



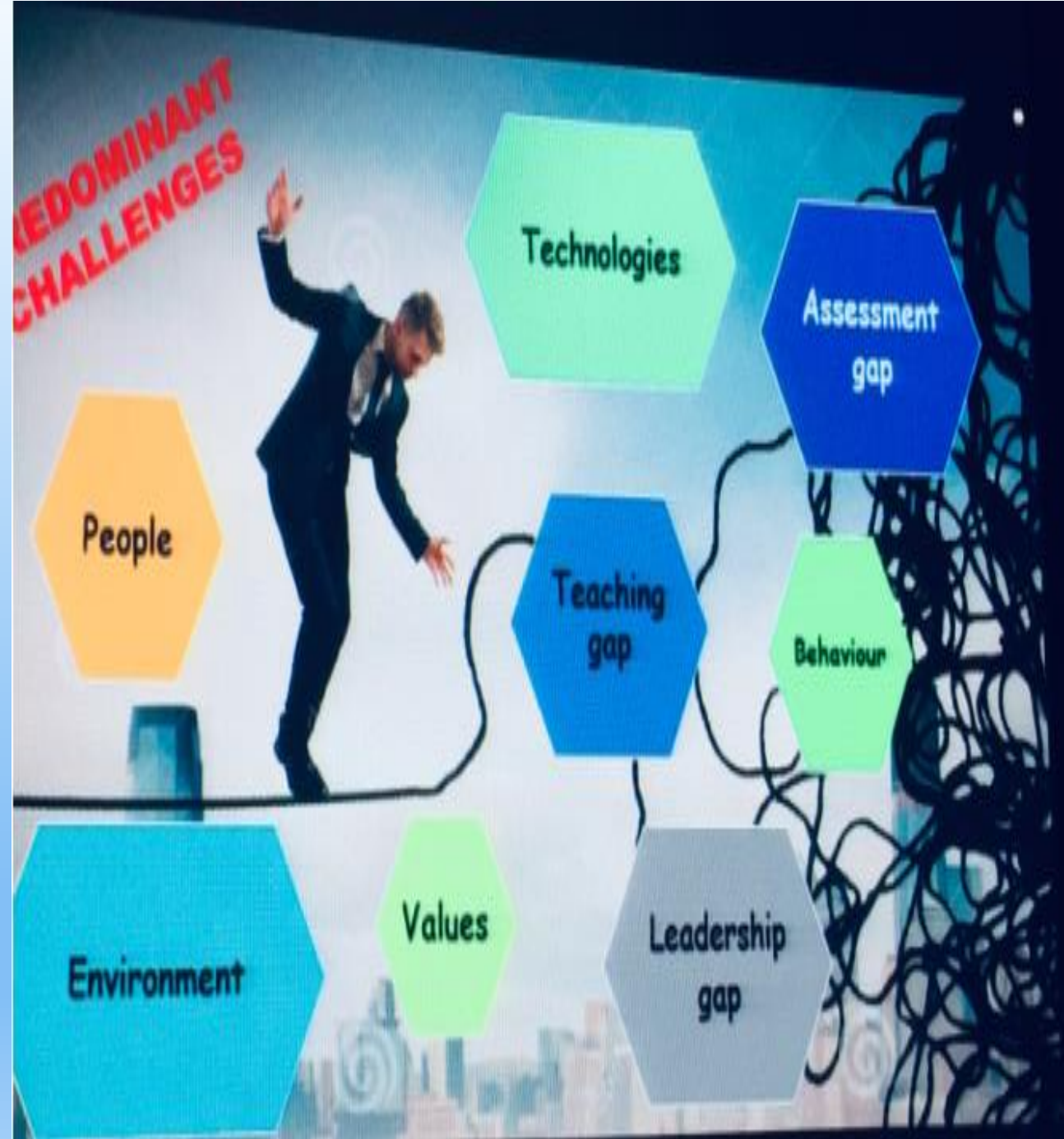
SEAMEO
INNOTECH

The Literacy Research Agenda

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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?



