Salam and Salam
hello good morning ch
Sai Mingalaba and magandang Umaga on behalf of the organizer Simo
Regional Center for special educational needs simio sen and our collaborators at
Tech Hub and Simo Regional Center for education in science and mathematic Simo
rum I would like to welcome everyone to our webinar on empowering Educators
navigating the integration of generative Ai and education in Southeast Asian
context I would like to also welcome teachers education officers parents and
school administrators from all over the southe Asia region and Beyond as some of you
might be tuning in
to us from various time zones allow me to say good morning good afternoon and good
evening we would like to also express our sincere thanks to everyone for being
with us today today this webinar is expected to run for about 3 hours packed
with valuable sharing from our esteem invited expert from the Ministry of Education
Malaysia, EdTech Hub, The Institute of Education University of Chile, SEAMEO Innotech
and SEAMEO STEM-ED. We hope you will stay tuned with us until the end of the
webinar allow me to introduce myself my name is zul carine and I will be the MC for the
next three hours of our webinar. ladies and gentlemen for your information this webinar
aims to explore how AI can enhance teaching practices and personalized learning
experiences
while exam examining the competencies and standards required for its
integration into education participants will also engage in discussion on the future
impact of AI
policies and practices recording stopped and gain insights recording in
progressing AI to transform education in the southe Asian context before we go any
further allow
me to share some notes as reminders for all participants we hope all participant
will tune in from the start until the end of the webinar to avoid missing out
on important sharing and announcements kindly refrain from using the comment
section for conversation
with other listen instead you may address question to the speakers please avoid using
simplified
words in your notes so that the webinar Secretariat and Others May understand you
better if you have sound or video issues issues you may try the alternative live
Channel such as our YouTube live and Facebook live links are available in the
description section below the
screen e certificate shall be issued only to registered participant for those
who have yet to register you may still register at our CSN integrated Excellence system
C site by scanning
this QR Code E certificate will be available upon completion of the webinar
evaluation on the C site evaluation will be activated at the end of the webinar rest
assured we will remind you again at the end of the webinar please complete both
regist ation and evaluation within today after the announcement after this
announcement or before 12 midnight
Malaysia time and if you need further assistance you may reach us through our
email communication at s.edu ladies and gentlemen moving on with the

agenda we are proud to have with us here today six distinguish speakers not only from the Asia continent but also from the South American continent we will definitely Enlighten and enrich us
we will also be listening to special sharing from our teachers on how they Incorporated AI in their teaching and
learning in the classroom let us now listen to the opening remarks from Madame Jamila binti Kadi

the director of SEAMEO SENS, Madame Jamila the floor is yours.
[Opening Remarks by SEAMEO SENS Director Madamme Jamila Binti Kadi]
Greetings from s Regional Center for special ed educational needs Sim
your ladies and gentlemen as we embark on this insightful webinar on empowering Educators navigating the integration of generative Ai and education in the Southeast Asian context I am filled with gratitude and optimism for the future of Education in our region we are honored here to have with us our distinguished speakers Mr Zainal Abas Director of Education resources and Technology division from the Ministry of Education Malaysia Mr Jazib Zahir Pakistan co-lead from attech Hub Miss haani mazari Asia lead and digital personalized learning focal point from atch Hub Professor Roberto Araya full Professor from The Institute of education ciae and attorney Ira Pozon chief of
staff and manager legal policy and quality management office from SEO inch
and not forgetting Dr kritsachai Somsaman director of SEAMEO STEM-ED. Firstly, I extend my hefel thanks to our distinguished speakers and moderators for joining us today to share their
invaluable knowledge and perspectives your expertise will be crucial in highlighting the challenges
and opportunities presented by degenerative AI in education we we look forward to your contributions that will deepen our understanding and Inspire us to think creatively about harnessing AI to enhance educational
experiences the goal of today's webinar is to create awareness about generative AI among Educators and also policy makers in Southeast Asia we aim to eliminate how AI can support personalized learning enhanc teaching practices and improve administrative efficiencies while also addressing the ethical consideration that come with AI integration a key focus of our discussions will be the importance of highlighting teachers competencies and standards in integrating AI into education as we move forward investing
in professional development and creating robust support systems for our educations our Educators is essential by
equipping them with the necessary skills and knowledge we Empower them to effectively leverage AI tools and create
more engaging inclusive and impactful learning environments ladies and gentlemen in conclusion let us seize the insights and momentum from today's discussion let us engage in open dialogues share best practices and work together towards a future where AI serves as a powerful Ally in our mission to provide quality education for all together we can navigate the integration of generative AI in education transforming challenges into opportunities and fostering a more

inclusive educational landscape in Southeast Asia thank you once again for your participation and contributions I
look forward to our fruitful discussions and the positive impact we will create together thank you Madame Jamila for the inspiring note
we have another important message before we begin allow us to share a brief video prepared by the Department of Education thep at the Philippines sharing on the 777 Flagship programs for fostering education under the Philippines SEO Council presidency for the year 2024 and
2025 let us watch the video now [Music]
the seio Strategic plan 2021 to 2030 serves as the guide of the Southeast Asian education sector to further promote sustainable human resources for a better quality of life in Southeast Asia and Beyond the seven priority areas are as follows achieving Universal Early Childhood care and education addressing barriers to
inclusion promoting resilience in the face of emergency promoting Technical vocational education
and training revitalizing teacher education harmonizing Higher Education and Research adopting a 21st century curriculum to further achieve the goal of Education priority areas to the southeast Asia with a strategic plan Battle Cry leading through learning the Philippines as the current SEO council president aims to take the lead in strengthening Regional cooperation in the southeast Asia towards education development inspired by the Philippines matatag agenda and guided by the seven priority areas of zimo we bring you the 777 Flagship programs of the Philippine SEO Council presidency [Music]
through this initiative we hope to foster a culture of collaboration in the Southeast Asian region as we learn from each other through the seven Flagship programs we envision one Flagship program to complement each priority area starting with Flagship program number one from policy to action Global Trends and best practices in early childhood care and education Flagship program number two experts meeting on child protection and Learners well-being Flagship program number three ready SE showcasing the integration of disaster risk reduction and climate change in the teaching and learning process Flagship program number four Elevate tet transforming youth Perceptions in Technical and vocational education and training in Southeast Asia Flagship program number five fostering collaboration and knowledge sharing building a community of Educators across SEO member countries Flagship program number six
scoping study on micro credentials Flagship program number seven experts meeting on AI in
education through sustainable Partnerships we hope to achieve transformation through learning Exchange building resilient systems as a region this 2024 we aim to launch Flagship projects
1 7 5 4 2 and 3 towards the end of our term we
aim to deliver Flagship program number six as we work towards our vision southeast Asia is envisioned as a region where collaborations in education will

Thrive and the impact of the seven Flagship programs of the
will continue to create a ripple effect to to the seal member countries let's
build a resilient system as a region by learning from each other as we take it
one Flagship program at a time the Philippines cmech presidency Flagship
programs upward together for every Southeast Asian [Music]
learner definitely something we look forward to
without further Ado allow me to introduce our moderator for the first session Dr
Muhammad AIS Sani M Jalil so
allow me to read his uh profile Dr aani Jalil is the deputy director of simio
sen a regional center for special educational need which promotes inclusive education
for all Learners
including those with disabilities in southe Asia his passion for helping
children with disabilities began when he discovered the importance of early intervention
for his own son which
diagnosed with autism Dr AIS is responsible for developing and
implementing programs that support the education and development for children with
disabilities he works closely with
Educators policy makers and stakeholders to identify best practices for
supporting children with disabilities and promoting their adoption throughout
the region through his work Dr AIS is helping to create a more inclusive and
Equitable Society for individuals with disabilities in Southeast Asia his
dedication and patient for promoting the rights and needs of children with
disabilities are making a significant impact on countless individual and
families may I now invite Dr AIS to take over in moderating the session Dr the
floor is yours thank you very much uh Mr MC Mr
nine and uh good morning good afternoon and good evening everyone uh Welcome to
our first session of uh this webinar on empowering Educators navigating the
integration of generative Ai and education in Southeast Asian context so
for our first uh session uh entitled the creating Awareness on generative Ai and
in this session um we are looking for the key benefits and risk associated
with the use of uh gener generative AI in education previously we we introduced
with the AI but now we have a generative AI introduced so we need to to aware and
understand what is a generative AI actually and the second one um how we
can effectively raise awareness Ness about uh this AI among Educators and
policy makers in Southeast Asia and lastly um what strategies can be employed uh to
ensure that EI technology is assessible and beneficial to all students
regardless of their background so to understand and to to to discuss about
all these uh objective or um the issues
that uh highlighted before uh we invited uh two esteem speakers um in in this uh
first session so without further Ado let me introduce uh our first s uh our first
speakers is uh Mr Jazib Zahir from EdTech Hub. Mr Jazib is a prominent figure in the
educational technology sector currently serving as the Pakistan co-lead for EdTech Hub.
his role involves uh bringing evidence-based
approaches to educational initiative across Pakistan with over 15 years of
experience uh Jazib has been pivotal in running software product Studios and
teaching at the University level his expertise extend to developing AI

training programs that have been implemented not only across Pakistan but
for also for several global companies jzip holds a bachelor in
electrical engineering from Stanford University and uh education master in
master in education in Technology Innovation and education from Harvard
University his work focuses on leveraging technology to enhanced educational atome
emphasizing the
importance of personalized and adaptive learning strategies he has also been
active in fostering inclusivity in education ensuring that my generalized
communities have access to Quality learning opportunities through Innovative Tech
solution so without
further ad you I would like to uh invite Mr Jazib for his session.

Mr Jazib the floor is yours.
[First Speaker: Mr Jazib Zahir's Talk]
Thank you so much for that kind introduction really excited exced about
spending the next 15 minutes or so kind of guiding you guys on the general
awareness uh with regards to generative AI relevant to Educators and policy makers
and also highlighting how um this
might be relevant to Southeast Asia so really looking forward to sharing all of this with
you as well as kind of gauging
your questions and kind of guiding you on this topic as best as possible so if
I look at uh kind of the general outline line I am looking to follow I would like
to start by kind of showing you guys the scale on which AI is going to operate I
want to kind of give you a sneak hint into how it works under the hood but I also want to
guide you on the
limitations it might have I want to guide you on how people might be using it in
education and I really want to
focus on what you'd want to know as a policy maker and I'd like to ultimately
guide you on what we should be expecting next so moving from the outline to my next
slide on the scale of AI now this visual makes it very clear that AI is exploding
as you can see over the years it's become the buzzword and particularly AI generative AI
is the one that people are
most excited about because for the longest time we thought that AI just couldn't do
creative tasks and the Boom
in generative AI has shown us that it can do a lot more than pre-programmed repetitive
tasks and it can be used to
compose post content and the kind of creative analytical content that's so Central to
how we work I always explain
to people that the reason AI has exploded today is because even though theoretically
we knew how to do all
these things for since a long time ago since the 1950s it's only now that the hardware
and infrastructure required the
data the storage the transmission has actually come to the point where it can support
what theoretically we knew what
AI could do so we are at that golden time at which the hardware and software
capabilities have converged but I also

want you to make you aware of the fact that this AI is not operating in a vacuum it requires tremendous Hardware
infrastructure compute and electrical resources and that's also something we should think
about policy think about the my next how I
always under the an Instagram advertisement might work on my next slide so you can see that the something
like Instagram or something like link usage what you click on what you write about yourself it applies its AI
algorithms to predict what you will do next so it's always trying to forecast
what you would do in the future based on not just your past Behavior but the past behavior of everyone around you now now
generative AI has basically just accelerated this trend of finding mathematical patterns in human behavior
and being able to forecast on large scale what we're trying
to what we're trying and it seems to be
work very well index my next slide about where AI has limitations where AI can hallucinate where AI can go wrong so so on the screen now you'll see this picture which is talking a bit about AI
hallucination so if in a generative AI tool you were to write down a pizza
eating hamster on a Hawaiian beach the such as a tool that generates images
based on promps so first of all you might observe that the images look pretty similar and the reason is because
a lot of these AI tools are trained on similar content but you'll also observe that the example on the right actually
has the pizza eating the hamster rather than the hamster eating the pizz such as the first tube and the reason is because
those subtleties of syntax that we understand in using language just do not translate well to AI tools so AI tools
can generate a lot of fake images and a lot of misunderstood images and we as Educators need to realize that before we
um give our students unbridled powers to using these things let's look at the
next slide where I talk a bit about the bias that comes into AI so if you use an AI tool to generate images around a
committed janitor it will always generate images of people that look
Mexican if you ask an AI tool to generate an image of an assertive firefighter it'll always generate an
image of a Caucasian male why because AI is amplifying our biases AI is being trained on publicly available data and AI is based on probabilities if probability says a janitor is going to
be Mexican AI will assume it's always Mexican if probability says the firefighter is going to be a white male
then AI will make sure it's always a white male M and these are the things we need to be careful about when using AI
my next slide shows another example of bias related to language and gender if you use AI tools to translate which a

