#### **Global Engineering Deans Council Conference 2013**

#### - Panel -Impact of Globalization and Information Technology on Engineering Education

#### Interactive Teaching and Learning and Global Classroom Networking October 21, 2013

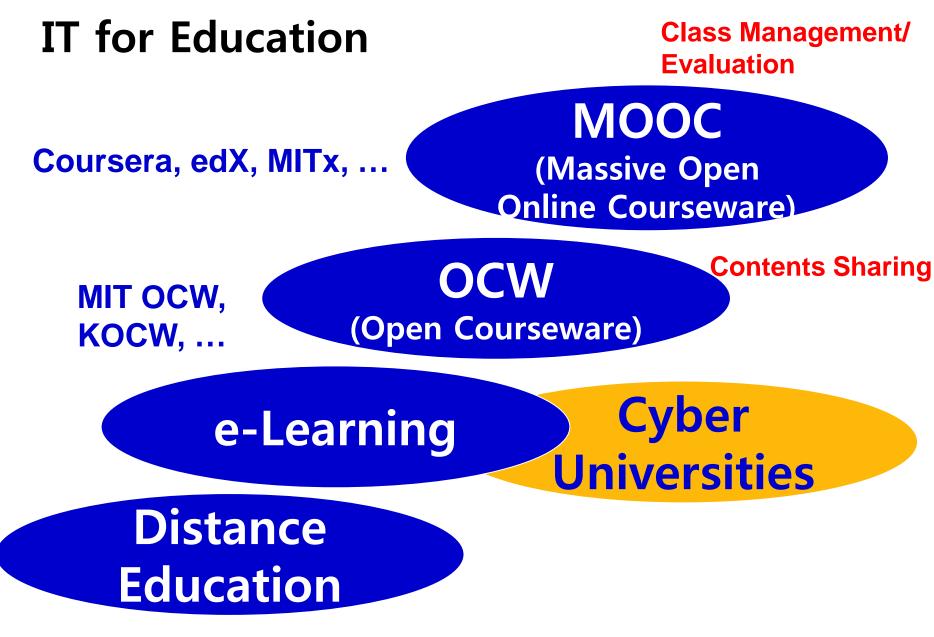
**IT** for

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#### Director

**Center for Excellence in Learning & Teaching** 









#### Overcome Space & Time Limits Increase 'Efficiency'

# Lecturing

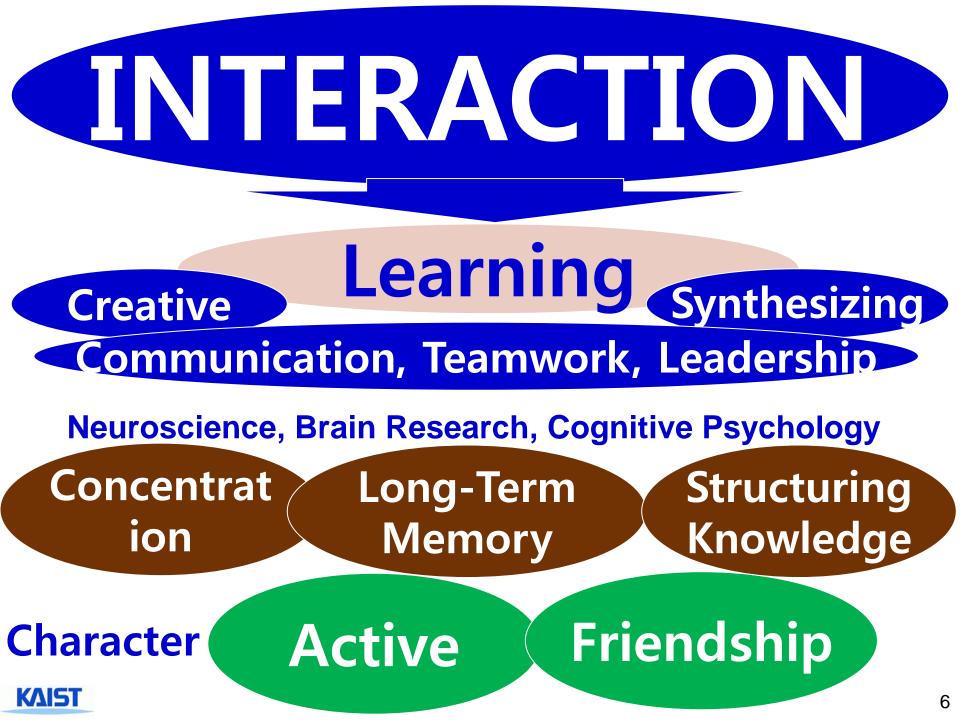


# New Uses of IT/e-Learning ?



# Effectiveness & Quality



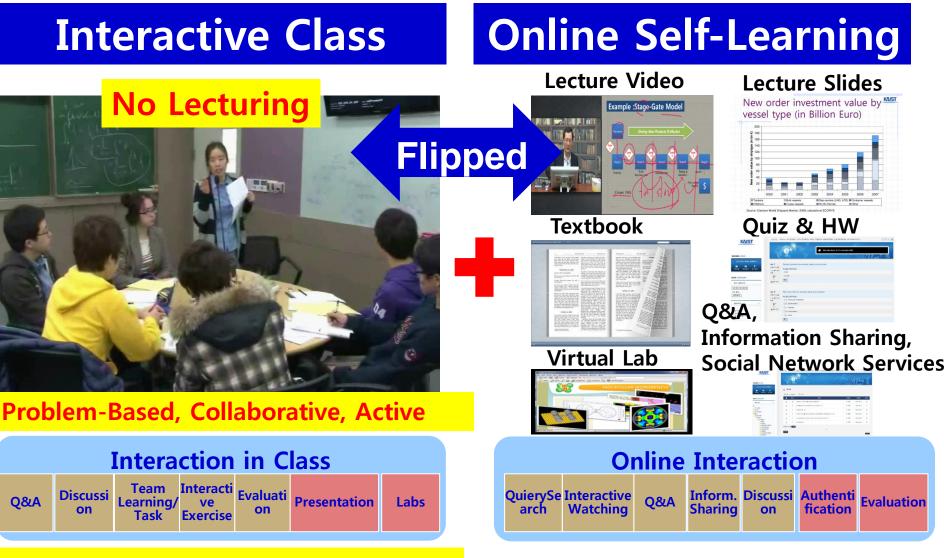


## INTERACTION within Classroom

# INTERACTION outside/across Classrooms



#### **Education 3.0 Interactive Class**



#### **Team Learning + TA Support**

#### Globalization Needs of Engineering Education

- Multicultural Knowledge
  - Global Markets/Customers, Different Needs
- Global Issues



- Global Warming, Pollution & Environment, Energy, Food, Disasters, Pandemic Diseases, ...
- Student Exchanges & Joint Programs
- Complementary Teaching Capabilities
- Need More Students, Need More Faculty

#### **Balance of Teaching Resources & Learning Demands btwn**

- Developing countries → Most good students go abroad



MOOC/OCW/University's e-Learning e-Learning for Global Education

**Not Enough!** 

**Need More Interaction** 

# Real-Time Global Joint Classes



**iPodia** 

#### **Global Classroom Networking**

#### **Interactive**



- Joint interactive class with other universities
- Remote team learning/teamwork



#### **Global Students Teamwork**



MITEL http://www.mitel.com/ BeingThere Center http://www.cs.unc.edu/cms/researc h/research-groups/being-there/

#### Group Discussion & Problem Solving, Team Learning, Team Projects, even Labs



#### Proposal

### Global Educational Network (GEN) Highway for Global Educational Interaction

# Standards Devices/Comm./ Applications/Contents



# Thank you!

