

Education in Europe: VLE and Schools for the Future

Coen Free

President European Foundation for
Open and Digital Learning

Dublin

October 12, 2011



Race to the Top

“Reform of education is the most important economical challenge of the USA.”



But...

***not only for the USA
but for the whole
world!***



Statement EU



The European Union acknowledges that a fundamental transformation of education and training is needed to address the new skills and competences required if Europe is to remain competitive, overcome the current economic crisis and grasp new opportunities.



In crisis only
valuables count, the
rest is bullshit capital.

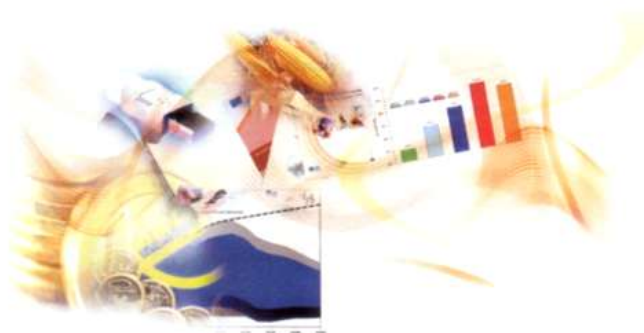
Innovation a Risky Business!

- *How do you do that?*
- *What strategies are effective?*
- *How can we be sure in a world constantly changing?*
- *Which topics are important?*



Mapping Major Changes to Education and Training in 2025

Authors: Slavi Stoyanov, Bert Hoogveld and Paul Kirschner
Editors: Christine Redecker and Yves Punie

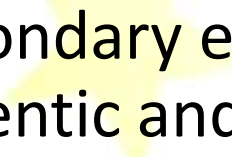
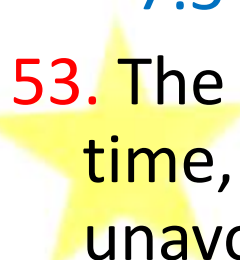
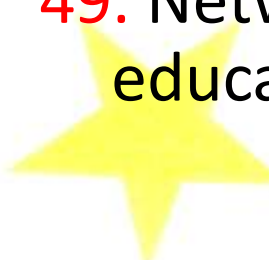


JRC59079 - 2010

Twelve Thematic Clusters

1. Roles of Institutions
2. Formal and Informal Education
3. Individual and Social Nature of Learning
4. Pedagogical Methods
5. Tools and Services Enhancing Learning
6. Technology in Education
7. Open Education and Resources
8. Assessment, Accreditation and Qualifications
9. Individual and Profession Driven Education
10. Role of Teacher
11. Life-long Learning
12. Globalization of Education


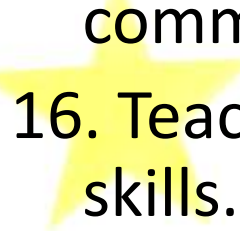

Top 60 Statements

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60. Secondary education will shift towards the creative, authentic and social mindedness. – 6.46
54. Online communities will be widely used in education. – 7.54
- 
53. The role of ICT will change throughout one's of life time, from a supporting role to an overriding, unavoidable presence. – 7.55
50. Online courses will be available in many different languages with access from all over the world. – 7.62
- 
49. Networked education settings rather than centralized educational institutes. – 7.63

Top 60 Statements

- 42. Learning should be social and supported by social web technology. – 7.83
- 40. Higher Education institutions will merge cross borders in Europe. – 7.91
- 31. Education will continue to support the need for a highly qualified work force. – 8.00
- 29. Electronic learning environments will have greatly increased possibilities. – 8.03
- 27. Education and learning will last throughout one's whole life, from cradle to grave so to speak, going from Kindergarten age to being a senior citizen. – 8.05

Top 60 Statements

- 
21. The pedagogy of learning will change throughout one's life time, from fit for children to fit for adults. – 8.18
20. Open learning through the internet will become common. – 8.19
- 
16. Teachers will need to develop coaching / mentoring skills. – 8.28
15. The workplace will become a major context for learning. – 8.34
- 
13. Courses will be available in different forms (text, online, mobile, teacher-based instructions). – 8.36

