Simulation of Procurement Bidding for the Belt and Road Initiative (BRI)
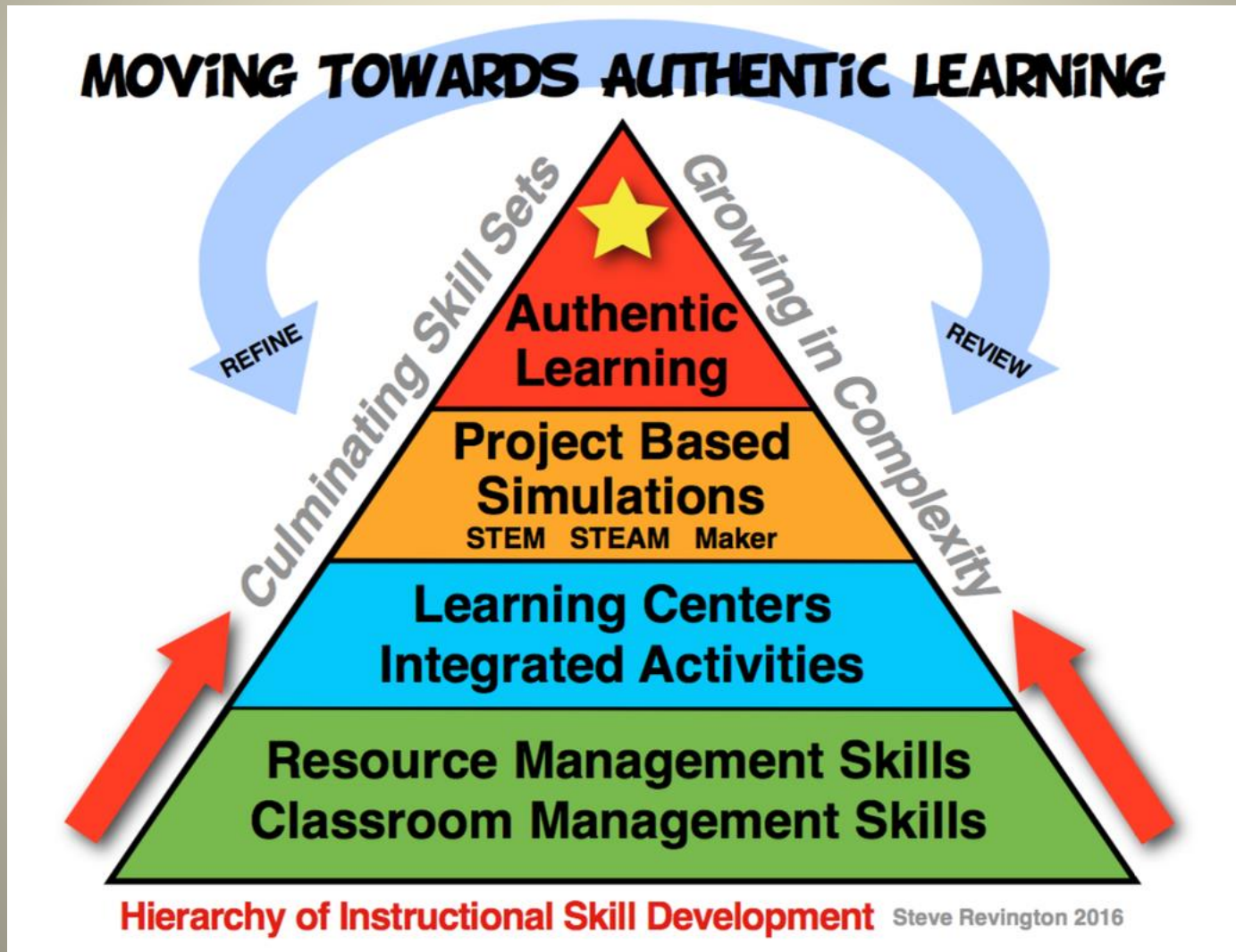
Drs. Glenn Shive and Brant Knutzen

FSTE Conference June 1, 2018

Authentic Learning

Authentic Learning is an instructional approach that allows students to explore, discuss, and meaningfully construct concepts and relationships in contexts that involve real-world problems and projects that are relevant to the learner.

