Learning Platforms
Learning Platforms

Pekka Neittaanmäki, Elmira Galeieva, Anthony Ogbechie

ABOUT THE PROJECT

This report was conducted under the Platform Value Now project funded by Finland’s Strategic Research Council. Platform Value Now will focus on understanding the fast emerging platform ecosystems, their value creation dynamics and requirements of the supportive institutional environment. We will analyze ecosystems with systems tools and develop new methods for platform-centric ecosystems management. Data collection is based on active scanning of global technology and platform ecosystems and fast solution oriented case experiments with Finnish corporations and policy planners. The aim of the project is to operationalize the collected understanding into a Platform Profile framework that will enable more efficient method and tool development for ecosystem management.
“Without a broader vision of social change, new technologies will only serve to reinforce existing institutional goals and forms of social inequity. Many prior attempts to mobilize technology in the service of educational reform have failed because interventions have focused narrowly on the deployment of particular media or technologies, without considering broader social, political, or economic conditions.

“Connected learning is socially embedded, interest-driven, and oriented toward expanding educational, economic, or political opportunity. It is realized when a young person is able to pursue a personal interest or passion with the support of friends and caring adults, and is in turn able to link this learning and interest to academic achievement, career success, or civic engagement. Unlike efforts at educational change that focus on technology deployment or institutional reform, connected learning takes a networked approach to social change that aligns with our ecological perspective.”

— Mizuko Ito, professor in residence, University of California, Irvine.
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5 Ways to Transform Distance Learning Content

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Digital Education 2.0: From Content to Connection

Learning Ecosystem - Amplifying Student Engagement on Learning Management Platforms

Read article: https://www.linkedin.com/pulse/learning-ecosystem-amplifying-student-engagement-arvind-thothadri

The Learning Ecosystem: The Digital Revolution

Creating Long-Term Memories from Online Coursework by Strengthening Fragile Knowledge

Read article: http://tatwork.blogspot.fi/2011/11/creating-long-term-memories-from-online.html

A New Architecture for Learning

Read article: http://er.educause.edu/articles/2013/10/a-new-architecture-for-learning
The Components of a Digital Age Learning Ecosystem

Read article: https://byotnetwork.com/2014/07/06/the-components-of-a-digital-age-learning-ecosystem/

Building your corporate Digital Education Experiences

Read article: https://www.linkedin.com/pulse/20140526234525-13687950-three-dimensions-of-your-corporate-digital-learning-strategy
From LMS to Learning Ecosystems

Read article: [http://gettingsmart.com/2012/06/from-lms-learning-ecosystems/](http://gettingsmart.com/2012/06/from-lms-learning-ecosystems/)

A ‘Learning Ecosystem’ Approach to Ed-Tech Acquisition

Reaching Critical Mass: Promoting and Leveraging a Diverse Learning Ecosystem in Foundation Art and Design


The Solution Revolution in Education

Read article: http://dupress.com/articles/the-solution-revolution-in-education/
Digital Teaching and Learning Ecosystem (DTLE): A Theoretical Approach for Online Learning Environments.


The Key to Digital Learning? Bring It into the Real World

Read article: http://www.wired.com/2015/08/key-digital-learning-bring-real-world
Change the Paradigm: The Digital Revolution

Read article: https://mgdolence.com/2014/07/22/prototype-strategic-plan-1/

The State of Digital Education Infographic

Read article: https://www.knewton.com/infographics/the-state-of-digital-education-infographic/
THE FACTS ABOUT DIGITAL AND BLENDED LEARNING


How Learning Will Work in the Near Future: 12 Features of Next-Gen Platforms

Read article: http://gettingsmart.com/2015/01/learning-will-work-near-future-12-features-next-gen-platforms/
NEW DIGITAL ECOSYSTEM DEMANDS NEW WAYS OF LEARNING

Read article: https://www.georgetown.edu/news/designing-the-futures-of-the-university/speakers-series-mimi-ito.html

