Pedagogy in Virtual Classrooms Without Compromising the Quality of the Scientific and Scholarly Curriculum

Presented by:

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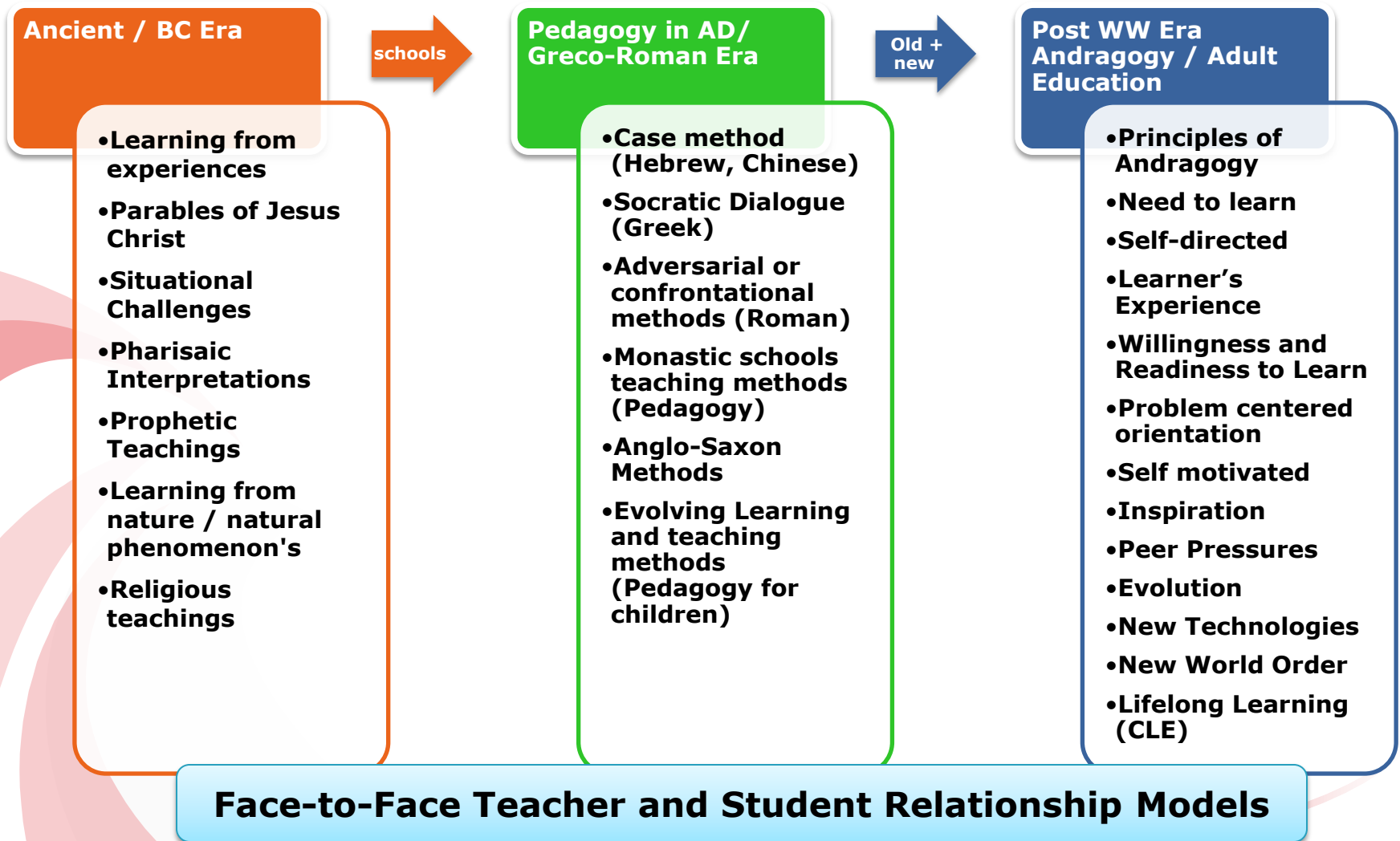
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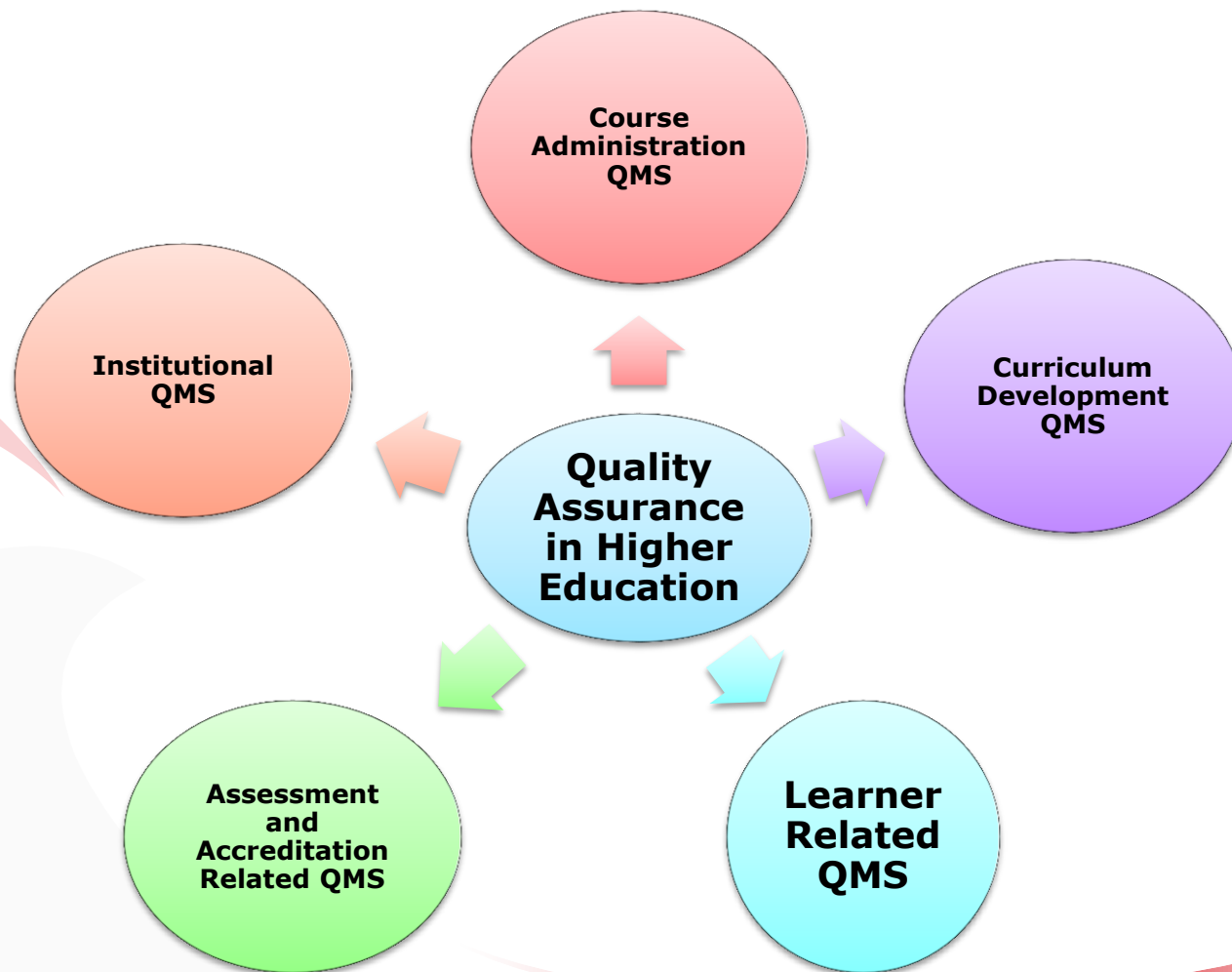**SIM University, Singapore**

