

JUBLI INTAN

FAKULTI PENDIDIKAN
UNIVERSITI MALAYA



years
Anniversary
Faculty of Education
Universiti Malaya

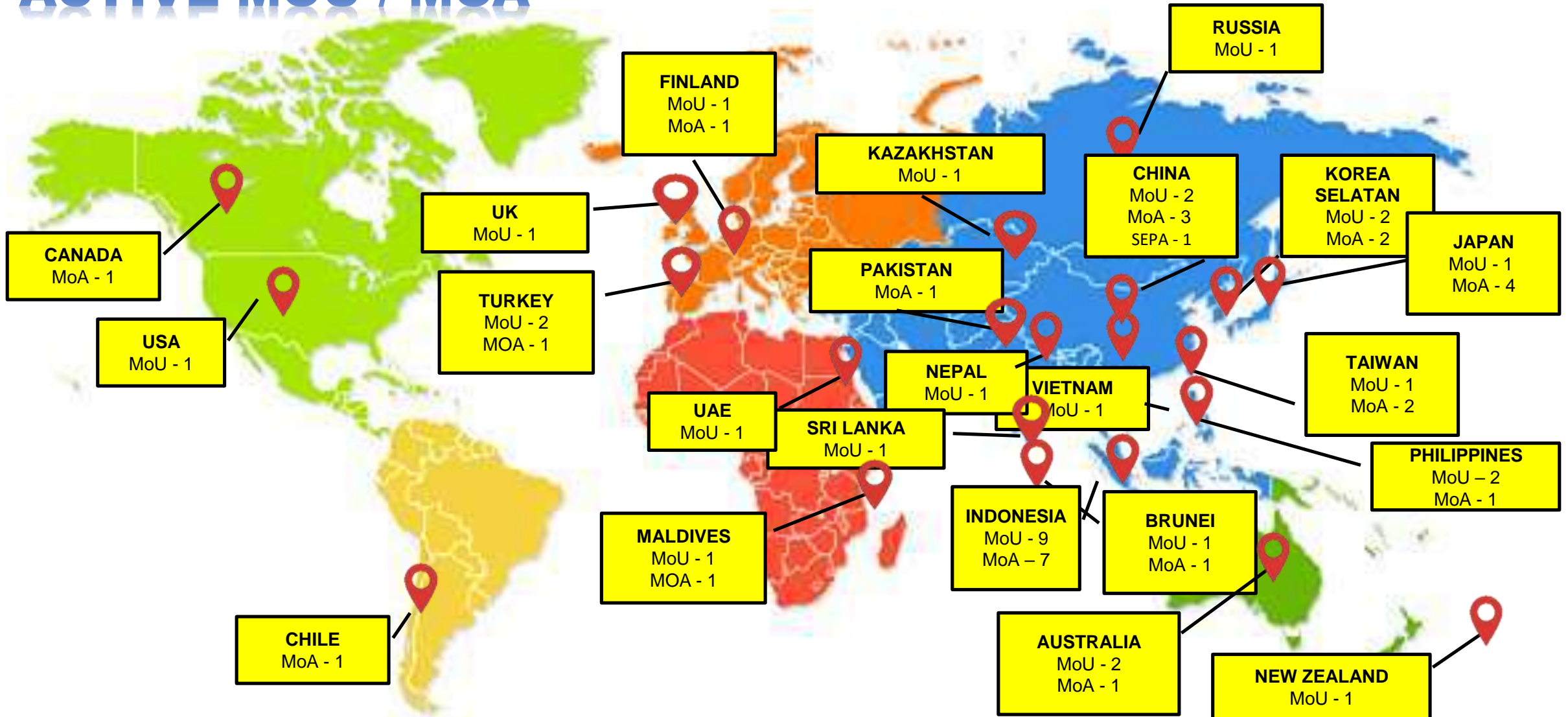
OUR RANKING



EDUCATION & TRAINING

2023 WE ARE #67

ACTIVE MOU / MOA



JOURNALS



Malaysian Online
Journal of
Educational
Management (MOJEM)
mojom.um.edu.my
Indexed in scopus