Delivering the Learning Platform in Instructional Design

Read article: http://www.nwlink.com/~donclark/hrd/sat5.html
These Are The 5 Digital Learning Platforms That Will Change Education As We Know It

Read article: [https://www.linkedin.com/pulse/20141020135324-254152289-these-are-the-5-digital-learning-platforms-that-will-change-education-as-we-know-it](https://www.linkedin.com/pulse/20141020135324-254152289-these-are-the-5-digital-learning-platforms-that-will-change-education-as-we-know-it)

5 Digital Platforms Leading the Future of Ed-Tech

Digital learning platforms transform education


The Benefits of Digital Learning Platforms

Read article: http://www.digitalbookworld.com/2016/the-benefits-of-digital-learning-platforms/
An Exhausted Sea of Digital Learning Platforms

Read article: http://www.yeedor.com/education/an-exhausted-sea-of-digital-learning-platforms/

How Digital Learning is Boosting Achievement

Read article: http://gettingsmart.com/2014/03/how-digital-learning-is-boosting-achievement/
eLearning Technology in the Classroom

Key aspects of a Learning Platform

- **Curriculum Delivery**: Standard and benchmarks linked to resources for learning, assessment and collaboration tools and external links.

- **Assessments**: Submitted in any media, then assessed against benchmarks using rubrics.

- **ePortfolios**: Student selected artifacts of learning which illustrate growth and progress over time.

- **Gradebooks**: Online gradebooks with visual tracking progress against benchmarks. Shared with students and parents.


The Power of Platforms

What are Innovation Platforms

Read article: [http://r4d.dfid.gov.uk/pdf/outputs/WaterfoodCP/Brief1.pdf](http://r4d.dfid.gov.uk/pdf/outputs/WaterfoodCP/Brief1.pdf)

Deeper learning by design: what online education platforms can do

Building Innovation: Learning with technologies

Read article: https://research.acer.edu.au/cgi/viewcontent.cgi?article=1009&context=aer

TECHNOLOGY-RICH INNOVATIVE LEARNING ENVIRONMENTS

Towards a new-digital learning ecosystem based on autonomic Web services


NAVIGATING THE NEW LEARNING ECOSYSTEM

Read article: https://net.educause.edu/ir/library/pdf/ELI7084.pdf
Regenerating the Learning Ecosystem

Five Disruptions

Recombinant Education:
Regenerating the Learning Ecosystem

This forecast previews five disruptions that will reshape learning over the next decade. Responding to them with creativity rather than fear will be critical to preparing all learners for an uncertain future.

DEMOCRATIZED STARTUP
Transformative innovation strategies and open access to reusable knowledge, expertise, and resources will feed an explosion of open-source
innovations.

HIGH-FIDELITY LIVING
An increasing number of human
constructs in architecture,
arts, entertainment, and
communications will help people
immerse in the virtual
world.

DE-INSTITUTIONALIZED PRODUCTION
Activity of all sorts, from
innovations in research to
entrepreneurship, will help
the world’s entrepreneurial
capacity.

CUSTOMIZABLE VALUE WEB
Innovative, open business
models will leverage complex
networks of assets and
relationships to create value
for consumer-centric experiences
across industries.

SHAREABLE CITIES
Neogen cities will drive
demand for social innovation.
With urban infrastructure
shaped by patterns of
human connection and
contribution.

Read article: [http://knowledgeworks.org/sites/default/files/Forecast3_0_0.pdf](http://knowledgeworks.org/sites/default/files/Forecast3_0_0.pdf)

Digital Tools as a way to integrate an Entire Learning Ecosystem

Read article: [https://digitallearning.northwestern.edu/article/2016/03/15/randy-bass-and-learning-ecosystem](https://digitallearning.northwestern.edu/article/2016/03/15/randy-bass-and-learning-ecosystem)
Modelling open education learning ecosystem

Read article: https://tihane.wordpress.com/2012/05/08/modelling-digital-learning-ecosystem/

Future-Gazing: What Learning Ecosystems Might Look Like By 2025

Read articles: http://evollution.com/revenue-streams/distance_online_learning/future-gazing-learning-ecosystems-2025/
An Engaged and Engaging Mobile Learning Ecosystem

