

The Literacy Research Agenda

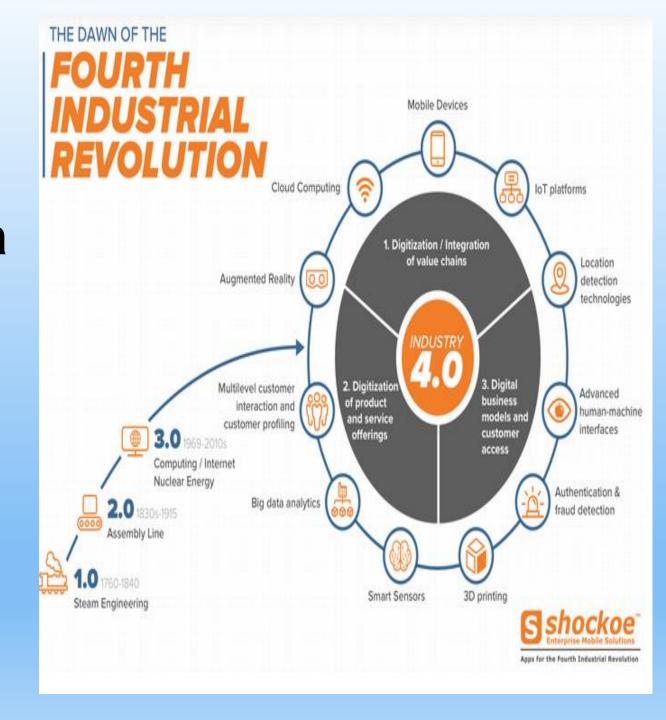
Sherlyne A. Almonte-Acosta, Ph. D. Educational Research Unit Educational Research and Innovation Office

Aligning 21st Century Literacies to Industry 4.0 through Research

How do we make our education responsive, relevant and appropriate to the challenges and demands of Industrial **Revolution 4.0?**



But how do we prepare our students/teachers/a cademic organization for the future in an age of unprecedented and ever accelerating change?





Are We Ready?

Street of Street, or other

FOUR CATEGORIES OF 21ST-CENTURY SKILLS

- Creativity,
- · Critical thinking,
- · Problem-solving,
- Decision-making
- Learning

Ways of thinking

- Communication
 - Collaboration

Ways of working

Tools for working

- Information and communications technology (ICT)
- information literacy

Skills for living in the world

- Citizenship,
- · Life and career,
- Personal & social responsibility

A new world of Teaching and Learning calls for Responsive Relevant and **Appropriate Teachers Professional** Development



- 1. Adaptability
- 2. Confidence
- 3. Communication
- 4. Team Player
- **5. Continuous Learner**
- 6. Imaginative
- 7. Leadership
- 8. Organization
- 9. Innovative
- **10.Commitment**
- 11. Ability to Manage online reputation
- **12.Ability to Engage**
- 13. Understnading of Technology
- 14.Know when to unplug
- 15. Ability to empower



Strategies to Support Social and Emotional Learning (SEL)

- Encourage play-based learning
- 2. Break down learning into smaller, coordinated pieces
- Create a safe environment for learning
- Develop a growth mindset
- Foster nurturing relationships
- Allow time to focus
- Foster reflective reasoning and analysis
- Offer appropriate praise
- Guide a child's discovery to topics
- 10. Help children take advantage of their personality and strength
- Provide appropriate challenges
- 12. Offer engaged caregiving
- 13. Provide clear learning objectives targeting explicit skills
- Use hands-on approach

Source: New Vision for Education: Fostering social and emotional learning through technology, World Economic Forum.