Malaysian Online
Journal of
Educational Science
(MOJES)
mojes.um.edu.my



International Online
Journal of
Educational
Leadership
(IOJEL)
iojel.um.edu.my



Educational Leader
[https://ejournal.um.edu
.my/index.php/PEMIMPIN/
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Online Journal of
Islamic
Education
(O-JIE)
ojie.um.edu.my



Asia Pacific
Journal of
Curriculum &
Teaching
(JuKu)
juku.um.edu.my



Malaysian Online
Journal of Psychology
& Counseling
(MOJPC)
mojc.um.edu.my



Journal of
Educational
Leadership
(JuPiDi)
jupidi.um.edu.my



Journal of
Issues
in Education
[https://ejournal
.um.edu.my/in
dex.php/JIIE](https://ejournal.um.edu.my/index.php/JIIE)



Journal of
Research
in Education
[https://ejournal.u
m.edu.my/index.p
hp/JIER](https://ejournal.um.edu.my/index.php/JIER)

Development of STEM Teachers' Conception on STEM Education



Associate Prof. Dr Rose Amnah Abd Rauf
Head

Department of Mathematics & Education
Faculty of Education
Universiti Malaya



Background of the program

Comparison of teachers'
conception on STEM Education

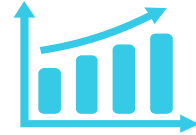
implication

BACKGROUND OF THE PROGRAM- SEED (STEM EARLY ENGINEERING DEVELOPMENT)

Training of trainers

For 32 primary science teachers

- Reengineering stem mindset
- Knowledge building
- Coaching & mentoring online
- Teaching & learning material innovation competition



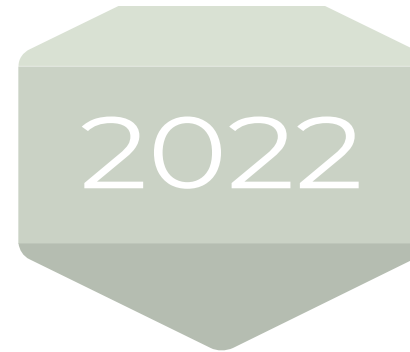
Rejuvenating STEM

- Involves 8 district in 1 state
- Develop program framework customize to each district
- Exposure to development of program proposal
- Execution of STEM program at 8 district

Funding:

60,000USD-2020-2022

15,000USD for 2023



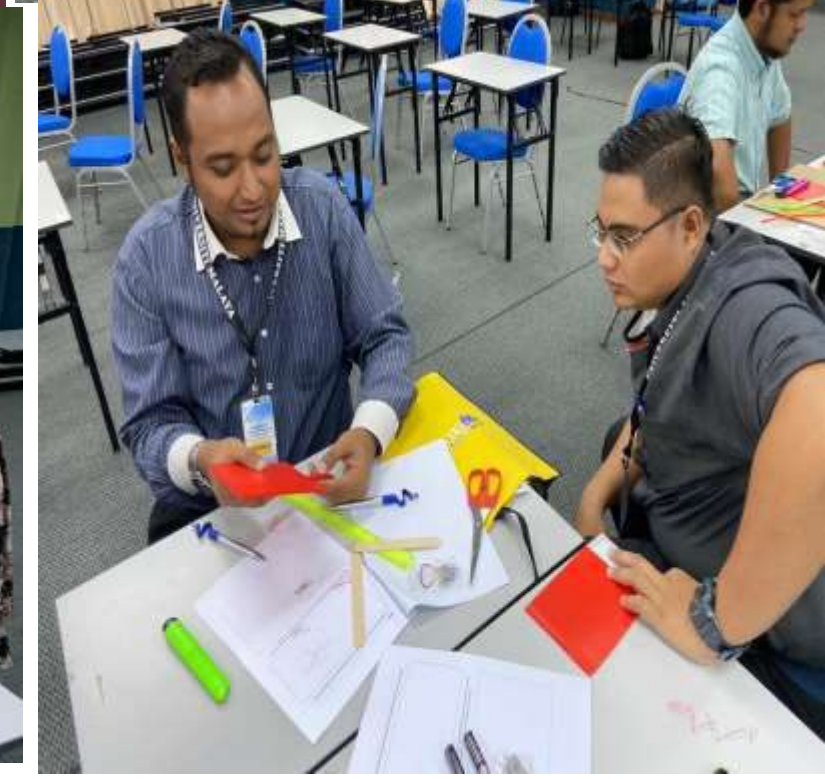
DEVELOPMENT OF STEM DIGITAL MODULE

- Online knowledge building- VR and AR
- Workshop on development of STEM digital module
- Development of MySTEM application



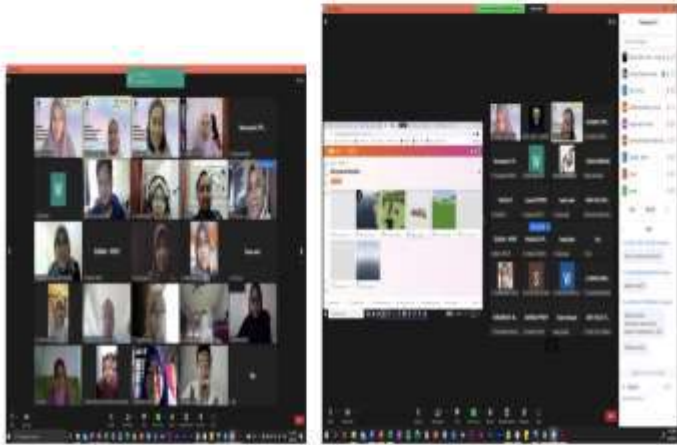
STEM research & innovation Smart Partnership (SRISP@UM)

- Smart partnership researcher-student-teacher
- Mission-student to nurture interest, teacher- bring activities and experience to school (Nanocat , Tropical Infectious disease, Institute of biological studies)

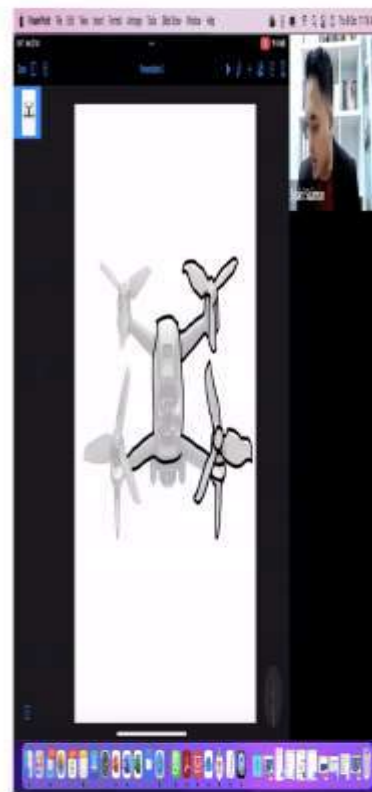


STEM GALLERY

Phase 1: DESIGNING INTERACTIVE 3D ENVIRONMENTS VR



Phase 2: STEM Digital Ideation using Augmented Reality (AR)