Top 10 Statements

10. Open Educational Resources will become widely adopted. – 8.44

9. Technology will bridge time and space in learning. – 8.45

8. Study paths will become more flexible. – 8.46

7. Lifelong learning will be natural. – 8.47

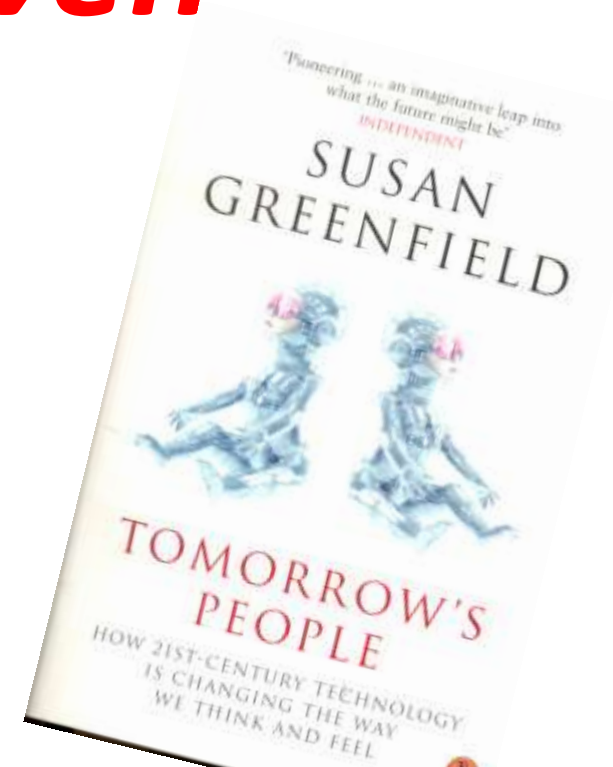
6. There will be an abundance of easily available learning resources, but a challenge [is] to find guidance around them. – 8.54

