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OF HONG KONG



*Maximus Gorky Sembiring*  
Universitas Terbuka, Indonesia  
[gorky@ecampus.ut.ac.id](mailto:gorky@ecampus.ut.ac.id)  
[www.ut.ac.id](http://www.ut.ac.id)

**IROPINE Seminar Series on  
“Innovative & Effective Teaching during COVID-19”**

**Conceivable Future Roles of Teachers  
Teaching Effectively for the  
21<sup>st</sup> Century Learners**

**Friday, 18 September 2020  
11:00 am – 12:15 pm (HK Time)**



**Maximus Gorky  
Sembiring**















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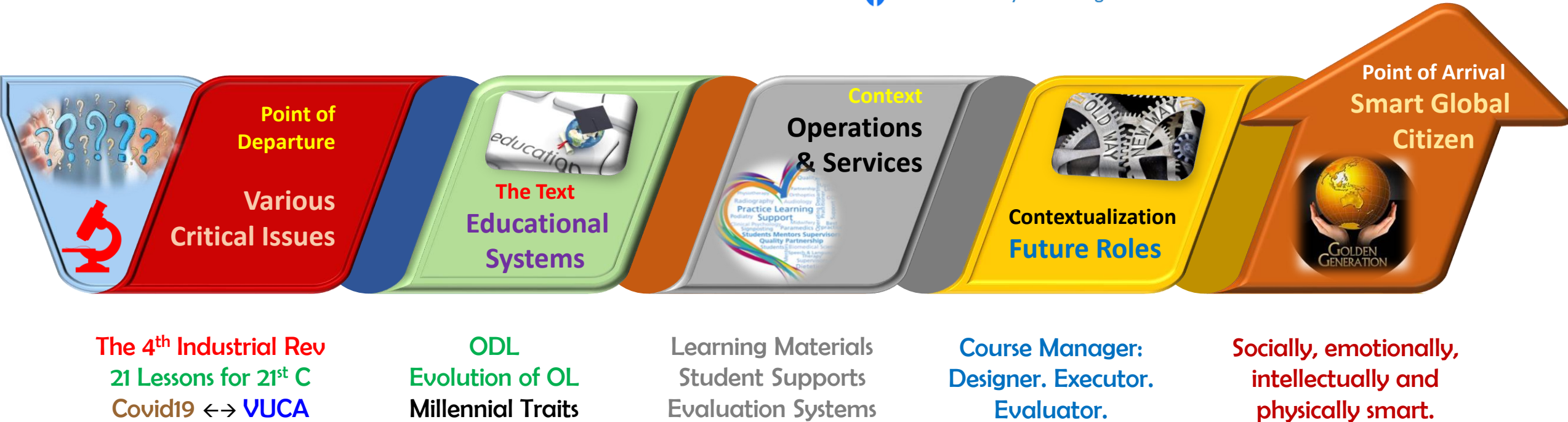
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*The flow of presentation*

## Future Roles of Teachers in the 21<sup>st</sup> Century



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Mediocre educator tells!  
Ordinary educator describes!  
Good educator demonstrates!  
Great educator *inspires!*

*If we teach today's students as we taught yesterday's, we rob them of tomorrow*



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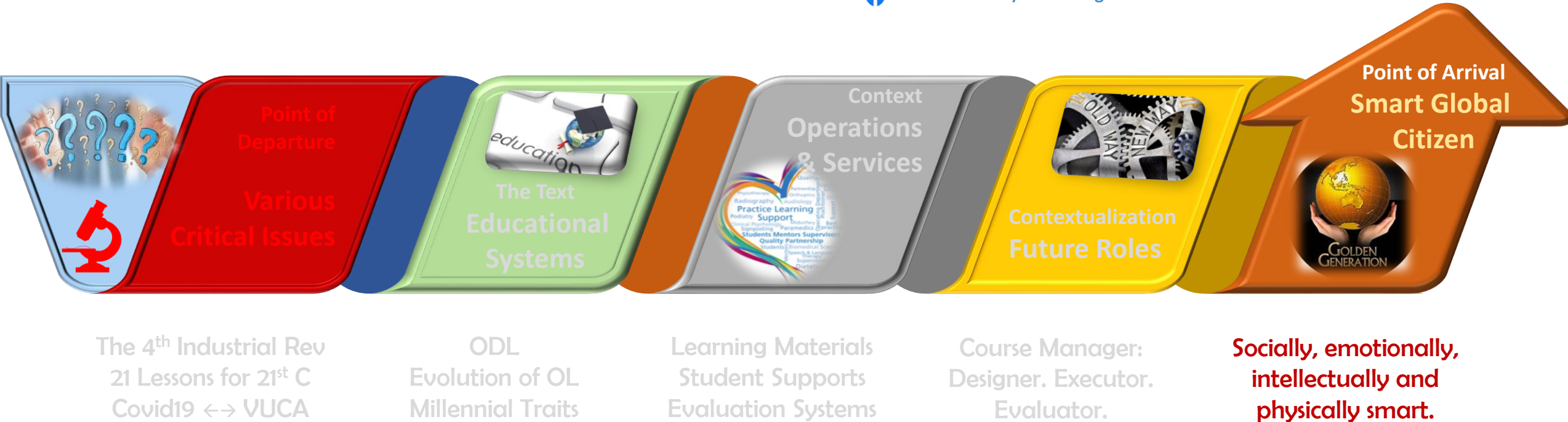
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The 21 <sup>st</sup> Century Skills	Inquiry Processes	Projects
Critical thinking	Questioning	Writing
Creative thinking	Planning	Graphing
Complex problem solving	Researching	Web developing
Communicating	Creating	Audio-visual
Collaborating	Improving	Design
Composing argument	Presenting	Performing
<b>Constructing Literacy*</b>	Conjecturing	Community

*\*Data. Information. Technology. Media. Financial. Human. Social.*



## Point of Arrival Smart Global Citizen

*Anything seems impossible  
up until it's done!*

Socially, emotionally, intellectually &  
physically smart → **Golden Generation!**



Great grade. On time. Joyful.  
Impactful → **Highly Recognized!**

Source (and modified from): Inquiry, available at <https://thoughtfulearning.com/inquireHSbook/pg10> (Retrieved 8 June 2020)

Sembiring, M.G. (2016). Meaningful learning determinants in advancing responsible citizens in Indonesia settings. Paper presented for ATINER, Greece, 16-19 May 2016.

Sembiring, M.G. (2015). Validating student satisfaction related to persistence, academic performance, retention and career advancement within ODL perspectives. *Open Praxis*, 7 (4), 325-337