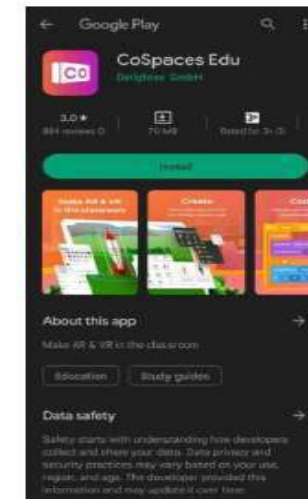
Phase 3 : STEM DIGITAL MODULE & MY APPS



2021

MySTEM Apps

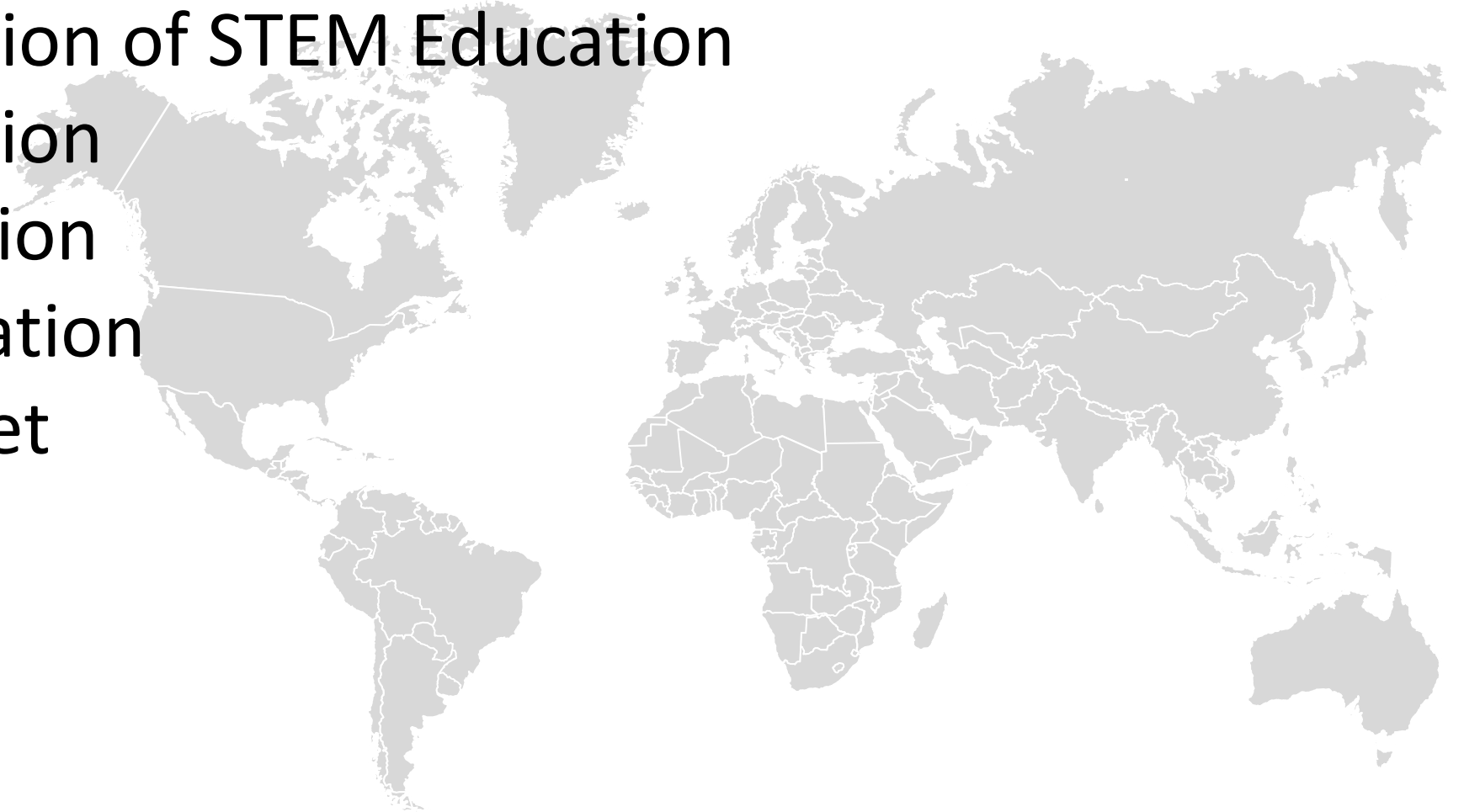
Sekolah Rendah



