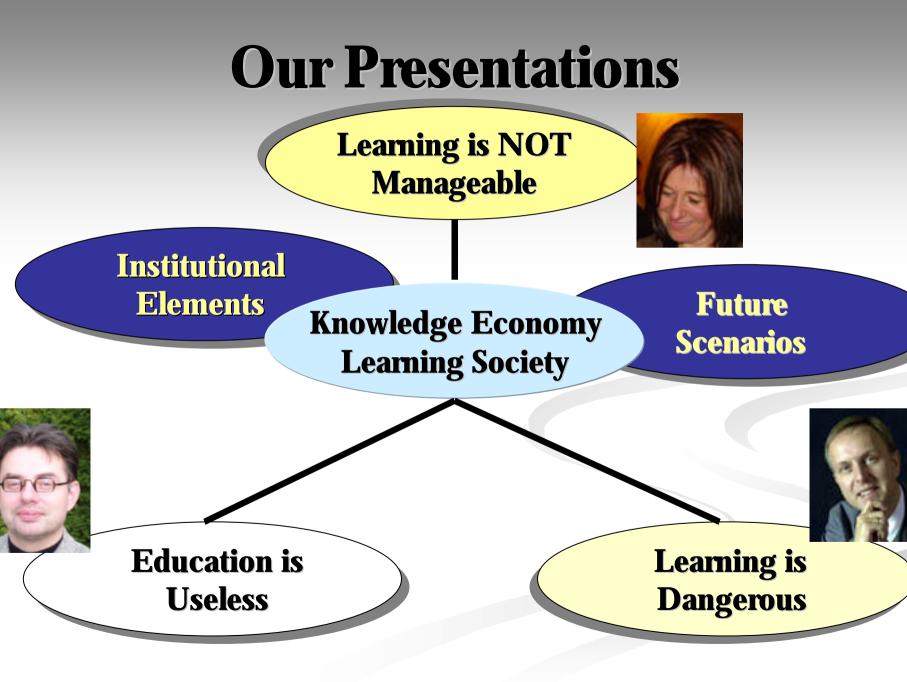
Future of Education & Learning

Prof. Dr. Wim Gijselaers (Maastricht University)
Associate Prof. Frank Lekanne Deprez (Director Zero Space)
Prof. Dr. Mien Segers (Leiden University)



BREAK!

What Did You Learn at School?



The Learning Economy

- "Sectors that use knowledge inputs such as R&D and skilled labor most intensively, grow most rapidly."
- "New Economy is knowledge-based. The main function of nonproduction workers is to introduce or cope with change."
- "UK labor market data show that learning is more intensive and extensive in the top than in the bottom of organizations."
- "Learning is more important in sectors characterized by frequent innovation."
 - OECD (2000). Knowledge Management in the Learning Society

Education is Useless: the Big Gap

"MBAs did not outpace non-MBA's in five critical areas: Helping others, initiative, leadership, relationship, and sense making."

• Kretovics (1999). Assistant Dean, Colorado State University

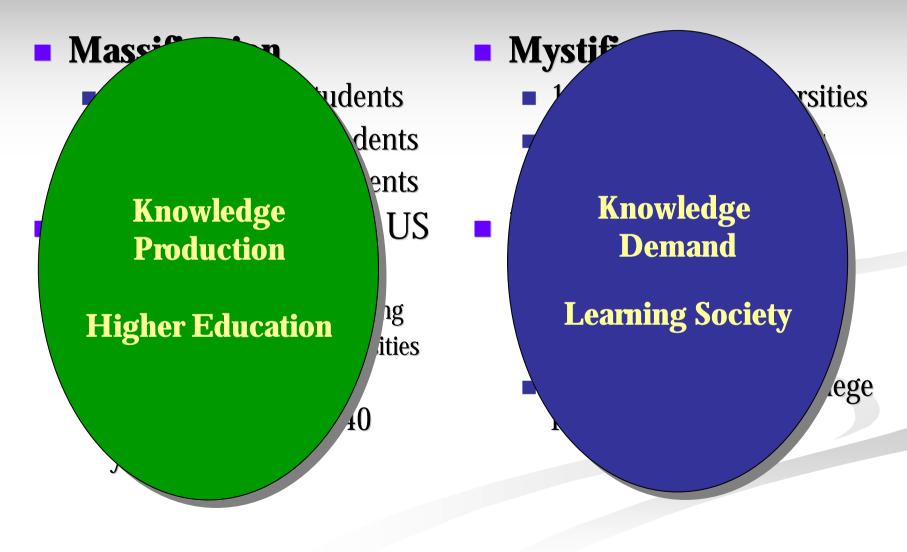
141 CEOs and senior executives rated non-business school graduates as better than MBAs in commitment to hard work, oral and written communication.