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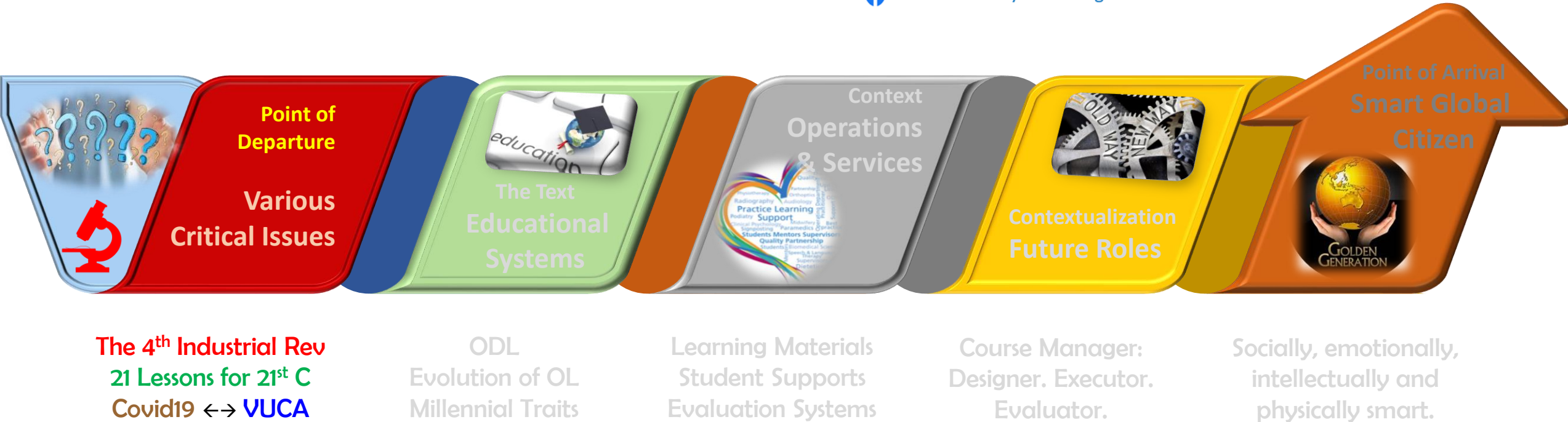
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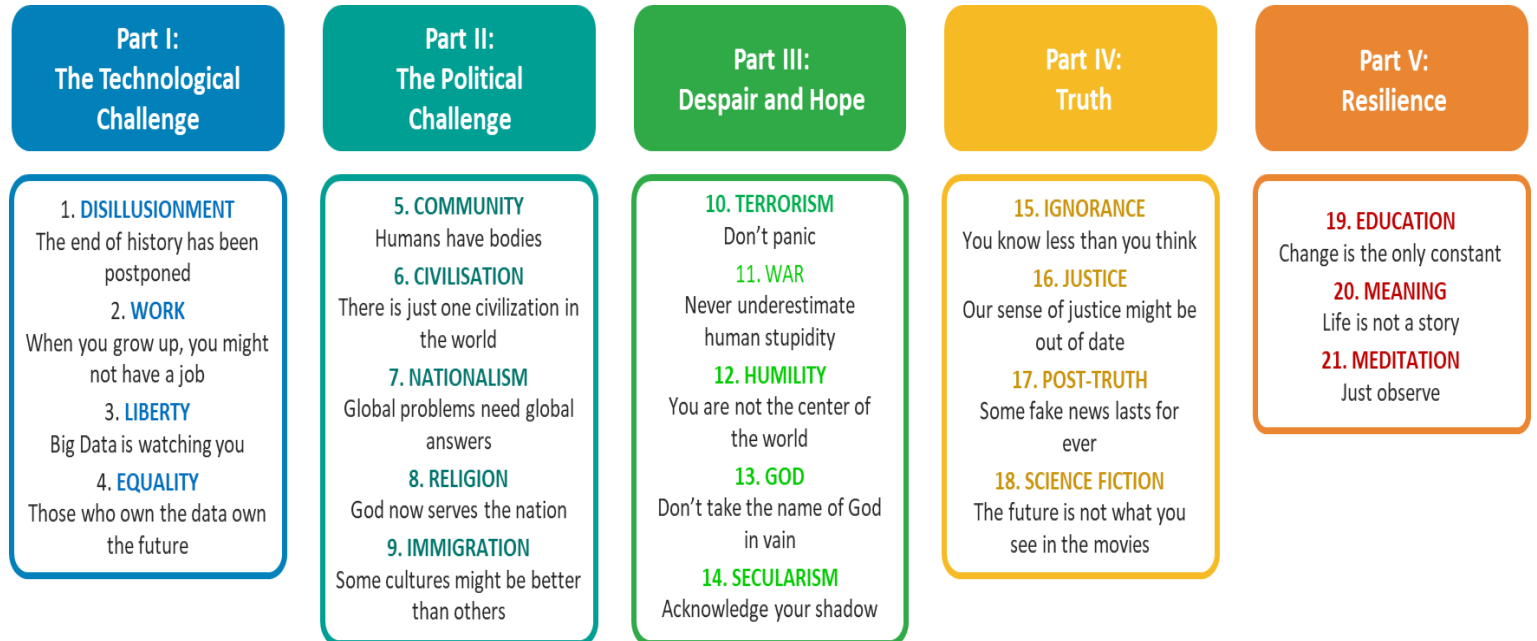
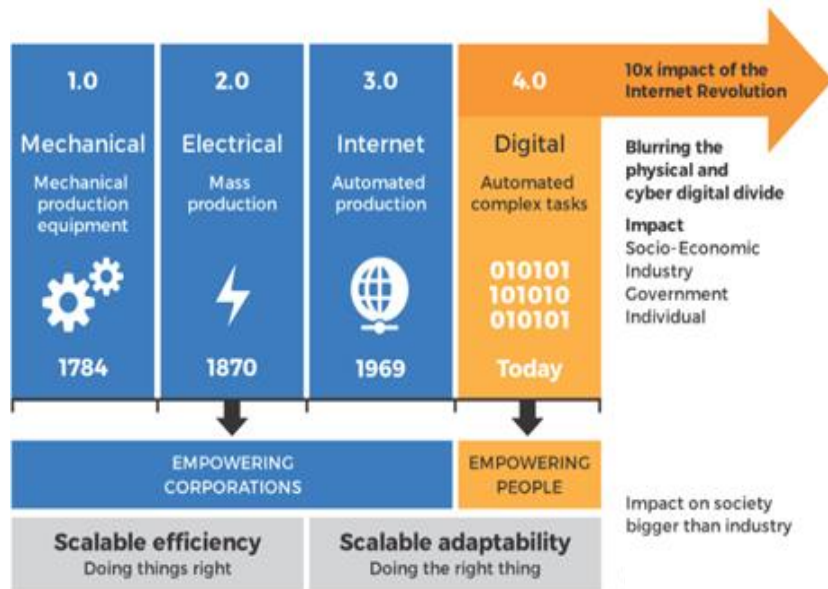
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## Point of Departure: Critical Issues Industrial 4.0 & 21 Lessons for 21<sup>st</sup> C

Harari, Y.H. (2018). *21 Lessons for the 21st Century*. New York: Spiegel & Grau.



Schwab, K. (2017). *The Fourth Industrial Revolution*.  
United Kingdom: Penguin Random House.

