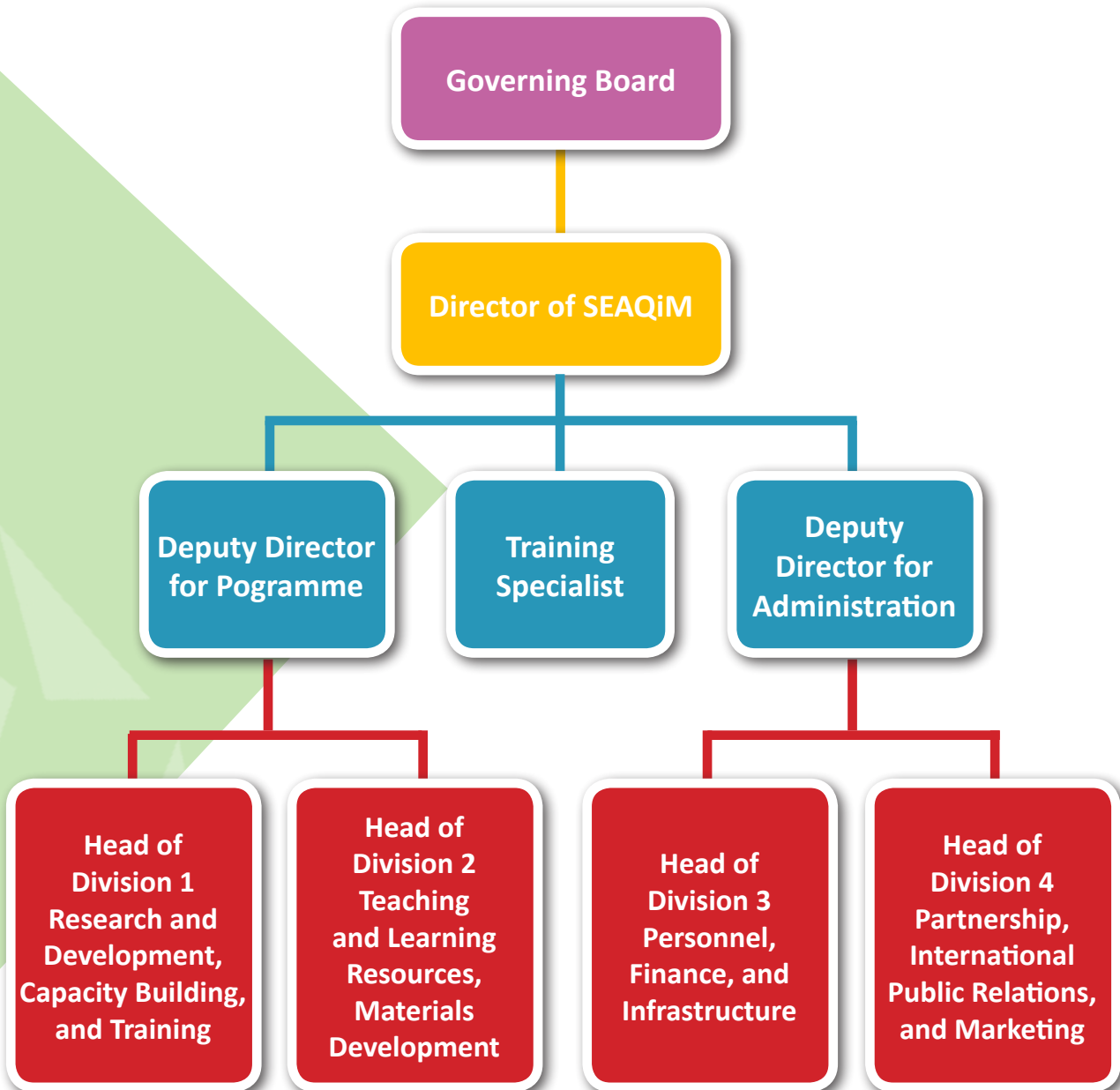


The Governing Board Meeting of SEAQiM held at Grand Inna Beach Hotel and Resort, Bali

Inter Centre Collaboration Meeting (ICCM) is a meeting for SEAMEO Centres in Indonesia to synchronise its programmes and operational towards achieving not only SEAMEO 7 Priority Areas, but also MoECs agenda. The Meeting is conducted once in every several months hosted by the Indonesian Centres in rotation basis. This meeting aims to harmonize and synchronize the working relationship among SEAMEO units in Indonesia. This will enhance the effectiveness and stability of the Organization. In this FY, ICCM was held at Hotel Menara, Slipi, Jakarta on 22-24 October 2018.

Organizational Structure

The organizational structure of SEAQiM is shown in the diagram below comprising of the Governing Board, Director, Deputy Director for Programme, Deputy Director for Administration, Training Specialist, and Heads of Divisions.



Organization Chart



Dr. Sumardiyono

Director



Dr. Ganung Anggraeni

Deputy Director
for Programme



Mr. Susetyo Widiasmoro

Deputy Director for
Administration



Mr. Wahid Yunianto

Head of Research and
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Mr. Suhananto

Head of Teaching and
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Division (TLRMD)



Ms. Caecillia C. K.

Head of Personnel, Finance
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(PFI)



Ms. Adityarini A. A. D.

Head of Partnership,
International Public
Relation and Marketing
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Ms. IGA Russasmita Sri P.

Training Specialist



Ms. Ummy Salmah

Training Specialist



Ms. Pasfita Ayu L.

Training Specialist



Mr. Bungkus Dias P.

Training Specialist



Mr. Gusnandar Yoga U.

Training Specialist



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01

*Clinical Supervision
in Mathematics Education*

CS

02

*Developing Lesson Study
in Mathematics Education*

LS

03

*Differentiated Instructions
in Mathematics Education*

DI

04

*Teacher-made Teaching Aids
in Mathematics Education*

TMTA

05

*Southeast Asia Realistic
Mathematics Education*

SEA-RME

06

*Integrating ICT
in Mathematics Education*

ICT

07

*Joyful Learning
in Mathematics Education*

JL

SEAMEO QITEP in Mathematics Governing Board Members 2018/2019



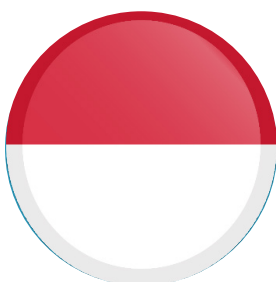
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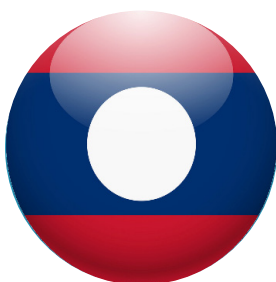
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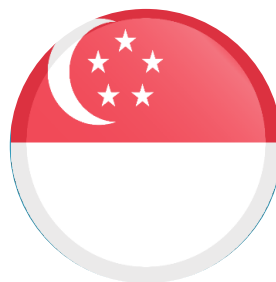
The Philippines

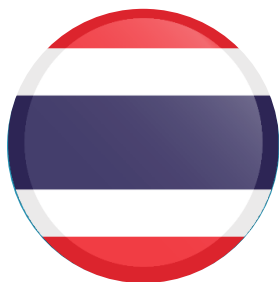
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