Agenda

1. **Overview of Evolution in Pedagogy**

2. **What is the definition of "Academic Quality?"**

3. **Quality of Scientific and Scholarly Curriculum**

4. **Dimensions of the Quality of the Pedagogy, and Andragogy**

5. **Introduction to Eldagogy**

6. **Eldagogy in Action – a Short Demonstration**

7. **Dimensions of the Quality of Eldagogy and Salient Features**
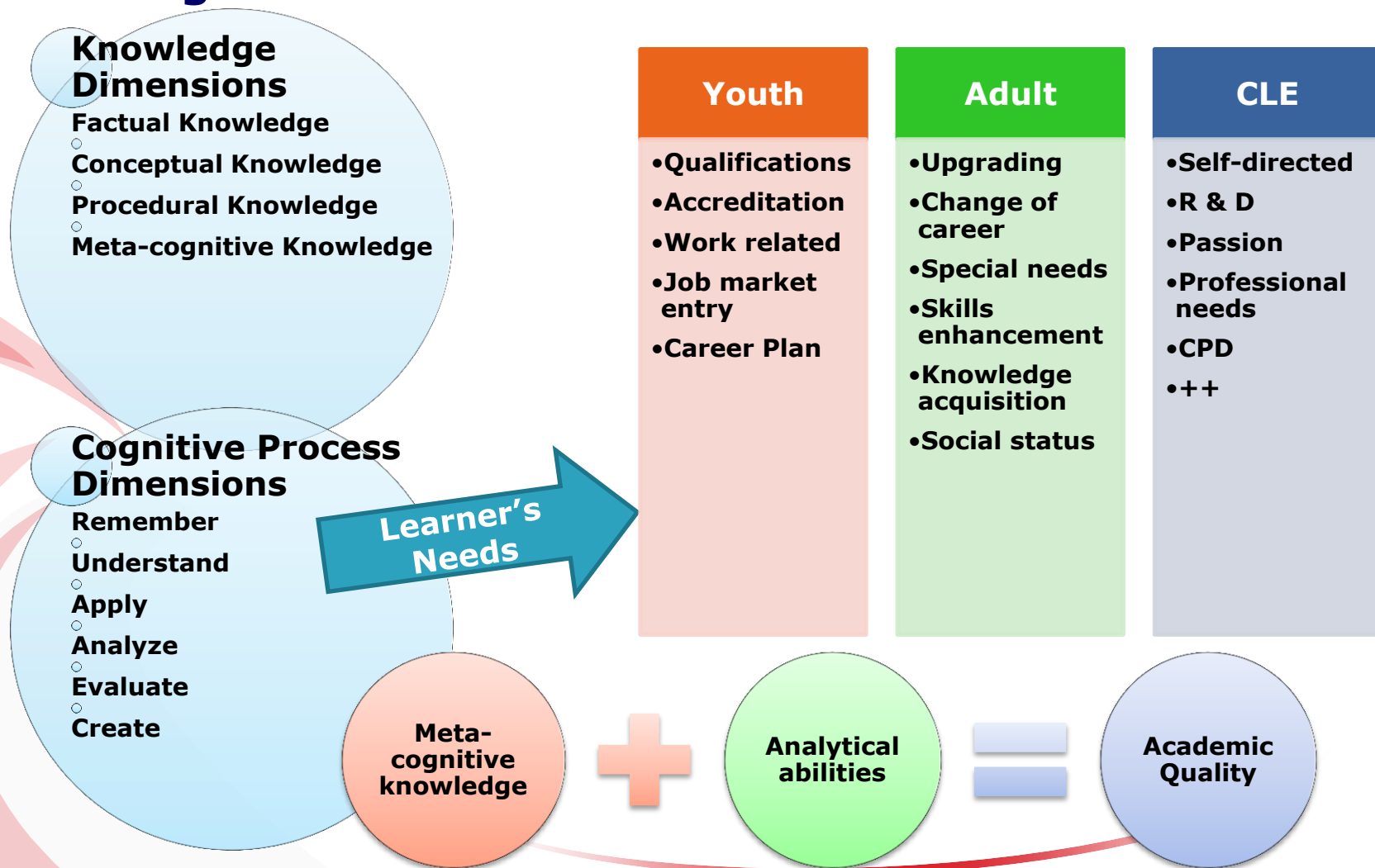
1. Overview of Evolution in Pedagogy

Ancient / BC Era

- Learning from experiences
- Parables of Jesus Christ
- Situational Challenges
- Pharisaic Interpretations
- Prophetic Teachings
- Learning from nature / natural phenomenon's
- Religious teachings

schools →

Pedagogy in AD/ Greco-Roman Era

- Case method (Hebrew, Chinese)
- Socratic Dialogue (Greek)
- Adversarial or confrontational methods (Roman)
- Monastic schools teaching methods (Pedagogy)
- Anglo-Saxon Methods
- Evolving Learning and teaching methods (Pedagogy for children)

