GALESS TiltShift Challenge 4, 2025
Information Pack 3
"Domain: Empty Pocket"
Singapore, June 29 - July 04, 2025

The GALESS TiltShift Challenge (GTC) addresses an effort to contribute to awareness about complex questions in different research-domains. In 2025, the research domain is connected to "Empty Pocket". The GTC "Empty Pocket" is looking for sustainable and responsible answers from our young generation coming in from each part of the world in this particular domain. The TiltShift Challenge Empty Pocket consists of 2 conference editions in 2025 with locations in Vienna-Austria and Singapore.

The TiltShift Challenge includes a standard period for research efforts and the production of a final report followed up by physical presentations. The conference held in Singapore will start on June 30, 2025 and end on July 03, 2025. The research activities are meant to be set in a school environment, in a school team of 3-4 students and a guiding teacher. Reference contacts from your school, local community, and region may have served as "living libraries" to support the research report as indicated in Information Pack 1 / 2.

GALESS TiltShift Challenge Singapore is organised by School of Science and Technology, Singapore. The organising team for the conference is contactable at galess@ssts.edu.sg.

Information Pack 3 consists of :
1. Provisional Agenda of Conference
2. Research Thesis Description
3. Submission of research report
4. Poster and Presentation Details and Rubrics
5. Participating Schools
6. Advices regarding travelling (Singapore)
7. Administrative Reminders

Provisional Agenda of Conference (June 29 to July 04, 2025)

Date	Activity	Remarks
June 29, 2025 (Sunday)	• Arrival teams in Singapore • Transfer to accommodation	SST personnel meet and greet Transport provided
June 30, 2025 (Monday)	• Breakfast at accommodation • 8:30 AM Pick up from Citadines Connect Rochester to SST	SST personnel Transport provided
	Arrival at SST and Opening Ceremony • 8:45 AM to 10:30 AM Group picture & School Tour • 10:30 AM to 11:30 AM Icebreakers • 11:30 AM to 12:00 PM Welcome Lunch • 12:00 PM to 1:00 PM STEM Workshop by Industry Partner • 1:00 PM to 4:00 PM Tea break • 4:00 PM to 4:30 PM Depart for accommodation • 4:45 PM	[Formal Attire] Tea break provided Lunch provided Tea break provided Transport provided Dinner not provided
July 1, 2025 (Tuesday)	• Breakfast at accommodation • 8:30 AM Pick up from Citadines Connect Rochester to SST	SST personnel Transport provided
	Project Presentation (Team SST and Team Wiedner Gymnasium 1) • 9:00 AM to 11:00 AM STEM Workshop / Educators' Conversation • 11:00 PM to 12:30 PM Lunch • 12:30 AM to 1:30 PM Paid Learning Journey and Cultural Experience • 1:30 PM to 7:00 PM Explore the heritage district and enjoy dining at your leisure Depart for accommodation • 7:00 PM	Tea break provided Lunch provided Free and easy dinner Transport provided

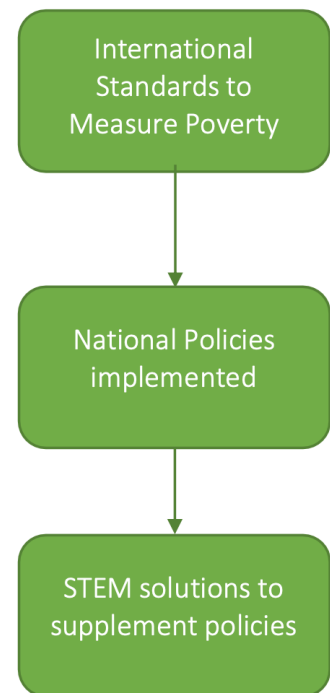| July 2, 2025 (Wednesday)	• Breakfast at accommodation • 8:30 AM Pick up from Citadines Connect Rochester to SST	SST personnel Transport provided
	Project Presentation (Team Montgomery Bell Academy & Bina Bangsa School) • 9:00 AM to 11:10 AM Poster Exhibition • 11:10 AM to 12:30 PM Lunch • 12:30 PM to 1:30 PM Paid Industrial Visit • 1:30 PM to 4:00 PM Depart for accommodation • 4:00 PM	Tea break provided Lunch provided [Attire: covered shoes] Dinner not provided Transport provided
July 3, 2025 (Thursday)	• Breakfast at accommodation • 8:30 AM Pick up from Citadines Connect Rochester to SST	SST personnel Transport provided
	Sharing by Anglican High School • 9:00 AM to 9:30 AM Project Presentations (Team Wiedner Gymnasium 2 & Team Dillmann Gymnasium) • 9:30 AM to 11:25 AM Preparation for Performance and Cultural Exchange Booths • 11:25 AM to 12:00 PM Lunch • 12:00 PM to 1:00 PM Cultural Exchange Booths • 1:00 PM to 3:00 PM Closing Ceremony • 3:00 PM to 4:00 PM Dinner Party • 4:00 PM to 5:30 PM Depart for accommodation • 5:30 PM	 Tea break provided Lunch provided Dinner provided Transport provided
July 4, 2025 (Friday)	• Departure of teams • Transfer from accommodation to airport	SST personnel Transport provided

