



**Prince Mohammad Bin Fahd
Center for Futuristic Studies**



United Nations
Educational, Scientific and
Cultural Organization



Management of
Social Transformations
Programme

The Futures of Education in Saudi Arabia in 2040

A Virtual Futures Literacy Laboratory

November 16th & 17th, 2020

Schedule of the Lab

Day 1

17:00 Start and Intro Dr. Muamar and Dr. Miller
17:15: Check-in
17:25 Probable Futures of Education
18:00 Break
18:10 Preferred Futures of Education
19:00 End of Day 1

Day 2

17:00 Check-in with images of Preferred Futures
17:10 An Alternative Future of Education
18:00 Break
18:10 New Questions for the Present
18:45 Next steps
19:00 Lab closes

Welcome by

Dr. Riel Miller

Dr. Muamar Slameh

Main Facilitators

Dr. Stefan Bergheim

Ms. Christine Kavazanjian

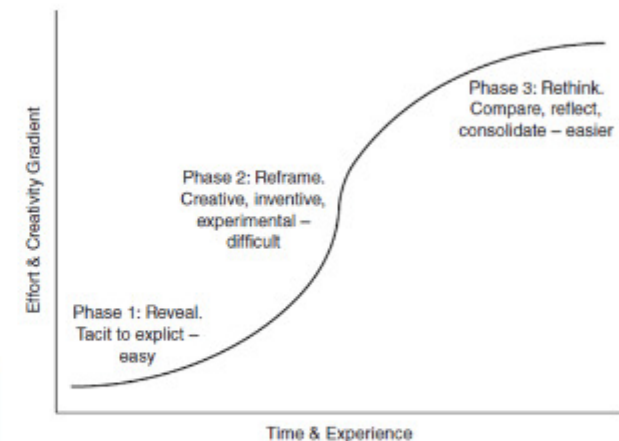


Figure 4.2 Three phases of the learning cycle

Group A

Group Facilitator
Ms. Crystal Sylvester

Co-Facilitator
Ms. Shahad
Alsharyan

Observer
Dr. Patricia
Marybelle Davies

Participants

P1a: Probable Futures of Education in Saudi Arabia

learning wont be general it will rather focus on specific needs or topics

Full Virtual Experience

robots and machines will teach

robots will be instead of teacher or instructors

no books there will be a device that answers all the students Q's and will have all the info. Led by robots.

Robots that answer any question it gets asked concerning education. like google that speaks and moves.

AI and Robot as an Instructor Assistant.

Multi Majors or Skill Education Base. Meaning no specific degree field. More about skill development across multiple areas.