→ *Static. Deterministic. Probabilistic. Stochastic. Chaotic!*

→ *Survival of the fittest, the smartest & the strongest*



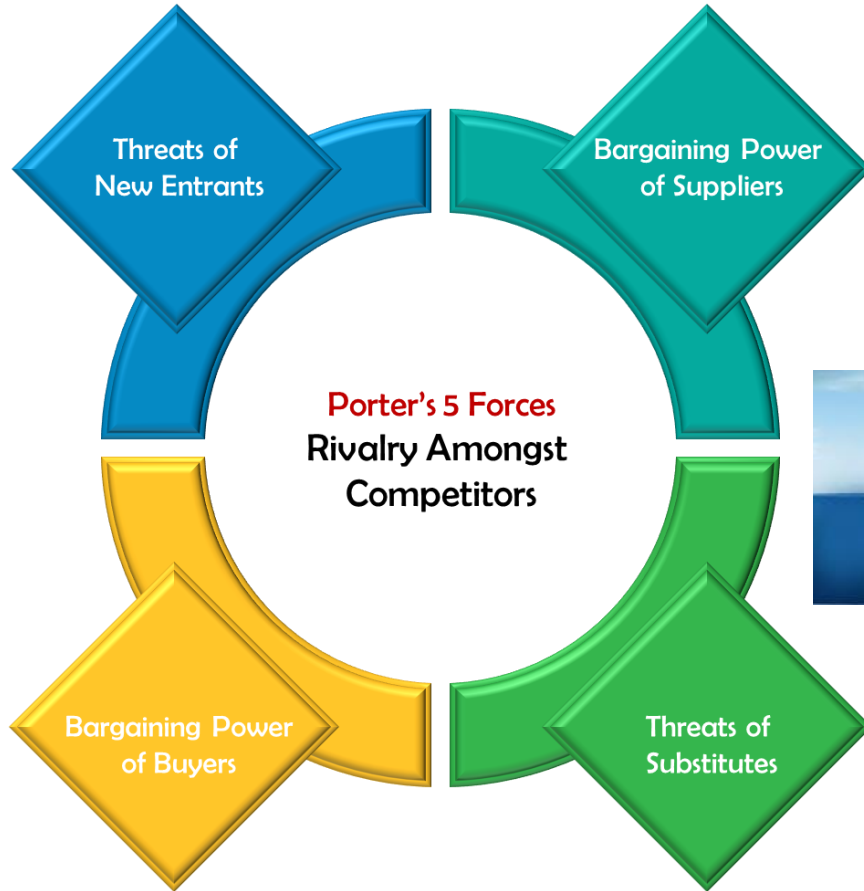


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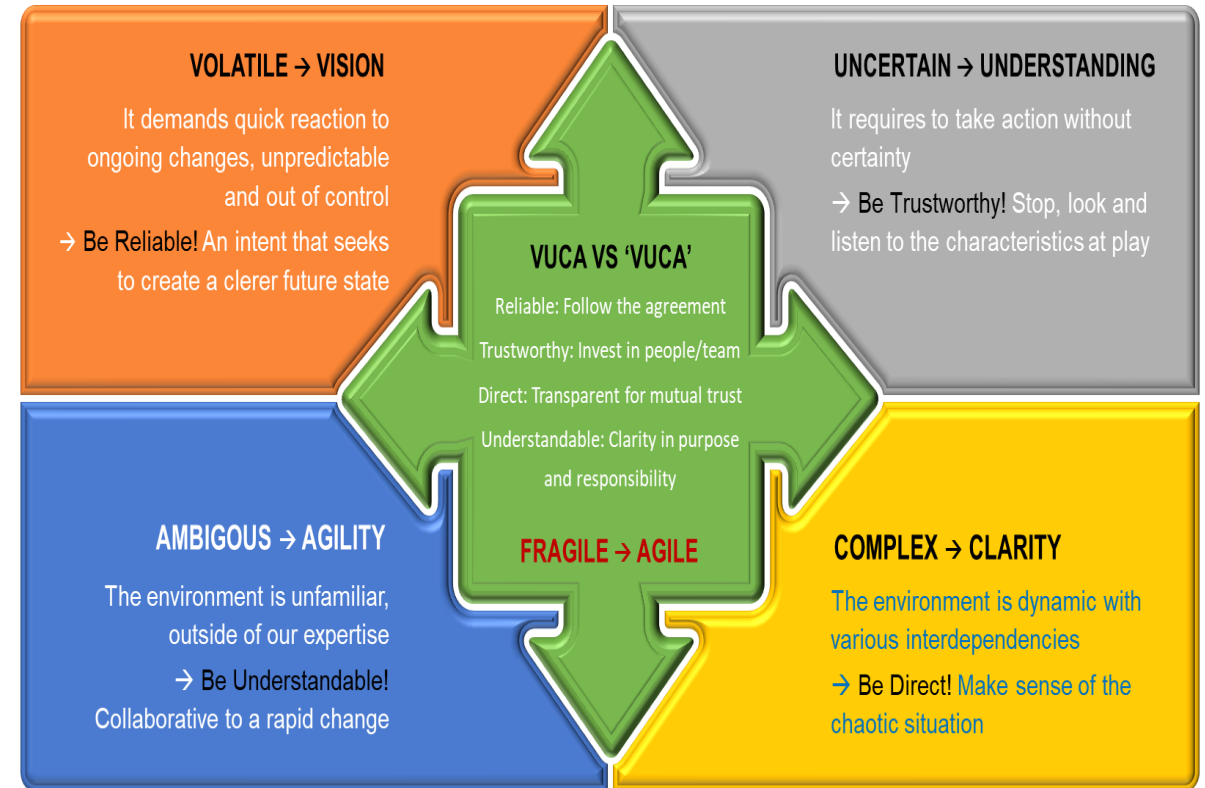


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Porter, M.E. (1985). *Competitive Advantage*.  
New York: The Free Press.

## Point of Departure: Critical Issues Hyper-competition → VUCA!



*Hyper-competition → Chaotic: More adaptive. Faster. Simpler. Cheaper. Newer. Better*



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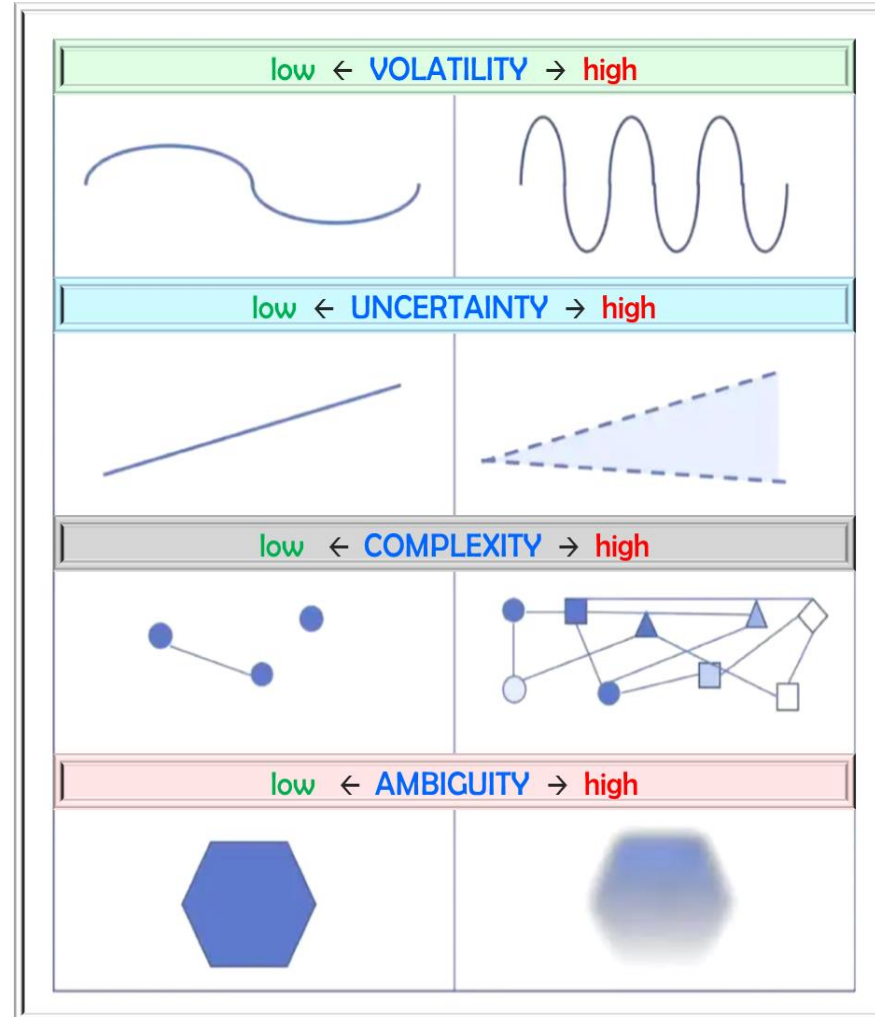
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*Nothing is permanent, but the  
change.*

*When we are a threat, we are  
always the target.*

*The greatest threat to our planet  
is the belief that someone else  
will save it.*

*Don't trust everything you see,  
even salt looks like sugar.*



*Afterwards: Gaps x Problems = Opportunities*

## *Point of Departure: Critical Issues* **The Real Reality We Have!**

*We can't change the wind, but the  
wing!*

*If nothing is certain, everything is  
then possible!*

*We were born with wings, then  
why prefer to crawl throughout  
life. Just fly!*

*Your focus determines your reality.  
Do what your heart tells you!*





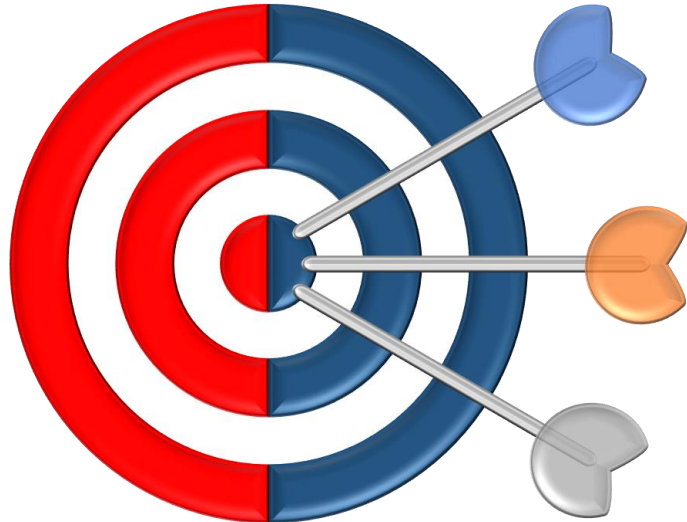
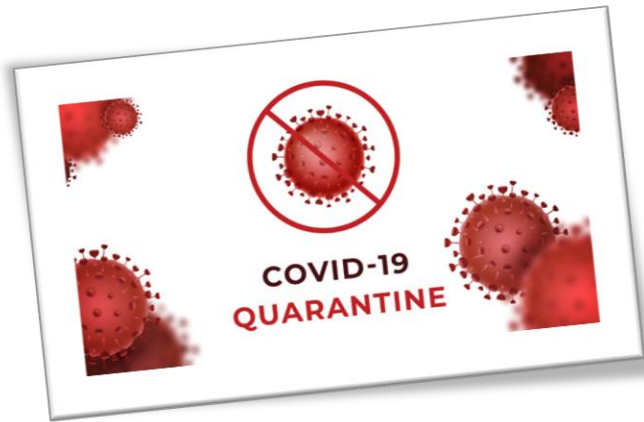
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## Point of Departure: Critical Issues The COVID-19 → Learning!