lot of people do you looking at this example you'll see that if you try to
translate she is a doctor he is a nurse to Hungarian it gives you the output in Hungarian where the context of the
gender is not there but if you take the same sentence in Hungarian and use AI to translate it back to English it says he
is a doctor she is a nurse it actually flips the genders around why because probability Based on data says that
doctors will tend to be male and nurses will tend to be female based on the data available online so these kinds of
biases and online information are basically getting Amplified through all these AI
tools but that's just kind of an indication of the limitation let me come to my next slide which talks about some
of the powerful things we can do and I really do want to give you that message that there's a lot we can do with AI as
long as we are aware of its limitations Khan Migo of Khan Academy is one of the most well-known tools for AI in
education and the way AI Tools in education are different from General AI tools like chat GPT is if I ask chat GPT
what is seven multipied by four it'll just give me the answer it'll say it's 28 but if I ask an AI based educational
product like Khan Migo it won't just give me the answer because we as Educators don't just want to feed the
answers to our students we want to guide them through a certain growth mindset through a certain process on how to
figure it out we want to give them tips we want to scaffold things and we want them to ultimately come up with the
answers themselves so this slide illustrates what happens when you give the same question to Khan Migo and
instead of giving the answer it says let's figure it out together what you get if you add seven four times so it's
actually simplified the way you think about multiplication and made you think in terms of addition so the better the
fast improving AI in education tools are all tools that take this approach
coming to my next slide which uh talks about various Educational Tools in AI Figo is just one illustration this is a
screenshot from the tool magic school which is kind of a customized tuned optimized large language model
specifically for education and if you look at the wealth of resources they're offering here you can generate images
you can make lesson plans you can make rubrics so you will find that teachers around the world and I can certainly tell you that's the case in Pakistan are
already playing around with these things and finding them quite useful and what they're finding is these tools are
improving very quickly and they are actually saving their time and effort on things like making lesson plans by using
AI to generate them based on limited prompts my next slide shows you kind of

how it works this is a worksheet generator it asks you what grade level you want to make the content for it asks
you for a prompt you know what is the topic you want it on and the more detailed and the more precise The Prompt
the better is the output so what you'll find is these customized AI tools for education that are easily available uh
some are free for limited use and some are paid they can actually generate the kind of worksheets the kind of
Assessments the kind of content that teachers want and what teachers are finding is that not only are they pretty
much good enough to use right away they're also improving pretty fast which is great for everyone
involved coming to my next slide I want us to realize that yes AI is potentially
great for tutoring for um for counseling but it's also can be directly used for
people in administrative roles I mean the way schools are run there's a lot of administrative work and what you'll see
is that people are using AI for the job descriptions for writing proposals making newsletters coming up with
strategies to improve the school looking at data about children to identify who is detached and who is likely to um need
some rectification so these are all kinds of benefits that we're seeing from various tools for AI and education
coming to my next slide here's an illustration of some of the tools you'd seen around you I've talked about Han
Migo but chat GPT actually works very well in a lot of educational contexts I've mentioned Gemini which is
integrated in Google's toools and you'll see that it uses prompts to make it easier for you to generate your slides
and your documents and that's really something very useful in education I've mentioned lingi it's an example of a
language learning tool it has AI based speech recognition so children can improve their spoken English and it is
actually quite widely used in parts of Southeast Asia but particularly Taiwan so increasingly you're going to see AI
being used to help people practice their speaking practice their language skills and increasingly these tools are getting
better and better coming to my next slide thinking from the Hat of a policy maker distinguishing between the
opportunities and threats I would say AI is an great opportunity to personalize
content as per individual student needs it potentially can level the playing field by making all these resources
available at relatively low cost to a wide range of people not just people who already have access to the best teachers
and resources but there are threats as well because I've shown you AI brings biases there are errors and there are

significant physical resources that could be treated as centralized government-driven physical resources to
make AI accessible to everyone so building on from there on my next slide I talk about the expected impact of AI
and as a policy maker you should realize that AI is potentially bringing a lot of change to the economy and how we're
going to upskill people we need to think about the best way to invest in infrastructure how to test these
products before launching because they have bias and limitations can we explain how they work can we make them
transparent so people don't treat them as magic black boxes can we make sure that these AI tools are consistent with
our Democratic beliefs and how we want to treat data and most of all we need to pick and choose and decide how to use AI
applications consistent with what we believe about education so that we use the tools that Contin continue in the
same vein and spirit in which we want to continue education coming to my next slide I'd like to my which is my last
slide I'd like to hint at what you should be expecting next I would say these models are improving so fast that
even within a few weeks when you try the same tool you'll see better output and more features and you'll find that the
costs of implementing these things are falling so you're getting much more value for the money you spend
increasingly AI in education is multimodal it's not just text it's not just images it's not just video it's
speech and any possible way you can interact with content when I say tuning of models I mean optimizing models so
they're better for educational context such as what you saw with Khan Migo you're going to see more and more of
that to make these tools better for Education you're going to see more AI in curriculums you're going to see more schools around the world integrating AI
into all their subjects to make students and teachers aware of how it is relevant to their future you're going to find
that more and more schools are going to be training their teachers directly understanding Ai and how to use it and
ultimately I think even though schools are hesitant today to set an official policy on where to use a where not to
use it because it's so new and they're trying to understand it but I think pretty soon schools will start
converging on official policies on how it affects assessments how students are allowed to use it how teachers are
allowed to use it and to move towards certain best practices but it's a very exciting time in history because so much
is changing um there's a chance to develop expertise and something that's very relevant and I think we're all

coming together to figure out the best way to make it useful for everyone so with that I'll bring my General Session
on creating Awareness on this topic to an end and I hope you found it informative and useful and I'm looking
forward to any questions you guys might have thank you very much uh Mr jazzi uh it's very interesting uh topic and and also thank you to help us on
understanding uh on the very rapid development on eii
uh and now it's about the generative eii and uh I I really um yeah we always uh saw or we was find uh for example the the the image of the the hamster eating eating uh pizza so I think most of us have tried that uh the the application
on on yeah just to play play around and we can see the differences between uh how we prom and the uh results from our prom so to continue with our um uh understanding on on how uh about the awareness of uh generative
AI I would like to uh invite our second uh speaker for
today um let me introduce first uh our second second speaker uh before that thank you very much uh Mr Jaz again uh for the second speaker um we would like to invite Mr Zainal bin abas and Mr Zainal is the director of the bahagian Suber and Technology pican uh educational resources and Technology division at the Ministry of Education Malaysia in this capacity he oversees the implementation of the digital Educational Learning initiative IA or we call it as a Delma
which aims to enhance digital learning across the country his efforts focus on integrating educational technology to improve the quality and accessibility of education for students and teachers especially in the rural areas so under his uh leadership the division has successfully increased the digital competence of Educators and expanded
digital INF structure in school uh Mr Zainal has been instrumental in the roll out of the digital education policy which addresses uh critical areas
such as digital fluency among students digital competency among Educators Visionary digital leadership and quality digital content so his work also includes uh initiative to reduce the digital divide between urban and rural students by enhancing resources at teacher activity centers and ensuring internet connectivity across educational institution so without further Ado I would like to invite Mr Zainal Abas.

Mr Zainal Abas the floor is yours.
[Second Speaker: Mr Zinal Abas's talk]
SLE can you hear me can you hear me I can hear you yeah
yeah all right okay a very good morning to everyone
um thank you for the opportunity from simio for me to do a little bit of presentation on generative AI in
education as mentioned by Dr aiy earlier that Malaysia has rolled out our digital education policy um and of last year and of course it covers um all the Spectrum and the stakeholders involved in education in lascia the students the teachers uh the school administrators
the infra and infrastructure the content itself as well as our engagement with the parents

with the community uh the NOS as well as government agencies and all the respective bodies um which are involve
with education in Malaysia um my colleague I believe will
have a session to explain further on that I'll very quickly go through the slides because I have about like 28
slides to go through so I'm going to speak very quickly we're going to have a question answer session later for you to
to also um ask some question uh related can we go to the second
slide just a little bit of uh introduction on what is generative AI but the speaker before me has already
explained to you on uh generative AI basically it's any type of artificial
intelligence that can produce new text image videos audio clips um G AI also
learns pattern from training data and generates new and unique outposts uh
generative AI well models use prompts to guide content generation and use
transfer learning to become more proficient uh but of course uh nowadays
the artificial intelligent can actually learn from all the datas available to them and uh provide uh guidance uh to
the users on on uh the respected topics uh next
slide very quickly going to the next slide um if you look at the picture over there
is actually generated by canva um canva in which the slides have been uh made
with uh also have generative AI embeded in it in that it can suggest to the
users what to use but basically innovation in the field of AI continue
to shape the future of humanity across every every industry including in education and AI is already the main
driver of emerging Technologies like big data robotics internet of things and uh
generative AI has further expanded the possibility and popularity of the use of AI of course the main focus in the
Ministry of Education is to look at connectivity and infrastructure uh because that is our biggest challenge right now to ensure that all our students has connectivity
especially when they are in school uh the availability of infrastructure the uh devices to be made available to the
students uh we also look at the content available for the students to learn
online so learning is not only about going to school and attending classes uh but access to education should be made
available for them at any time and at any place that is why in Malaysia we
have developed our digital learning platform called The Lima uh which enables the students to have access to
education at anywhere and at any time and um we also look at the personalized
learning we look at teachers competency as well as AI literacy and
ethical use um AI uh we know since
2023 has become the main focus everywhere in all Industries uh which is
available um the image mentioned there is prompted through um canva but as you
can see uh the images of the people there are basically faceless it's like a
cartoon kind of thing but there is an AI uh for image in Malaysia it is called
pixa P iix LR it's available on our delimma platform and um they will

actually have better image than this one over here so with pixlab uh students or teachers or the
users can actually access um and they have ai generator image generator embeded inside pixa and you can actually generate uh pictures very easily uh you can you can just type in for example girl on a bicycle and an image of a girl near like image of a human um girl actually on a bicycle and you can even add more uh descriptive uh to help AI generate image so you can you can add for example girl on a bicycle with with the red balloon and the image of a girl on a bicycle on a red balloon would
appear and if you don't like the AI can actually generate more and more images um according to your liking for you to
choose okay very quickly next slide uh this is on our digital education policy as I've mentioned earlier we have six trust uh focusing on digital fluence students digital competency of students
uh sorry of teachers um because for the students to be fluent the teacher first of all have to to be competent we look
at Visionary digital leadership culture the school uh principles the school uh Headmasters have to be also on board with this uh in which they will have to give the support to the teachers as well as the students um in creating that digital culture in school um I've have touched on the infrastructure and infrastructure the content as well as
the Strategic uh Partners which we have in our digital education policy I think throughout the seminar my colleague will explain in depth on our digital education policy so we'll go to the next
slide this is just an uh elaboration of our digital education policy um in which apart from the six trust we also look at creating uh creativity or generating creativity and Innovation uh thinking among the children analytic data uh scientifically to be also uh embeded in our digital education policy problem solving ethical communication and collaboration is another element in which we focus on so it's not just
delivering the subjects like mathematics Science History and so on but also the skills like creative and Innovative thinking analyzing and uh using the data to provide with the proper decision making problem solving as well as effective communication are areas in character building in which we also stress on in our digital education policy I mentioned
about the digital learning platform next slide please uh which is called the Lima so in the Lima we work with our partners from Google from Microsoft as well as from Apple but mainly with Google to develop our the Lima platform with our Google classroom and we do have a a i in
it and if you uh click go to the next slide when when we look at AI what is in AI uh just now our earlier speaker uh spoke on Kingo if you look to the right hand side uh the logo with the green uh KH Academy that's the KH Academy so it's also um embedded in our Del Lima platform so if you look at this uh slide uh these are actually the AI tools available for teachers uh to actually help them in their uh learning in classroom so we have gmin ai we have chat GPT we have conquer AI which is a

platform to create and generate questions for teachers uh text project perplexity Ms co-pilot is there Bing
image generator is there pixel AI image generator the one I mentioned earlier is also there and we also have claw so it
is available there in our digital learning platform and it will depend on
the teachers to actually choose which one is more suitable for you um for um
what do you call it gimini for example um I think our speaker before has spoken very uh deeply on Kingo through the KH Academy um but basically uh through gimini AI for example we recently launched with our Google Partners uh the gimini AI Academy to help our teachers uh understand fully understand how to utilize gini um in their daily activities as well as in uh generating
lesson plans generating questions and so on uh but um gimini AI for example can generate lesson plans for teachers plus there's uh way in which you can also Source outside materials so if you need videos if you need uh worksheets uh there's a Google logo in which it will
access information or datas which are available U of our digital learning
platform perplexity is slightly different perplexity will give you the lesson plan for example when you prompt
it but to the side of the lesson plan uh there will be recommendation videos
there will be recommendation worksheets in which teachers can choose from as compared to gmin earlier which I mentioned it will give you the lesson plan and at the end we'll have available
for you the outside resources so it depends on which um platform the teachers would be comfortable in using
uh in order for them to use uh in their uh daily lives but when you look at the AI basically uh strategies on in our Malaysian education uh system uh if we go to the next slide it helps uh number one as mentioned by our earlier speaker to personalize learning um in which um it can be based on
student competency and the various level of learning in which they at as we know students learn with the different ability some would be faster to adapt
some would need the image like graphs uh statistics to help them understand some would prefer to uh look at videos um or read comics in order for them to understand for example on the top topic of dig on the topic of financial literacy for example uh so in order to
provide this personalized learning in our digital education platform we provide the contents um which the
students can choose from uh in order for them to pick the best method in which uh will help facilitate their learning uh of course we have our intelligent learning tools as well AI powered um
earlier last month uh with micro Microsoft uh Microsoft has handed over
the modules learning modules for teachers as well as for students on using uh Microsoft AI tools so it is
available for our teachers as well as our students uh to go through uh via our delimma platform um of course AI powered assessment and feedback is also available through our digital learning platform it is very easy now with the help of AI generative AI for our