More Individualized learning

school buildings would change location and structor

Instructors Jobs will be Designing the materials instead of delivering it

It will be a continues learning system

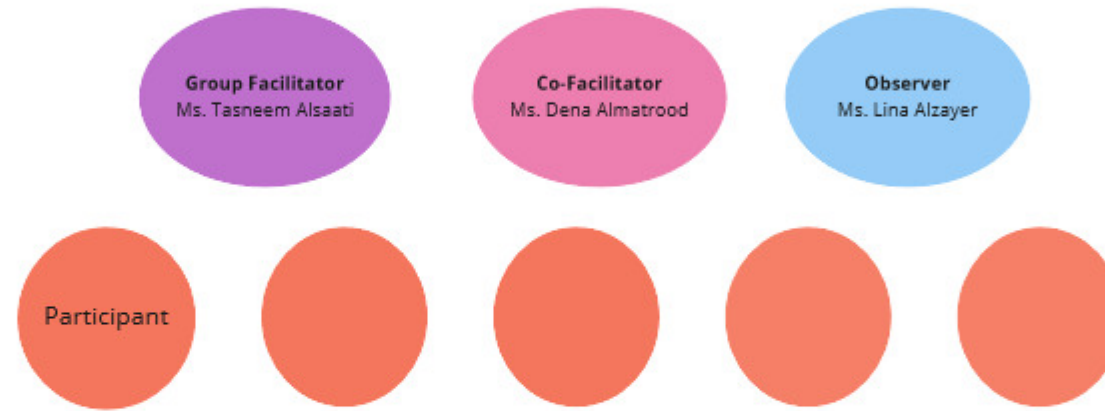
Books will be replaced by electronics

Open Global Collaboration Education and Learning

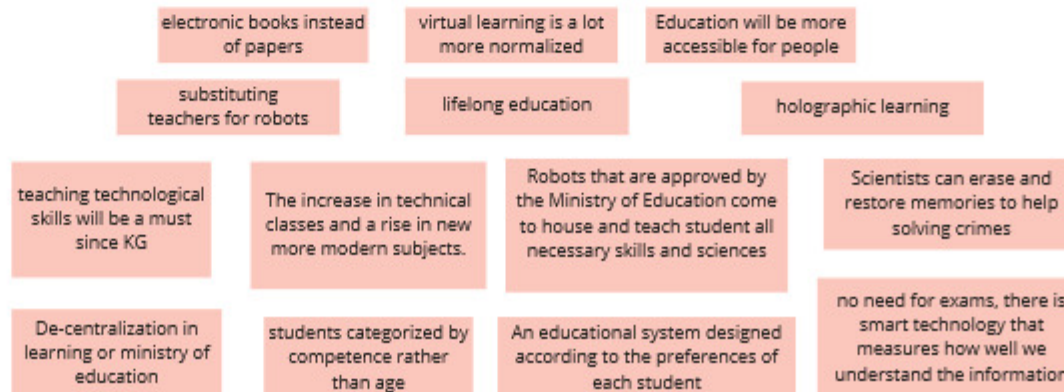
Gamification Academies

start with subjects concerning college major early in schools as what seems more interesting for students