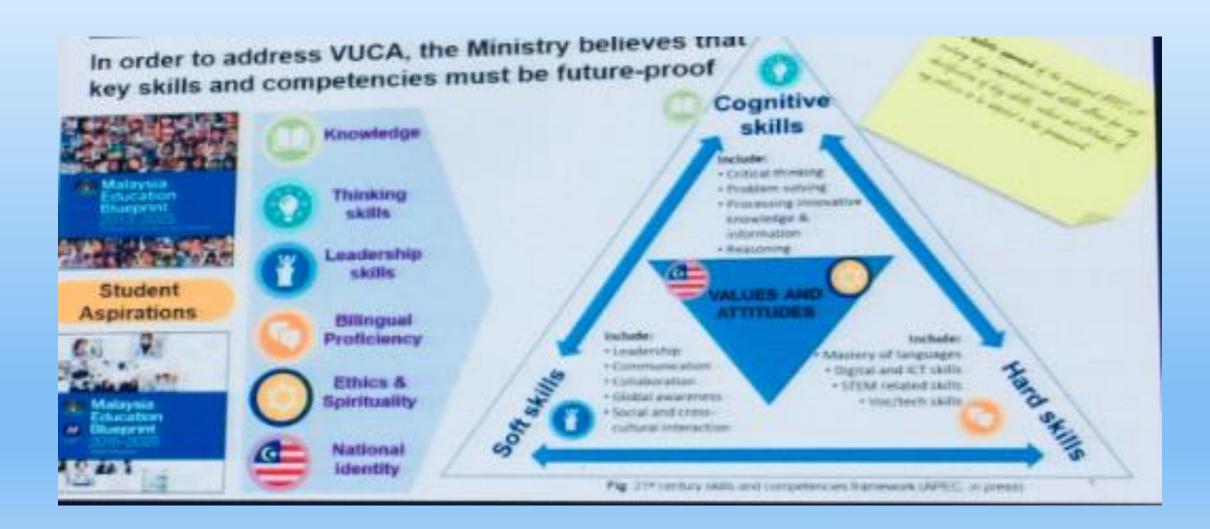




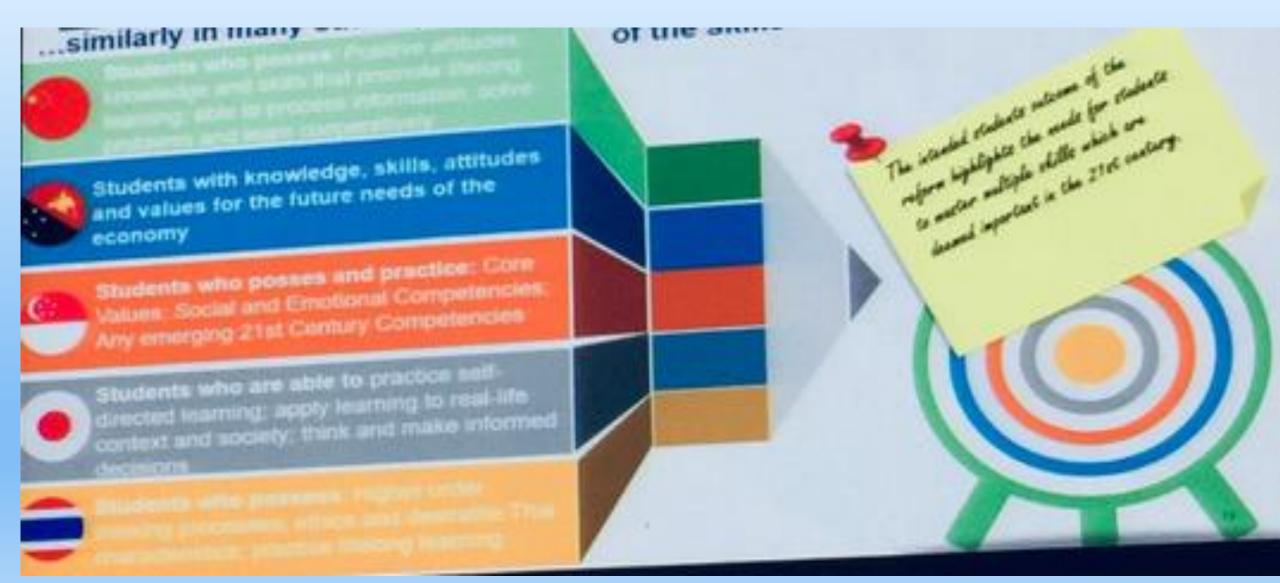


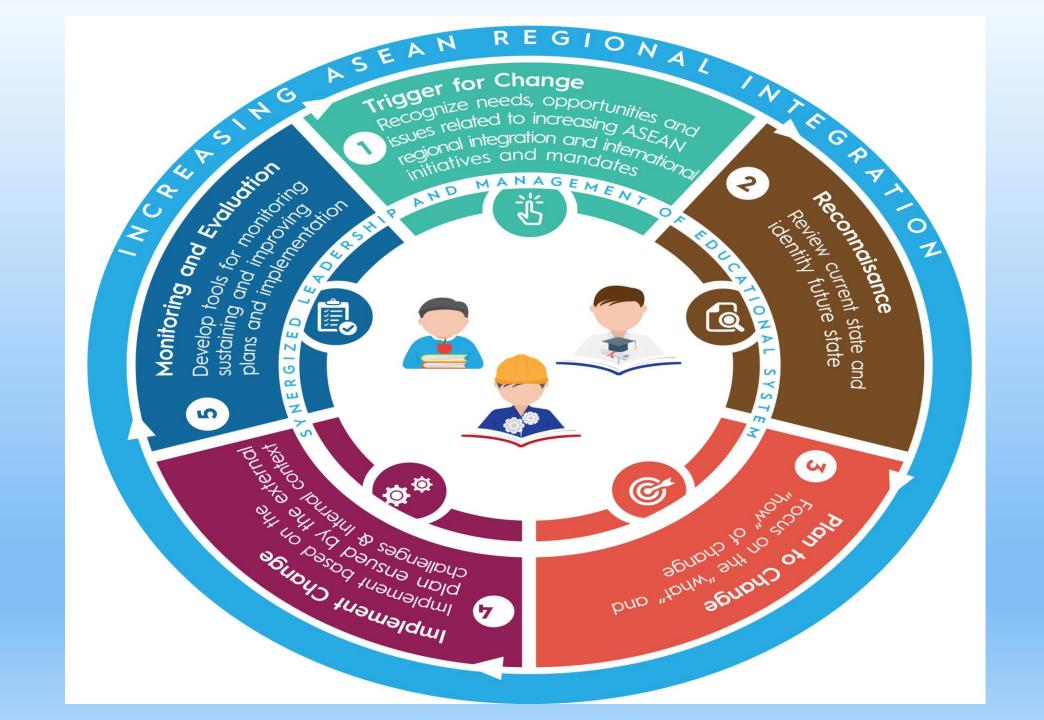


Malaysia



Thrust of neighboring countries





Challenge in Leadership

Communication

Team Work

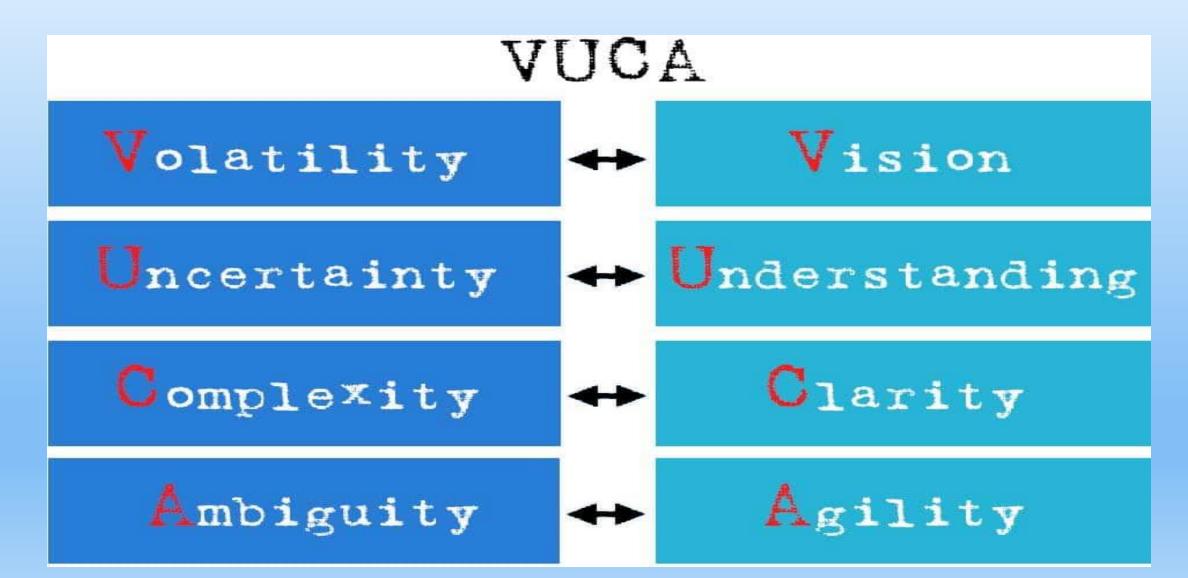
Community Building

Collaboration

Challenge in Leadership



A shift of Paradigm



On Teacher Development:

- 1. What qualifications and competencies are required and needed by teachers to prepare our learners to the demands and challenges of the Industrial Revolution 4.0?
- 2. What kind of capacity-building activities are necessary and most effective for teachers in addressing skill gaps and enabling students to keep up with the changing nature of future workforce?
- 3. What mechanism should be in place to promote the wellbeing of Teachers amidst rapid technological advancement?
- 3. How can motivation and commitments of teachers be sustained in in the VUCA world?

On Teacher Development:

- 4. How would the teachers enable the students to approach complex challenges and changing environment as ensued by the IR 4.0)?
- 5. How can we develop an effective professional development of teacher education that would lead to a better program development and implementation?
- 6.In the world that is highly wired or interconnected, how can we develop a professional learning community?
- 7. How can we best prepare teachers in the VUCA word?

On Leadership:

- 1.In what better ways can planning for IR 4.0 be done in the Department of Education?
- 2.How can internal and external partnerships be maximized to address the needs for Industrial Revolution 4.0? 3.How can DepEd Plan for the so-called Education 4.0 as a response to IR 4.0?

Continuing Challenge





"Gone are the days of complacency, inevitably we need to reskill, upskill, upscale to be responsive and relevant"

References

Cox, J. (n.d.) 15 Professional Development of Modern Teachers. Downloaded from https://www.teachhub.com/15-professional-development-skills-modern-teachers Paul, S. (n.d.) 21st Century Learning. Downloaded from https://www.knolskape.com/blog-21st-century-learning-the-effects-of-ir4-0-globalization-the-changing-workforce-and-shorter-shelf-life-of-knowledge/