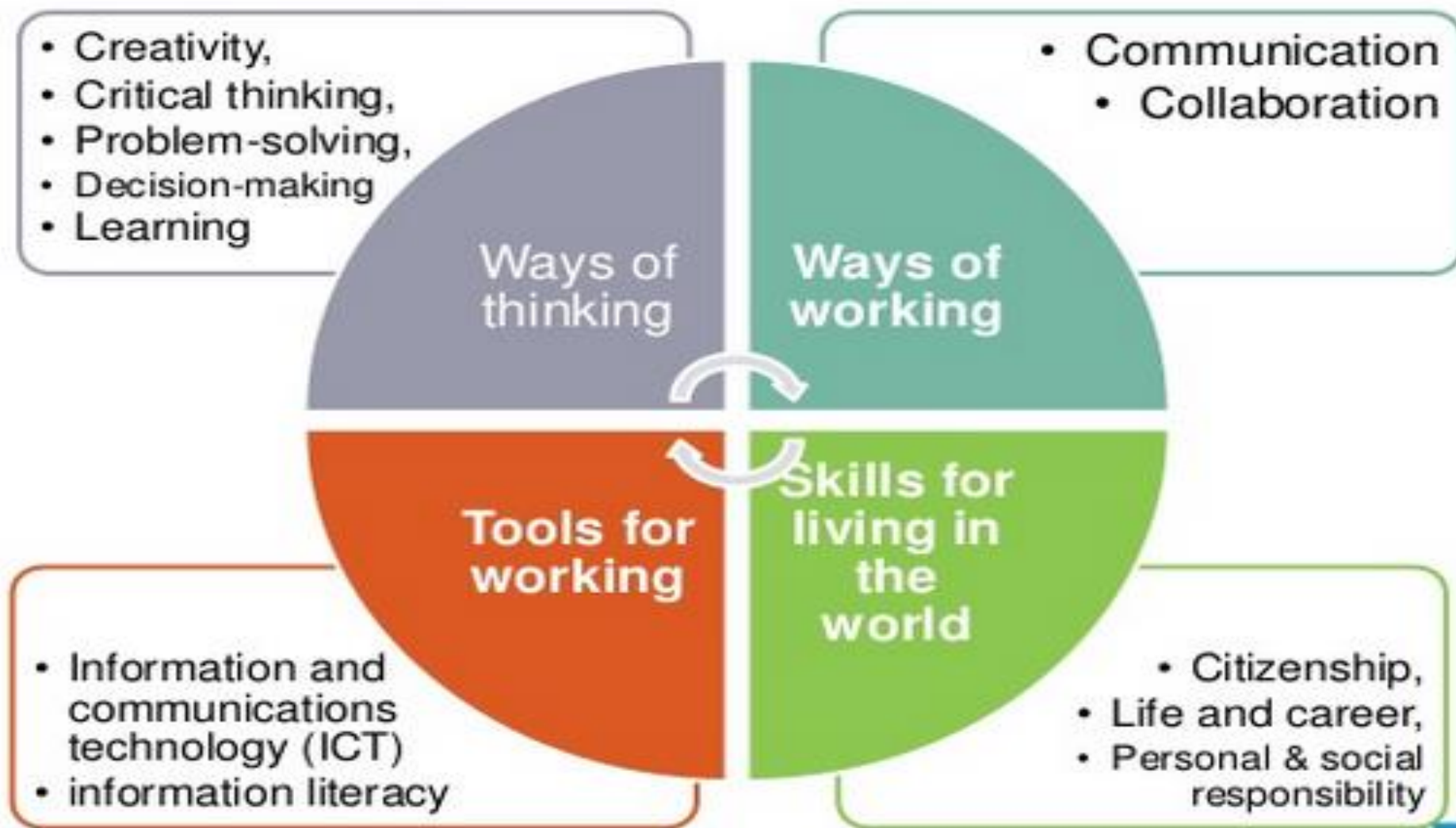
But how do we prepare our students/teachers/a cademic organization for the future in an age of unprecedented and ever accelerating change?





Are We Ready?