Research Thesis Description

Do ensure that your project deliverables (report, poster and presentation) addresses the research thesis guiding questions below.

Question 1: Investigate your country's poverty status.

a) How does your country fare in the Multidimensional Poverty Index (MPI) developed by the Oxford Poverty & Human Development Initiative (OPHI)?

b) Examine the challenges faced by vulnerable groups in your country. How does your country fare in terms of degrees of social exclusion of the vulnerable population?

Question 2: Discussing measures taken to eradicate poverty.

a) Discuss and evaluate three policies your country has implemented to alleviate poverty, focusing on either capability enhancement or social exclusion reduction.

b) Propose a new or improve on an existing STEM solution that can be adopted to reduce poverty. Describe the scientific and technological concepts utilised and design a prototype to illustrate the proposed solution.

International Standards to Measure Poverty

↓

National Policies implemented

↓

STEM solutions to supplement policies

[1]Refer to https://ophi.org.uk/what-global-mpi for more information on the Multidimensional Poverty Index.
[2]STEM solutions stand for solutions that involve Science, Technology, Engineering and Math.

Submission of Project Report:

The required format of the report can be referred to in IP2 (pg 9, 15-19). Send your final research report to info@galess.org and galess@ssts.edu.sg by June 1, 2025.

Your research report will be published on the GALESS website one week before the conference and will be published in the GALESS Challenge book Empty Pocket end of 2025. The reports will be read by the local jury-team-panel as well as by a representative of the GALESS Jury Board.

Official comments and perspectives based on the reports and the presentation of the reports will be added to the GALESS Certificates for each and every participating team. Reports will be presented according to the agenda in the information folder. GALESS Certificates will be published and send to the teams one week after the conference.

The reports will be added to the GALESS Yearbook 2025 to be published in December 2025. Participating schools will be send a link to this book at that time.

Project Poster and PowerPoint Presentation:

Flow of each PowerPoint presentation session:

40 mins presentation session

Project presentation (15 mins) → Q&A from audience and judges (15 min) → Judges' comments and evaluation (10 min)
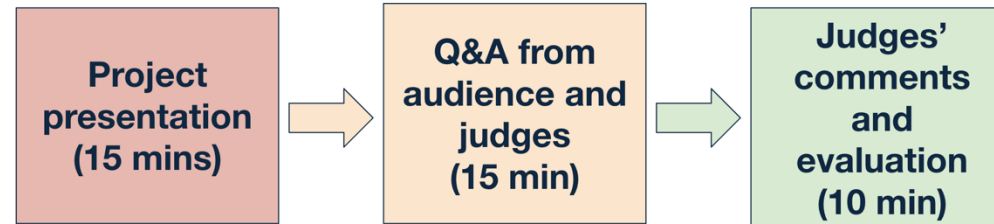
Update on poster presentation: Do print and bring your designed A0 posters and prototype for the conference, they will be displayed during the poster exhibition session.

Please find the rubrics for the project presentation below.