• (2002) Financial Post, Canada

Without a larger clinical or practice component, it is not clear that business schools ever will impart much lasting knowledge that affects graduates' performance."

Academy of Management (2002).

Massification & Mystification





Massification



Your admissions counselor. Your questions answered.

Advantage Tuition Admissions Programs



TAKE ADVANTAGE OF OUR FAST TRACK DEGREE OPTION. PROGRAM AVAILABILITY IS LIMITED -CONTACT US TODAY FOR DETAILS

ou contact us, you'll also receive our comprehensive program Together, your counselor and program catalog will cover everything d to know about getting started at the leading online university l degree information, tuition assistance and the application process.



University of Phoenix"

Connect with an enrollment advisor

To receive your catalog and speak with an enrollment advisor, complete this brief form.

Y

*

v

Program

select a program

Country

select your country of residence

Are you or your spouse eligible for U.S. Military education benefits? <optional>

if yes, select military branch

Will you be 21 or older upon enrollment?

🔍 yes 🔍 no

First Name		
Last Name		
Street Address		
Address Type	🖲 Home 🌘 Business	
City		
State/Province		~
<or> Other</or>		
Zip/Postal Code		
E-mail		
Employer		







Mystification



Making things smarter and life better

Search

MOTOROLA

intelligence everywhere

About Motorola - Products and Services - Shop

orola rersity

view

Six Sigma Services

History

Experience

Instructors

ram Calendar

ster Now!

aminq

nership Program

t is Six Sigma?

<u>s</u> r Resources

act Us



Welcome to Motorola University!

Spreading Six Sigma® around the globe

As Motorola's corporate change agent and a world-renowned corporate university, Motorola University brings time-tested and highly refined business improvement practices to leading organizations around the world.

Most notably, as the inventor of the Six Sigma methodology for continuous improvement, Motorola University offers a variety of Six Sigma services designed for speed, results, and sustainability -- whatever the size or nature of your business.

This site is for you if you're looking for...

- Business process improvement services tailored to your organization's needs
- Customized Six Sigma launch support
- Open enrollment Six Sigma Black Belt and Green Belt programs

To learn more about our customizable programs, explore Our Six Sigma Services.









Connection Between Graduates and Work

Traditional liberal conception

Reflexive capability, intellectual capacity to think holistically and critically, imbued with values associated with scholarship and discipline

 "what professional men should carry away with them from a University, is not professional knowledge, but that which should direct the use of their professional knowledge, and bring the light of general culture to illuminate the technicalities of a special pursuit."

John Stuart Mill (1867).



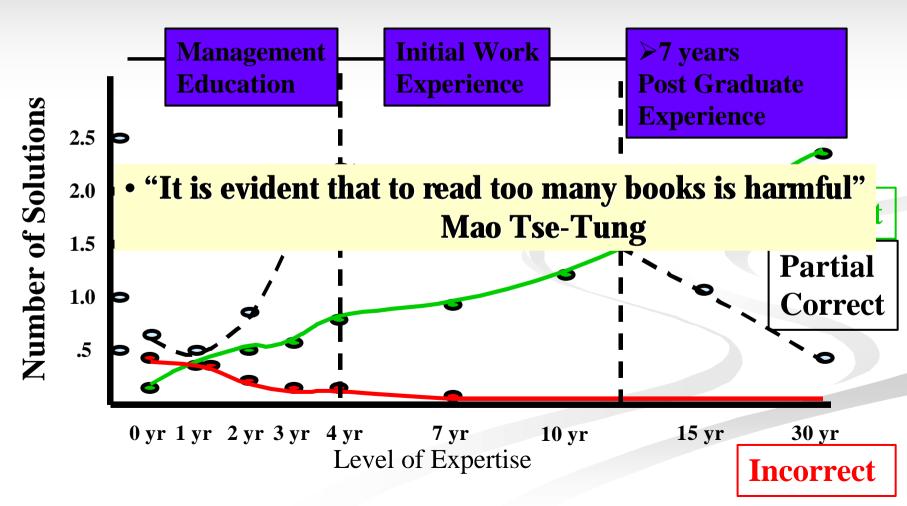
Changes in the Nature of Work

Labour processes in the 21st century

• A growing number of iobs with blurred boundaries of *Crisis of Confidence*.