### DISRUPTION

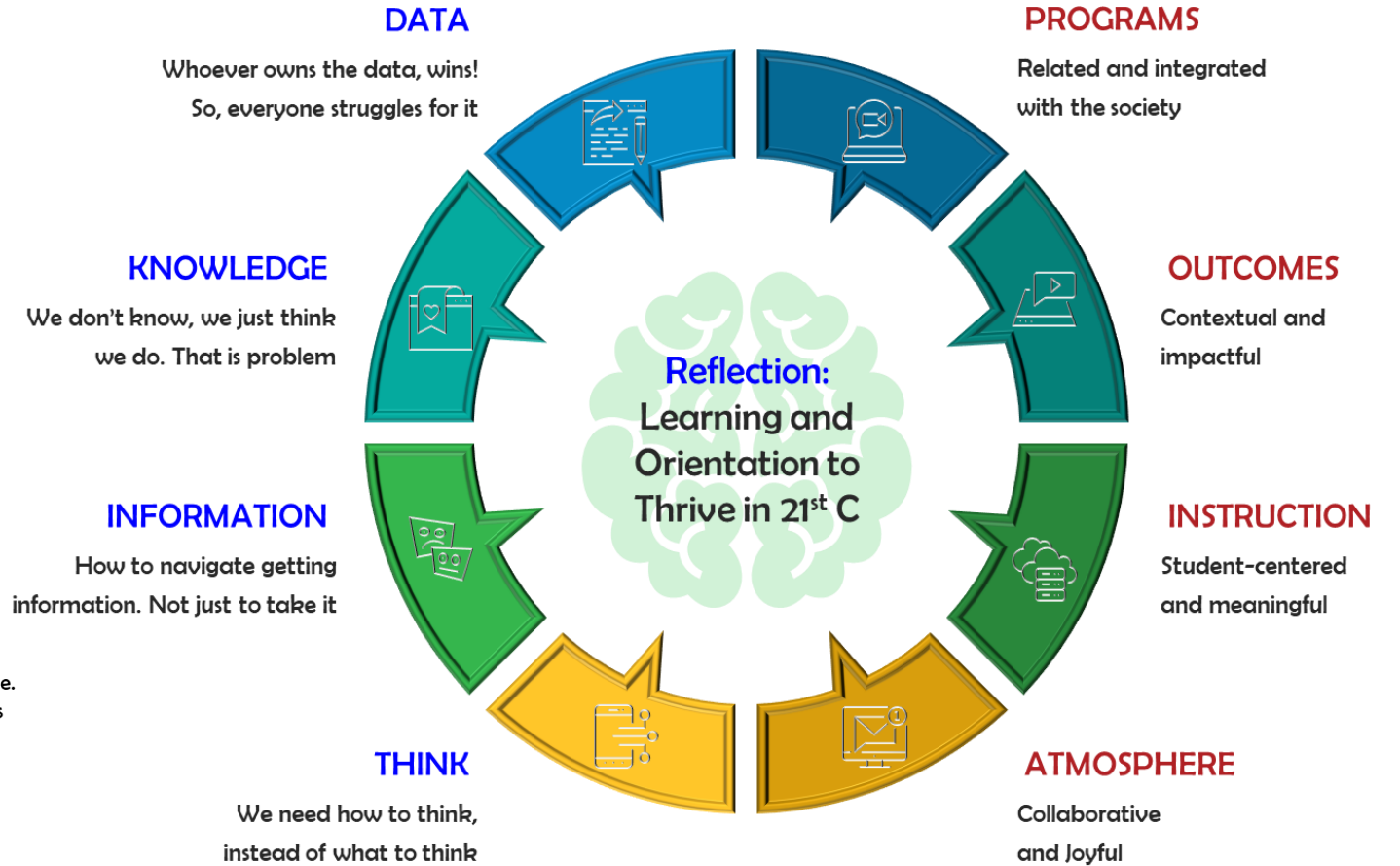
Short Term: Lifestyle  
change. Loss of freedom.  
Quarantine living.

### CONFUSION

Mid Term: Mental fatigue.  
Economic impact. Life vs  
Livelihood.

### THE NEW NORMAL

Long Term: Behavioral  
shift. New outlooks to life.



*Make your intention clear, as the universe doesn't repond well to uncertainty*



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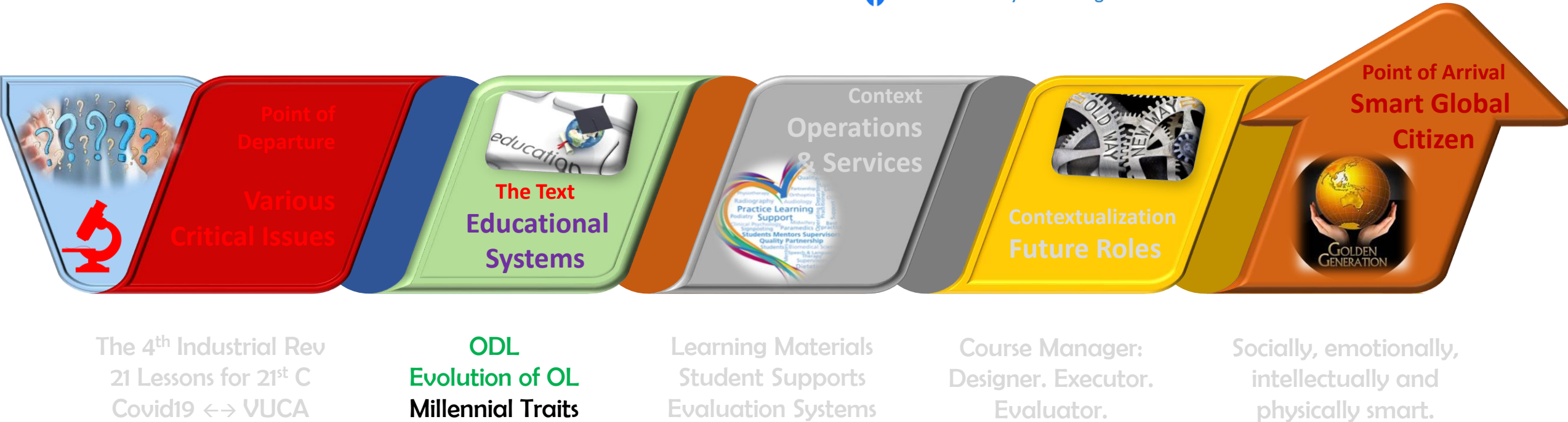
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*The flow of presentation*