Old + new →

Post WW Era Andragogy / Adult Education

- Principles of Andragogy
- Need to learn
- Self-directed
- Learner's Experience
- Willingness and Readiness to Learn
- Problem centered orientation
- Self motivated
- Inspiration
- Peer Pressures
- Evolution
- New Technologies
- New World Order
- Lifelong Learning (CLE)

Face-to-Face Teacher and Student Relationship Models

2. What is the definition of "Academic Quality?"

Quality Academic learning vs Quality Assurance System

3. Quality of Scientific and Scholarly Curriculum

- ## Knowledge Centric vs. Learner Centric Education

Knowledge Dimensions

Factual Knowledge

Conceptual Knowledge

Procedural Knowledge

Meta-cognitive Knowledge

Cognitive Process Dimensions

Remember

Understand

Apply

Analyze

Evaluate

Create

Learner's Needs

Youth	Adult	CLE
•Qualifications	•Upgrading	•Self-directed
•Accreditation	•Change of career	•R & D
•Work related	•Special needs	•Passion
•Job market entry	•Skills enhancement	•Professional needs
•Career Plan	•Knowledge acquisition	•CPD
	•Social status	•++

Meta-cognitive knowledge + **Analytical abilities** = **Academic Quality**

4. Dimensions of the Quality of the Pedagogy and Andragogy
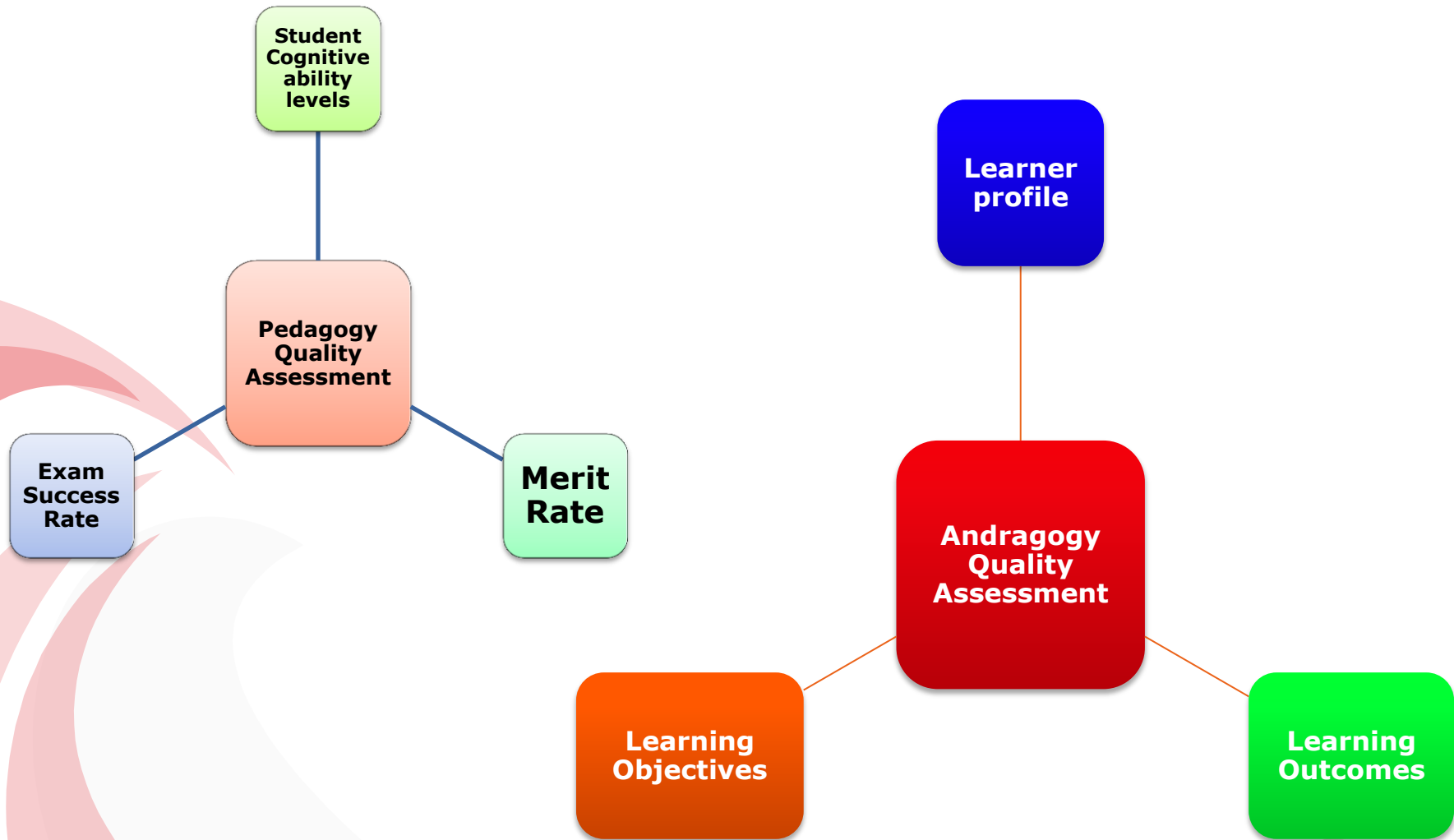
Pedagogy

Dimensions of Quality

- Teacher as a Role Model
- Inspirational Teaching
- Instructional Teaching
- Story telling
- Practice, tutoring & experiments

Andragogy

Dimensions of Quality

- Facilitative Inspiration
- Communication
- Facilitation for Resources
- Leadership
- Group Discussions
- Sharing of Experiences
- Futuristic Challenges

4. Assessment of the Quality of the Pedagogy and Andragogy

Student Cognitive ability levels