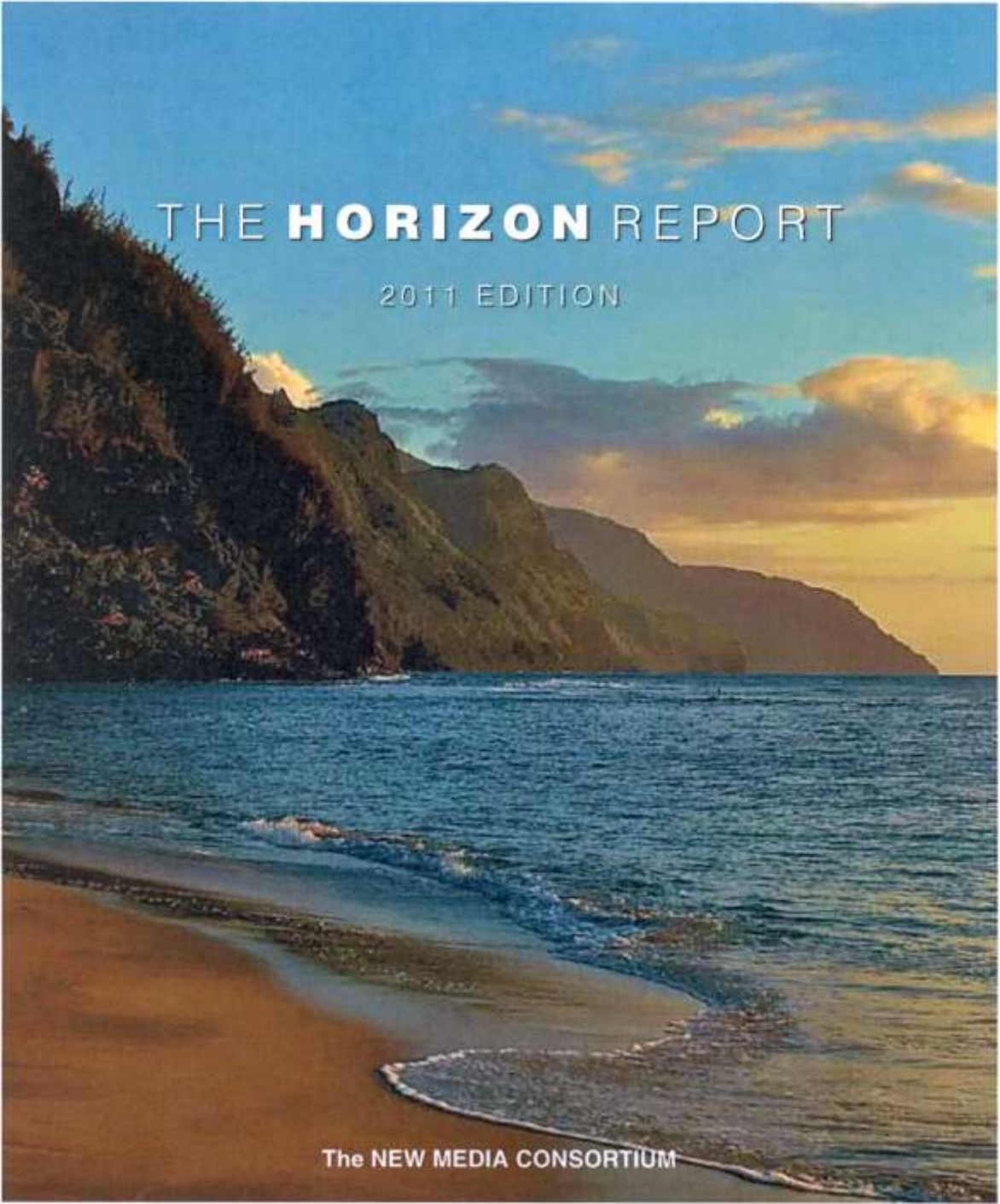
Top 10 Statements

5. Learning will be more integrated with daily life or work. – 8.63
4. Constructivism will still be there, but a new paradigm will have arisen. – 8.64
3. There will be digital library services. – 8.81
2. Guided learning in a group will be complemented with learning in and from loosely knit networks. – 8.82
1. Learning programmes will be more flexible than they are now. – 9.00

Conclusion

***In most cases innovation
is technology driven***





THE **HORIZON** REPORT

2011 EDITION

The NEW MEDIA CONSORTIUM

Key Trends

- The abundance of resources and relationships made easily accessible via the Internet is increasingly challenging us to revisit our roles as educators in sense-making, coaching, and credentialing
- People expect to be able to work, learn, and study whenever and wherever they want
- The world of work is increasingly collaborative, giving rise to reflection about the way student projects are structured
- The technologies we use are increasingly cloud-based, and our notions of IT support are decentralized

Critical Challenge

- Digital media literacy continues its rise in importance as a key skill in every discipline and profession



Technologies to Watch

- Time-to-Adoption: **one year or less**
 - Electronic Books
 - Mobiles
- Time-to-Adoption: **two to three years**
 - Augmented Reality
 - Game-Based Learning
- Time-to-Adoption: **four to five years**
 - Gesture-Based Computing
 - Learning Analytics



22nd International Conference on College Teaching and Learning - Ponte Vedra Beach, Florida

CONFERENCE PROGRAM



Special Track I

Mobile and Social Learning

Some conclusions:

- The way that we live, work, play and learn is being impacted by the increasing mobility of our society
- The future seems digital for textbooks
- Mobile device growth in education is leading to transformational content experiences and increasing student engagement

Case Study of Mobile E-Book Learning Experiences

Six major conclusions:

1. Students expressed competence in their use of mobile e-books
2. Students expressed feelings of high self-efficacy when using mobile e-books
3. Students overall valued the use of e-books for their learning
4. Students were individualised and meta-cognitive in their learning with mobile e-books
5. Students enhanced their learning socially and within situated learning opportunities
6. Students and instructor had divergent views on value and utility of social, interactive text-books