teachers to actually um provide or generate assessment uh models in which
they can use to help uh the teachers I will give you examples further on um including the generating questions on
higher order thinking skill earlier I mentioned conquer which we have on our digital learning platform that is also
available but um AIS like gini I think KH Academy was mentioned earlier also
have the same ability uh next slide please ah this is uh only slide number nine
okay I've got 20 more slides very quickly uh looking at strategies foration education system uh teacher
training and support is very important to date uh with the help of Google over 2.5 million teachers have actually been
trained on uh the use of our Google uh platform learning platform um with apple
schools uh they are planning to train 100,000 teachers uh with another
thousand to be trained as learning coach um the teacher experts who will actually guide our Apple teachers and uh with Microsoft also Microsoft Educators um
are also part of the programs to help our teachers gain knowledge but of course when we talk about K Mingo the KH
Academy just now also have various courses especially on EI to help teacher understand and learn how to use AI to help them with their lessons in class so throughout the Lima platform actually we have quite a number of items available for our teachers um of course the focus on accessibility and Equity I've already mentioned which is very important I'm
very quickly going to give you some examples by our teachers this is the one I mentioned when we launched the gini AI
Academy can we go to the next slide uh this is an example of a teacher from um
bouet thingi geg is actually the Google educator group U and of course with
gimini unleashing creativity in lesson planning and question generation if we go at the next slide we can see uh the
actual uh program uh so what the teacher does is uh she logged into our Del Lima platform click on the AI uh next slide and uh just look at
Gemini next slide so all she did was she typed in
the prompter S Guru science I'm a science teacher uh level she's teaching uh the um 16 year old uh in in form four
in Malaysia so asking uh gimini to actually provide um the lesson plan for
Science and activity for classroom lesson uh for 1 hour so she actually
used her handphone uh to help provide those data and immediately it was generated at the bottom there so the lesson plan is already there the topic is sence form four uh next
slide here's another example in which she used Gemini to actually generate questions so um it it helps her not only to create the lesson plan but also to
create worksheets uh for her classroom and and I mentioned the outside Source if you look at the bot bot half of the uh table there on on gimini platform you can see
the Google logo so you click on that Google logo it will actually go to the
outside resources the videos the worksheets um and all the other supporting activities which will be
available for the teachers now this is in gim I mentioned on a perplexity is

slightly different perplexity to the left uh sorry to the right hand side they will provide recommendations on on
the various videos worksheets and so on uh next slide um so what she did once she had the question was that to transfer it to a Google sheet um so she transfers it to
a Google sheet next slide from the Google sheet she goes uh to her Google classroom and assign the task for the
students to actually perform the assignment online so our digital
learning platform actually provides the teacher with the opportunity as well as the student to use this Google Classroom
um to to generate uh activities so teachers uh post the questions um
provided for the whole class the students can actually perform the activity online and resubmit to the
teacher uh to actually gain uh feedback and to be marked uh next slide so this
is another topic um just just another example by the teachers uh teaching
science for uh third former um and of course talking on the third chapter
B the blood types uh next slide
please right so this is how it helps her the teacher just now increase efficiency
personalized learning tayor made uh materials for individual student need
enhanced learning cultivate higher order thinking skills among student as well as inquiry based learning develop students
who are inquisitive now the good thing I'm not promoting Gemini there there's uh so many other platform like Kingo
available online but with Gemini uh the lesson plans also recommend the teachers what to do okay for the more advanced student this is what you can do um this
are activities uh which can help enhance their learning for the slightly slower one these are the activ ities you can
recommend and based on the questions generated on the worksheet the teachers will actually have a dashboard uh to
help and analyze uh the questions for example to see how many students got question one right how many got question uh one wrong so that uh once they they
are able to analyze the the strength of witness of the students then they can diagnose what activity further needed by
the students actually to do their work uh just another example next slide this is uh by Mr tipan of SK Alam go to the
next slide he mentioned that through the use of next slide please the use of
Gemini helps uh to teachers like him to save time in order to generate high
order thinking skills Project based learning class based assessment as well
as man management and administrative tool next slide this example of what
what he did uh this is an example of higher order thinking skill questions for history uh for the primary four
that's the 9-year-old so basically he just prompt um gimini on on generating
the question and as you can see it is not in English it is in the Malay language which is the medium for our
schools in Malaysia so gini is able to comprehend the Malay language as well
but it is not only limited to English Malay it is also available in Tamil go to the next slide so that particular teacher tiban is also teaching the Tamil language so

here he with the help of gini he generate Hots question in bahas Tamil
The Tam language for year five students the 11 year old but there is still a
need of of course for the teachers to actually verify the questions in order for them to
ensure that it is in line
with our national curriculum uh that is that is a very important part uh for the teacher I
go to the next slide uh this
is also how AI can help them uh in uh creating Project based learning so he
just post a picture of a school the front of a school and uh the students
will actually gather information uh related to uh the
schools um by exploring on the internet and and and gathering information so
that that is also available on learning uh next slide uh we look at how um the
AI can help assist in yearly planning uh so this is the yearly plan uh for the
school sports day so it's very easy
you type in The Proposal will include the background the objectives and so on so
it's it's very easy for for teachers go to the next slide example on how the
paperwork or proposal paper can be assisting them uh program go of course
there's presentation by the
teacher so all this activities actually um by using gim um I think they can they
can easily create that uh working paper or proposal paper um to help in their
presentation go to the next slide uh this is another example by a teacher now
this is for this teacher is teaching a spe the special need students the slow lers in the
school and what she does is
actually she's using readalong readalong is a platform um available on our dma
platform with Google for Education it is available I think worldwide uh read
along uh to help improve the students reading ability there are other
components or AI which helps in the learning uh for example Microsoft um I
think they have Microsoft learning progress um in in KH Academy I I believe
K Mingo also have some reading AI to help students in their reading skills go
to the next slide I'm not sure whether this will be available but can you click on the
video it should be able to R only datas often face challenges in assessing
students reading levels using traditional methods one toone sessions
are time consuming and it's difficult to determine the suitability of books for
each students level ESP especially for those with special educational
needs moreover there's no clear record to referred to making it hard for
teachers and parents to track progress this hinders teachers from monitoring
and motivating students to keep reading very now the read along app is
here to solve this Problems by providing thousand of well Illustrated stories at
various level LS students read by pronouncing each
word and earn points in the form of Stars based on their reading level and
duration if there are any pronunciation mistakes the app corrects them students
can also click on words to hear the correct pronunciation the app offer interactive
questions to assess students comprehension the read along app is now integrated
with Google Classroom making it easier for teachers to monitors students
reading teachers can assign task directly in Google classroom by
selecting the books for students to read teachers and parents can track
students reading progress and quality through detailed summary reports

provided by the app [Music]
students are excited and motivated to read with read along the interactive features and rewarding system make reading a fun and engaging
[Music]
activity watch they explore new stories and improve their reading skills with joy he is my dog along is a webbased application and can also be downloaded from the Google Play Store for Android users this allows students to practice reading anywhere whether at schools or at home so what are you waiting for download the read along app now and start enhancing your students reading experience okay can we pause the video
right can we go back to the
slides yeah so it's the final slide actually but so just like to mention uh those are examples available for gimini of course on our Del Lima platform we have so many other AI so all teachers need to do is actually to explore all the AIS available on the the Del Lima platform and to actually choose the best suited for them and the most uh helpful for them to use um in the reading program just now Google has their read along but Microsoft we also have on our Delma platform the Microsoft reading progress via Ms teams um in which uh teachers can also access similar programs uh for helping students learn to read or improve their learning ability through KH Academy U I also believe they have various application or games uh in which the students can U perform um actually undergo and helps improve their learning as well including in the areas of vocabulary grammar as
well as uh language arts as they mention in in card Academy so it's it's available online there's a vast amount of resources available for teachers most of them are already embeded in our Del Lima platform but if you don't have Del Lima you can't access Del Lima in your
country you have it available online as well for you to access now apart from what we have shown with AI the system itself is also very important um I I just give example of mathematics for example students learn to um add to subtract and to divide uh so if they complete the medal on module on addition for example then there will be some exercises tailored for them and based on the exercises for example uh there's 25 exercises in which students uh will have to um go through after the 25 exercises
based on how fast the student answer how many correct which question correct AI or generative AI will be able to actually generate a recommendation okay for student a here's another 25 question to help in your understanding of addition for student B they might say okay you don't need um any more question you can go to the next chapter for student C here's another 10 question in which uh maybe in the first round you get some um answers wrong in certain area so uh here's another 10 question on higher order thinking skills for example to help uh your understanding and your ability uh to have that um solve the problem of higher order thinking skills so those are some of the uh powers of generative AI right now and it is also important uh that through the use of generative AI the system will learn the learning style of the student in order to help personalize learning for that particular student and also to recommend

uh the additional materials which will help help enhance the learner understanding and ability to progress very quickly according to the syllabus provided so I think that's that's me for now um thank you very much um I'm open to question
thank you very much uh Mr uh Zainal for the very insightful uh sh uh sharing session and and it is a very interesting example for the uh and it is an eye opener for for those who are very new to to AI or generative AI which is AI can really helps us to improve our daily task especially for teachers and not only for teachers but also for the uh students and yeah uh the AI also multil language like like mentioned by Mr Zainal just now
and uh I think we have a very limited time so uh we yeah we we have a lot of questions for those uh for for for both Mr Jazib and MrZainall but I only can allow two questions uh first question uh from Dolores Philippines uh to Mr Jazib um generative a is growing in education so it's important to know how to use it well how can generative AI be implemented in education effectively and what are the key challenges to address
in this process so um maybe in within 30 seconds or one minute to answer this uh sure uh thank you so much for asking this question I think this is something we're all trying to figure out my general guidance would be encourage
students to stay independent and to use the AI tools for support like tutors and to get feedback on things where they
might not be getting enough within the existing resources but not to become dependent on them and for the teachers
it's a way to kind of ramp up on knowledge in new areas and to do administrative staff and maybe some of
their grantt work in more efficient ways so I would say for teachers it's to kind of allow them to reassign their own time
to uh more value added stuff and for students it's to get feedback and to not become dependent on it that would be my
general guidance thank you very much uh for the response uh Mr jazzi um we have another
question but uh for this one for Mr Zina from MAA 86 um so the question is good policies
are needed to guide the use of generative AI in all areas in your opinion what are the recommended
policies that the Southeast Asian government should Implement to ensure development of ethics and generative AI
not only in education but throughout all
sectors uh you are mute Mr z uh can you unmute Mr okay can you hear me now
yes perfect okay you can hear me now right okay let me just address the first question um when we talk about uh
materials to use it is also very important that before we allow uh whome
use of AI I think the most important thing is for us to actually inculcate
the um ethics of using AI that is very important uh in Malaysia with our
digital education platform what what we're doing is we're working with our partners with Google with Microsoft with
apple as well as with Intel to develop modules on ethical use of AI so before

we allow the students to actually use the AI we educate them on the ethical use and I mentioned in my presentation as well that the AI has to be also in line with our national curriculum um of course they have that ability through the Lima platform what they do uh first of all the AI we we are trying to get the AI to get the information which are available on the Lima first to ensure that it is in line with our national curriculum and I also mentioned that teachers actually will have to have a proper verification or or to verify the informations available uh to them or generated by the AI to ensure that it is in line with the national syllabus and it is in line with what is supposed to be understood by the students now two good policies needed to guide the use of generative AI in all areas um recommended policies for South Asia um in fact uh in in Southeast Asia I think we working very closely through Simo uh for Innovation we are working with C inotech it is based in the Philippines I think some of my my friends are also online here with our Sim s session but simu anch can play a very vital role in in helping uh all the Southeast Asian countries or Southern Asian countries uh with the implementation and the policies uh Malaysia is always welcome um to to share our experience um as well as to work together with other countries to further develop uh policy is on the roll out of the use of generative AI for example in education uh but it is not just about generative AI uh when we talk about taxonomy of Education 4.0 or the digital education policy uh we have to look at other things uh which I mentioned earlier like character building problem solving which are elements which are very important innovation needs to be embeded in learning as well and all that actually um can be easily accessible throughout the Lima platform so Malaysia we are open um for for you to come and and visit us and for us to share some of our best practices as well as uh how we have developed and and working very well with the Giants in Google Microsoft Apple uh Intel to name a few thank you very much Mr Z yeah yeah uh we we we really want to invite everyone to come to Malaysia to to have a look and how uh Malaysia implement the AI in the uh in the recent uh program and uh I'm so sorry to all our speakers because we have a very limited time and uh thank you very much for for all the questions uh we only can entertain two questions uh you may uh post your question on the uh chat box of Facebook and YouTube so we can uh we will uh forward your questions to to to those speakers and thank you very much for the session one and back to you Mr MC Mr nine thank you Dr a and our esteem speakers for the wonderful session packed with a lot of information too bad that we have little time but we had too many to too much to share okay now let's move on to session two we have here with us today Dr Bala morali a science specialist from Sor reum all the way from the northern part of peninsula Malaysia from the state of Pang so allow me to introduce a little bit of pro Dr Bala profile he's currently serving as the science specialist in the South Asian Ministers of Education