## Future Roles of Teachers in the 21<sup>st</sup> Century



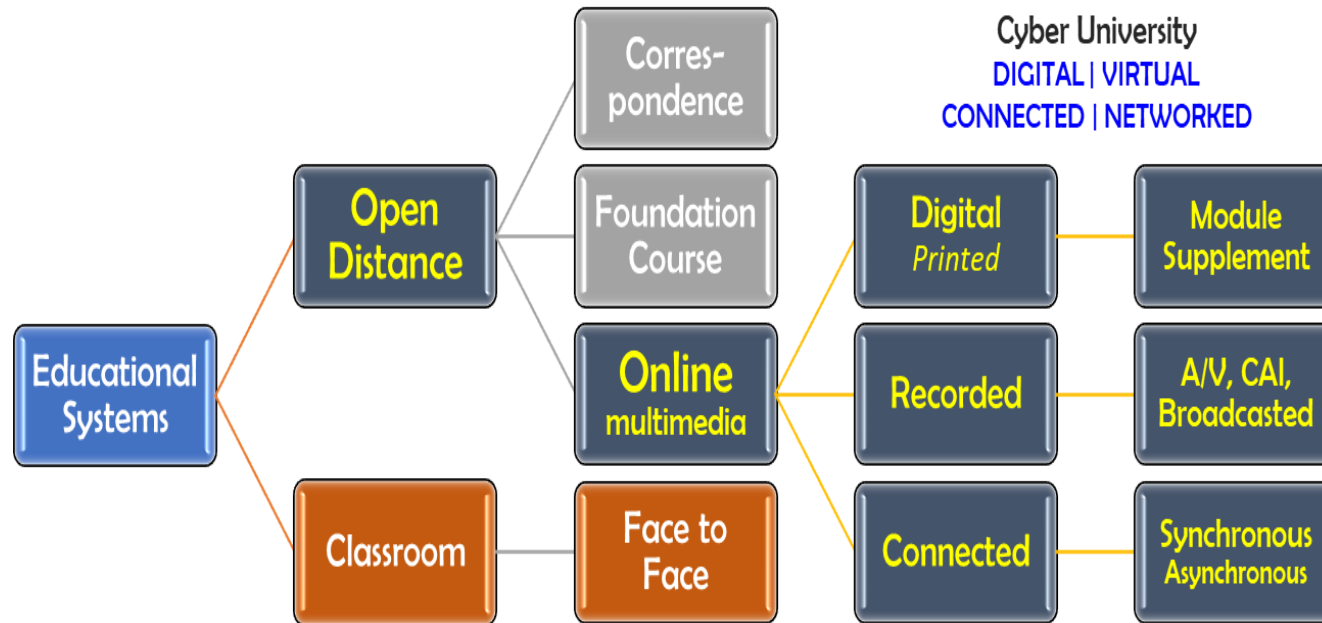
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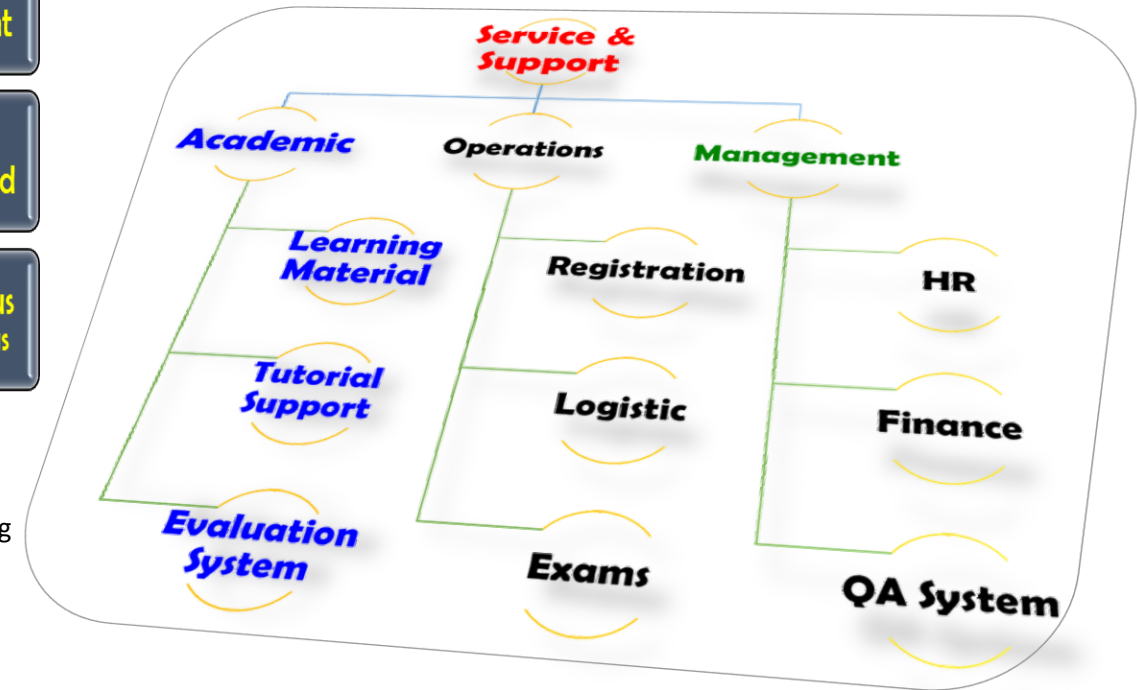
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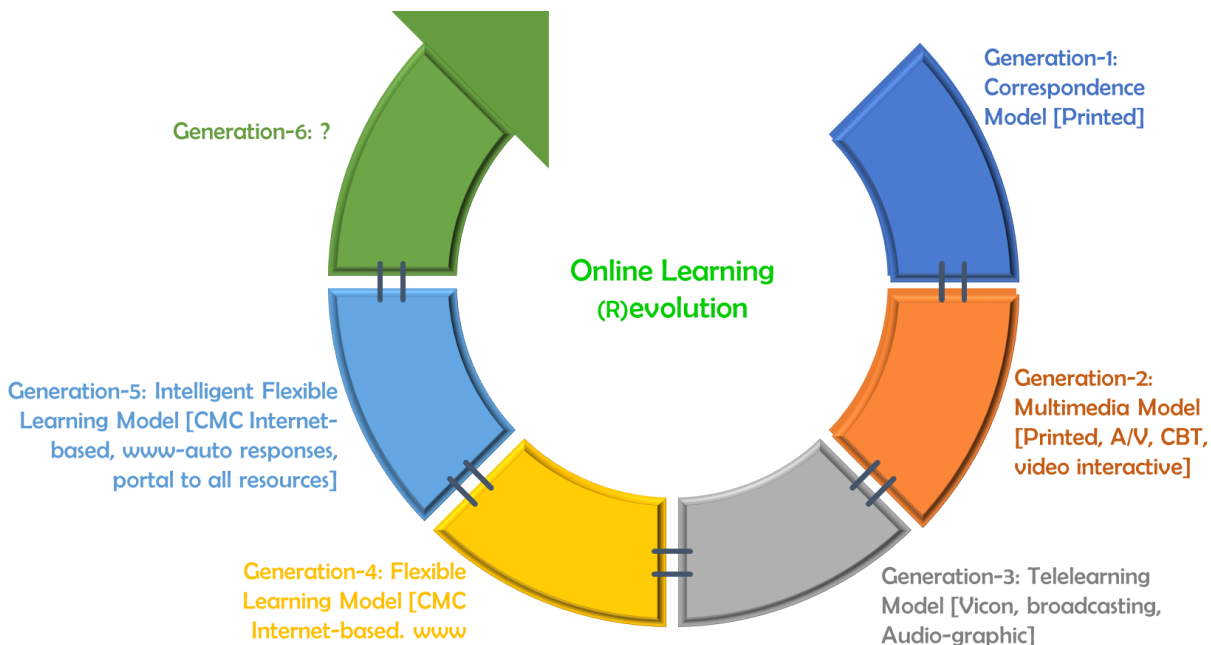


Sembiring, M.G. (2020). *Pendidikan Terbuka untuk Indonesia Emas*. In Belawati, T (Ed). Tangerang Selatan: Universitas Terbuka (E-book can be accessed via <http://repository.ut.ac.id/9055/>).

## The Text – Educational Systems Open Distance Learning Systems



*Don't too worry on rejection for we just need one person to say yes!*



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*The Text*

## Online Learning (R)evolution

Models of DE and Associated Delivery Technology	Characteristics of Delivery Technology					Institutional Variables Cost $\rightarrow 0$
	FLEXIBILITY			Highly Refine Materials	Advance Interactive Delivery	
	TIME	PLACE	PACE			
1. Interactive multimedia Delivery	Yes	Yes	Yes	Yes	Yes	Yes
2. Internet-based access to www resources	Yes	Yes	Yes	Yes	Yes	Yes
3. CMC – Using automated response systems	Yes	Yes	Yes	Yes	Yes	Yes
4. Campus portal access to institutional processes-resources	Yes	Yes	Yes	Yes	Yes	Yes

### 1. Key features

Vicon, audio-graphics,  
www & Internet www –  
resource sharing  
asynchronous-live  
communication,  
integration of media and  
technology for multiple  
platforms, learner and  
teacher options for the  
rise of web 2 technologies

### 2. Pedagogy

Behaviorism, cognitivism,  
constructivism, social  
constructivism

### 3. Content owner

Universities and global  
community

### 4. Curriculum

As more knowledge producers  
enter the market (formal,  
informal and self-publishing) the  
curricula increasingly become open  
and fluid. OER, YouTube and other  
social technologies are changing the  
nature of knowledge, the  
curriculum and the validation of  
knowledge

### 5. Interaction

Content starting to move away  
from the university – asynchronous  
and synchronous interaction – mass  
delivery becomes problematic and  
demands for interaction challenge  
ICTs

### 6. Medium

Text, images, sound and video

### 7. Production

Printing press, sound and video, film  
recording and computer design,  
programming, user involvement

### 8. Storage

Digital storage media (CD, DVD,  
memory sticks, central servers, HD)

### 9. Delivery

Mail system, TV, tel, computers,  
video and sound playback starting  
to become a generic device and  
Internet/www as a generic platform

Taylor, J. (2001). Fifth generation distance education. *e-Journal of Instructional Science & Technology*, 4(1), 1-14. Retrieved from <http://eprints.usq.edu.au/136/>

McTee, K. (2010). Thirty Years of Distance Education: Personal Reflections. *IRRODL*, 11 (2), 100-109. <https://files.eric.ed.gov/fulltext/EJ895751.pdf> (Retrieved 24 June 2020)





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*The Text*

## Millennial Traits in Learning

### ENGAGEMENT STRATEGIES



**Relevance:** Connect subject with events and culture. Don't value information for information's sake.



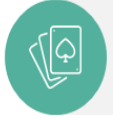
**Rationale:** Follow policies with reasoning as they were raised in a non-authoritarian manner.