Overall Conclusion

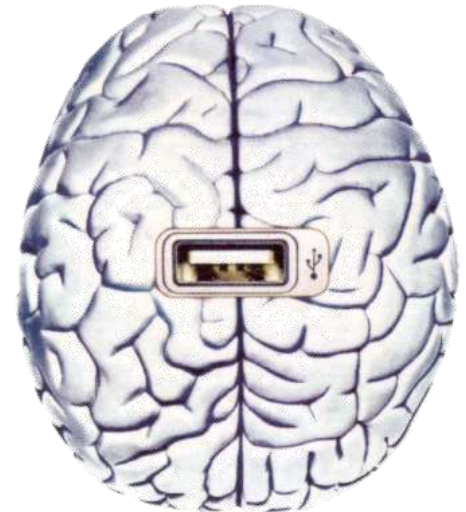
Increasing understanding of the use of electronic and mobile instructional technologies such as e-books may better assist educational leaders with preparing students for today's global knowledge economy.

Special Track 2

Brain-Based Education in the 21st Century Classroom

Conclusion:

- As teachers we must use the newest brain function information to make student learning most efficient



“Advances in technology have enabled us to not only observe the patterns and structures of our brains, but the very process of learning as it occurs. We now understand that the brain is not a blank slate or an immutably hard-wired computer.”

Dr. Stephanie Pace Marshall, President of the Illinois Mathematics and Science Academy.

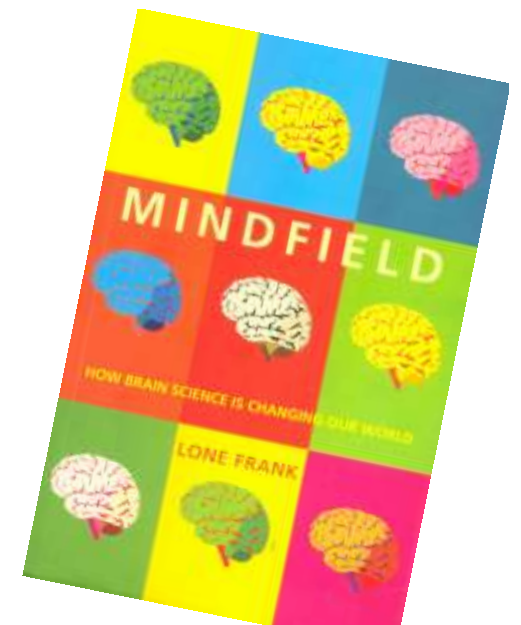


“We are on the brink of new, powerful methods to understand and to change the human brain and the human mind.”

Dr. Martha Farah, professor neuroscience at the University of Pennsylvania.

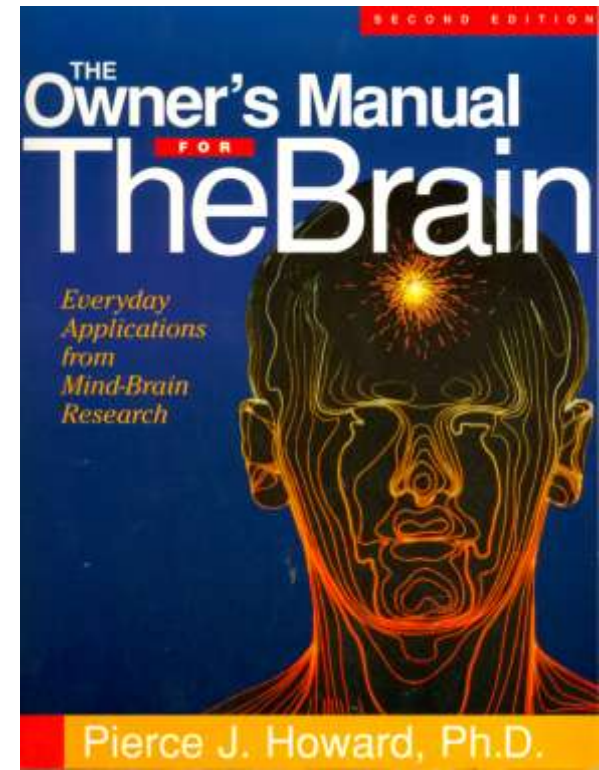


Brain science, called the fifth revolution, is changing the whole mental space. Especially the theory about the mirror neurons teaches us a lot about learning processes.