Massive expansion of HE is a naïve human capital approach. Students perversely wanted to engage in esoteric studies (sociology), and the expected transfer of general intellectual capability to economic verve and dynamism did not meet the fast evolving requirements of new work processes...
Saunders & Machell (2000). Higher Education Policy

Why Education is Useless



Four Different Kinds of Knowledge

Know-what

Facts & Information

Know-why

Principles and laws in nature: Science-based areas. Public knowledge within the borders of High. Ed.

Know-how

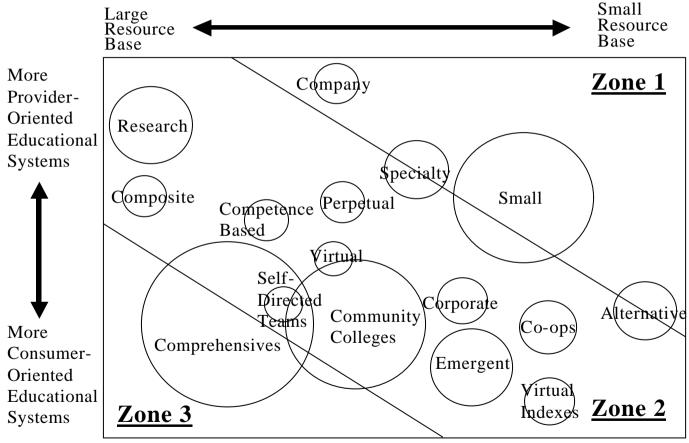
Skills that play a role in important economic activities. Kept within the borders of a firm.

Know-who

Social ability to co-operate and develop a composite knowledge base.

A View of the Future

Strategic Positioning of Information Age Colleges and Universities



©D. J. Rowley, 2000

5 Principles For the Design of Future Learning and Education

- Provide strong grounding in knowledge development
- Emphasize skills development:
 - "people skills", problem-solving skills, ...
- Design curricula so that students can learn
- Encourage students to learn by doing, and do it at the workplace
- Design Higher Education to meet these Demands
 - Profiled, accessible, user friendly, top quality, alliances with the workplace

Learning is not manageable

Prof. Dr. Mien Segers University Leiden School of Educational Sciences

Case of the Flemish textile industry

- Competition with low salary countries
- Technological innovations
- Closing down and restructuring



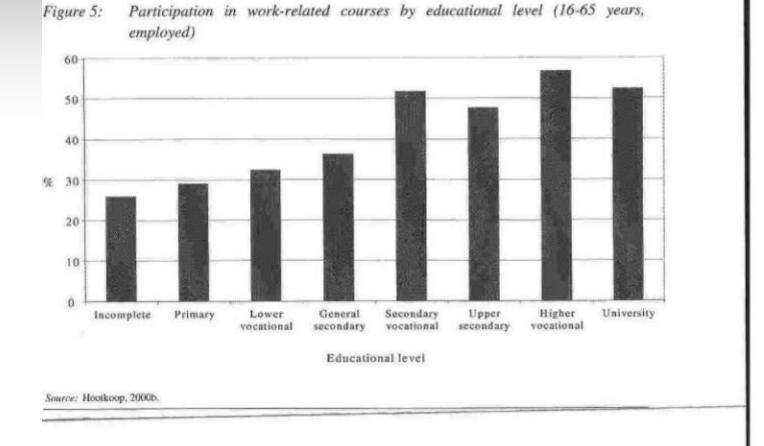
Training programs







Some statistics



	Male	Female	Total
Situational	64.9	63.8	64.3
Too busy at work	62.2	56,9	59.4
Other family responsibility	14.6	26.1	21.1
Lack of child care	3.6	16.7	11.0
Lack of employer support	8.6	6.5	7.5
Institutional	70.6	72.0	71.4
Program offered at an inconvenient time or location	41,3	41.3	41.3
Too expensive/have no money	37.2	42.7	40.3
Program not offered	10.3	8,7	9.4
Lack of sufficient qualifications	4.2	2.9	3.4
Dispositional	4.9	8.6	7.0
Health	3.5	7.6	5.8
Language	1.4	1.0	1.2
Other barriers	9.2	8.8	9.0

Table 5 Percentage distribution of situational, institutional, dispositional and other barriers to participation in adult education or training, 1997¹

.

 Estimates were based on the respondents representing adult population aged 17 and over, excluding all regular, full-time students aged 17 to 24 except 1) those subsidized by employers; 2) full-time students over 19 enrolled in elementary or secondary programs and 3) full-time atudents over 24 in post secondary programs.