**Relaxed:** Thrive in less formal, laid-back and constrictive environment. Informally interact with teachers, one another.



**Rapport:** Rational. Strong connection with educators. Having adults in their lives show great interest in them. Pursue learning outcomes when teachers connect with them on a personal level.



**Research-based Methods:** Prefer a variety of active learning methods. If they're not interested, they quickly shift their attention elsewhere.

### LEARNING TECHNIQUES



**Diversify modalities:** Use audio and video clips and let students practice using task trainers for specific physical tasks.



**Directly relate the material to them:** Use a case-based scenario as a jumping-off point for discussion.



**Collaborate and exchange:** Open up a dialogue with students and let their inquiries and curiosity lead the way to further discussion.



**Teaching Millennials:** All knowledge is accessible. Always connected to data and each other. Students: Find, filter & focus. Teacher: Guide, facilitator & coach.



**Ideal Learning Environment:** Less lecture. More use of multimedia and collaboration with peers.



*Paradoxical: Open to Change  
Connected – Unique  
Optimistic – Fragile*

*Friendly in competition and  
competitive in friendship*



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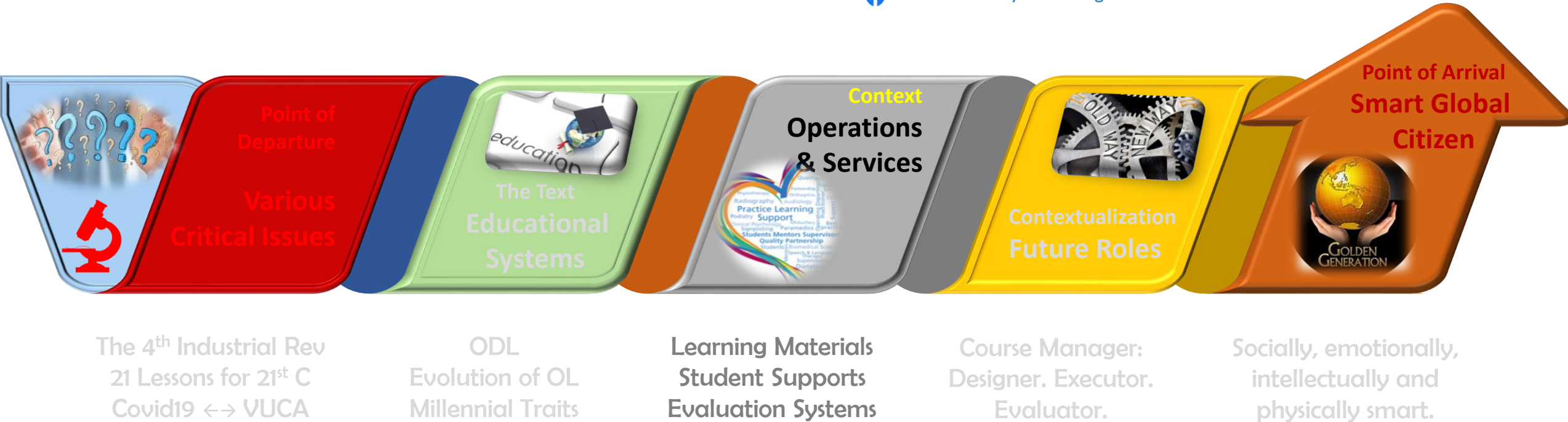
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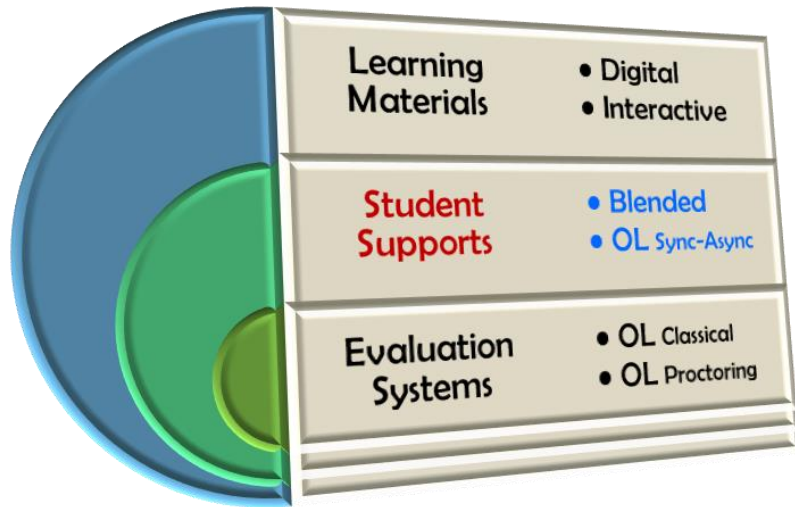


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Source: FLIPHTML5, <https://fliphtml5.com>  
(Accessed & modified 8 June 2020)  
Belawati, T. (2019). *Pembelajaran Online*.  
Tangerang Selatan: Universitas Terbuka.

*Context: Operations & Services*

## Learning Material, Student Support & Evaluation



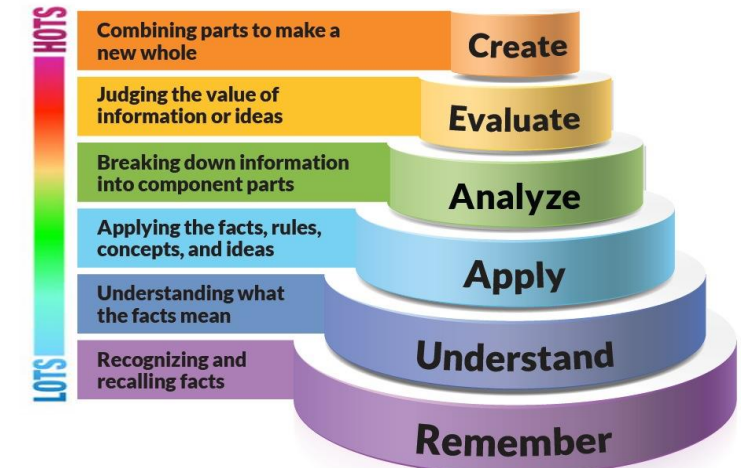
*Never ever think of what we don't have, instead just think of what we can do. And, make it happen!*



# Beautifying the Online Learning Process

## Conception Substance Orientation Delivery Reference

BLOOM'S TAXONOMY DIGITAL PLANNING VERBS					
REMEMBERING	UNDERSTANDING	APPLYING	ANALYZING	EVALUATING	CREATING
Copying Defining Finding Locating Quoting Listening Googling Repeating Retrieving Outlining Highlighting Memorizing Networking Searching Identifying Selecting Tabulating Duplicating Matching Bookmarking Bullet-pointing	Annotating Tweeting Associating Tagging Summarizing Relating Categorizing Paraphrasing Predicting Comparing Contrasting Commenting Journaling Interpreting Grouping Inferring Estimating Extending Gathering Exemplifying Expressing	Acting out Articulate Reenact Loading Choosing Determining Displaying Judging Executing Examining Implementing Sketching Experimenting Hacking Interviewing Painting Preparing Playing Integrating Presenting Charting	Calculating Categorizing Breaking Down Correlating Deconstructing Linking Mashing Mind-Mapping Organizing Appraising Advertising Dividing Deducing Distinguishing Illustrating Questioning Structuring Integrating Attributing Estimating Explaining	Arguing Validating Testing Scoring Assessing Criticizing Commenting Debating Defending Detecting Experimenting Grading Hypothesizing Measuring Moderating Posting Predicting Rating Reflecting Reviewing Editorializing	Blogging Building Animating Adapting Collaborating Composing Directing Devising Podcasting Wiki Building Writing Filming Programming Simulating Role Playing Solving Mixing Facilitating Managing Negotiating Leading



Source: Teachthought, at <https://www.teachthought.com/critical-thinking/126-blooms-taxonomy-verbs-digital-learning/> (Retrieved 7 June 2020)

Source: FlippingBook (<https://teachonline.ca/teaching-in-a-digital-age/teaching-in-a-digital-age-second-edition>) (Retrieved 8 June 2020)





