Entrepreneurship, Networking and International Education – Three Ingredients for Education in the 21st century

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Step up to Saxion.

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Personal Introduction

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Structure of the presentation

• Global Developments
• Education in the 21\textsuperscript{st} century?
• Requisites:
  – Networking,
  – International Education,
  – Entrepreneurship
21\textsuperscript{st} century skills

Global Developments

- Economic changes
  - West -> East
  - Finite Resources – Circular Economy
  - Sharing / Crowd funding

- Population growth – Mobility – Interdependency

- Social changes

- Environmental challenges
  - Climate Change
  - Biodiversity
  - Pollution <-> mining

- Technological changes / Automation
  - Internet / Accessibility / Connectivity
  - Connectivity through (social) Networks + Networking
  - Access to knowledge
What does this mean for education?
What kind of Professions do we have in 5, 10 or 15 years?

• How do we prepare students for this?

• Is the education sector prepared?
• Is the existing staff equipped?
How much smarter are we since 1915?

Thought experiment
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Network

“Maslov’s Piramid”
Networking

• Connecting people  [communication]

• Groups versus individuals  [collaboration]

• The Network is a strong as weakest bond
Examples of the Power of Networking and Networks!
Example – Estonia 2008

- Littering in Estonia
- Clean-up cost: 3 year and € 22.5 million

- 50,000 People (4%)
- 1 day, more than 10,000 ton litter
- Cost: € 0.5 million
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LinkedIn
Whuffie factor

Whuffie:

- Reputation in a network
- A kind of social–cultural currency
- Lots of Whuffie = “reliable”
What can Networks mean for Teaching & Learning?

• The social context is important for learning, we learn from and with others
• In the existing education system we teach and learn mostly within the same context (network)

But Networks give us:
• More diversity
• More flexibility
• A bigger scope
How do we deal with students using networks?

Judging or assessing?
Copying = Co-operating

Co-operating = Learning
Copying = Co-operating

Co-operating = Learning
Copying = Learning
Internationalisation

What is it?

• Bringing “the world” in the classroom
• Communicate in a different language
• Creating intercultural awareness / Intercultural sensitivity
Internationalisation

• Mean to construct (new) knowledge
• Seeing from a different perspectives
• Creating open(s) minds
Internationalisation

Hammer, Bennet, Wiseman, 2003
Internationalisation

- Abroad
- @home
- Not only putting students together!!
Entrepreneurship

Requires:

- Creativity     [Innovation]
- Courage
- (Investments)
- (Marketing)
Designer: Daan Roosegaarde
3D Printing

Lego – knex adaptors*
Conclusions

• Give authentic assignments (POT/POE)
  – Problem solving skills
  – Integration of disciplines, and skills

• Use network
  – Connect people

• Communication (Understand & Collaborate)
  • Language (English, Chinese, Spanish)
  • Intercultural skills

• Personal Development
Knowledge is the only quantity that multiplies through dividing
Köszönöm a figyelmet
References – 1

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• A. H. Maslow (1943), A Theory of Human Motivation, Originally Published in Psychological Review, 50, 370–396. (http://psychclassics.yorku.ca/Maslow/motivation.htm, 8 January 2014)
• Robinson, K. (2011) Out of our minds; Learning to be creative, Capstone publishing ltd.
References – 2

- http://tech.fortune.cnn.com/2013/09/05/napster-oral-history/
References –3


• Yong Zhao, 2012, *World class Learners*
The following list provides a brief illustrative overview of the knowledge, skills, work habits, and character traits commonly associated with 21st century skills:

- Critical thinking, problem solving, reasoning, analysis, interpretation, synthesizing information
- Research skills and practices, interrogative questioning
- Creativity, artistry, curiosity, imagination, innovation, personal expression
- Perseverance, self-direction, planning, self-discipline, adaptability, initiative
- Oral and written communication, public speaking and presenting, listening
- Leadership, teamwork, collaboration, cooperation, virtual workspaces
- Information and communication technology (ITC) literacy, media and internet literacy, visual interpretation, data interpretation and analysis, computer programming
- Civic, ethical, and social-justice literacy
- Economic and financial literacy, entrepreneurialism
- Global awareness, multicultural literacy, humanitarianism
- Scientific literacy and reasoning, the scientific method
- Environmental and conservation literacy, ecosystems understanding
- Health and wellness literacy, including nutrition, diet, exercise, and public health and safety

[http://edglossary.org/21st-century-skills/]
What are 21\textsuperscript{st} century skills?

The 21\textsuperscript{st} century skills are a set of abilities that students need to develop in order to succeed in the information age. The Partnership for 21st Century Skills lists three types:

- **Learning Skills**
  - Critical Thinking
  - Creative Thinking
  - Collaborating
  - Communicating

- **Literacy Skills**
  - Information Literacy
  - Media Literacy
  - Technology Literacy

- **Life Skills**
  - Flexibility
  - Initiative
  - Social Skills
  - Productivity
  - Leadership

[http://www.thoughtfullearning.com/resources/what-are-21st-century-skills]
About Saxion University

- Only 1.5 hrs from Amsterdam
- Very good public transportation facilities
- Safe environment
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## School of Governance, Law & Urban Development

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<thead>
<tr>
<th>Degree BBA</th>
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<tbody>
<tr>
<td>• Public Administration</td>
<td>• Social Legal Services</td>
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<td>• Applied Safety &amp; Security studies</td>
<td>• Laws</td>
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“School of Env. Planning & Building”

• 4 Short Degree-Programmes
  - Civil Engineering = CE in (1\textsuperscript{e} semester in D, 2\textsuperscript{e} in E)
  - Environmental Science = ES (in D)
  - Urban Design = UD (in D)
  - Urban and Regional Planning = URP (in D)