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

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Györ – IW-PROHE

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Personal Introduction

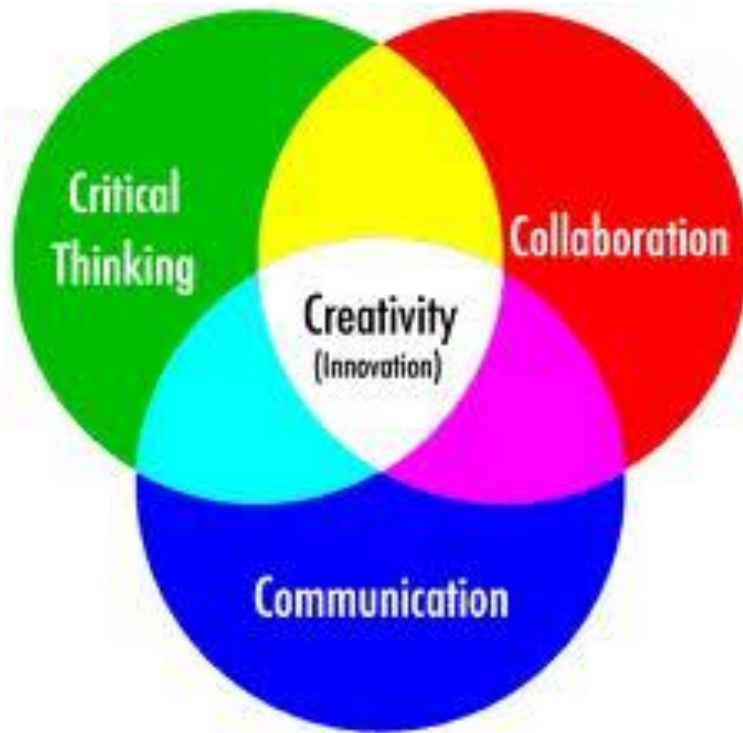## Mr. Hans Hasselt

Course director International Short Degree programs
Senior Lecturer   Sustainable Development
Consultant   Integrated Water Management
Researcher   Education / Pedagogy

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Structure of the presentation

- Global Developments
- Education in the 21st century?
- Requisites:
  - Networking,
  - International Education,
  - Entrepreneurship

21ˢᵗ 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

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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 equiped?

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How much smarter are we since 1915?

Thought experiment

Network

"Maslov's Piramid"

Networking

- Connecting people   [communication]

- Groups versus individuals   [collaboration]

- The Network is a strong as weakest bond

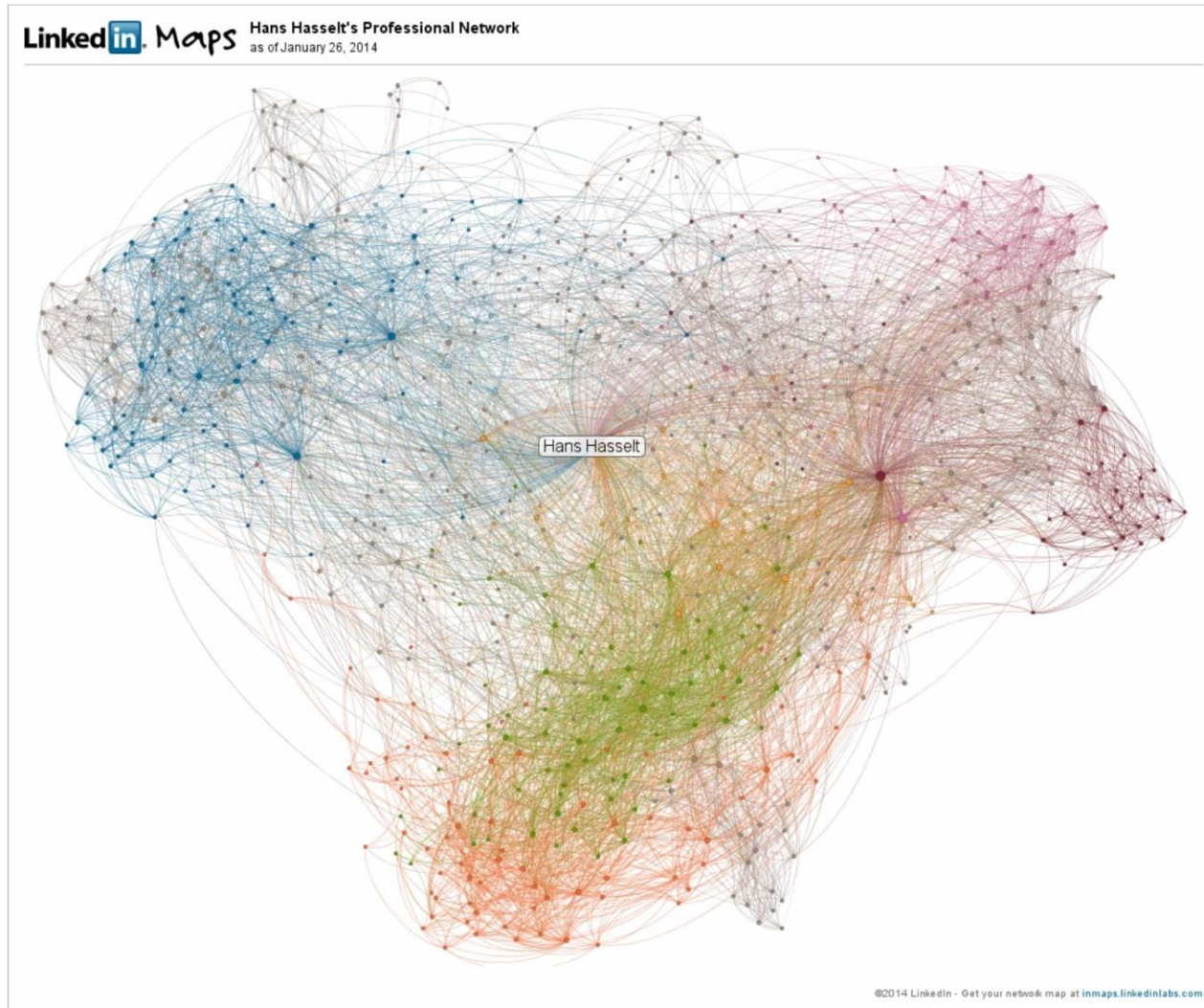# Examples of the Power of Networking and Networks!