TWO MESSAGES

WHAT IS GOOD ALWAYS BECOMES BETTER

CAST PEARLS BEFORE SWINE

Learning in Organizations

Two urban teaching hospitals

- Which organization learns better and why?
 - Compared eight nursing teams
 - Correlated error rate of teams (as a measure of learning) in their treatments of patients with team leadership performance, stability and morale, and personal satisfaction level of each nurse.

Research Question:

- Teams with better leadership make fewer mistakes?
 - Edmondson (1996). Journal of Applied Behavioral Science

Failure & Learning

- "The more positively nurses rated their team's relationships and the level of coaching and goal setting they received from their managers, the more errors their team reported."
 - Teams with higher error rates worked in open atmosphere
 - Teams with low rates were led by authoritarian managers

Conclusion

- "Management may be filled with MBAs, PhDs and hoards of other supposedly accomplished and intelligent individuals, but this will not help them to share what they know, or provide them with the necessary thinking skills for effective knowledge management."
 - **Goldberg**, 1999)
- "Medical programmes may need more emphasis on performance, not just competence, especially in the later years. This might be achieved by ensuring learning occurs in the right context so that acquired skills and knowledge can immediately be related to the 'real world'.
 - Med.Ed. (2002). *Transitions out of medical school*

Future of Education & Learning

Prof. Dr. Wim Gijselaers (Maastricht University) Associate Prof. Frank Lekanne Deprez (ZeroSpace Advies BV) Prof. Dr. Mien Segers (Leiden University)

Learning Is Dangerous: Managing Organizational Forgetting in the Knowledge Economy

Frank Lekanne Deprez Associate Professor/ Director ZeroSpace Advies BV Club of Amsterdam 18 February 2004

Part 1



1. Information is like...

In the Industrial Age, information was like gold. In the Digital Age, information is like milk, use it quickly.

Information Strategy, 1998

1. A short journey...

Knowledge:

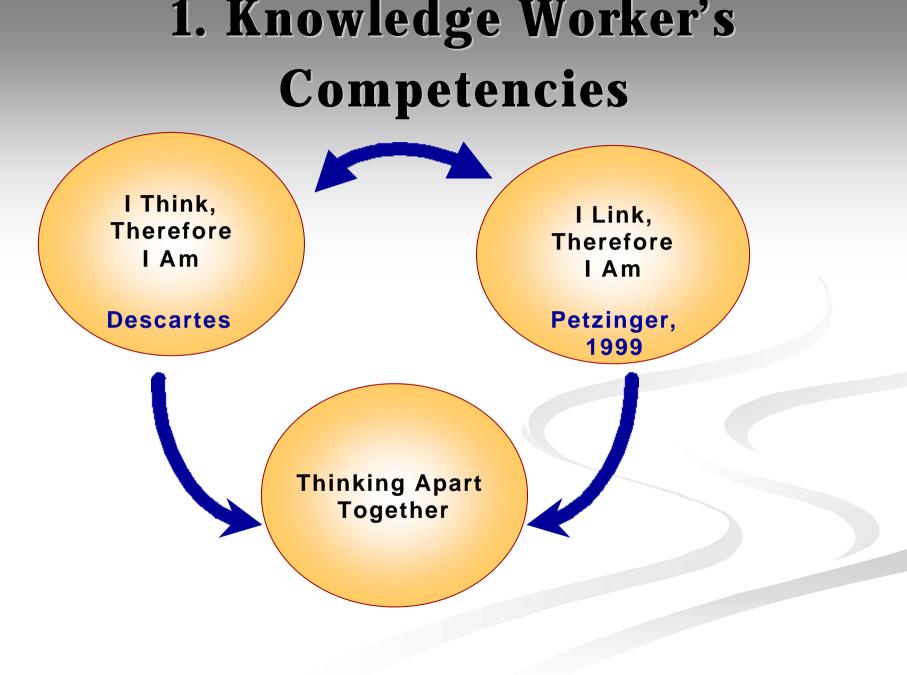
- resides in the 'heads' ('stock': directly available, but today's knowledge may already be out of date)
- circulates among people ('flow': exclusive, it updates organically)
- is difficult to organize
- must be turned into action

"...companies become eunuchs in the business harem: they know what to do, they've seen it done a thousand times, but they can't do it themselves (Lekanne Deprez & Tissen, Zero Space, 2002)."

1. Are Knowledge Workers Becoming a Commodity?

- When workers were laid off in the industrial era, they no longer had the means or the resources to be productive ("...bodies were as replaceable as light bulbs").
- In the Knowledge Economy, knowledge workers are finding that they take the most valuable resource with them when they are laid off: knowledge; their network and competences
- Nowadays, a global white collar migration is happening: Any function that does not require face-to-face contact is now perceived as a candidate for offshore relocation. At the moment 14 million knowledge worker US jobs are vulnerable to offshoring (University of California, 2004)

A cubicle can be replicated overseas as easily as a shopfloor can!