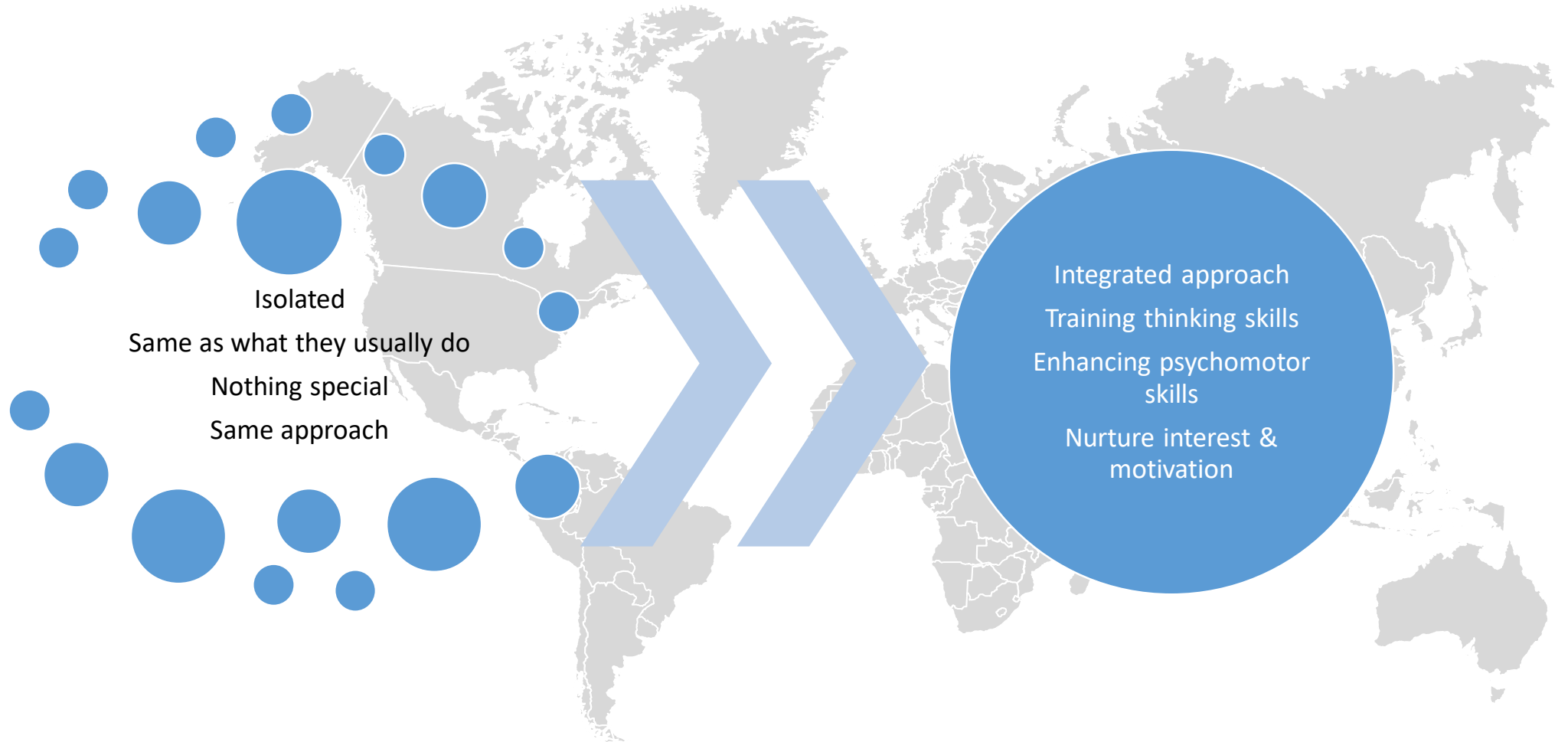


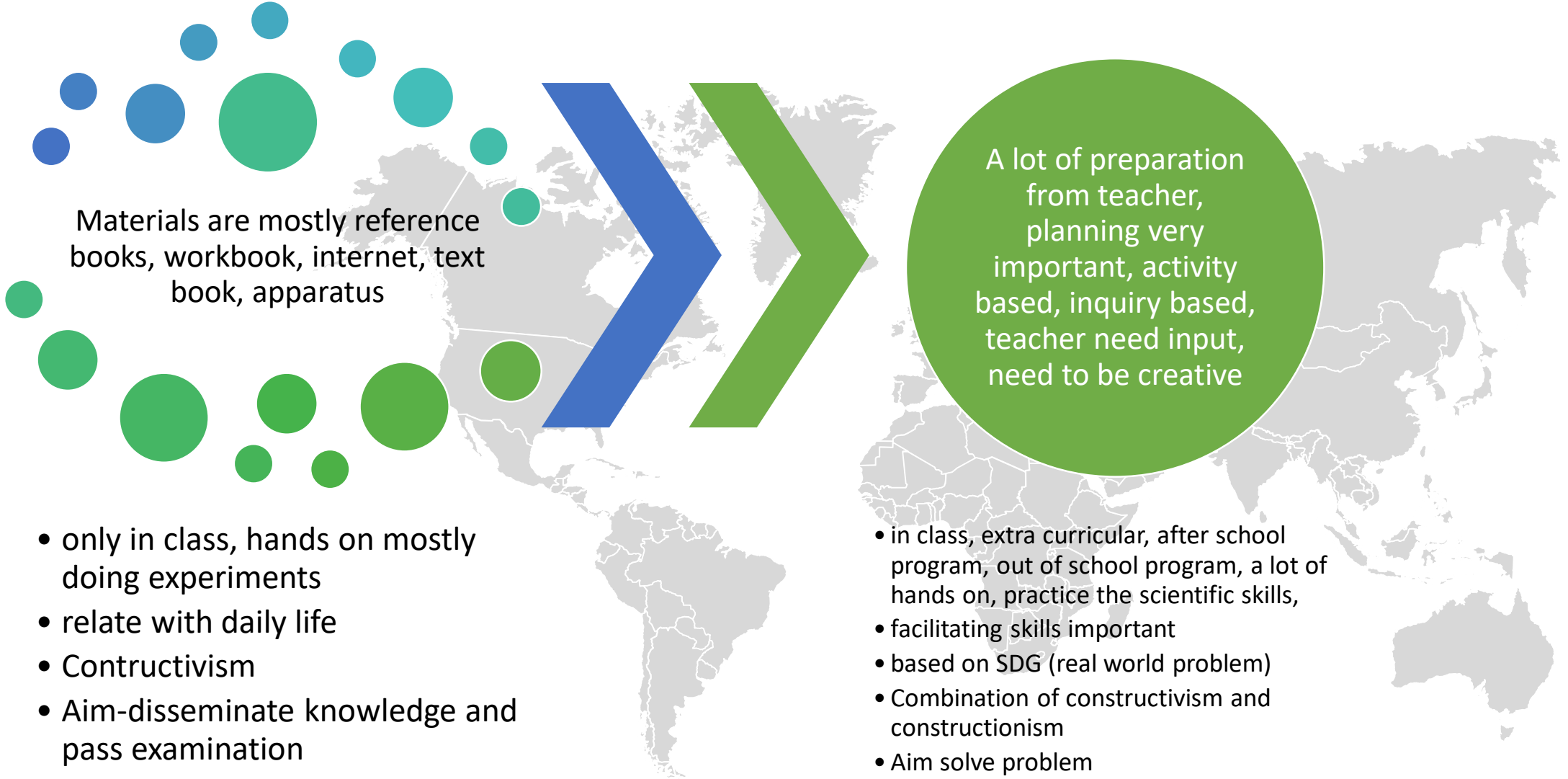
Conception of STEM Education

- Definition
- Execution
- Implication
- Mindset