organization Regional Center for education in science and mathematic in short Simo reom with 19 years of
teaching experience in physics and science Dr baala is an accomplished
educator with a PhD in Science Education specializing in educational neuroscience and physics education his career includes extensive experience as physics
and science teacher during which designed and implemented innovate Innovative curriculum materials and
mented students in both academic and extra curricular activities currently Dr Bala conducts cutting age research on Aid driven personalized learning and
develop Advanced educational methodologies to enhance Science Education Dr bala's work is Char
characterized by a strong foundation in educational Neuroscience a commitment to integrating AI in education and collaborative approach to advancing the
field may I now invite Dr Bala to take over in moderating the session Dr Bala
the floor is yours thank you very much Mr Zine so
good morning good afternoon and good evening everyone so welcome to our session on highlighting teachers competencies and
standards in integrating AI into education it's an absolute pleasure to have you all here as we delve into a
topic that is timely and transformative for the future of education so as we stand on the brink of
New Era integrating artificial intelligence in education is reshaping
how we teach learn and grow so this session aims to Spotlight essential competencies and standards to our
Educators uh needed to effectively harness the power of AI so we will
explore how AI can be a catalyst for Innovation creating more personalized and efficient learning
experiences and what it takes for teachers to thrive in this evolving landscape so without further ado let me
introduce our first Speaker **Miss Haani Mazari.** Ms Haani Mazari is at Tech hubs Asia lead and digital personalized learning focal point in her role she
collaborates with decision makers across South and Southeast Asia to promote evidence-based approaches to the use of
educational technology particularly inow low resource settings and emergency context H's effort focus on integrating digital personalized learning to enhance education accessibility and quality in challenging environments so before joining at Tech H
Honey work as a strategy consultant in the development sector where she
supported projects addressing education inclusion and Public Health in South Asia and East Africa she also has experiened as an at
Tech content developer creating learning solution for Blended learning in low Tech cont contents so hone holds master of science in Social and cultural Psychology from
the London School of economics and Bachelor of Arts in history and politics
from the school of Oriental and African studies her diverse background includes growing up in multiple countries such as Pakistan turkey the UAE Singapore and

England so now please join me in welcoming Miss honey mazari.

So the floor is yours Miss Haani Mazari.
[Third Speaker Ms Haani Mazari's talk]
Thank you very much Dr Bala um yeah thank you and great to meet you I think I when I heard your bio I was excited to
learn from you as well so I hope we have an opportunity to do that um I'm just going to share my screen so you can have
a look at the presentation that I have prepared and
hopefully okay can everyone see all good with the
tech fabulous can everyone see my screen
wait okay let me just try that again
okay deck malfunction this is why you always need to yeah yeah we can see now integrating
new technologies okay fantastic can everyone see now yes it's good great
okay thank you Dr Bala so you know today I want to tell you a little bit about
what we do at edtech HUB and how that we seek to shape the sector as we go forward around exploring the use of AI and education we are a Global Research partnership we bring evidence to action and really work deep in implementing with implementing Partners across the
world with the goal of empowering people to give them the evidence they need to make decisions about technology and
education now Tech technology one we've gone into a lot of the potentials of AI
but you know just a few decades back we've been thinking about other aspects of edtech and the potential that edtech
has to address the Global Learning crisis and we found that that potential was not being realized because there's a
lot of Investments being made in technology without sufficient evidence about what might work uh what might not
work and therefore we had a lot of investments in Hardware being made across the world um and devices that
eventually became Obsolete and policy makers and decision makers face an overwhelming choice of edtech solutions you know it's sometimes like a market space right where different providers
are coming to you and it really helps to know what may or may not work and
therefore to generate more evidence as you're trying and testing to help iterate the different innovations that
we're grappling with so in working you know with different forms of edtech for the past few years we have aced a set of evidence on digital personalized learning girls education teacher professional development participation and magic and messaging which is all around nudge me
nudge um Technologies and finally data for decisionmaking now I'm telling you a bit about this because yes the world of AI is something new to some of us right to
an extent the tool has become more sophisticated the predictions are becoming more sophisticated
however when I was back at the when I was back at the University of

sukua with many of you in the room right now on an event co-hosted by the SEO Secretariat on the use of generative AI I remember this moment where a lot of people in the room had this aha moment where they thought oh AI is simply another Tech Tool you know there's such
a hype how do we get through the noise and really think about what could work it's another range of tools that you
know educationists can work with that decision makers can work with to enhance the use the to enhance
education so for me this moment was really important because it provided an opportunity to really rightsize the use
of ftech while it hold the use of AI while it holds a lot of potential there's a lot of existing evidence we
can kind of use to inform these Pathways of decision making
so in doing so you know we at EDC Hub started thinking through we worked through a wealth of policy documents across Asia and Africa because we focus on you know low middle-income countries and we came up with these guiding questions for AI integration and
education and as you can see these questions are multifaceted right on one hand we talk about this overarching
layer that have has been touched upon by you know Mr Zol and Mr jip earlier around security around infrastructure around governance and then there's you know very very education and capacity uh specific aspect around nurturing Talent around promoting Equitable access to Ai and different Technologies and around local Solutions now there's a whole variety of
ways that countries are approaching these different things you know around security finding that right check right
size checks and balance between Innovation and between you know actually regulation and figuring out how to best use a particular tool and I know across the region of South East Asia so many different countries have developed some sort of stance on on AI or are in the
process of developing different stances like I know across Malaysia Thailand and the Philippines there's been a FOC focus on how to build enhanced capacity and nurture talents around AI how students
can be taught about AI in the classro how they can be ready for the you know for the next for the next for the
workforce as they you know enter This everchanging World um and then I know in Singapore and in Vietnam there have been different ideas on how to use AI that have been more integrated in policy I know other countries are experimenting as well but on how to use it to support
teaching and learning and you know this is so there's many different ways and dimensions we're approaching Ai and I
think from the you know previous presentations we've explored some of the use cases and how AI can be used to
Grapple with help teachers manage their workload to help the system overcome some challenges as well to help teachers

with lesson planning and then also you know to help students with more personalized levels of feedback so there
are many different use cases is but really you know again going back to the
security infrastructure and governance and nurturing talent and acknowledging that some of that is being approached
through policy and then there's a lot we can do to really deepen our understanding of access and local
Solutions and this is something I hope we can do start to do together I think it's going to be an you know it's going
to be a journey ahead but let's start that by thinking about how we're going to be promoting Equitable access for AI
in our country how are we promoting and integrating local solutions for Innovations in the Ed te in the
education sector and this is not so much about the actual Technologies even when we think about access you know I want to
I want to zoom a bit now let's think about how is AI expected to evolve the
role of a teacher and this you know comes from a paper developed by meta and Kumar and as they said as AI takes on
more instructional tasks the role of a teacher in the classroom evolves from being knowledge disseminators to
facilitators of learning so you know as the examples that were highlighted in the previous session around automating
administrative tasks this hopefully will allow teachers to invest more time in student mentoring or providing
personalized guidance or fostering critical thinking through introducing a growth mindset which can also be
supported through AI but the real thing is that educators will continue to play
a critical role in nurturing a social emotional environment for ethical use of
AI but also for their students generally however there are a lot of
concerns that were seen commonly surfacing across the world teachers are wondering and they wonder some some of
the same things when you know edtech or personalized learning Technologies were introduced to the classroom around
whether their job would be a threat around whether students would have more access to information than
they do whether their students are going to be plagiarizing and how to manage this new level of access to information
and how that informs the different submissions that students are making and finally some teachers are
also left wondering what is AI so there's really a wealth of questions in this space and the concerns that emerge
from these are something that we need to engage with because at edcub what we've seen is that concerns often lead to
barriers it's not just about access to technology as I said so concerns about
balancing edte with imple edtech implementation with teachers workload in digital personalized learning

implementations that we've researched has led to low teacher buyin in the
use of edtech fear of being replaced by technology has also led to low teacher Buy in and finally frustrations from
deck related challenges that are posed by one not knowing how to operate the you know the equipment or the technology
or two just having you know an infrastructural mismatch where perhaps the infrastructural realities you're
faced with with you know having limited internet access or batchy electricity
May grapple from the use of the technology that you're meant to implement so what we know is that these
capacity challenges can exacerbate attitudinal barriers that can prevent the use of FC so that's more broad but
now let let's get a little more specific right let's think about the world of AI and how that might be what are some
different considerations we need to think about um digital divide is still one aspect and I I'm even though is
still relevant to you know and as you can see actually many of these aspects are still relevant because the digital
divide will shape how a teacher thinks about a particular technology and has experienced using it
for example you know in maybe in quala lampor where a teacher has heard a lot more about chbt is using it at their
fingertips as an individual they might have more easy easier access points to
using it as an educator as well now it also varies on subject
matter knowledge like and this goes back to the point made earlier where generative AI still requires the human
to fact check it still re requires a human to understand the right syntax to
know that a hamster cannot be eaten by Pizza you know so you still require that
subject subject matter knowledge so it's not that just because generative AI is in the picture that we can stop subject
specific teacher training or other important aspects for for continuous teacher professional development these
are all still critical and remain critical because AI is just a tool now finally the social cultural
background of an individual is also going to affect how they their uptake of the different Technologies some cultures
are more concerned about the risks of technology and specifically Ai and it
does you know there are several risks that we could be exposing ourselves elv to whereas other cultures are more in
line with innovating quickly and finding out what works and what didn't later so it's right really about striking that
right balance through policy but I what I will really say is if we reflect on teachers attitudes towards AI then we
can engage with and propose relevant Solutions because if you know that
subject matter knowledge is a big gap then you can think about ways to support teachers on knowing how to fact check AI

knowing that they need to fact check AI um realizing that this remains a priority whereas if if social cultural
background is a big prohibitor then it's really engaging with their concerns and thinking through Strate communication
strategies to make sure that they're bought into the process because what we've seen not work time and time again
at edcub is when a huge investment is made in even a digital learning platform and teachers aren't being told on how exactly they're meant to use it what the opportunities are how it integrates into the classroom for them then it all falls apart they're not going to use it so it's really about dying that all together so what I propose is just a
very simple approach actually to really connect whatever Innovations we're we're grappling with to the school level by
performing very at the firsthand very rapid research figure out what kind of barriers teachers are facing if any
there will be some you know what what are their concerns engage with that create a space for them to really bring
their grievances to the table and now finally then you can start to identify and train Champion teachers
think about which teachers are actually leading the charge because as you know colleagues before said there are going
to be a lot of teachers who are already experimenting with AI in the classroom and thinking through different
strategies they can actually start leading a culture of change if they have
found out different ways that work for them in their particular context so they can be identified and trained and then
support a community of practice that can be led at different levels at the school level but then also it's very important
to have things at the more wider country level to bring together different you know different levels of knowledge different insights to make sure that it's more cohesive and more
Equitable now finally with any Innovation we need to keep collecting feedback we need to keep
iterating because you know earlier we were talking about the different biases that AI Can U help prop that can help promote further we need to gather more
data and feedback from this region because right now what we have is that these AI tools are being developed by
vast amounts of data from the global North so from Europe from America and therefore there's a certain culture and there's certain lenss through which one person sees the world in certain
worldview that's being supported through different generative AI tools so it's up to us to really collect data to help
challenge that and to help make sure that it can be a very localized solution and something that is relevant to your
teachers um which it can be because as colleagues discussed earlier AI holds a lot of Promise so not to deter anyone

from Innovation but really to explore the different Pathways that we can enhance the implementation these new
technologies into the classroom to align with teacher competencies and therefore to develop some standards not just for teachers but actually for ourselves as we experiment so I will leave it there
thank you everyone and thank you Dr B okay so thank you very much Miss H so we saw that at PAB they have a good guiding questions for AI integration the signal um formula for them at the same time she raised a few things like
teachers we still have some threat they're thinking that AI might be a threat for them uh and they are having a
fear of being replaced by technology but actually I here to help them and they can spend more time on mentoring the
students actually okay so thank you so much Miss mazari for the enlightening perspective so we move on to our next speaker Professor Roberto Araya profor Professor Roberto Araya is a
distinguished professor at the University of of Chile specializing in electrical engineering and stem
education he holds a PhD in electrical engineering from the University of California Los Angeles at the center of
advanced research and education his work focused on developing and measuring the impact of innovative teaching and
learning strategies in stem education Professor ARA has led numerous
educational projects funded by prestigious organization such as the scientific and technological development
support fund a program that is managed by the national Commission of scientific and technological
research uh the inter American Development Bank idb and the Canadian International Development Research Center idrc uh his contribution to the field
have been internationally recognized earning him Awards like the best paper award at the 10th International
Conference on web based learning icwl 2011 and the best poster award at the 12 European conference on technology enhanced learning eel
2017 his research emphasizes the integration of science technology engineering and Mathematics stem
disciplines to address real world problems enhancing both the emotional and motivational dimensions of student
learning Prof ARA advocates for more connected and applied approach to stem education aiming to equip student with the skills necessary for the challenges of the 21st Century Learning
So please give a warm welcome to Professor Roberto Araya .