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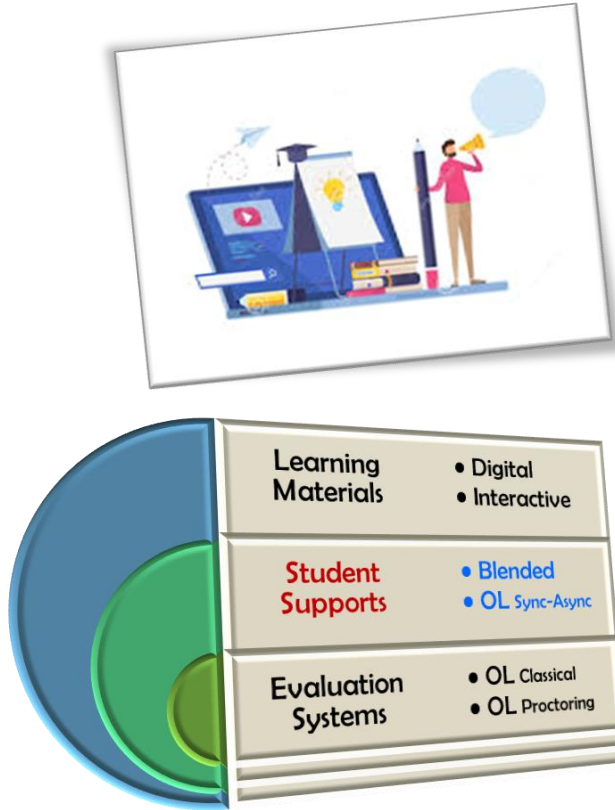
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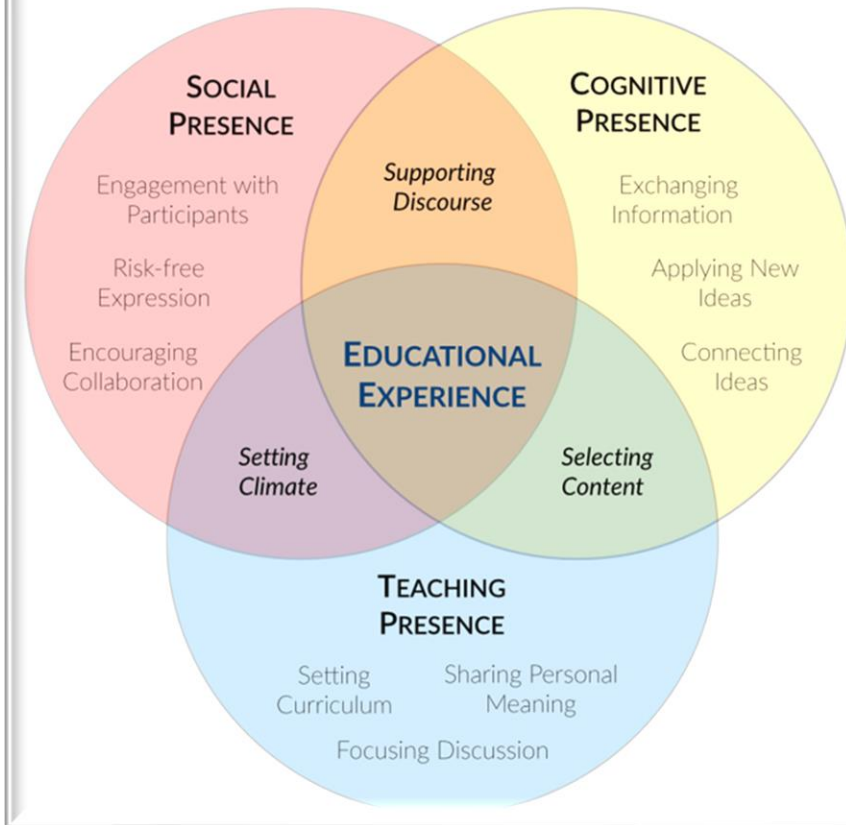
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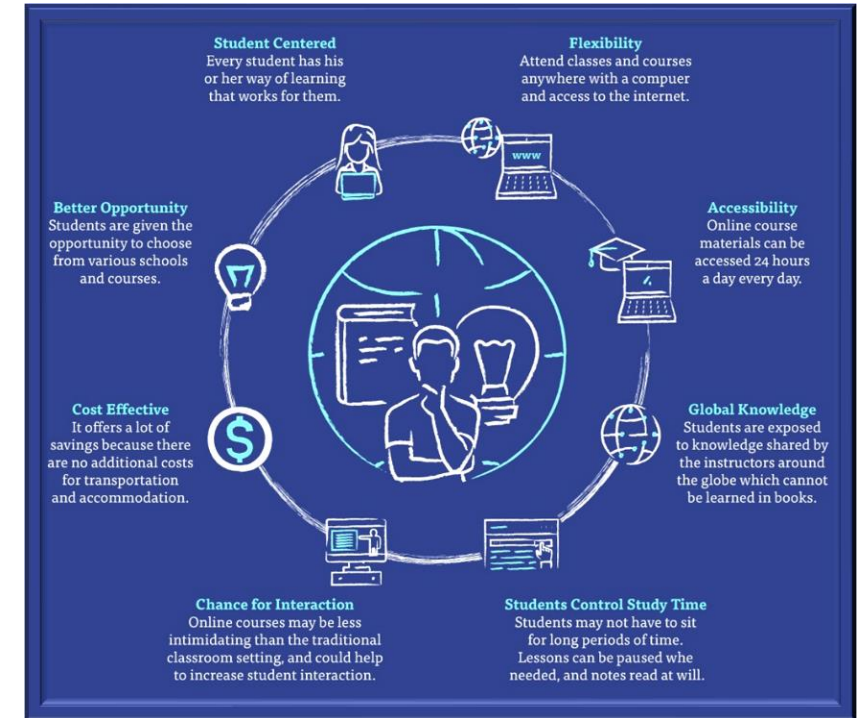
## Learning Material, Student Support & Evaluation



## The Community of Inquiry Model



## Focus on Beneficiary: Learners!



Sources: (accessed and modified 6 September 2020)

<https://www.fredonia.edu/academics/online-learning/remote-teaching-inquiry-model>

<https://www.studyinternational.com/news/benefits-online-learning/>

*Any change is hard at first and messy in the middle. But, it's great at the end!*



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## Learning Material, Student Support & Evaluation

*Imagination x Creativity = Innovation*

Optimization of ICT → Learning [Online | Multimedia | Synchronous/Asynchronous]



TOPIC(S) Traits: Structured   Systemic   Measurable   Effective   Enjoyable Styles: Authoritarian   Demonstrator   Facilitator   Delegator   Mixed		
<b>Opening</b>  What? Why? The benefits?	<b>The Body</b> 1   2   3   ... Illustration. Simulation. Inspiration. Variation. Participation. Contribution. <b>Highlighting</b> 1   2   3   ...	<b>Closing</b>  Relation to reality Point of reinforcement Future Anticipation (Motivational Quotes)
10-15%	70-80%	10-15%

Impressed | Curious

Homely | Convenient

Hooked | Lovesick

**Authoritarian:**  
**Lecturing** (Expert)  
**Demonstrator:**  
**Training**  
 (Personal Style)  
**Facilitator:**  
**Activity-based**  
 (Participative)  
**Delegator:**  
**Teamwork**  
 (Interactive)  
**Mixture:**  
**Combination**  
 (Multiple roles)