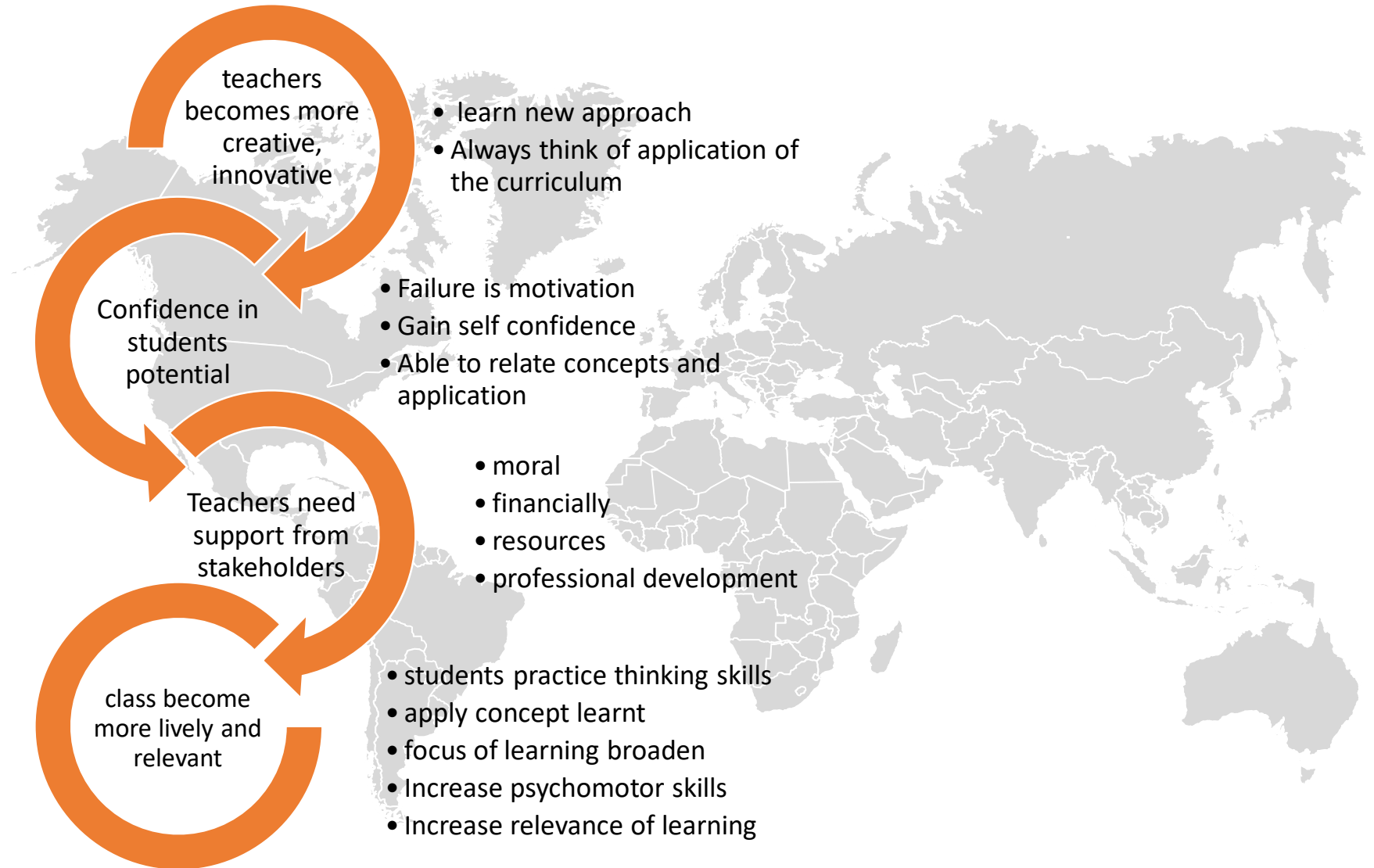


DEFINITION





implication





terima
kasih

Thank
you



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CONTACT AND VISIT



Education.um.edu.my



www.facebook/education.um.my



[UM_Education](https://www.youtube.com/UM_Education)



[education_um](https://www.instagram.com/education_um)