Authentic Learning supported by Simulation

MOVING TOWARDS AUTHENTIC LEARNING

REFINE

REVIEW

Culminating Skill Sets

Growing in Complexity

Authentic Learning

Project Based Simulations
STEM   STEAM   Maker

Learning Centers Integrated Activities

Resource Management Skills
Classroom Management Skills

Hierarchy of Instructional Skill Development   Steve Revington 2016

Three levels of educational technology

Simulation over a 1 week period
- Learning Management System
  - Forum discussions
  - Links to resources and activities
  - Construct depth of understanding about issues

- Virtual World (immersion in 3D simulation)
  - Culture, urban, and rural
  - Climate, local vegetation and animals
  - Transportation method and issues
  - Experiential learning in simulated context

- Face-to-face presentations
  - Meet on Hong Kong campus
  - Authentic learning

Face-to-face presentations

• Student groups prepare procurement bids

Face-to-face presentations

• Present procurement bids to review committee

Face-to-face presentations

- Recognition of winning bids
- Reflection on process

Asian International Infrastructure Bank: Review Committee

Chinese national government (BRI Steering Committee: Beijing, Xian, Xinjiang)   3

Russian national government (Eurasian Economic Union office, Moscow)   1

Kazakhstan national government (Astana)   1

Shanghai Cooperation Organization for Central Asia (Shanghai)   1

Ukraine national government (Kiev, state BRI Task Force)   1

European Union office for BRI (Brussels   2

    (non-voting members on AIIB Review Committee: Iran 1, Pakistan 1, Turkey 1 = 3)

Total = 12 people

14 Companies Preparing Bids to the AIIB

Large infrastructure construction company A (Wuhan China)	3
Large infrastructure construction company B (EU consortium)	3
Large energy company A (oil and gas, Houston Texas USA)	2
Large energy company B (oil and gas, Moscow Russia)	2
Energy company (renewables wind solar etc. Berlin Germany)	2
Energy company (renewables wind solar etc. Chongqing China)	2
Tele-com/ internet infrastructure company A (Shenzhen, China)	2
Tele-com/ internet infrastructure company B (San Francisco/USA)	2
Environmental impact assessment company A (Tokyo Japan)	2
Environmental impact assessment company B (London UK)	2
Private security and risk assessment agency A (Paris France)	2
Private security and risk assessment agency B (Seoul Korea)	2
Legal counsel and accounting firm (Singapore)	2
Legal counsel and accounting firm (Hong Kong)	2

Total = 30 people

Draft Schedule (Morning) for One-Day BRI Simulation

9:30   Open and introductions

9:45   Briefing on the BRI and the AIIB (speaker TBA)

10:15   Break

10:30   Company team meetings (14)
        AIIB members meet separately to review selection/ decision process

11:15   Briefing by an expert on the process of bidding for multi-national mega-
        infrastructure projects

11:45   Negotiation sessions among bidding companies; private consultations with
        AIIB members

12:30   Lunch

Draft Schedule (Afternoon) for One-Day BRI Simulation

1:30	Company team meetings to prepare presentations; AIIB members meet for BRI policy dialogue
2:15	Negotiation sessions among bidding companies; AIIB reps available for consultations/ lobbying
3:00	Break/ prepare pitch presentations
3:15	Concurrent sessions A and B: AIIB reps divide into two panels with six in each: Panel A: hear proposals from two infrastructure and four energy companies Panel B: hear proposals from two telecoms, two environment, two security, and two legal/accounting firms (Each bidding company will have about 15 minutes to present its case and answer questions of clarification from the AIIB review panel)
4:15	Break/ AIIB panels caucus decide on recommendations for business sectors
4:45	Plenary: Panel A and Panel B announce their decisions of winning bids
5:00	Reflections, evaluation, awards, vote of thanks
5:30	Adjourn

Educational Technology

- Support and enhance the authentic experience

- Start with enrollment in Moodle course 1 week prior to face-to-face experience
  - Manage enrollment, control access
  - Host asynchronous forum discussions about issues
  - Provide links to resources
  - Launch activities in immersive 3D world

Immersive 3D virtual world

- Virtual World (immersion in 3D simulation)
  - Experiential learning about culture and context
  - Students explore BRI cities as avatars

Simulation of BRI cities

China's One Belt, One Road

(Fade to 3 minute video tour of Venice in virtual world)

Questions & Answers

- Glenn Shive
  - Chinese University
  - Hong Kong – America Center
  - HK-AC.org.hk

- Brant Knutzen
  - University of Hong Kong
  - Lecturer & Educational Consultant
  - Brant.Knutzen.se