Part 2



2. Learning is to stay within the lines

- Learning, whether at school or within organizations, is generally regarded as a good thing
- But learning can be dangerous... Limited thinking and learning begins in kindergarten when we are given the same picture to color. "Stay within the lines", we are told!

"We learn that it's risky to show individual differences erupting from our creative minds, and thus we learn not to trust our own ideas" Source: D.R.Smith, 1995.

2. Learning is ...

- "Learning disabilities are tragic in children, but they are fatal in organizations. Because of them, few corporations live even half as long as a person – most die before they reach the age of forty" (P. Senge, 1992).
- Every organization learns, despite the way they operate. Whether this learning will result in organizational improvement ('good learning') cannot be assessed beforehand" (Marleen Huysmans, 2000).

2 How many artists are there in the room?

Visiting an American elementary school in 2000:

"How many artists are there in the room? Would you please raise your hands. <u>FIRST GRADE</u>: *En masse* the children leapt from their seats, arms waving. Every child was an artist. <u>SECOND GRADE</u>: About half the kids raised their hands, shoulder high, no higher. The hands were still. <u>THIRD</u> <u>GRADE</u>: At best, 10 kids out of 30 would raise a hand, tentatively, selfconsciously. By the time I reached <u>SIXTH GRADE</u>, *no more than one or two kids* raised their hands, and then ever so slightly, betraying a fear of being identified by the group as a 'closet artist.'

The point is: <u>Every school I visited was</u> participating in the suppression of creative genius."

Gordon MacKenzie, Orbiting the Giant Hairball: A Corporate Fool's Guide to Surviving with Grace Source: Tom Peters, Reimagine, page 278

2 The best teacher has...

- no problems with colleagues
 no problems with parents
- no problems with students

We desperately need 'creative tension' in schools.

The average never wins. It never has and never will!

2. Lifelong Learning : No Thanks!

During a presentation on learning organizations /lifelong learning a student stood up and said:

"For me lifelong learning means lifelong imprisonment. I can't imagine myself doing this stuff all my life. Please, what's the alternative!"

2. Lifelong <u>Un</u>learning for the Knowledge Era part 1

"Why does 'lifelong learning' sound so much like 'life sentence' to me?"

(Adapted from Tom Peters, 2003)

2. What Do These Words Have In Common?



Burnout

Break down

2. Are We Trapped in a Prison of Our Own Making?

- Nelson Mandela reportedly said that although his political opponents could imprison his body, they could never imprison his mind.
- And yet many of us in business allow our minds to be imprisoned in 'old-time' industrial age , machine-like thinking.

Source: Lekanne Deprez & Tissen, Zero Space, page 4

2. School Holidays: An Inferno from the Agrarian Age?

School holidays are a function of an agrarian society, where schools were needed during the long summer growing and harvest season.

School vacations are a proof that it is much easier to perpetrate a vast revolution via the Internet than to get people to question the simple things that surround them.

Why should they make holidays an inferno, in terms of reservations, flight hassles and queues everywhere, just *because their kids are on an 1700s harvest schedule!*

Source: Ricardo Semler, 2003.

2. Lifelong <u>Un</u>learning for the Knowledge Era

"The problem is not to get new, innovative thoughts into your mind, but how to get the old ones out"

(D. Hock, former CEO of VISA)

2 Managing Organizational Forgetting

- Organizations without practical mechanisms to remember what has worked and why, will have to repeat their failures and rediscover their success formulas over and over agian.
- Organizations must forget old habits in order to learn new and more appropriate ways of doing things.

2 Three Modes of Organizational Forgetting

- First, organizations can fail to successfully integrate knowledge transfered from another organization, or created internally, into its memory system
- Second, knowledge is successfully integrated into memory, but it is lost due to a failure of the memory system
- Third, knowledge that has made its way successfully into the memory system, but is purposively forgotten

Source: de Holan & Phillips, 2003

2. Managing Forgetting Consumes a Surprising Amount of Time and Effort:

- To forget things that needed to be forgotten
- To avoid forgetting things that shouldn't be forgotten
- To recreate critical knowledge that was forgotten

"While learning is critical for organizational success, forgetting plays an equally important role."

Source: de Holan & Phillips, 2003

2. To Thrive in the Knowledge – based Economy, questions are more important than answers...

"Whereas answers reflect the past, questions deal with the future."