Segment	Level 0	Level 1	Level 2	Level 3
A. Evaluation of the country's poverty status using MPI "How does your country fare in the Multidimensional Poverty Index (MPI) developed by the Oxford Poverty & Human Development Initiative (OPHI)?"	No investigation of the country was presented.	A basic investigation of the country's poverty status was conducted and presented, with findings covering a few of the dimensions of the MPI. The presentation contains a vague description of the country's current situation.	An adequate investigation of the country's poverty status was conducted and presented, with findings covering half of the dimensions of the MPI. The presentation contains an adequate description of the country's current situation with a mix of exact and general information.	A thorough investigation of the country's poverty status was conducted and presented, with findings covering most of the dimensions of the MPI. The presentation contains a detailed and exact (quantitative and qualitative) description of the country's current situation, with the sources of information cited.

B. Challenges of vulnerable groups "Examine the challenges faced by vulnerable groups in your country. How does your country fare in terms of the degree of social exclusion of the vulnerable population?"	No challenges or degree of social exclusion was presented	The challenges presented were <u>brief, vague or unsubstantiated</u>. The presentation on the degree of social exclusion was <u>brief, vague or unsubstantiated</u>.	The challenges presented were <u>adequately informative and partially substantiated</u>. The presentation on the degree of social exclusion was <u>informative and partially substantiated</u>.	The challenges presented were <u>detailed, exact and evidence-based</u>. The presentation on the degree of social exclusion was <u>detailed, exact and evidence-based</u>.
Criterion	**Level 0**	**Level 1**	**Level 2**	**Level 3**
C. Policies to alleviate poverty (Q2a) "Discuss and evaluate three policies your country has implemented to alleviate poverty, focusing on either capability enhancement or social exclusion reduction."	No policies were presented.	One policy was presented. The presentation on the policies was <u>brief, vague and unsubstantiated</u>. The presentation <u>described briefly</u> how the policies enhance capability and reduce social exclusion.	Two policies were presented. The presentation on the policies was <u>informative and partially substantiated.</u> The presentation <u>adequately described</u> how the policies enhance capability and reduce social exclusion.	Three or more policies were presented. The presentation of the three policies was <u>detailed, exact and evidence-based</u>. The presentation <u>explained convincingly</u> how the policies enhance capability and reduce social exclusion.
Criterion	**Level 0**	**Level 1**	**Level 2**	**Level 3**
D. STEM solution to alleviate poverty (Q2b) "Propose a new or improve on an existing STEM solution that can be adopted to reduce poverty. Describe the scientific and	No STEM solution was presented.	The presentation on the STEM solution was <u>brief and vague</u>. The STEM solution is <u>unlikely</u> to reduce poverty.	The presentation on the STEM solution was <u>adequately described</u>. The STEM solution is <u>likely</u> to reduce poverty to <u>a limited extent</u>.	The presentation on the STEM solution was <u>detailed and exact</u>. The STEM solution is <u>likely</u> to produce a measurable reduction in poverty.

technological concepts utilised and design a prototype to illustrate the proposed solution."			The science principles underpinning the STEM solution were mentioned.	The science principles underpinning the STEM solution were explained.
Criterion	**Level 0**	**Level 1**	**Level 2**	**Level 3**
E. Q&A	Could not answer the questions.	The answers were irrelevant to the questions and incoherent with the presentation.	Only some of the answers were specific to the presentation and coherent with the presentation.	The answers were specific to the questions and coherent with the presentation.
F. Presentation Format	No presentation.	The presentation has a random order. Few slides are effective in supporting the ideas presented.	The presentation has a mostly logical order. Some slides are effective in supporting the ideas presented.	The presentation has a consistently logical order. Most slides are effective in supporting the ideas presented.
G. Presentation skills based on PVLEGS (Poise, Voice, Life, Eye contact, Gestures, Speed)	No presentation.	The presenters presented the information without engaging the audience.	The presenters achieved a basic level of engagement with the audience.	The presenters achieved a good level of engagement with the audience by demonstrating good poise, voice, life, eye contact, gestures and speed.