So the floor is yours, Prof Dr Roberto Araya.
[Fourth Speaker's Prof Dr Roberto Araya's talk]
Good morning everyone so thank you very much
for this introduction I want to thank also to the director Jamila Kadir for
invitation to participate in this Congress so I'm going to share my

screen um can you see my screen
now yes Pro okay okay oh great so
um I'm going to focus more on teachers we have seen a lot of great ideas we have incredible time but I'm focus more on teacher competences and what teachers um should know in order to be able to use this technology
um okay that's move something
happen cannot Advance
um I don't know what what happen
okay here we are you know we have a this last years we have seen the performance of AI this is stford AI index and we this a human Baseline here and there are different test like Vision common reasoning image classification competition
mathematics even it's getting close to the human Baseline so this is really incredible so we are kind of in a spooking moment now the world is going to change radically and very fast so
it's an exciting moment and this is this year according to leopo Ashen brener that he was from open AI right now this
generative AI is like a smart high schooler in a couple years is going to be like a research
engineer so it's big big so what are the opportunities and then I will take talk about some challenges you know from the point of view of a teacher one of this is a wonderful tool to identify
code ideas before teaching a class also can give you ideas how to teach them so you have jgpt or Gemini has a counselor as an expert that can you give incredible ideas also what misconceptions are the typical in this in this area how to handle them what are
the effective analogies and also help in design lesson plans something that we some of the speakers already talk and an i lesson plans but I'm going to concentrate in two of these one that I
think is are more rather new interesting and different from the previous ones is lesson from the video transcription and second I'm going to talk about assessment to open questions
know now we can go to finally get rid of on only multiple choice question to open question but this is a lot of work but now ai can help us to analyze this uh
the ANW to open questions so first I'm going to lonis here is for me was a choke like 15 years ago in University of chuba seeing this lesson study open lesson and here is a automatic machine learning in in the time saying what part of of the of the lesson that the teacher was making predict presenting and what part of thee of the lesson from Time Zero to time 50 or 60 the teaching was just guiding so automatically the machines were able to know know what's going on in the lesson and here is a
lesson i t in 2014 um this University of sucuba was
about forest fire lesson U and I'm going to use this lesson that I University of Shuba that's
that's me there this is the University of tuuba high school Associated and you know and here was a lesson after I I took this lesson was a lesson analysis

here is Professor masan from ofba and several other panelists analyzing the
lesson I was very fortunate to have a very high qualified qualified expert and I in my
lesson how I to the case but now let's see what generative AI can
do this is Gemini so I have a transcription of the lesson it's longer but he yday know
Professor Sakamoto
introduced me and then I Professor AR started good afternoon my name is Roberto
Araya. Can you repeat my name and
the student says Roberto Araya and then it goes on so now I have a
prompt describing no more than 100 words in English analysis of the strength and
weakness regarding loic interaction teaching of stem modeling strategies exploratory
and inquiry component and
the objectives mentioned below of the following transcript so here it prod me
immediately to me the strength of the
the logic interaction the teaching modeling strategies I use explorator and inquiry
components and clear objective
so immediately I would get a feedback of my whole lesson as as I thought and the
weakness it says for Simplicity of the model and that I I agree and the model is simple
because you
didn't have much time you don't say it's limited time the class has limit only
for five minutes so short I couldn't go to more deeper model and also it says
you know another weakness lack of Contex I too quickly introduced this problem of
forest fry without talking to too much
to Chile and this were Japanese students but I have a new prompt describe how
many open question Professor AR asked and what the students resp resp were
responses were like and immediately says
okay number of question I had 32 op questions and also classifies
comprehension question analysis question evaluation question City questions and here
are the examples of comprehensive
question what do you think we need to design this drone system that allow to detect the
forest farest here are some
analysis question what strategy can we use to control the fire evaluation questions and
also creativity question
what else can you think of what we could include to make it more real are there SC that
are missing you
know the interesting thing that in this case Gemini immediately produced me you
know a a summary of the lesson and also looking at the open questions I I
presented and and also analyze the student responsed to my questions say in
general student responded acely to the teacher questions different levels of
participation Serv among students and so
on student responses show a basic understanding of the mathematical concept using
class and so on so you you
I I get as a teacher immediately this very valuable feedback you know in just
couple of seconds and I have a new prompt now describe how many questions the
student asks the teacher and we
produce okay type of question classification gratification question we have six other
question four opinion

questions two for example clarifications question what happens if the wind change direction why does fire spread faster in some areas than than others this are the questions so I get this whole analysis
but now how does it compared to analysis by lesson studies expert here's an analys elction of an expert and now the expert recognizes is a process there in Transitions and there is some making the student grow out their own ideas so I realized that was very powerful but still you know there's something lacking
and or I was not able to produce this with good with prompts so here comes idea this is this is Tom National of
Education presid of Singapore ass mathematics education that produ this this feedback to the lesson he was this
expert so what I see here is first compy how to ask the system
what is called prom engineer this is very important because you know it all depends how you ask the system you have automatic transcription and then you will have to ask the system to analyze
your lesson in order to get the more feedback and I realized that in in my questions I didn't I didn't Focus too
much in the process and transition as the this expert did so the system was UN able to rele me this kind of
feedback and there is the problem of hallucination you know it's this system when they don't know they
even if they know they give you an answer and they look pretty sure with their you know because they very
articulate so you have to also not also learn to check if these answers make sense or not so I'm going to give you another example of assessment of open question this is very interesting because you know open questions is going more than just multiple choice this is a project we been doing with um
sh in the sted and of sucuba and Timo
and we have this coloring book to computational thinking and and we have just produced this guide for unplug compal thinking and this is kind of like P cretive thinking but in this case it's more C ideas thinking so is the focus in read argumentation of the case visual reasoning problem solving and problem posing and also interaction with peers
and learn to interact with artificial agent I'm going to show you some activities this activity for example
says here paint the dress green that's simple but in in this one says in each box paint at least two blue bolts so
they keep this did this and the page in page B the student POS a problem to to a classmate yeah this POS a problem and we did this in con University and we have this kind of you know
Solutions very beautiful patterns with this activity and other Solutions like
this and the thing is how would you make instruction in that to paint in this way
so what could be a good instruction and then if the keys are able to color this correctly know this is an op open kind of problem so you specify it by in
written from the pattern and then student have to paint them and then explain how they did it they have to

explain so how you cor for examp here's a problem choose a color in each box
paint at least two balls of that color is this correct or not think about
this one the same one each box say and now it's a little bit different in each
box choose a color and pain at least two BS of that color is a little different from that
and this is a Comal thinking activity and here is another one in at least two boxes
choose a color and P each ball of
that color you see that the instruction is different in each one of these and here is a
solution that they produce how
you see if it is correct cor or not well let's ask the system here are teaches in
Peru looking at this activity as well of coloring and and here is something that
uh um um oh I canot see well but here is an activity it says choose a color and
paint I can see I have this oh I'm think
each ball with the ball color is just above in the Adent
box and then if there is no ball above in the L
adjacent box pain with the B color at the bottom of the left adjustment box see this
instruction is not easy at all
and here's the solution it is correct or not and
uh okay or can advance again
and this is correct or not and this is correct or not you know this are very interesting and
engaging
problem for the K is just calling problem but the logic is the computational logic is not
easy we try
with different prompts this is kind of promt we have here zero shot Z
shot and here we have uh F shot
you shot and here we have another one
uh what is called oh I have this thing it's called
Chain of Thought is another problem that you have to teach the system how to
solve these things you know and here is another one called zero shot with
context and here's another prompt it says few
with context and here's another one it's a visualization of thought is
another strategy another kind of prompt you have several prompt and here for
example say you have to give the command visualiz the state after each reason
step so this is the strategy and here's a full table of the different prompt and
a different kind of questions is able to do it correctly or not only one of them was able to
do it correctly with a lot
of help and this is self consistencies try several times five times the same
problem and you can see that not always the systems a able to do assessment
correctly so that's the
problem that you this is are not like the typical computational system but always like an
Excel sheet always would
do the addition the same way and with the same result here you try one one time and
then here five times the same
problem and the Machine will produce you different results so what what we see
here is that prompting and we have two kind of problem alation that maybe the
machine does not produce a correct solution so you need to understand and you need
to you need can you trust this

then you have different problems that you have to use so uh
so what are the challenges the challenges for teer compan you have to
learn to think be rational this computational thing it's different from the typical
computational thing that you
have when you use use a spreadsheet or any other typical computer program you
also have need this creative thinking go you know more more Beyond multiple
choice kind activities and then you have this competency is very important problem
engering this is a field that is
growing is emerging because I I show very quickly like six types of
prompts like few shots giving context
visualization of thought shanal thought each one of them is a little bit better than the
other one but there's no
complete solution so you you you have a problem of trust here and you have to
learn how to talk to this system so that's in in the
technical languages prompt engineering how to prompt the s in order to produce
hopefully correct results what we're doing now is helping with this the
teacher with the with the an app the app you know will look at this kind of uh
activities and we produce a transcript and then make an assessment
so and what are the P well now finally I think one the most important thing I think is
we're breaking free from
multiple choice question now we can open the full SC of creativity all kind of questions
and the Machine will help the
teacher to ass the the solutions so this this is opportunity of creativity now
same the typical kind of questions that we have on systems are also on paper and
the compan we need to understand the psychology of artificial intelly how to talk to
them the means how we should do
this prompting that's how we talk with them them we need to develop uh theic
strategy with several artificial agents I only here only with one but you can for example
say if you're teaching
biology you could ask how the point of view of Darwin or the point of view of
um of um of Watson and and the point of view of Watson and Creek so you know and
you have different agents so you not only one I just show one you can have several
agents and you need to learn to
talk to all of them so that's basic competencies that we need so I think we are in an
incredible
time that is going to change radically education and from the teacher point of
view i' I've shown two critical activities one to get pre on your lesson
you have you know immediately doing pron or the transcrip of your lesson you can
have once you finish you have if you record you can have it transcrip very quickly and
get a cool feedback of your
lesson with very detailed feedback and also I've shown a second example and
when you do more creative open activities you can have the machine also
this generative AI to analiz what's going on but it's not that
automatic it's not that that you know still you need to learn the teacher need
to learn how to ask this question how to talk with this generative AI because
they you know they could hallucinate they can

give you wrong answers and also in one moment they give you one answer and one opinion and next time you ask the same question we could give you a different opinion so we need to learn and the
teachers need to learn need these competi to to to talk and make this
fruitful dialogue with the inertive AI so thank you very
much uh thank you very much Professor so a few key points from his
speech now uh he told that we are right now in as spanic moment we also saw how Gemini analyzed the Tokyo forest fire lesson transcription you also saw the computational thinking activ using color ideas at the same time he emphasize on the teacher competencies prompting and
opportunities okay so thank you very much Prof Professor so we don't have much time uh we move on to the question
and answer session okay from the floor so we have the first question from joso AG to miss hany mazari so the question is what are the implications advantages challenges and and considerations of allowing students to use AI for their
learning and educational experiences okay Miss thank you and thank you for the question josito it's a great one so I mean I think we've discussed some of the advantages but I'll go into it in summary so a real opportunity for personalized feedback and an opportunity
to access information very rapidly across different fields right with the
different generative AI Tech teolog is available um it's it's not just limited
to say learning about history or learning about language I mean it's it's
very versatile but some of the challenges then is to figure out how to continue making sure that children or students are able to synthesize ideas as synthesis is also really critical to
learning uh it's not like how do you go beyond so students aren't going back to Road learning in a way by just absorbing
or memor iing what information they're being exposed to how do you create Pathways for them to engage with the material as well so I think the
implications of that I was thinking about this part of your question I'm I'm going back to the implications and linking it to considerations because I'm
going to actually go back in the timeline and think about when some of us were in school uh because there's always
a new technology that people are trying to figure out you know the effective or a proper use for but I remember back
when I was in school there were concerns about students using graphing calculators for Math and Wikipedia for
history uh and just trying to figure out how we could site how students wouldn't plagiarize um but also how we would
learn right and I remember that in math we were allowed it in exams if we showed our work to basically show our reasoning and the different steps in our thinking and I think you know some of these
aspects were highlighted by uh Dr or Professor Roberto just now in his
presentation around the different steps and thinking about um you know the skill sets and computational thinking required but really if we show our work or if students are forced or you know