Pedagogy Quality Assessment

Exam Success Rate

Merit Rate

Learner profile

Andragogy Quality Assessment

Learning Objectives

Learning Outcomes

5. Introduction to Eldagogy

The Journey of Teaching and Learning to Guiding

Pedagogy

Children
Youth
School Setting
Face to face

Andragogy

Adult learners segmented by interest or background qualifications
Late starters
Mid career professionals
Face to face
Distance learning

Eldagogy

Virtual Space
Customized curriculum
Learner Centric Courses
Geographically Dispersed participants
24/7 and 7/11 accessibility to learning
High quality content in real-time
Context, Content and Experienced based learning

5. Introduction to Eldagogy

- The fundamental objectives of pedagogy are not altered, but by leveraging on the innovative tools, cultural influences of mobile technology, and interconnected society, the teachers are able to enhance their teaching methods, for effective learning outcomes.

- Using the term "Pedagogy for Distance Learning" or "Pedagogy for online learning" or "Pedagogy for eLearning / digital Learning" will miss the paradigm shift happening in the future generation and their learning behaviors.

- The *eldagogy* is a natural progression of the art & science of teaching, from pedagogy to andragogy to eldagogy.

- Within eldagogy, differentiation is required by the profile of learners i.e. for children, youth and adults.

- Through eldagogy, customized education based on learner's objectives and desired learning outcomes becomes possible.

- With the broader scope of the practitioners of eldagogy, the challenges lies in ensuring enhanced quality learning is achieved in the desired learning-outcomes of the learners.