FOUR CATEGORIES OF 21ST-CENTURY SKILLS



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. Understanding of Technology**
- 14. Know when to unplug**
- 15. Ability to empower**



Strategies to Support Social and Emotional Learning (SEL)

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

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





volatility
uncertainty
VUCA
complexity
ambiguity



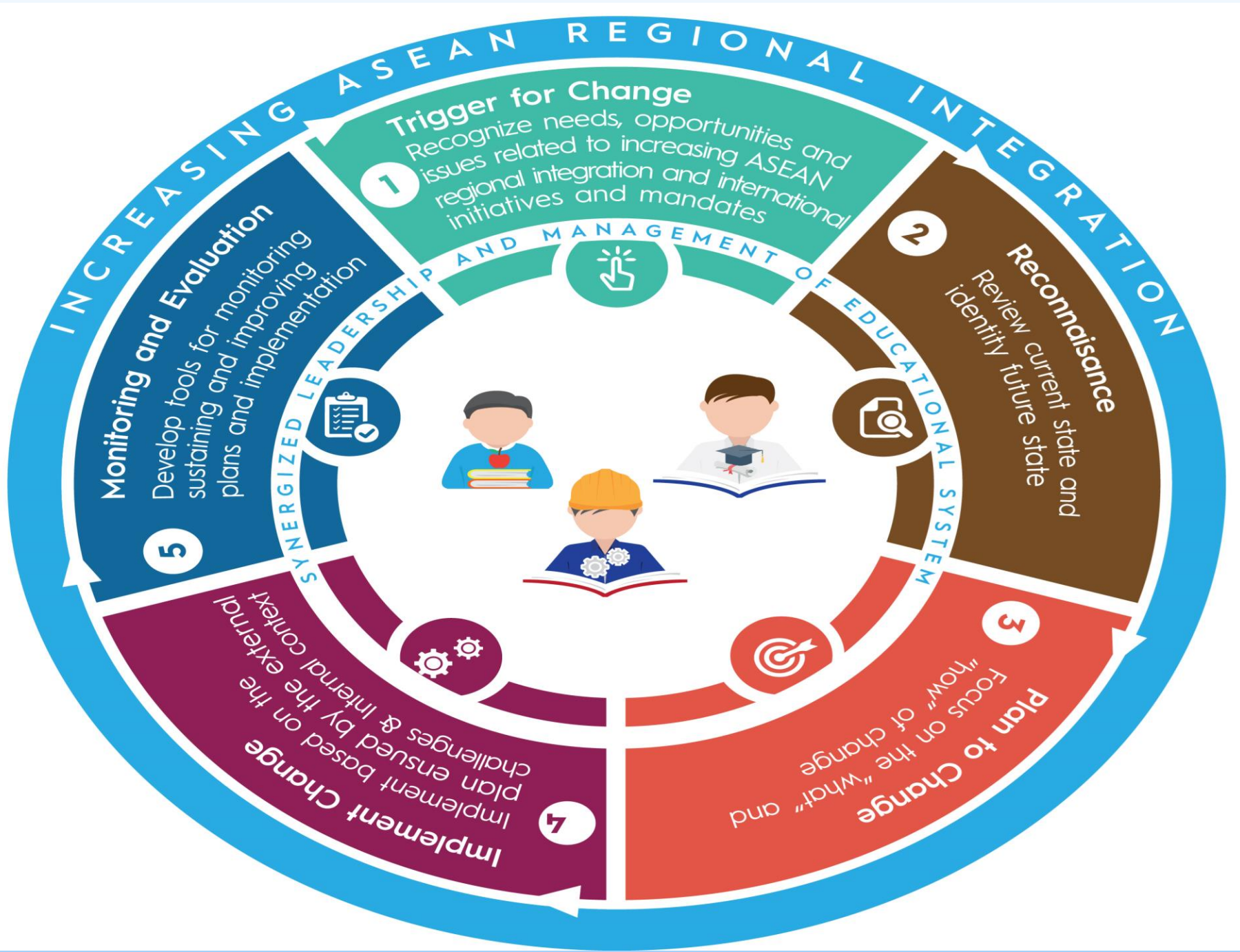
How to Manage in a VUCA World

Malaysia

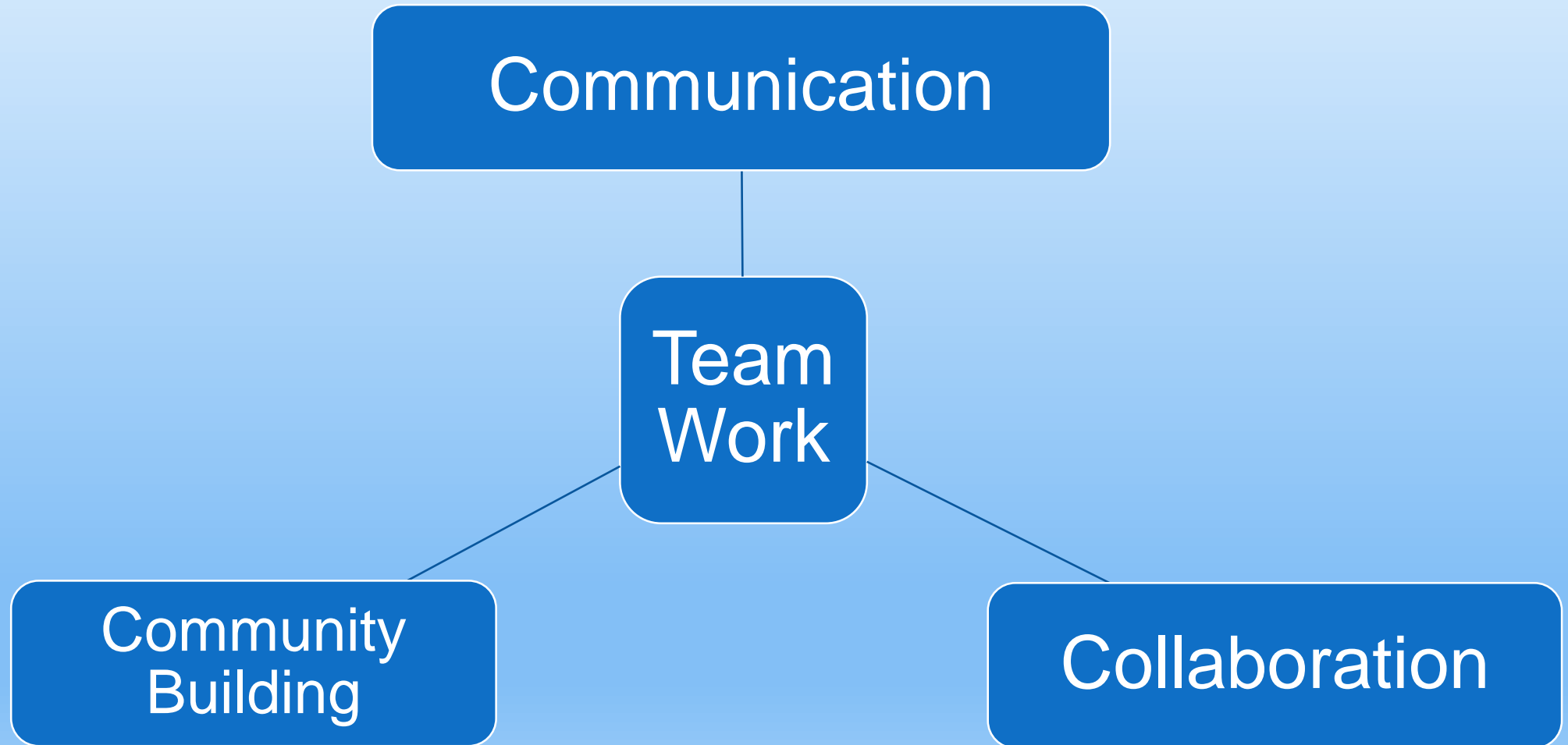


Thrust of neighboring countries





Challenge in Leadership



Challenge in Leadership



A shift of Paradigm

VUCA

Volatility



Vision

Uncertainty



Understanding

Complexity



Clarity

Ambiguity



Agility

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 world?

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



A photograph of a forest path with large, gnarled trees and sunlight filtering through the canopy. The path is dirt and leads into the distance. The trees are thick and their branches are intricate. The lighting is warm and golden, suggesting late afternoon or early morning.

We can only see a SHORT distance ahead,
but we can see

PLENTY

there that needs to be done.

Alan Turing – British Computer Scientist

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

• SAAA

References

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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/>