New Definition

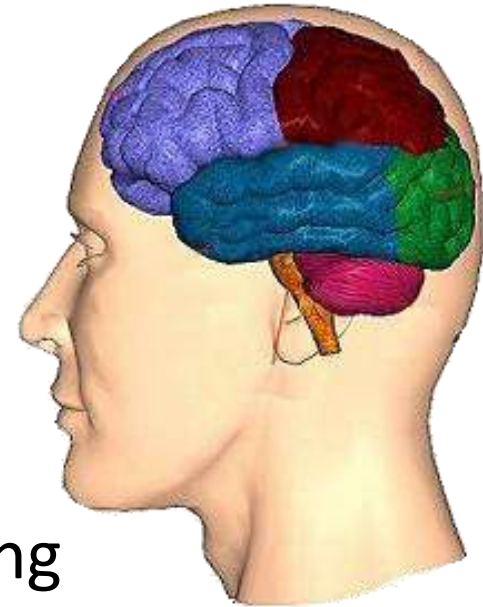
Learning is the process in which received information is collected in the brain and stored in the cerebral cortex as a memory.



Biggest Revolution

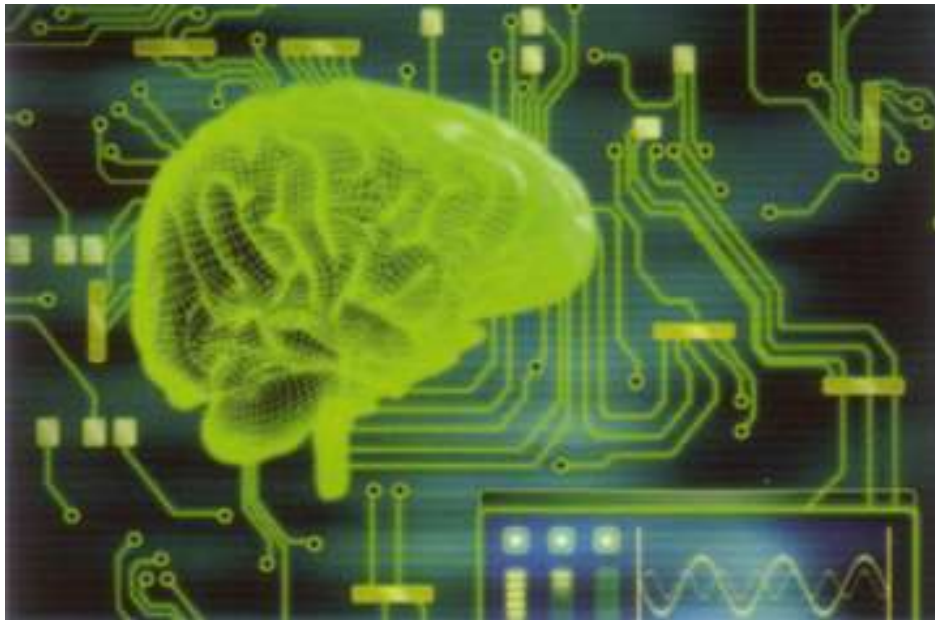
Birth of New Spaces:

- Physical space: new buildings, spatial order, art
- Mental space: new imagination and thinking
- Cyberspace: bits and bytes



E-Learning

Needs other paths in our brain than traditional learning.



New 3D World

Stop thinking about mobile learning as a purely online process.