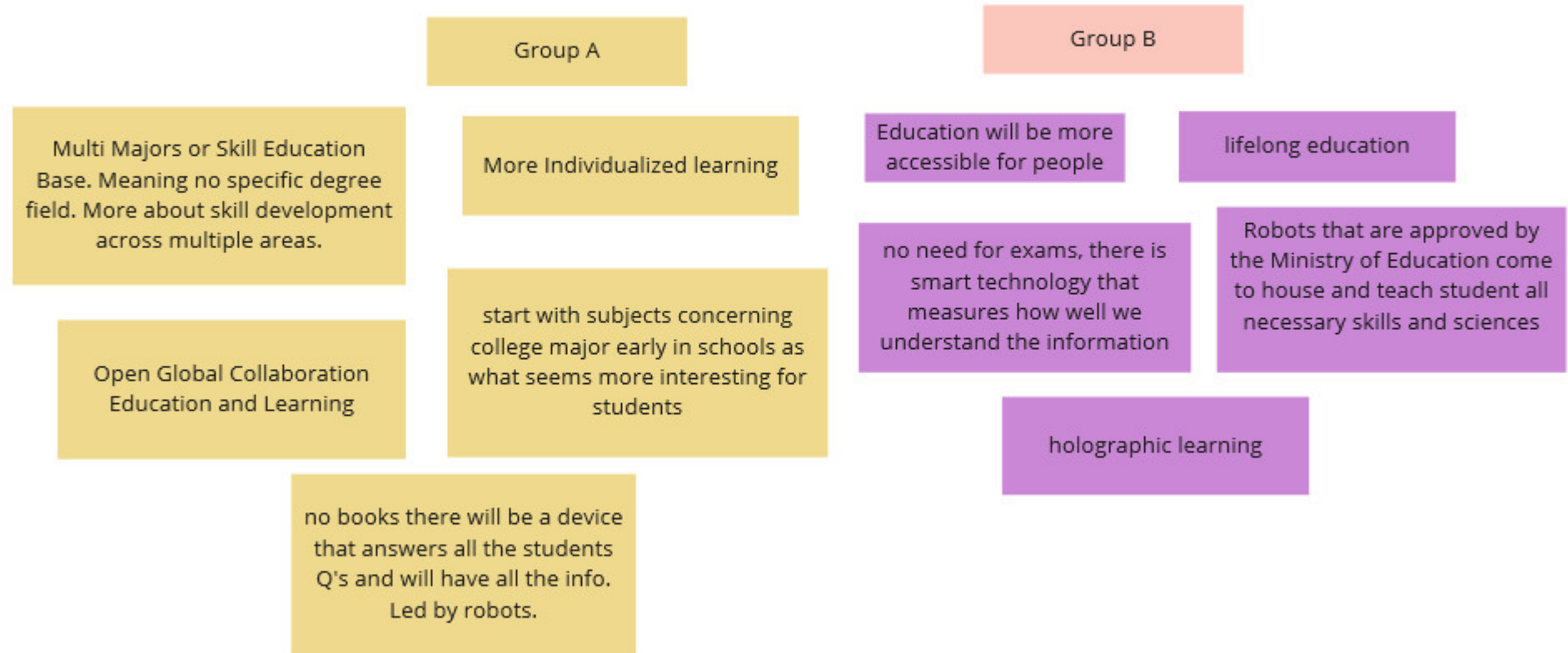
Group B



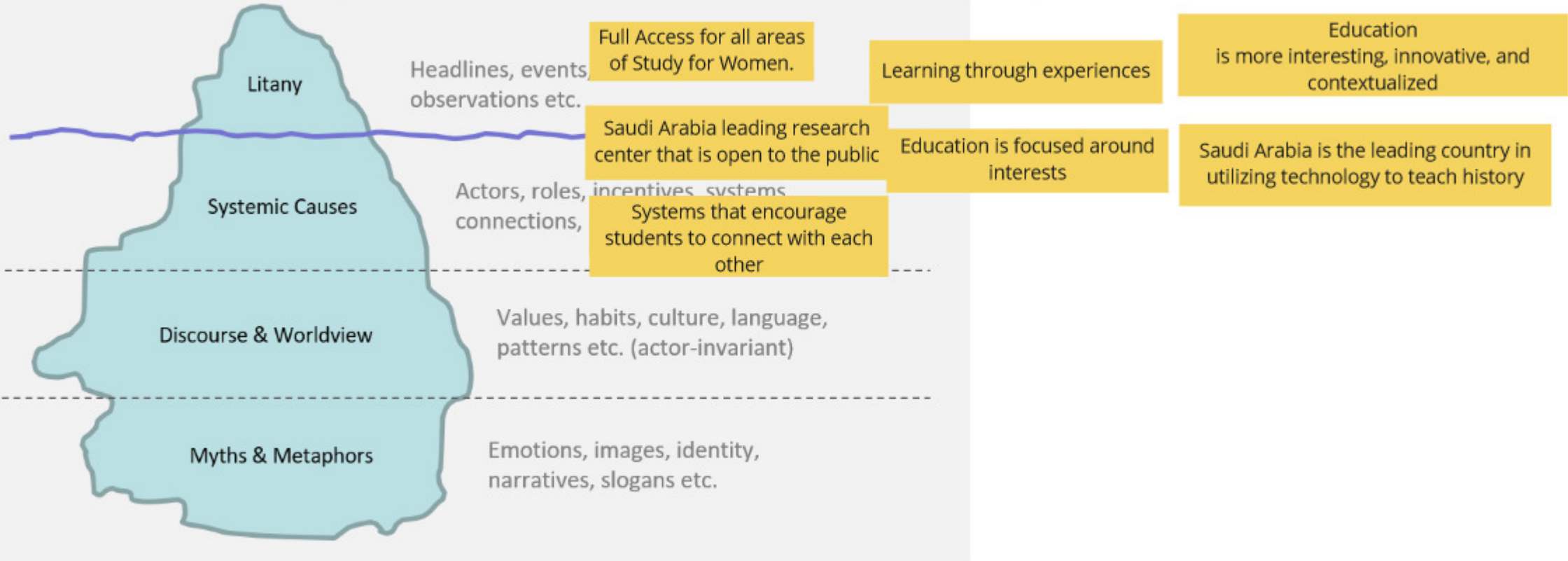
P1a: Probable Futures of Education in Saudi Arabia



Plenary on Probable



P1b: Preferred Futures of Education in Saudi Arabia



Education inclusive of connection to environment & community impact in everyday education with hands on involvement.

Sustainability is not just something to learn, it's something to live!