Read article: http://elearnmag.acm.org/archive.cfm?aid=2627709

Savvy Spaces and Learning Ninjas! Designing an Adaptive Learning Ecosystem

The changing e-learning ecosystem and its future

Read article: http://www.itweb.co.za/index.php?option=com_content&view=article&id=149010

Policy imperatives for creating pathways for digital learning in schools

The Digital Ecosystem Paradox – Learning to Move to Better Digital Design Outcomes

Generative value effects of digitization

Read article: https://blog.opengroup.org/2014/06/10/the-digital-ecosystem-paradox-learning-to-move-to-better-digital-design-outcomes/

HOW TO KEEP LEARNING ECOSYSTEM (LE) SIMPLE

Read article: http://svetlanaosipova.com/learning-ecosystem/how-to-keep-learning-ecosystem-le-simple/
Join the platform revolution

Read article: http://executive.mit.edu/blog/join-the-platform-revolution?utm_source=twitter&utm_medium=social&utm_campaign=blog&utm_date=apr16#.VycBbVgrl8q

LEARNING IS EARNING in the national learning economy

The Six Tech Advances In Higher Ed That Are Preparing Students For The Future Of Work

Read article: http://www.fastcompany.com/3057576/the-future-of-work/the-six-tech-advances-in-higher-ed-that-are-preparing-students-for-the-fu?partner=rss

Udacity Says It Can Teach Tech Skills to Millions, and Fast

Read article: http://platformvaluenow.org/udacity-says-it-can-teach-tech-skills-to-millions-and-fast-2/
Virtual Training Company: Lifetime Subscription

Read article: http://platformvaluenow.org/virtual-training-company-lifetime-subscription/

Where Are They Now? Revisiting Breneman's Study of Liberal Arts Colleges

Read article: https://www.aacu.org/publications-research/periodicals/where-are-they-now-revisiting-brenemans-study-liberal-arts
When Virtual Reality Meets Education

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Why Clayton Christensen Is Wrong About Uber And Disruptive Innovation

Amazon eyes up education, plans a free platform for learning materials

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Could Slack Be the Next Online Learning Platform?

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Online education platforms and apps by Blackboard

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Choosing An Online Learning Platform: Which Makes Sense?

Read article: http://elearningindustry.com/choosing-online-learning-platform-makes-sense
McGraw Hill’s New Personalized Learning Authoring Product

Read article: http://mfeldstein.com/mcgraw-hills-new-personalized-learning-authoring-product/

BrainCert. ONLINE TRAINING MADE SIMPLE

Read article: https://www.braincert.com/bc/our-platform
Developing an Effective and Efficient eLearning Platform

Read article: http://ijcim.th.org/SpecialEditions/v12n2/pdf/p57-63-Firouz-Developing%20an%20Effective.pdf

eLearning Community Portal - EthosTM

Read article: http://www.sghealthit.com/services/elearning-portal-community-ethos.php
10 Minor Features That Can Make Or Break An eLearning Platform

Read article: http://www.teachthought.com/learning/blended-flipped-learning/10-minorfeatures-that-can-make-or-break-an-elearning-platform/

Impact at Scale: The Learning Platform Series

Read article: http://gettingsmart.com/2015/02/impact-scale-learningplatform-series/
Secure E-Learning and Knowledge Management for Government

Read article: http://www.kmsi.us/ntis_solution.htm#sthash.UI2DY2ky.dpuf

No More Pencils, No More Books

Read article: http://www.slate.com/articles/technology/technology/2015/10/adaptive_learning_software_is_replacing_textbooks_and_upending_american.html
Adaptive Learning Platforms: Creating a Path for Success

Read article: http://er.educause.edu/articles/2016/3/adaptive-learning-platforms-creating-a-path-for-success

Adaptive Learning: Are We There Yet?