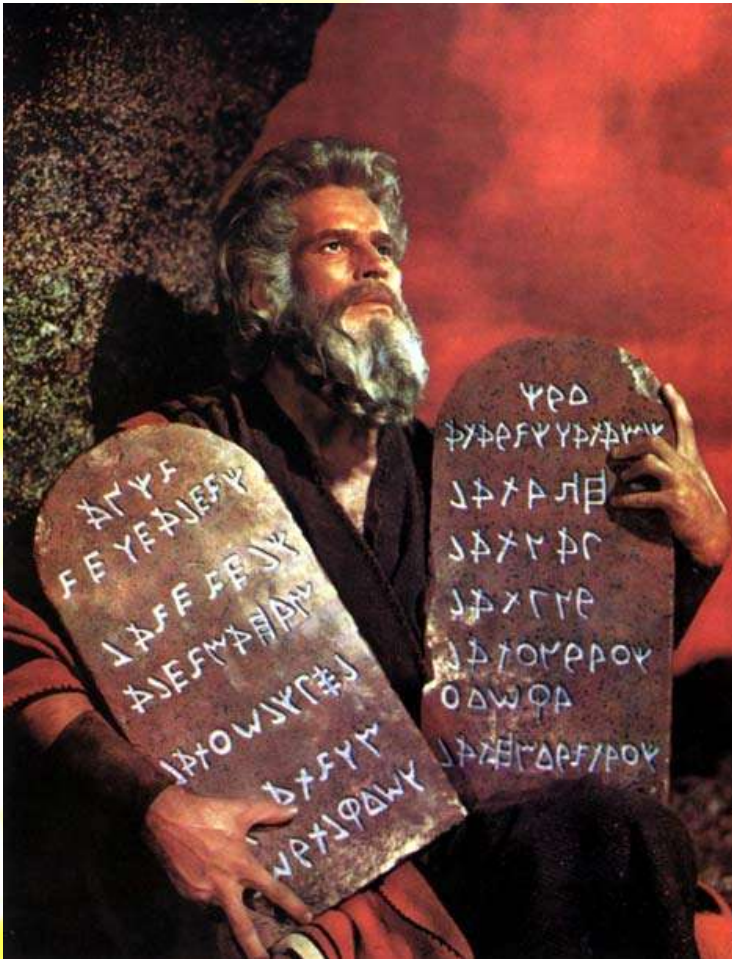
It's a new way of thinking and feeling.

It's a new part of our brain.

And a very influential part, because emotions play an important role.