encouraged to break down their different their what they're thinking behind each prompt they're introducing say to if
they're using chat gbt right why are they introducing certain prompts what are they hoping to achieve and then
thinking through how that builds because it's even you know with chbt is never about just one search let's say it's not
like a Google search you have to keep tailoring that and with that you need some understanding of the material
you're looking at so it's really about encouraging students that they'll need to customize the content that they're
absorbed to but also creating policies for acceptable use um to make sure that
you know it's an environment where students are learning and not just absorbing as I said so thank you for
that thank you Miss an so the next question uh goes to Professor Roberto
ARA so as a Ma's uh teacher I believe that before my peoples can use AI to
conduct additional research on these subjects I must first uh present and
teach them face to face and provide them with the conceptual knowledge what are your thoughts on that well thank you very much uh for the
question um I think face to face will continue be roll
a very important part not only of the engagement with the with the kids but you know uh still like here today when
we're talking about this topic about the ideas of AI generative
AI we need to talk to each other we need to dialogue each other and in the C the
in the core idea of mathematics or science first the teacher need to
understand them well and so then you could help just the typical lesson as I
CH with Gemini also will analyze my lesson it was just face to face but but
also if I I want kids to use um prompt
prompt and use by personalized learning uh still first the teacher need to to
know how to talk to this generative AI the dialogue with is artificial agents
in general and prompting is critical you know as honey mentioned also the the the
how you promp this is different from just searching in Google it's said
itative process having mentioned and there is several strategies that in
order to get the information you need and so before the the kids learn this
you all the teachers have to know this straty like Chain of Thought as the
other one visualization of thought these are different strategy that I help the
system and help you and help the interaction and also later will help the
student to learn the key Concepts so I think U it's going to be a mix it's not
need not to be only this student along isolated with a computer or or any
or the smartphone but in the typical class this could be a very critical tool
in to to to produce more effective lessons and more have the student more
engaging and get to the core ideas of math and science I also want to mention that in
in the second examples that I use this com thinking I I know I didn't not I did
not use Gemini I use um gbd 40 the multimodal one so this is
just to mention that there are several of these tools
and there is a problem of also of trust they're not always going to give you

correct solution so you have to very aware of that and that's something that is a very critical competency competency
that our teachers need to
learn okay okay P thank you very much okay I think we come to the end of the second session today so thank you to both our esteem speakers for their invaluable contribution so as conclusion
for this session uh the integration of AI in education is indeed a multifaceted challenge but with the insides and standard Shar today we are better equipped to navigate this exciting
Journey so let us continue to engage explore and innovate as we work towards an education system that is that truly harness the power of AI for the benefit of all Learners so thank you all for your attention and participation so thank you again for two speakers and
back to you Mr zanine thank you very much thank you Dr Bala and our esteem speakers for the interesting point of view and insights moving on uh we have now come to the third and final session of our webinar with two more speakers coming from our SEO Center allow me to introduce our third moderator for today's webinar Dr ju has vast experience in mathematic education with expertise in inquiry based mathematic education computational thinking skills mathematic education stem education qualitative research assessment in education supervision and instructional leadership as well as policy studies for educational Leaders with 31 years of of
teaching experience in secondary school teacher training institute and as a trainer at Simo rexam she has a
comprehensive background in the respective field her experience includes serving as content provider author and translator of mathematic books Dr one's extensive background and contribution to the field underscore her dedication to advancing educational practices and Leadership may I now invite Dr ju to
take over in moderating the session Dr ju the floor is yours okay thank you Mr Z for the kind
introduction assalam greetings to all of you py still
morning afternoon or evening okay uh let's go on to the final section of this amazing webinar we have listened to two two fasc fascinating sessions before this okay about the generative AI in education and education and also on the AI literacy and skills required for teachers especially on the computational thinking uh creative thinking and prompt engineering now I believe that it is time for us to learn more about the influence of AI and Poli on policy and practices from um our next two esteemed speakers okay
so um both of them will be delivering and sharing their perspectives with us on the way forward on AI impact policies and practice for this session three objectives will be guided to discuss uh by our speakers so the first one is what policy Frameworks are necessary to support the ethical and sustainable use of AI in education second how can we address the potential biases and ethical concerns associated with AI in educational settings and the third one is what role can International cooperation play in developing effective AI policies and practices for education in Southeast

Asia so without further Ado allow me to uce you to introduce you to our first Speaker Mr Ira Pozon is the attorney from uh Philippines. Mr Ira serves as the chief on staff and manager of the legal policy and quality management office at SEAMEO Innotech. In his role he has been actively involved in integrating artificial intelligence AI into educational Frameworks across southeast Asia emphasizing the importance of AI in transforming teaching strategies and enhancing learning environments additionally Mr Ira is also an educator teaching law at various colleges and universities in Manila and a published author and columnist his educational background includes a jurist doctor degree from Far Eastern University a master's degree in Business Administration from D lasa University and a masters in international commercial commercial law from the University of Nottingham Mr Ira works at Simo inotech
includes including initial I atives such as project Vincent a chatboard learning platform aim at providing remediation for students at RIS showcasing his commitment to educational Innovation and Technology integration in Southeast Asia

So Mr Ira Pozon the screen is yours.
[Fifth Speaker Mr Ira Pozon's talk]
Thank you very much um everyone good morning uh Salat pag my name is AA PA I'm from s inch in the Philippines can I just quickly confirm if you can see my screen and if my audio is clear to all of you hello can you see my screen and is my
audio clear yes yes we can see your screen okay great thank you very much so good morning um thank you to our friends
from simoen for inviting me to speak today I'll be talking about very briefly because it's a very long topic Ai and
education and how we can navigate the roads or the routes ahead now let's quickly go through how
we got here you know you know the the quotation or the proverb that says you don't know where you're going if you don't know where you've
been in terms of technology to reach Mass adoption or a factor of 25% of Market access various technologies have taken different timelines to achieve this the airplane took 68 years the telephone 50 years the radio 38 years and the TV 22 years PC was 14 years internet 7 iPod 3 and the iPhone 2.75 years you can see the trend is that technology to achieve 25% of Market access the time it takes to get there to
get 25% Market access or market adoption is shrinking significantly so next we have Facebook only took two years Twitter which now became X took N9 months people I often ask what do you guys think is the next thing people say chat GPT people say Instagram you might
find this funny but Angry Birds took 35 days while Pokemon go uh augmented reality game only took 19 days why
because technology is already very ubiquitous for the last four platform forms Facebook Twitter Angry Birds Pokémon go they just needed us to have our cell phones or our iPads tablets their technology was already accessible
now where are we today in terms of educational technology

Global edtech spending is targeted to increase significantly it started in 200000 at $2.8 trillion all the way up to $7.3 trillion estimated for
2025 the spending from 2020 to 2025 was estimated to double from $227 billion to $44 billion the the levels of growth in
education you you would see from 2018 to 2025 the significant growth is still seen as uh augmented reality or virtual
reality from 1.8 to 12.6 billion second places AI from 0.8 billion to 6.1
billion but really if you think about it that's exponential growth
also I think or at least I theorize that actually these figures might change the
next couple of years because this is based on a prediction before all of this
significant growth in AI started to come around now where could we be going let's take a look at one example of a company
we have Nvidia which is the if you're a gamer PC Gamer you know this
company because they make the graphics chips the high power graphics high performance chips that you use for your
laptops and your gaming systems but you know that those High powerered chips are also what are
used for AI generation or training in last year March of 2023 they launched
the h100 chip it would only cost 8,000 of those chips and 15 megawatts of power
to have trained chat GPT 4 Turbo this year March 19 they launched the
Blackwell b200 the same training required for chat gp4 turbo would only have cost 2,000 of
those chips and significantly less energy only four megawatts of power now
on that same date excuse me they launched the Blackwell gb200 now if you look at the photo here it's actually two
Blackwell b200 chips on a single motherboard so can you imagine how powerful that board
is now how do you think this is um affecting the company of
Nvidia it started off in 2001 $ 2.36 billion market
capitalization while only last month June 21st 2024 it reached 3.38 trillion
us do market capitalization for that one day Nvidia became the most valuable
company in the world by market cap the other companies in the list
Microsoft oft Apple alphabet Amazon meta they're all the people who are buying from Nvidia they're all buying those
chips um Saudi aramco might be buying some of the chips in terms of their shipping or their petroleum production
while tsmc is actually the second um second Placer in terms of the market
of semiconductors so really if you think about it my theory is that AI is even going to explode even more it's going to be more invasive more ubiquitous because even
the top companies that in the world of whose Services we use are purchasing
these chips to increase their AI in their own services to their public very
quickly Ai and education they have their pros and cons Walden University find them and this has been repeated
throughout this morning a lot of ouram speakers have said these already Pros AI
can help teachers create restom plans can help teachers create assessments can help teachers to

create um novel or unique ways of asking questions or getting the answers from
their students or getting the the lessons across speed of response if you ask GPT or
any of the other large
language models the image generators make me a photo on this less than a minute it's
there it allows for individualized or one is to one learning the same model
and I'll show this later on the same chat GPT you ask similar question it'll give you
different answers because I'm
telling it my C my circumstances which may be different has simulated context and of
course it provides for personalization of learning again already previously mentioned by
our speakers
B AI right now all these large language models or these um GPT formats Etc are
being trained by what we provide them and what are we providing them may have some
inherent defects in the data that's
what was mentioned earlier if you said that all uh gardeners was it earlier
were Mexican then the tendency is the AI will think if you need a gardener it'll give you a
Mexican person which is
bias um same things the There's issues of misinformation it can be used
potentially for cheating but here's what I think is more important there is an
interpersonal disconnect between a
teacher and a student if all you do is you let the student keep using AI instead of the
teacher using AI to to
get inspiration to get ideas on how to reach out better to that student and finally as
many people ask will I lose
my job because of AI um in my opinion you don't lose jobs
because of AI or because of digitalization you lose tasks and tasks
are things that you can resale yourself for
the world economic Forum founder himself CLA Schwab said we have tools at our
disposal technological innovas defining
our current ERA can be leveraged to unleash human potential I like to highlight the fact
these are tools we
should leverage Mark nagara in his um in his
tedex talk on machine learning Ai and the future education said only humans can think
out
of the box AI as as it currently is can only follow the rules they've been
given AI cannot experience it cannot generalize it cannot reason reflect
think abstractly or even understand relevance it'll just give you an answer based on what
it's learned so far but a
good education should do all of these things that's why we are trying to
emphasize teachers members of the academ no matter what level you're in F focus
on using AI to emphasize or to reemphasize these particular skills more
than the basic skills that are um that may be replaced through am 85 million
jobs are at risk by next year um but the new technologies will
create as many as 97 million new jobs so there is a net increase or uh an area by which
there would be
progress top 10 skills estimated from the world
economic Forum in the Assan analytical thinking Innovation creative

thinking systems thinking leadership resilience social influence complex
problem solving again these are the skills that AI as of right now cannot do
they cannot experience they cannot learn from those experiences they cannot think
creatively they're only learning from
what we are providing them the basis of policy I won't go through
this too deeply I know that my distinguished colleague in friend Dr kisai will talk more
about this but
there is a t World economic Forum in attempt at making a policy for AI and
education these are the core elements fostering leadership promoting AI literacy
guidance capacity and
supporting Innovation now what are the levels of
policy really you look at the macro level you see the social developments technological
developments economic
environmental political and the Meso Level you see the demand Supply micr level
Mission Vision strategy resources
Etc in terms of AI policy and education I propose or I theorize that there is a
need for the Nano level the teacher the student the school administrators the
principls this is my own personal opinion now why a lot of the policies
laws on AI right now created by some of the um largest political and legal
systems the EU AI act the assian guide on AI governance and ethics the US AI
Bill of Rights the executive order on safe secure trustworthy development and
use of AI and even in the Philippines just the other day I attended the national AI
strategy road map by our
department of trade and Industry all of these are over arching policies on AI they're not
regulations
they're not particularly regulating the industry and they're providing guidance on how we
could use it but there's so
many things that may not be as at the
Crux of what we need to do with AI for educators the U EU AI act has a lot of
discussion on privacy on data privacy on whether I should be able to allow AI to
use my CCTV camera image on the streets of some city in Europe same thing for
the issues of governance and ethics in asan uh cyber security is a major factor
in the US versions of this um the guidelines so basically there is
little Focus I mean there's little concrete educational policies or AI I
would like to emphasize that as the Educators and the students and the stakeholders
that should be coming from us now so let's do that on a nano
level for instance this I've been saying change your way of thinking in the age
of AI if you're testing for knowledge don't ask for an essay instead the
student will you know what's going to happen the student is going to say I I chat GPT
what is this essay print it and
submit it as its own that's going to be plagiarism it's going to be another fi this and that
is it ethical is it not
instead don't even ask for the essay if you want to make sure that they know the
subject matter which you need them to know make it an oral report they can use chat
GPT to have researched it next
thing you know they integrated it and now it's in their heads and they're delivering it to