Participating Schools

S/No.	School	Website
1	Anglican High School Singapore 4 students / 2 guiding teachers	https://www.anglicanhigh.moe.edu.sg/
2	Bina Bangsa School Jarkarta, Indonesia 4 students / 1 guiding teacher	https://binabangsaschool.com/
3	Dillmann Gymnasium Stuttgart, Germany 4 students / 1 guiding teacher	https://dillmann-gymnasium.de/gymnasium/start
4	Montgomery Bell Academy USA Nashville, USA 4 students / 2 guiding teachers	https://www.montgomerybell.edu/
5	Wieder Gymnasium Vienna, Austria 6 students / 2 guiding teachers	https://www.wiednergymnasium.at/
6	School of Science and Technology, Singapore Singapore 4 students / 1 guiding teacher	https://www.sst.edu.sg/

Advice for travelling to and in Singapore:

1. Prepare required documents

- Valid passport (with at least 6 months validity)
- Visa (if applicable) — check if your nationality requires a visa for Singapore
- Comprehensive travel insurance covering medical emergencies

2. Weather & clothing

- Singapore is hot and humid (25–32 °C) year-round. Do remember to pack your sunscreen and mosquito repellent (if needed!).
- Other than your formal school attire, you can bring light, breathable clothing when you travel around Singapore during your free time. Do also remember to pack a pair of covered shoes for the learning journey on Day 3.
- Do also pack an umbrella or rain jacket as we tend to have frequent short rain showers.

3. Currency & payments

- Currency: Singapore Dollar (SGD)
- Cash is useful for hawker centres and small shops, but most places accept credit/debit cards. There is also easy access to ATMs and money changers.

4. Health & safety

- Tap water is safe to drink.
- Singapore is very clean and safe, but do still practice basic precautions (watch your belongings in crowded areas!). Low crime ≠ no crime.
- No eating or drinking in MRT trains/buses (fines apply).
- Please take note of the following emergency hotlines:
    - Police (non-medical emergencies): 999
    - Ambulance & Fire Brigade (medical or fire emergencies): 995
    - General Emergency Ambulance (private services): 1777 (for non-life-threatening cases)
- There are strict laws on drugs, vandalism, littering, jaywalking and restrictions on smoking in public places in Singapore.

5. Transport

- Public transport in Singapore is efficient, safe, and affordable, including options like the MRT and buses. You can purchase an EZ-Link card to conveniently pay for your rides at MRT stations or convenience stores.
- Walking is common in city areas, do prepare a pair of comfortable walking shoes for Day 2 and 3.

6. Time zones and electrical connectivity

- Singapore's standard time runs on UTC +8 hours.
- Electricity in Singapore runs on 230 V, 50 Hz, Plug type: Type G (3 rectangular prongs in a triangular pattern).
- Do remember to bring a Type G travel adapter if needed and also a voltage convertor if your devices are rated for 110 V. Most modern devices (laptops, phone chargers) are dual-voltage.

Administrative Reminders

Thank you for ensuring that Forms 1 - 3 were completed to help us organise a smooth and fruitful conference experience! For those who have yet submit Form 1 and the full conference fees, please refer to the email dated 2 April 2025, titled "GALESS 2025 Conference Fee, Registration Details and Reminders" for instructions on how to proceed with payment and for the links to complete the forms. Thank you for your cooperation!

☐   Payment of Conference Fee (if you have not done so)
       Deadline: 22 April 2025

☐   Complete Form 1: Registration Form (if you have not done so)
       Deadline: 13 April 2025
       This form collects:
           -   information about your school and your team (to assist us in introducing your team)
           -   your team's dietary requirements and allergies (for food arrangements purposes)
           -   Submission of your media release forms

☐   Submit the project report by 1 June 2025.
       We will be passing a copy of the report for the jury to read before the judging.

☐   Prepare a PowerPoint presentation and an A0 poster based on your research thesis for the conference (30 June – 3 July 2025)

☐   Bring all necessary items for setting up your cultural exchange booth and for your performance (if applicable). (3 July 2025)

Please complete the above following the stated deadlines. Feel free to reach out to us if you require any clarification or assistance!