Same Role and Effect

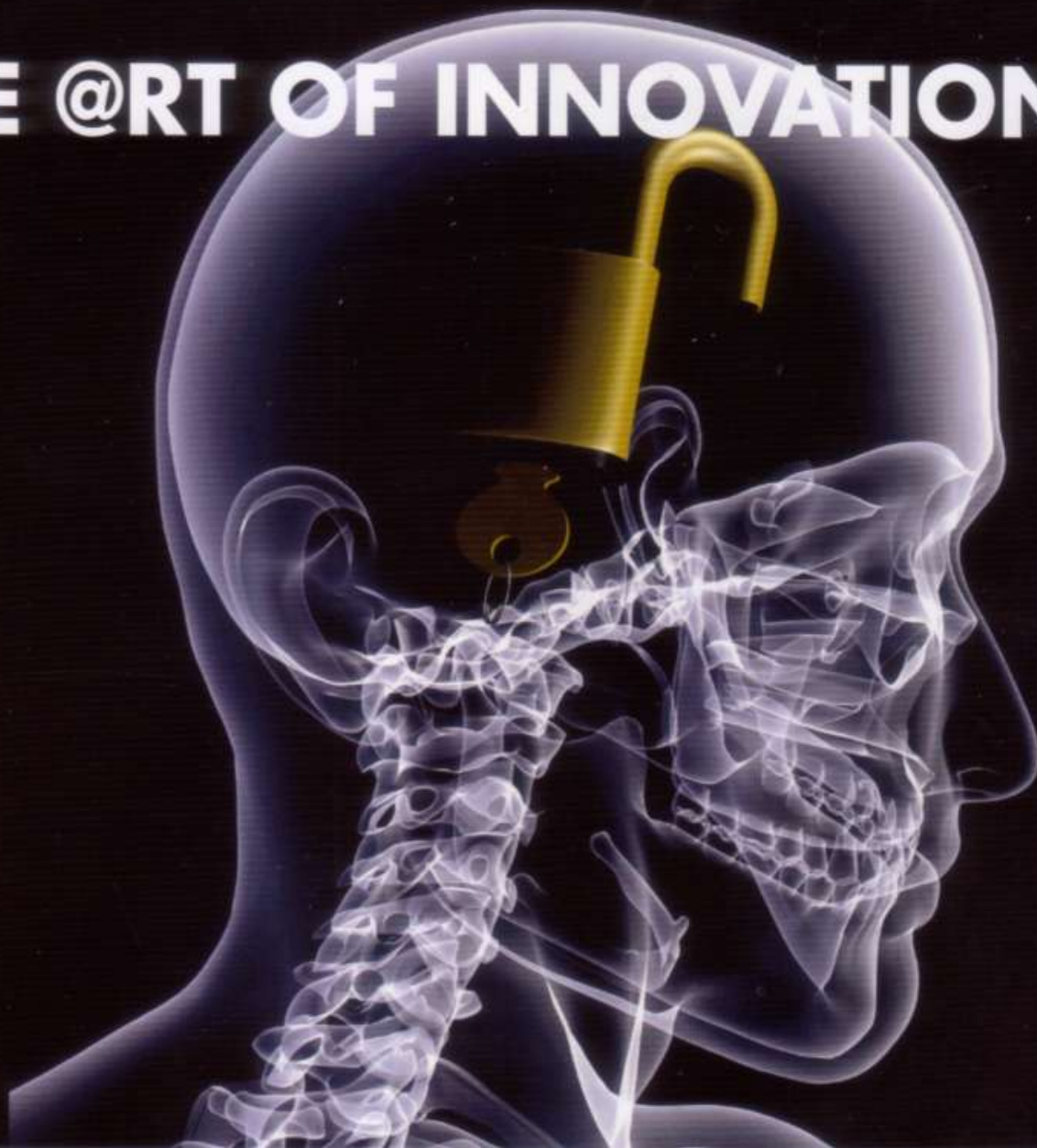


We rush into a completely new world.

**SUPERHIGHWAYS
FOR EDUCATION**



E-BRAIN. THE @RT OF INNOVATION



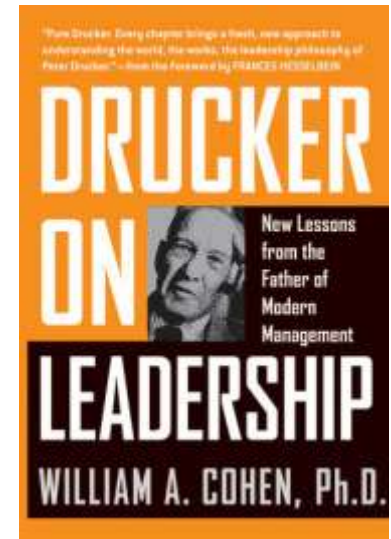
New Eyes

“The real voyage of discovery consists not in seeking new landscapes but in having new eyes.” (Marcel Proust, 1871 – 1922)



New Leadership

To realize this, strategic leadership of excellent quality is necessary.



Innovation a Risky Business

**It's kind of fun
to do the impossible.**

WALT DISNEY

***If you can't stand the heat,
stay out of the kitchen!***



**BETTER BREAD WITH
WATER THAN CAKE
WITH TROUBLE.**

Russian Proverb



Mission for Schools and Colleges:

Building community between the diversity of:

- 20th century Teaching and 21st century Learning
- Information Management and Technology Management
- Tradition and Innovation
- Left and Right Part of the Brain
- The Multiple Intelligences
- Learners all over the world!





**God bless you all on your quest
through our complicated 3D world.**