you um as earlier mentioned I think by our steam Professor from the University of Chile multiple choice questions can
now be answered by um AI so so instead try to use visual aids try to make
questions with analysis that is a a requirement increase your applied
learning your Hands-On assignments and your projects for Real World Experience if your goal is them for them
to understand use your open-ended your scenario based or your critical thinking
questions that they will have to answer through their own points of
view um also the easiest way as with plagiarism before know your students
writing styles if all of a sudden you know that their level was here and one essay later they're all the way up here
using 10 12 15 letter words that may be a sign that it may have been written by
AI or by someone else personalize your assessments assign Reflections as
assignments to enable critical thinking people say are students cheating with chat GPT of course this is
just a joke I found this online but um if your students are copy pasting
or even handwriting even what GPT was saying is I as an AI there isn't enough
information needed for me to accurately answer the original question um they're probably not going
to be cheating that way but for those when when they start to learn that they don't they have to read what GPD is
giving them before they cheat remember in the '90s when the internet first came
out and first most Educators to concern was plagiarism copying and pasting the market
provided certain softwares would check what percentage of pro or probability of
plagiarism had occurred turn it in scriber qex duply Checker 2024 we now
have chat GPT how do we check if a certain text may have been written by
chat GPT there are some it's not yet perfect but there are some softwares
websites that provide uh percentage or probability that they are written by AI
undetectable originality content as scale writer and copy leaks what about images
videos created by AI if it's created for instance by canva open art chatbot app
the corresponding softwares or the provisions of the market that would tell you whether these images this music this
art may have been created by AI also here so the there will always be that
given take Market will provide for your your safety
checks now chat gbt has enabled personalization of learning this is chat
GPT 4.0 and just a really quick I asked it to quiz me on Latin legal maxims
because I'm a lawyer and it gives you a quick quiz um what is your this I give
it an answer the next one I know I'm running out of time but the next one I I make a mistake it gives me a hint gives me
it's it's like you're talking to a teacher but I don't need to have my teacher's time right now I'm learning it
as I go now the question of course would be whether it's accurate so far I've not
found um instances where these videos that I took were inaccurate but of
course the ethical responsibility there is also for us to use our critical thinking and to make sure that what we
are learning or getting from these large language models is indeed accurate non

um non hallucinatory for example this one I'm just going to show you there's
this Latin legal Maxim where basically you're saying if you make the claim you have the
one you're the one who has to
prove it this is one way of ask asking it to explain it to you now what if you
say explain that principle to me if I were a child
and it'll tell me okay imagine you have a toy you say it's the fastest car ever your friend
doesn't believe you it's up
to you who said that they're fastest car ever is the really the fastest that is
what the lap legal maximum says another way of doing
it and I'm just showing this to you because it this is the same GPT this the same laptop
I'm just using different
prompts and it is giving me different Inspirations or different ways if I had
to use if I had to figure out a way to teach something like oori incumbit onus
probandi a legal maximum in Latin to a child to a teenager to a
colleague again because everything these are tools now what now we have to recognize
technology is developing at an incredible speed if you thought AI developed very quickly
with a spending
in the fact that Nvidia is now reached overtook all of their customers to
become the number one highest market cap uh company in the world fasten your seat
belts the development of AI will will fly even faster spending and focus on AI
will only increase further AI Tech is already invasive it's already ubiquitous it's
everywhere you
may not have thought of it but there's a reason why if you're looking at a product on let's
say Lazada or shopy
next thing you know you're seeing it more and more often on these apps or even across
apps and governments are only now developing highlevel policies on AI and
high level meaning they're focus on cyber security data privacy intellectual
property not necessarily how it would be most beneficial or most ethically and
sustainably used in terms of Education that's why I say we should
help them out and help and together create best practices and ethical
practices on the use of AI and and education on a nano
level like other tools we always must educate on how to properly and ethically use AI
the last time I gave this speech
I also said if I give you a chainsaw you're not I'm going to teach you how to use it I'm not
just GNA let you wave it
around indiscriminately right it's a tool and one way we can emphasize the
proper use of AI is to strengthen critical thinking discernment get them
to think get them to question and in effect fight misinformation last
thoughts this is something we always say I AI like we're at the fourth Industrial
Revolution AI like the tech of the first Industrial Revolution is supposed to take over
tedious and tiresome functions
allowing people to engage in newer methods and processes this was written in
2018 by me but I I I emphasize this because I already saw a little bit of what AI was
giving us as early as 2018 can you imagine how it's going to be six seven years 10 years
from now especially now
it's even more ubiquitous so with that thank you very much and I look forward

to hearing your questions and to answering them shortly thank you okay thank you uh Mr iron for your
insightful inputs uh looks like uh there are so many things to consider uh before developing the policies for the education okay now uh let's uh proceed
with our next uh speaker Dr Kritsachai Somsaman from SEAMEO STEM-ED. Dr let me introduce Dr Kritsachai.
first hi Dr Kritsachai is the director of The SEAMEO STEM-Ed
Center a orinal organization dedicated to enhancing s stem education across southeast Asia his leadership focuses on Innovative educational practices teacher professional development and integrating stem learning with real world
applications Dr SOMSAMAN has been instrumental in developing various educational programs such as computational thinking through coloring books and critical thinking with picture books aimed at making learning engaging and effective for students under his guidance SEAMEO STEM at has prioritized datadriven approaches to identify gaps and needs in stem education providing targeted support to member countries and generating policy
recommendations to inform National and Regional educational strategies Dr SOMSAMAN work emphasizes the importance of international cooperation
and Partnerships to advance them education and prepare a future ready Workforce.

so now Dr Kritsachai Somsaman the screen is yours.
[Sixth Speaker Dr Kritsachai Somsaman's talk]
A very good morning to you all and thank you so much for inviting me to this webinar presentation and I'm very honored to be a part of the webinar
today and I'm glad that I have learned a lot from our early speakers on how we can use AI for education and a lot of issues that we need to keep our eyes upon.
Well after hearing a great deal of useful informative content from all the speakers, you may as I do being overwhelmed with all the information and knowledge and maybe wondering what the next step should be. So what I want to do is I would like to introduce some resources that we have developed together with our partner from around world to help the policy makers and also help the teacher to develop proper guidance to use AI for education. So let me share my slide quickly and then at the end I will bring you through the website that contain all those resources so well let me quickly sh my presentation oh great um well of this resource we are working
together with different organizations around the world. The main organizer is called TeachAI, a group which come from code.org. They want to develop guidance to use AI in education so we work together to come up with several resources that anyone can utilize those resources in term of guiding how you can use AI in education. There are two resources that recent come out from this project the first one is the foundational policy idea for AI in education so this kind of foundation policy ideas are some resources very succinct informations that anyone can use to ensure that we learn and understand the concept underlying issue of the use AI in education. First of all there you can download this material from TeachAi.org and they are ongoing developments that keep on producing more information nad more material for us to understand.

Foundation policy idea for Education is a one pager like a pamplet that you can use for policy makers for anyone who would like to quickly understand the underlying issue in AI in education. There are five templates we call one Pager which are available online and can be download and utilize. The first one is what is AI, a very sucin information to explain you on what is AI, what is the current the development of AI, and what is the significance of AI. The second one is AI in education and Workforce. It contains some information on how you can use AI in education and how it's impact on the future Workforce. There are some statistic information as well. And the third one on the classroom perspective on AI. You can see that what are the current Trend in of this teacher and the student on how the AI has been used in the education setting and another tool information are the policy Landscapes which has been implemented in the US and in in global we can see of how what are the other organizations around the world has been utilizing and developing policy for using AI in education. The next one is the the foundational policy ideas which provides information on what issue should be in the policy. What issue should be developed in term of addressing how to use AI in education. so I'll go over the foundational policy idea which I think Ira from Innotech has just briefly mentioned about. So the foundation policy idea for AI in education, there are five ideas that need to be embedded when we think about AI - (1) Foster leadership, (2) promote AI literacy, (3) provide guidance, (4) building capacities and also (5) support Innovation. For example, fostering leadership, it's containing information that we need some sort of a task force for policy development and implementation of the the task force is important to oversee all the development of the and the direction that we should uh guide the utilization of AI in education. So the task force should inculcate of the the recommended policy oversee pilot program Monitor and intended consequence so this this to be at the high level Task force that oversee all the development of policy in AI in education and how you can utilize AI in education as the first one. And second one that's on promote AI literacy , we need AI literacy to understand the transformative power of AI. We need to understand how we can promote AI Literacy By integrating AI skill and concept we talk about in teaching with AI and teaching about AI teaching about AI. It's let the student learn about the function of AI how they can develop AI. Teaching with AI is how we can use AI to assist in the learning process how we can learn better by using the tool the technical tool that we are having at our hand at this moment and so in term of promote literacy or we need to understand not only the concept of the principle of AI we need to understand the social impact ethical concern like all the our speaker has mentioned earlier. We can integrate the AI literacy into curriculum or we can use this as extra material for student to learn as well. Other important thing is we need to develop certain kind of a guidance to ensure that schools, the teachers and educators have been equipped with the guidance of safe and responsible use of artificial intelligence well in in the guidance that we analyz that we see some issues that need to be discussed upon and such as prioritize equable access to AI tools which the representative of the Ministry of Education Malaysia has already talk about. Minimize bias utilize legally and ethically create training set and models we need to develop that those kind of models or training set that would be utilized by easily utilized by teacher and educator and reaffirming the adherence to existing privacy and security policy. In term of developing

policy of AI we need to look back at the existing policy and to ensure that the new policy is align with the existing standard and policy of the the school policy. And we also need to ensure that we maintain the human decision making. We are not utilized machine or AI to do decision making but decision- making process still necessarily to be by human being and AI can provide human being with necessary information. In term of building capacity we need to provide funding and program to support educator and staff for professional development on AI . We need to do research on how we can utilize AI effectively with efficacy. Since teachers are still important in the process of learning so we need to provide professional development for teacher as well. Also we need to promote research and development as I mentioned earlier on how to safe and effective AI in education practice and curriculum.
So funding research is still important in term of providing the development the knowledge the how we can learn about Ai and also as I mentioned earlier we talk about the local solution of AI as well. Because we have seen a lot of bias in the AI using dataset from the Western world. How can we eliminate those kind of bias. We still need local dataset and also the local information that we train the AI to ensure that the knowledge of the list of local knowledge is still available in the the data for the AI to make a proper recommendation.
You can access this resource that available from TeachAi.org website. Actually the either you can download the AI policy and edit directly. There are menu that you can select different kind of resources available. The foundation policy idea is one of the resources that just came out recently.
Another resource that it's been provided earlier it's the guidance for schools toolkits. The guidance contain seven principles for AI in education. We have already looked at the policy level which is a very high level but right now we can look at what we need to what are the issue what are the principle that we need to look at when we want to develop policy for a School level. The seven principle for AI education is the issue that we have been discussed around the world to come up with the important aspect important principle that we need to take a look, we need to get into consider consideration when we develop guidance for school for Educators. These seven principles, we talking about purpose. What kind of purpose that we are working on. The key purpose is we are helping all the student to achieve education goal so this is the main focus to us. When we introduce AI into the process we need to ensure that the AI is to support the student to achieve educational goals. For example, AI used by Khan Academy. Khan Academy AI will not provide the answer to the student when they ask the question but guide the student to learn to develop their own thought. We need to look at how we are going to use AI to help the student achieve the educational goal. We need to uh discuss some kind of questions and what we need to do well what how can we reduce the digital divide between student and also in term of inclusivity and also on the privacy of the student as well those kind of purpose that we need to discuss and compliance I mentioned earlier that the policy existed early in the school and in term of introduce AI policy or guidance of AI we need to ensure that those kind of guidance and not not conflicting with the existing policy. How can we ensure that our way of thinking of build bringing in AI in term of Education how it's going to Ally with those kind of a existing policy. The third principle of in term of knowledge is we need to

promote AI literacy is somehow a lot of discussion that I have talked with.
A lot of discussion I have seen that people still don't understand exactly that uh AI is reliance on data. They are still thinking they can provide information can provide correct information. But the way that you utilize AI for education is you need to concern more about the data set. Factual information we have fed in the AI. As the back end of the AI is the data set. So we need to discuss more about using all the information to to train the AI for each subject we can also train the AI that particular subject. So when we answer all the questions that still related to the the particular subject. You can do this by yourself by creating the GPT set by importing the data set that you would like to use it and let the AI answer particularly to those data set only. The way that I usually do it a very simple way to you to that I provide people with example it I grabed SEAMEO STEM-ED regulation and put into the AI and then ask AI on the information regarding only those information that I provided. So it it will answer exactly the detail using the detail in the the material that I provide but not grabing information outside .So it's very specific to certain information set that have been provided.
Then we need to think about the balance realizing the benefit of AI and also addressing the risk we talk about a lot. The benefit that AI has and and also what are the risk that come with the utilization of AI in education and how we can mitigate those kind of uh risk associate with the AI. A very important issue is on academic Integrity how can we are still keeping the academic Integrity. Is our policy sufficiently cover academic Integrity and proper attribution issue when using AI technology? Also we can look at the professional development for educator in term of supporting the alignment assessment and we can rethink about the way that we develop assessment for the student as wel. As I mentioned earlier in term of process of decision making we need to maintain human decision making when using ai. Ai is the machine that provide us with information but it's still artificial so we need to ensure that the process of decision making it's still with u human being so the policy is need to focus us on we still keep the important thing on the human being as well.
I usually discuss about the need to rearrange our job to ensure that's the important job and what the human capability can do .So we need to develop and restructure, rebalancing the job roles so that some important work will be still handled by human being and the supportive work can be done by machine or by artificial intelligence.
So let me bring you to the website that I mentioned earlier. This is the website of TeachAi.org which contain all the information. There are two parts which you can see. (1) The available resource that are policy resource and (2) the guidance for schools toolkits. If you look at the policy guidance, it's the policy resources which can provide information. A brief which can provide a policy idea. Also you can get the presentation material from here. The presentation that I used earlier is from the presentation material that are available on on this website. And you have a information brief like I mentioned earlier on what is AI and what is AI education and Workforce classroom perspective on AI I and a AI policy landscape. If you click upon this one you can see that this is the one pcture of information it's actually two pages one sheet and information about what is AI uh which could be very easily understandable. And we make it very easy for a policy maker or anyone who no familiar with artificial intelligence to to understand what artificial intelligent is about and also for similarly for AI education and Workforce these are the informations that are be provided for easily

understandable easily access. Similarly as the classroom perspective and AI policy landscape. you can also see the five issues of a foster leadership, promote AI literacy, provide guidance, and support Innovation. You can learn more about the policy idea by seeing the information in here the policy idea.
let me go back to the main website and the other thing that's we are having is the guidance for School tool kit. this is available in the in the menu as well you can see that the information that I mentioned earlier how to use the school tool kits uh the framework and uh the key idea um all the information is accessible. So that you can see how to use the toolkit. All the documents are editable which mean that if you want to developed some guidance you can use this information and see of what issue or information is relevant and you can modify the document accordingly to fit with the school environment that you want to use the the guidance for.
These are the available resources that has been developed together with organization around the world. We want to provide material that would be useful and can be used immediately for everyone in term of the AI. Because information is very overwhelmed so we try to synthesize information to be accessible and understandable so I would uh end presentation at this moment .Thank you so much.