Assessment Methods Beyond Exams



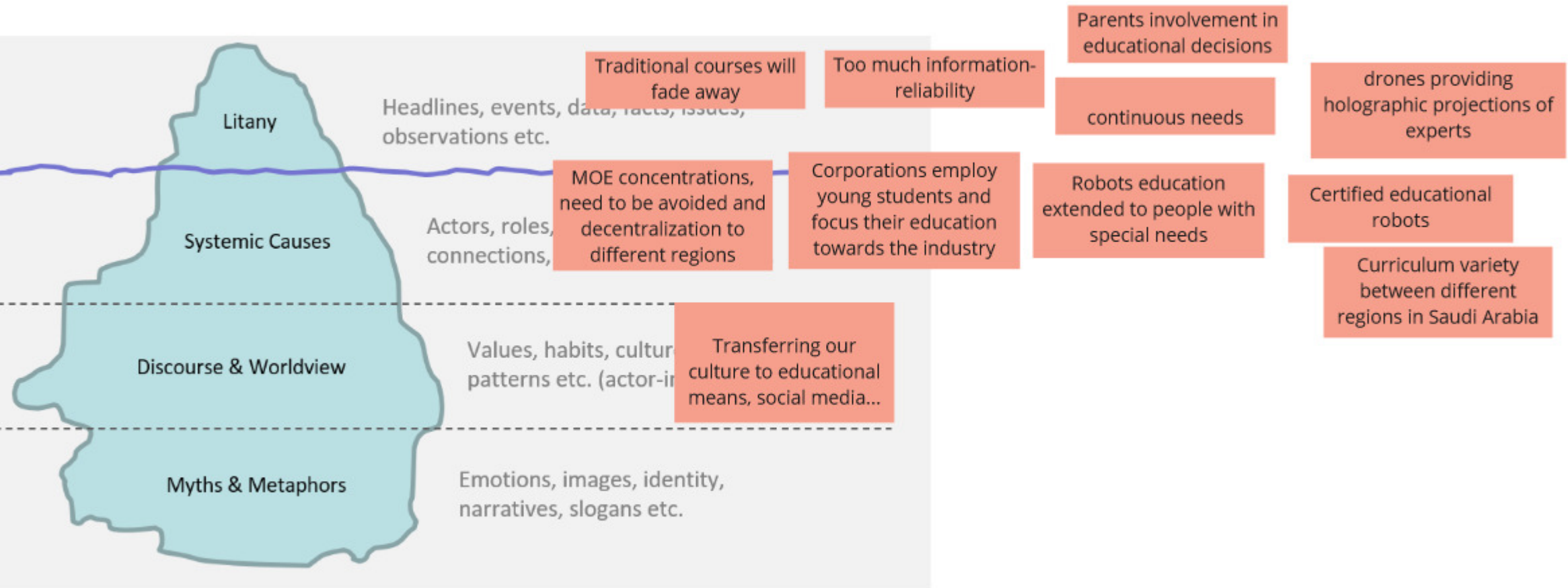
"Tell me and I forget, teach me and I may remember, involve me and I learn." – Benjamin Franklin

Open doors to creativity, innovation and ultra-learning for a brighter tomorrow

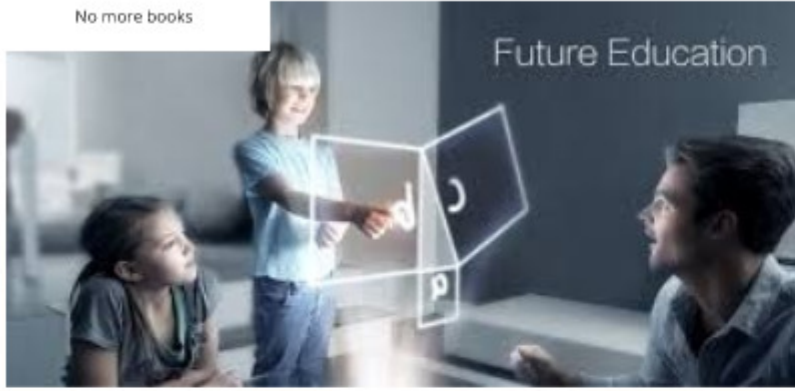
less time, easier way, more experience using artificial intelligence.