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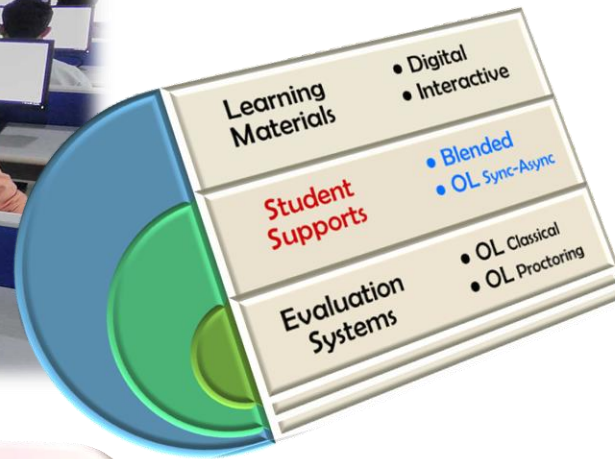
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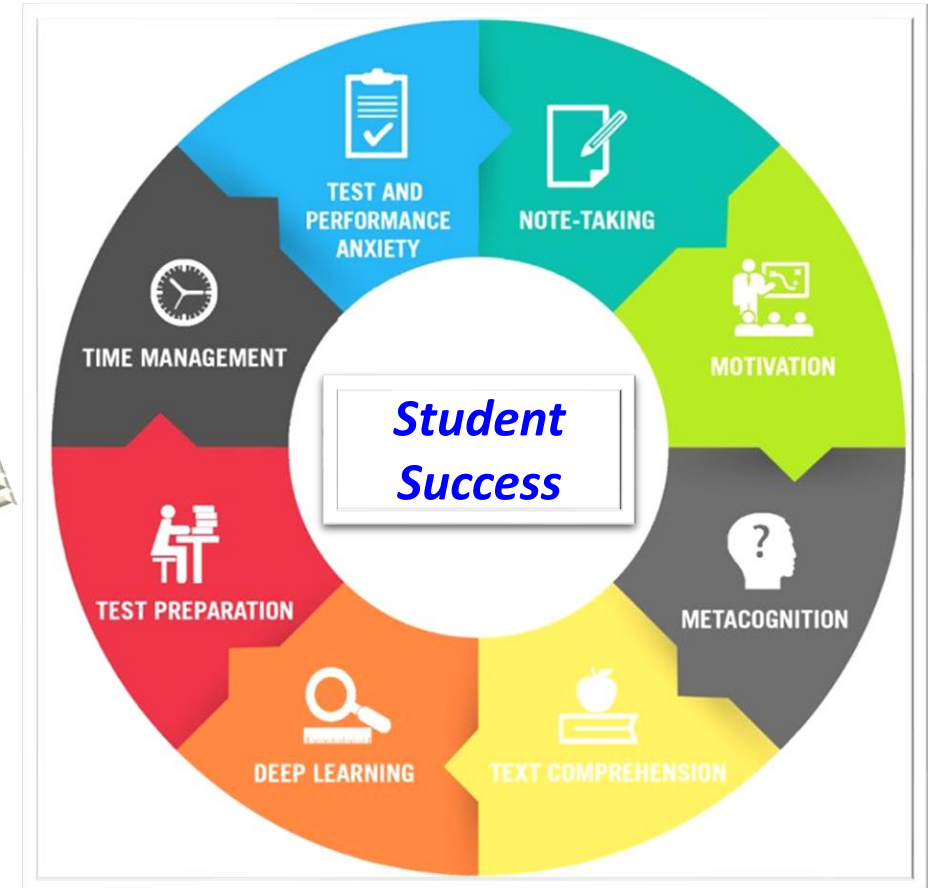
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*Context: Operations & Services*

## Learning Material, Students Support & Evaluation



**Valid & Reliable**  
**Summative**  
**Formative**



Sources: (accessed and modified 6 September 2020)

<https://softwarepurchasetips.wordpress.com/2019/09/24/online-proctored-exams-all-you-need-to-know/>

<https://dae.uga.edu/services/academic-coaching/>





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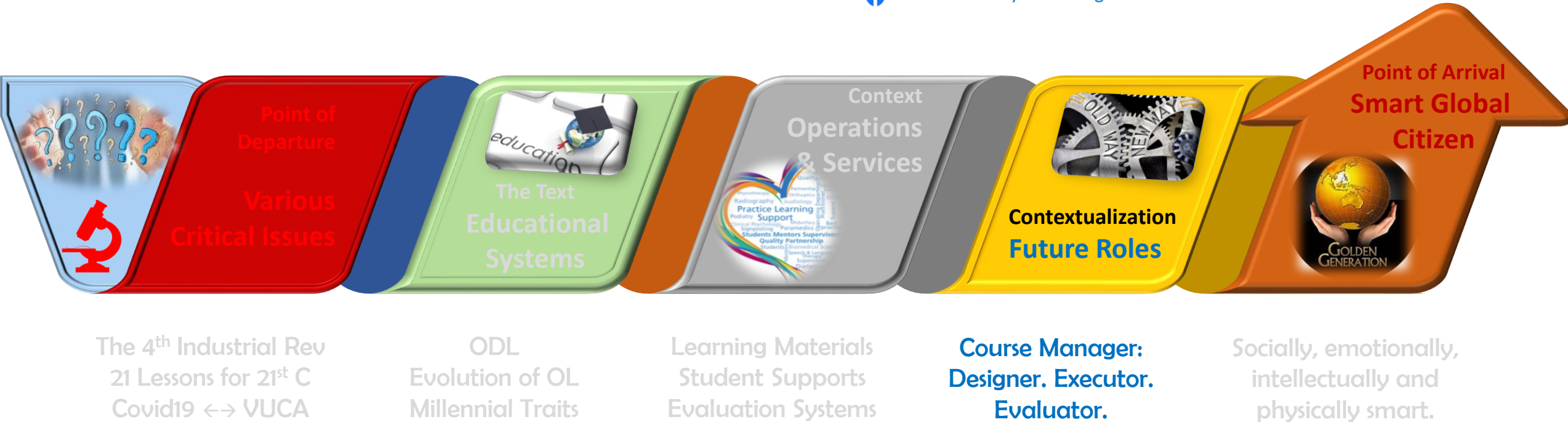
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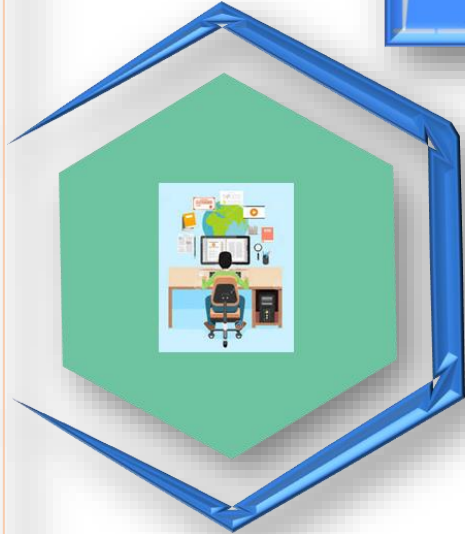


*Contextualization*

## Conceivable Future Roles of Teachers



THE FUTURE ROLE:  
**COURSE MANAGER**



**DESIGNER**

Planner. Programmer.  
Animator. Selector.  
Mediator.



**EXECUTOR**

Counsellor. Facilitator.  
Mentor. Motivator.  
Inspirator.



**EVALUATOR**

Examiner. Synergizer.  
Reviewer. Adjudicator.  
Troubleshooter.



**MATERIALS: RETAIN! REUSE! REVISE! REMIX! REPACKAGE! REDISTRIBUTE!**

*He who has a 'why' to live for can bear almost all the 'how'*



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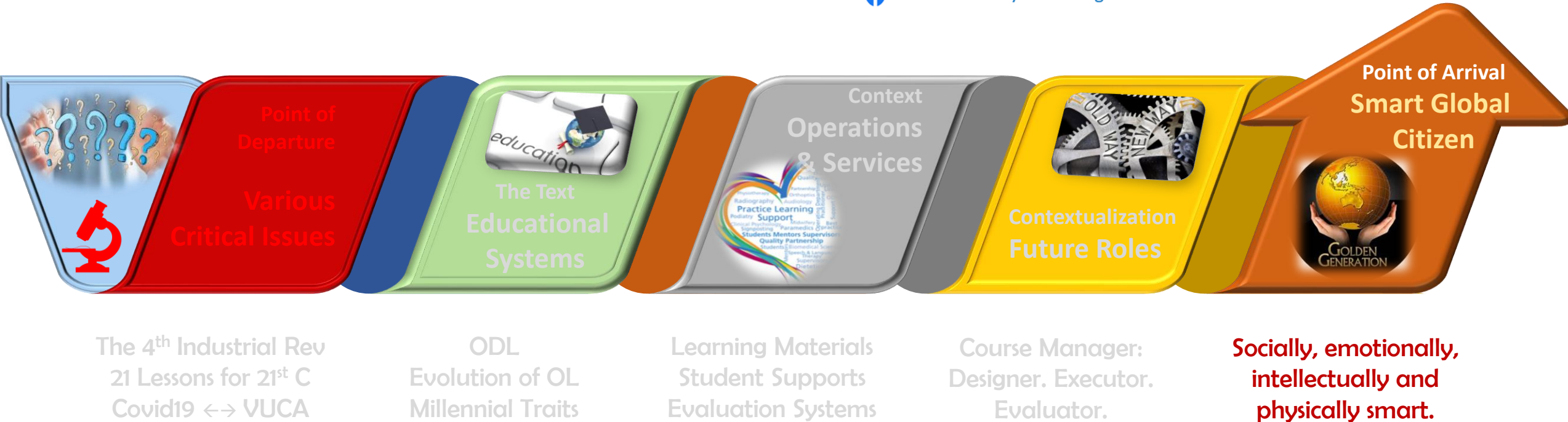
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Good grade. On time. Joyful.  
Impactful → **Highly Recognized!**

*Point of Arrival*  
**Smart Global Citizen**

*Anything seems impossible  
up until it's done!*

*If you want to go fast, go and run alone. If you want to go far, go  
and walk with the **TEAM** (TEAM: Together Everyone Achieves More!)*



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*Regardless of the pandemic, let's moving forward for  
making a much better learning atmosphere!*