Okay thank you Dr Kritsachai Somsaman for your very insightful inputs and also thank you for your knowledge and guidance on the AI
policies adoption I believe okay uh since we are running out
of time.

I think we better go to our Q&A session.
[Q&A Session]
okay the first uh question is uh for Mr Ira what are the most important
policy considerations when integrating AI into our southeast Asia Educational Systems is it ethical or cultural aspect thank you very much that question
Ahad um I believe it is a mix of many other
things including ethics and culture um in Southeast Asia as you know we have various we're all related but we also have very various challenges and opportunities for instance um one key issue in the Philippines is how do I get AI across
all 7,000 islands and there are still schools without internet connectivity I can imagine that many of
our neighbors may have similar um challenges with their
geographically distant areas now for in terms of policy and that I I rais that as the first because I don't want the
use of AI to be focused on the Richer cities and municipalities where you would end up widening your digital divide you don't want have students left behind so I think an overarching National policy on making sure that AI
is used and used widely is um is key now
when you use it widely then you have to discuss other key issues what are the ethics involved what are the data usage
um in implications here if I use as a school or even as the Ministry of Education if I want to know where my students are doing the best at
and the worst at I can put all of their grades into a GPT it will work it will

tell me which anonymized students have the best scores in which Fields
Etc but then again we have to remember data protection and data privacy the data owner there is not the ministry
it's the students so we have to get those things involved we have to get the transparency the Integrity to be
reemphasized you have to get the consent of these data owners or data subjects before we even use their data for that
sense second and I think this is something we can all look into is why
are we giving our data for these gigantic large language
models like gp4 for them to learn on when there are options for us um to have
our own many institutions have their own gpts already uh Amazon web services for instance I attended one of their forums they have GPT on the cloud I will
subscribe to them they will give me an allocation of space I will upload my data to that cloud the GPT will run and
the results only go to me so there is that safety of the data there's that
safety of the Integrity because I'm not helping them train the entire AWS AI
landscape I'm just using it for my own self purpose uh um other things to consider as mentioned already by Dr Mo
um we need to have the PDP or the professional development of the Educators it is difficult when you see
the students over passing the level of AI
understanding or even how to use the technology uh as that of their own Educators and that happens every day you
know we have our I I still remember I cannot imagine how to teach my
grandmother to use a Touchscreen cell phone but then again that's every other family has a similar instance already
can you imagine how difficult it will be when the teacher is trying to say something and then the student is faster
at it and saying no AI says it's wrong lastly the accuracy of the GPT or the AI
it's still very very important even for us as lawyers there are gpts for lawyers
where I can give it all the information on a certain case and give say summarize it
but I cannot use that product and just go to court with it my duty now is to
double check the accuracy to make sure it is right a lawyer in the United
States used chat GPT to said give me a pleading with case citations for this
type of case unfortunately for him the AI hallucinated and was inventing case
names X versus y did not exist Alpha versus beta did not exist Crown versus
whatever and the the judge saw it and sanctioned him so as we get to all of
these things and we're learning as to how we're getting along these are many of the different
considerations we have to look into before we even consider policy considerations when we're looking into
this we need to know how we're going to use AI how we're going to use it properly with Integrity transparency and
ethics in order for it not to be abused and that's where we can finally say okay
these are the best practices and these are the policies we can make thank
you sorry thank you Mr Iran okay we move on to the next

question uh this question I would like both of you to to uh give your input
okay how might Sim help in creating AI policy for Education within this region
uh can we start with Dr Mo sure certainly well um the issue of U AI in
education in Southeast Asia one thing is that we have very differences in among
all the country in South Asia so in term of creating a very big one policy for all the so would be
possible so the the attempt that we need to do is we try to work together
globally that's why Sim St and Simo secretar also join the teach AI
initiative so we can understand all the aspect and we can input our uh uh
information our environment and ecosystem for the to discuss together in
the Global Group uh to ensure that we can help each other in of uh developing
guidance developing policy recommendation on how we can utilize AI
in education so you can join this initiative also this is the first thing
it's the teach AI it's open for everyone to join you so you can
um subscribe to the channel and then you can follow up what is going on you can
also participate in giving comments also uh if you want to become part of the uh
supporter or helping in developing those kind of material we also collecting
um uh the uh the way that the information of how you use AI in
education the good practice so we can share we can learn from each other so we
can develop the what kind of problem that you are facing I think that we are
uh everyone is not facing unique problem we also share the those kind of problem
everyone else in the world also have the similar problem as well so we can discuss we can share the idea we can
share the solution that we develop together and well those kind of another
thing is this webinar is also important the good way that Simo centers gather
together to help each other because we have representative of Simo Center across
ouria region so each Sim Center
if you want to uh develop any I policy want to our Simo Center our
Simo system to help to assist you with uh certain kind of problem in education science and uh culture you can contact
one of our centers in your own country and they will link us to the network of
Simo Center which it has the uh specialization which can help you in term of uh guiding you to the proper way
of the how you can proceed and you can develop together with you the issue that you
want to to go through so that's U my my short answer on this okay Mr iron well I agree
completely with everything that Dr Bon said it it's it's difficult for us to
just say okay let's have an AI policy for the entire Southeast Asian region in education because we're all related but
we're also very diverse the challenges in Singapore are not the same as the Philippines
Malaysia Indonesia Bangkok
Thailand Etc but what we can do and what I very much agree with is that Simo is already
starting it through the work that the centers like Dr M has mentioned with uh
tji you're developing the guidelines you're developing the starting point and that's very
important what we can do next for example if the Secretariat or the entire organization would like is we'll come
together and really discuss like in in pwg what are the challenges across your

countries in terms of various segments or challenges of AI in education for instance one entire policy will just be on data privacy protection integrity and transparency another one would be on intellectual property rights how can I what used to be the system where if a student in University creates something it is in within the university using
University computers there's a shared a uh IP between the student and the university but now if I'm going
to use AI there's going to be a change to that because number one is that intellectual property that should be protected number two who owns it who made it so again these are all very
different things uh there should be a policy for for immediate and effective training of teachers Educators administrators principals across
because if if you've never touched GPT before then you won't see the the pitfalls and you won't see the opportunities that's why I had some of those videos same question asked three
different ways it gave three different answers and that strengthened the use of it because again it's a tool and people
need to know how to use that tool to best make it effective efficient and ethical thank you okay so thank you uh so I
think both questions just now conclude our session so thank you very much Dr M and Mr Ira for these uh sessions very very inspiring actually okay so I'll
pass back to Mr zuk carine thank you Dr one sincere thanks
to all moderators and Este Teem speakers personally I believe we have heard many New Perspectives on generative AI coming from different context being educational settings the ministry Higher Learning institution seor centers as well as technology Partners hang on we are not done yet please let us put our attention
to a short three minutes video on the success stories from our teachers Mr stephanus Lucas from Malaysia and Prof Arvin Kim arila from the Philippines on how AI has revived their teaching and learning environment let's together watch the video AI helped me to come up with more creative Innovative and inclusive teaching ideas for example I use AI to create interactive video custom visuals and even virual reality experience teller to my students need this is especially important for my special
needs student who often require unique and variety teaching methods so AI can suggest new ways to present information or create exercise that keep all student engaged and excited about learning like the Abacus and calculators before it generative AI is a tool designed to enhance learning and make complex task more manageable just as the calculators
transform the ways we approach mathematics AI is not transforming education and automating administrative
task let me explain how first one creating teaching ideas AI helped me came up with a lot of ideas for my lesson for example I use chbt to get suggestion for activities and lesson plans that fit the need of each student this make my teaching more effective and tell with my student needs for example I have student who are loves animal or we learn to explore the animal sound so CH can help me to design a music l that incorporate with animal sound or

exploring animal sound so this keep the student engage and make learning more enjoyable for them so the second thing making teaching materials AI makes it easy to create teaching material that are fun and inclusive creating a course syi is an initial task that sets the
tone and structure for the entire course traditionally this process involves extensive research care planning and of
course a considerable amount of time we spent however generative AI has streamlined this process making it more
efficient we all know this there are corabi available in the internet but out
of curiosity I prompted Google Gemini used to be known as Barb to generate a core syllabus and it did within seconds I have a syllabus but it did not stop there I had to check the appropriateness of the course contents alignment of the assessment task and the like the deal
breaker was the references I had to check if the references listed in the on the generated syllabus are available in
our library and since many of the references listed are not available I
have to modify it also generative AI is a very good tool for creating outlines and learning objectives I was amazed at how quickly and effectively AI could generate a comprehensive outline AI can pull together an enormous amount of information from a vast database but I have to be critical as it could give out wrong information I have to check the output AI not only generates this
objectives but also provides suggestions for assessment methods to measure students progress however as a teacher I
have to check if the learning objectives are aligned with the assessment creating a cohesive and effective learning
experience the process of generating learning objectives with AI also allows for quick adjustments and updates
ensuring that the course remains Dynamic and responsive the students
need in our classroom we need ongoing training first
one and then the second one user friendly and affordable AI tools and the
third one accurate academic reference with this kind of of support we can make the most of AI to exchange teaching and learning and AI has a great potential to improve education with the right support and we can unlock this potential by the benefit of our student by addressing these key areas we can ensure that AI becomes a powerful El in our educational Journey helping us to create more engaging effective and in inclusive
learning experience for all our students providing reliable technical support can help ensure that AI tools are used effectively and that any problem are
quickly resolved supportive leadership is also crucial for the successful
integration of AI tools School leaders should Champion the adoption of AI tools by highlighting their benefits and successes fostering a culture of innovation and providing the necessary
resources and support for teachers to experiment with and integrate AI tools into their teaching practices a
comprehensive policy framework from the national government is also essential to guide the ethical and effective use of

generative AI in education policy makers should develop guidelines and standards that address these key issues such as data privacy ethical AI use and Equitable access to technology
[Music]
we do hope our listeners have gained new insights A New Perspective on generative Ai and how it can be a tool to assist in teaching and learning in the classroom I know I did learn a whole lot of new information from today's session as much as we want to listen and understand more on the topic I am afraid that we have now come to the end of the webinar
I'm happy to inform that our webinar committee will gather the remaining questions shared by our listeners and
all these question will be forwarded to our speakers both question and answers will be posted in simos and social media
pages in due time I am pleased to also inform that the evaluation link has been activated our listeners can start accessing the evaluation form starting now but please be reminded that you must
complete the evaluation before 12 midnight Malaysia time to qualify for
the webinar certificate the webinar certificate can be downloaded right after completing the evaluation form in
our CIS site for updates on future programs you are welcome to like and
follow simos and social media pages on our Facebook Instagram and Twitter
through the QR and Link on the screen for those who have just joined the full webinar recording can be watched at at
simen official YouTube channel if you have further inquiries you may reach us
at communication at simos and.edu on behalf of the webinar
committee simen and our collaborators at Tech Hub and simum I would like to again express our sincere thanks to everyone for tuning in to our live webinar our
highest appreciation to all esteemed speakers and moderators for your sharing and part anticipation thank you cop or cop chai
come and until we meet again in our next
webinar I am zul signing off
[Music]
[Music] it's time to open our
eyes to a bright and promising
future will rise to the call of the
time and create the stronger
tomorrow let's start to make a difference teaching everyone to learn
through science health and Technology we will share our expertise by promoting knowledge and
policies we can build a better world let us take stand for vious home
bringing F to for the people to R in a
life filled with happiness and here
saor building the future is our [Music]
Legacy we'll achieve our goals through partnership creating
opportunities by working hand in hand we can accomplish all our dreams for a better quality of life is now Within are

rich let us take a stand for our fous of
making f for the to GR in a life filled with
happiness and here a [Music]
saor the future is our Legacy
the for our V to hopeing
F for the people to in a life filled
with happiness and here
sa the [Music]
the
let and [Music]