No books more trees

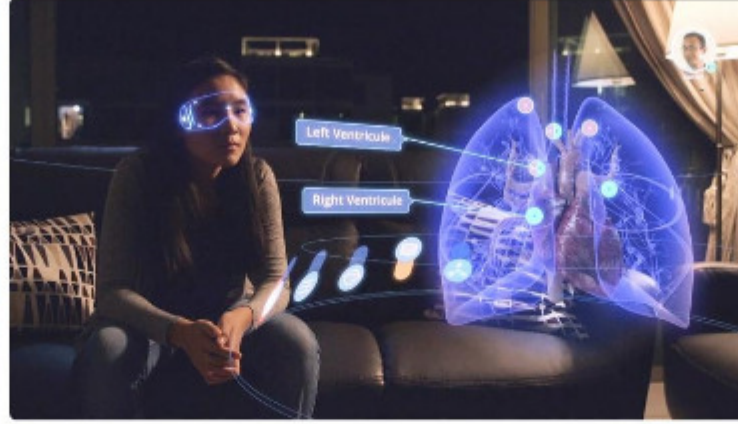
P1b: Preferred Futures of Education in Saudi Arabia



No more books



Students can learn using holograms in their homes in an interactive way



Taking knowledge from Experts in their place, Live into your place

Education on Demand, in house

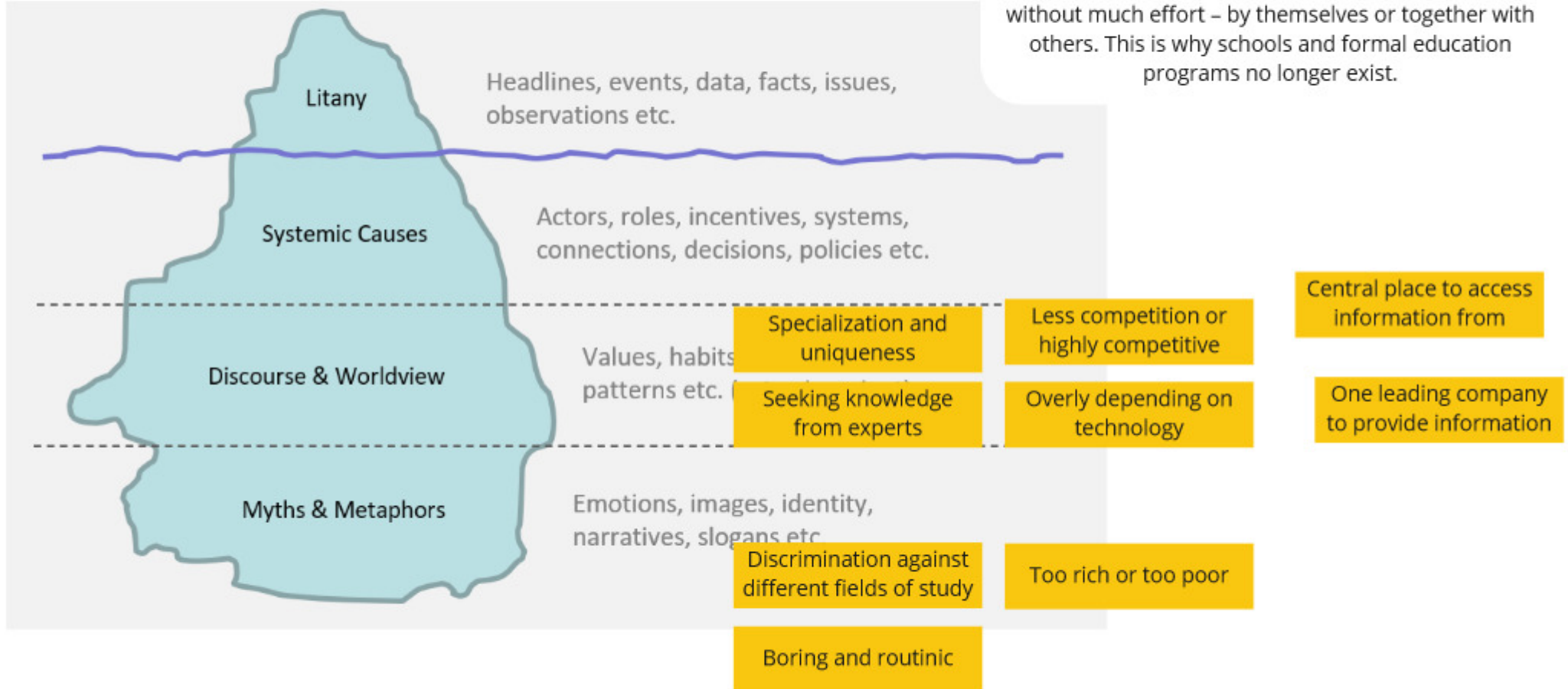


Classrooms and grading assessment in the future



P2: An alternative future

In the year 2040, humans learn all the time and in line with their specific needs. Their advanced sensory capabilities allow them to absorb helpful knowledge without much effort – by themselves or together with others. This is why schools and formal education programs no longer exist.

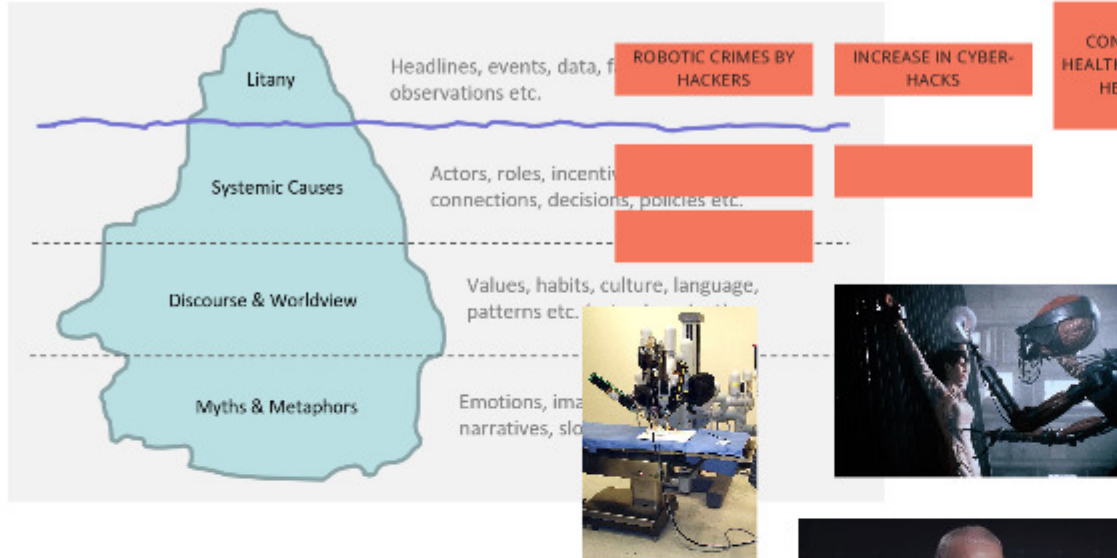


P2: An alternative future

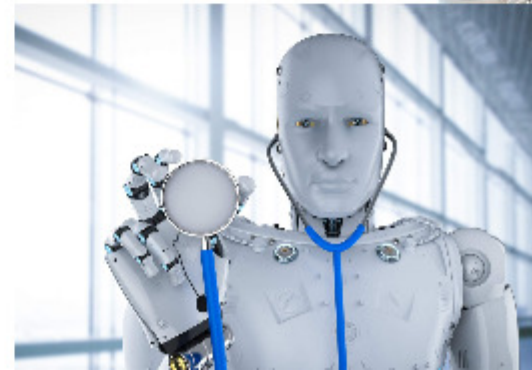
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Loneliness, falling in love with machines...
Emotions are wasted on emotionless devices and software



- SARA in yr 2040,
- glass room, hospital, interactive medical machines activate by clap,
- trying to remember why shes in the hospital, shes a medical student, shes living an entire day in the hospital, machines are doctors too, their living the experience of patient and doc, reading results from machines,
- she supervising, cafeteria, her friend is not really human, she blinks twice, a holographic image, contact lenses made her see hologram, she misses her mom, the hologram is her mom, she cries, we don't substitute doctors just nurses with robots; simple tasks, shes walking down the hallway, shes seeing simple tasks substituted with robots, hologram doctor in many places, giving instructions and supervising, robots do surgeries, shes a student in more than one field, main law, another-doc, health professional, how machines can create crime, special law about that, preventing robotic crimes (two ministries), screens in front of her, surgeries through computers to control robots (who do the surgery), she focuses on law side while controlling at home, supervise two jobs, robot consultant, her cat jumps on her laptop, it's a robotic cat.