Read article: https://thejournal.com/Articles/2014/05/14/Adaptive-Learning-Are-We-There-Yet.aspx?Page=4
Adaptive Learning: The Real Revolution in Online Learning

Read article: [http://www.eduventures.com/2015/03/adaptive-learning-the-real-revolution/](http://www.eduventures.com/2015/03/adaptive-learning-the-real-revolution/)

Developing an Innovation Ecosystem for Education

Educational Ecosystems: A Trend in Urban Educational Innovation

Market Principles
- Infusion of market values and logic in education sector
- Informing pedagogy and practice

Educational Ecosystems
- Trend: Increasing diversity of educational service providers and actors
- Greater interaction and collaboration b/w public/private entities in education sector

Education Technologies
- Specific innovations, such as education technologies and other tangibles, are produced for pedagogical use
- Certain advantages include greater student engagement and diversified pedagogy

Read article: http://www.urbanedjournal.org/archive/volume-12-issue-1-spring-2015/educational-ecosystems-trend-urban-educational-innovation

From Innovation Clusters to Datapalooza: Accelerating Innovation in Educational Technology

Read article: http://er.educause.edu/articles/2012/11/from-innovation-clusters-to-datapalooza-accelerating-innovation-in-educational-technology
Global Educational Ecosystem

Educational ecosystem is driving Philadelphia entrepreneurship

Read article: http://www.xilinx.com/about/community-engagement/educational-ecosystem.html

Read article: http://link.springer.com/chapter/10.1007%2F978-94-6209-749-0_1
The Current Ecosystem of Learning Management Systems in Higher Education: Student, Faculty, and IT Perspectives

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A New Model: Schools As Ecosystems

Read article: http://www.chalkbeat.org/posts/ny/2012/02/06/a-new-model-schools-as-ecosystems/#.Vyh1zFgri8o
Blending Learning with Social Technology Components


The Decade Ahead in Higher EdTech

Read article: http://www.masmithers.com/2010/01/the-decade-ahead-in-higher-edtech/
Cultivating Interconnections for Vibrant and Equitable Learning Ecosystems

Learning Ecosystem = A network of relationships among learning agents, learners, resources, and assets in a specific social, economic, and geographic context.

Read article: http://www.knowledgeworks.org/sites/default/files/interconnections-equitable-learning-ecosystems.pdf

Exploring the Future Education Workforce: New Roles for an Expanding Learning Ecosystem

Certifying Skills and Knowledge: Four Scenarios on the Future of Credentials

Read article: http://www.knowledgeworks.org/sites/default/files/certifying-skills-knowledge-future-credentials.pdf

The Future of Learning: Education in the Era of Partners in Code

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Cloud Based e-Learning Platforms: 10 Advantages eLearning Professionals Need To Know

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Communities Come Together to Support STEM Education

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The Finnish Educational Ecosystem

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3rd International Architectural Education Summit

Read article: http://www.ancb.de/sixcms/detail.php?id=9708635#.VyxX4Igri8o
An E-learning System Architecture based on Cloud Computing

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An Architecture for Web-based e-Learning Promoting Re-usable Adaptive Educational e-Content

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A New Architecture for Learning

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A General Architecture for the Integration of Educational Videogames in Standards-compliant Virtual Learning Environments

A PLATFORM FOR THE IMPLEMENTATION OF THE SERVICES OF AN EDUCATIONAL NETWORK


The Baghera project: a multi-agent architecture for human learning

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Educational Platform using Virtualization Technologies: Teaching-Learning Applications and Research Use Cases

An e-Learning Platform Based on Grid Architecture

Adaptive and intelligent web based education system: Towards an integral architecture and framework

Read article: [http://www.iis.sinica.edu.tw/JISE/2005/200509_06.pdf](http://www.iis.sinica.edu.tw/JISE/2005/200509_06.pdf)

The applied research of cloud computing platform architecture in the E-Learning area

A creative learning ecosystem, quality of education and innovative capacity: a perspective from higher education

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Understanding the effect of e-learning on individual performance: The role of digital literacy

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Exploring factors that influence adoption of e-learning within higher education

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