6. Eldagogy in Action – a Short Demonstration

Eldagogy is expressed as "Multi-dimensional Facilitative Exchange of Knowledge, Information and Experiences between Learners and Facilitator (Teacher) in Virtual Space, for High Quality Learning Outcomes."
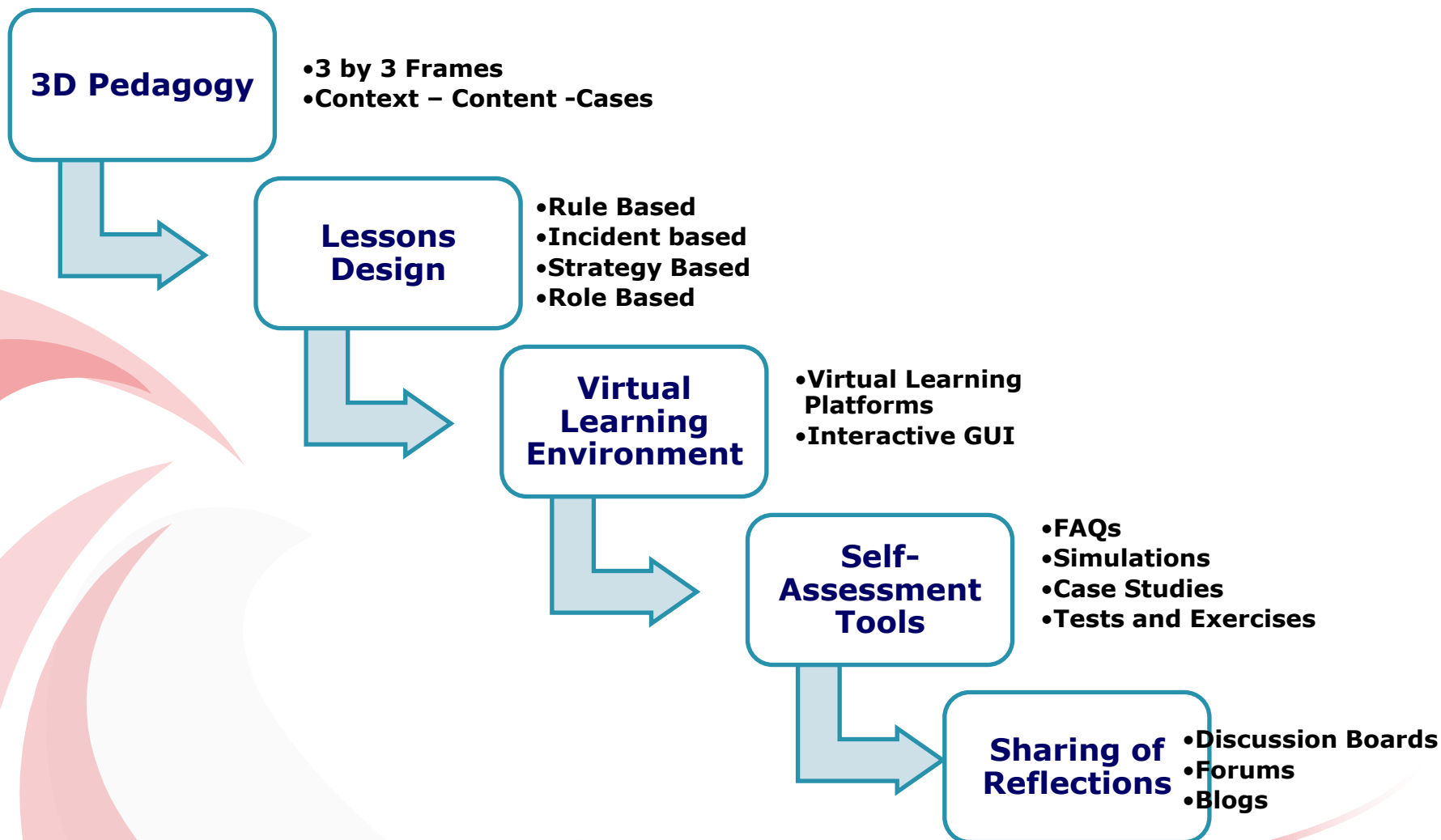
Let us Look at a Typical Example of Teaching a Concept of International Contracts in Virtual Space

7. Dimensions of the Quality of Eldagogy

Learning Outcomes Identified

Setting Objectives for Learning

Directions from the Teacher / Facilitator

Interaction between Learners and Facilitator

Interactive Feedback Mechanism

Learner's Prior Experiences

Measures of Quality in Eldagogy

Built-in Assessment of Learnings

7. Salient Features for the Quality of Eldagogy

3D Pedagogy

- 3 by 3 Frames
- Context – Content -Cases

Lessons Design

- Rule Based
- Incident based
- Strategy Based
- Role Based

Virtual Learning Environment

- Virtual Learning Platforms
- Interactive GUI

Self-Assessment Tools

- FAQs
- Simulations
- Case Studies
- Tests and Exercises

Sharing of Reflections

- Discussion Boards
- Forums
- Blogs

Conclusion

- The term eldagogy signifies eLearning (el), in "d" digital space (Virtual Space), *agogus* (showing the root in its Greek origin) as leading /teaching, thus teaching by electronic means in virtual space.

- It is time to adopt new terminology for the changing world and future generation, who may never have to learn by writing on stone tablets like their forefathers, but on electronic tablets like iPads & Tabs.

- Eldagogy can be defined as "Multi-dimensional Facilitative Exchange of Knowledge, Information and Experiences between Learners and Facilitator (Teacher) in Virtual Space, for High Quality Learning Outcomes."

- Eldagogy is the method of teaching for learner centric, value driven and high quality learning outcomes for future generations.

- 3D pedagogy, learning designs and interactive assessment methods integrated curriculum shall be the basic features of eldagogy.

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THANK YOU!