Plenary on Reframe: How did it feel to be in this alternative future?

In a totally different world

Loneliness

Sad and not excited

disappointed

curious

thought-provoking

I was bored yesterday, then I felt excited because it was strange and new!

I felt like I am there, and it felt amazing

interested

Fearful but optimistic

Intersted

interesting

Rethinking about the Now moment

Excited

Plenary on New Questions and Next Steps

There will always be a need for creators of the necessary technologies. What percentage of the general public would be creators rather than simply consumers of technologies?

Will being creators be a right rather than privilege?

Are robots as good as we think?

How will we even reach there when we do not have a field that studies the robotic world?

government prepares to use robotics in education in the next years

Are robots actually needed? will they have more advantages than dis-advantages.

Is memorization and studying even necessary since robots already have all that information?

What are the outcomes of relying on robots? mentally?

Is it possible to give robots emotions, can they actually replace human beings?

scientists should rethink what their inventions might change in life, and know both the benefits and dis-advantage before inventing something new.

Are inventions going to ruin the world? So should we slow them down

what about us (as human)?

How can we keep the human aspect into the future?

What are the outcomes of relying on robots?

Are we going to have more problems because of robots?

How can humans and robots work together for a more sustainable future while maintaining humanity?

Will traditional educational still be used and relevant?

are we going to be a part of the change?

will all the world be a part of this?

Collaboration of pioneering and developing countries to create the envisioned future of education for 2040

Are some countries going to reach that kind of future before Saudi Arabia; example : Asia, How is technology going to evolve in Saudi by 2040 to the reframed future?

Are we prepared for the future?

How to make societies take this transformation seriously?

The turning point (How to make societies take this shift seriously)

How will the transition happen?

How can we punish robots?

Qualifying cadres capable of dealing with artificial intelligence and robotics

Create more experience based connection education for youth to self, humans, and other living beings as well as the planet to encourage the development in technology geared to support this connection.

What other assessment methods could be available?

How can we prevent future crime related to robots?

Has COVID-19 affected the way we envisioned the future?

What will happen to the people who learned through the old education system?

Are we going to provide poor people with internet connection and free devices to get their education?

Establish new laws on cybersecurity

Double major in robotics and law

New laws on human rights and the replacement of humans with machines (job security)

Help our children understand the importance of maintaining human relations Less interaction with machines in 2020

We can make the impact of COVID-19 on education as a turning point for the future we want

The older people who decided to complete their higher education , can they do it in free government learning system or is it limited to fresh high school graduate?

Do we need to shorten the school years?

Shortening the basic educational years to graduate the largest possible number of qualified cadres

During this pandemic we're trying one of the future ways of teaching

changing the schooling system

Practicing thinking big not limiting ourself to today but to truly see the future and innovation in all aspects of our day and being open to new ideas

How to change perspectives to positive thoughts of the future?

The current materials are they going to be developed based on what is coming?

Why did the age matter all of these years when it has nothing to do with education?

We can make the impact of COVID-19 on education as a turning point for the future we want

Promoting for a healthier lifestyle in term of mental wellness and physically

Will we suffer from more mental problems?

adding a major in uni & schools about robots and how to interact with them

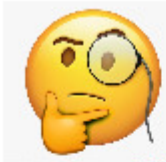
Awareness of how robots are environment friendly.

Creating more creative learning materials. Develop more innovative delivery and assessment methods. Providing more opportunities for older people and all people who wants to continue their education.

Getting 3rd or 4th Bachelor degree. Get educated and keep learning from other sources outside of the official education system.

Implement strong internet connection in poor and small villages.

reducing theoretical materials and live the experience to learn it



Check-out