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

Teeme ära!

LinkedIn

Whuffie factor

Whuffie:

- Reputation in a network

- A kind of social-cultural currency

- Lots of Whuffie = "reliable"

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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

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How do we deal with students using networks?

Judging or assessing?

Copying = Co-operating

Co-operating = Learning

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Copying = ~~Co-operating~~

~~Co-operating~~ = Learning

Copying = Learning
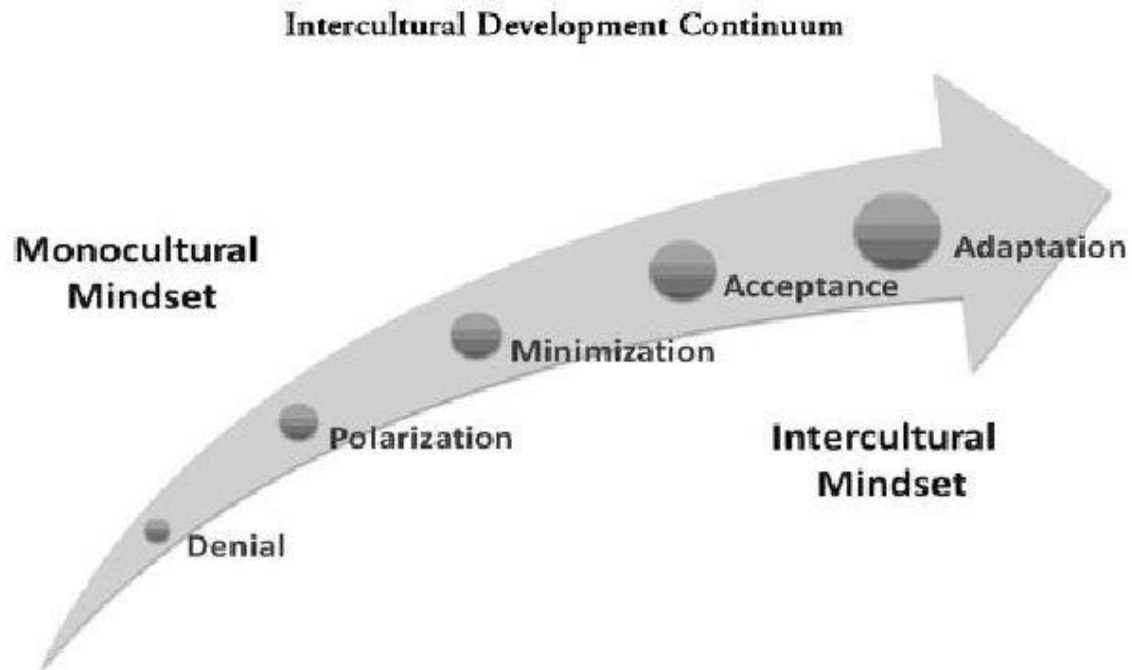
Internationalisation

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

Intercultural Development Continuum

Monocultural Mindset — Denial — Polarization — Minimization — Acceptance — Adaptation — Intercultural Mindset

Hammer, Bennet, Wiseman, 2003

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Internationalisation

- Abroad

- @home

- Not only putting students together!!

Entrepreneurship

Requires:
- Creativity   [Innovation]
- Courage

- (Investments)
- (Marketing)

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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

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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 21st century skills?

The 21st 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]

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About Saxion University

- Only 1.5 hrs from Amsterdam
- Very good public transportation facilities
- Safe environment

Apeldoorn

Deventer

Enschede

School of Governance, Law & Urban Development

Degree BBA	Degree LLB
• Public Administration • Applied Safety & Security studies • Business Management studies • Real Estate Management • Security Management	• Social Legal Services • Laws
Degree BES • Environmental Science	Degree BBE • Urban Regional Planning • Urban Design

"School of Env. Planning & Building"

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