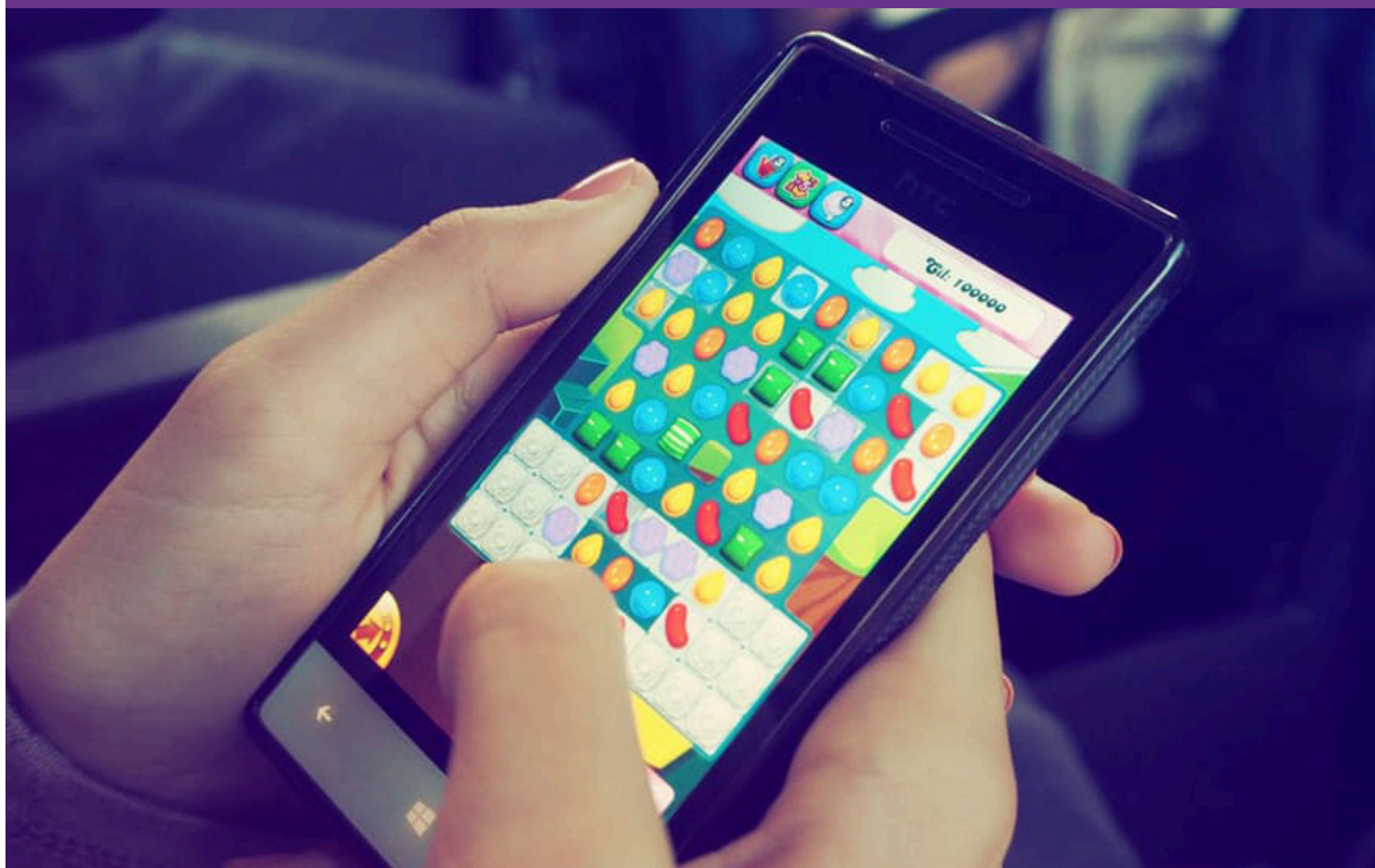


Learning Platforms



Editor: Pekka Neittaanmäki
Covers: Jarno Kiesiläinen

Copyright © 2016

Pekka Neittaanmäki, Elmira Galeieva, Anthony Ogbechie ja Jyväskylän yliopisto

ISBN 978-951-39-6924-0 (verkkoj.)
ISSN 2323-5004

Jyväskylä 2016

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.

Learning Platform

“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.*

List of Content

1. 5 Ways to Transform Distance Learning Content	7
2. Digital Education 2.0: From Content to Connection	7
3. Learning Ecosystem - Amplifying Student Engagement on Learning Management Platforms	8
4. The Learning Ecosystem: The Digital Revolution	8
5. Creating Long-Term Memories from Online Coursework by Strengthening Fragile Knowledge	9
6. A New Architecture for Learning	9
7. The Components of a Digital Age Learning Ecosystem	10
8. Building your corporate Digital Education Experiences	10
9. From LMS to Learning Ecosystems	11
10. A 'Learning Ecosystem' Approach to Ed-Tech Acquisition	11
11. Reaching Critical Mass: Promoting and Leveraging a Diverse Learning Ecosystem in Foundation Art and Design	12
12. The Solution Revolution in Education.....	12
13. Digital Teaching and Learning Ecosystem (DTLE): A Theoretical Approach for Online Learning Environments.	13
14. The Key to Digital Learning? Bring It into the Real World	13
15. Change the Paradigm: The Digital Revolution	14
16. The State of Digital Education Infographic	14
17. THE FACTS ABOUT DIGITAL AND BLENDED LEARNING.....	15
18. How Learning Will Work in the Near Future: 12 Features of Next-Gen Platforms	15
19. NEW DIGITAL ECOSYSTEM DEMANDS NEW WAYS OF LEARNING	16
20. Delivering the Learning Platform in Instructional Design.....	16
21. These Are The 5 Digital Learning Platforms That Will Change Education As We Know It	17
22. 5 Digital Platforms Leading the Future of Ed-Tech	17
23. Digital learning platforms transform education	18
24. The Benefits of Digital Learning Platforms	18
25. An Exhausted Sea of Digital Learning Platforms.....	19
26. How Digital Learning is Boosting Achievement	19

27. eLearning Technology in the Classroom	20
28. The Power of Platforms	20
29. What are Innovation Platforms	21
30. Deeper learning by design: what online education platforms can do	21
31. Building Innovation: Learning with technologies	22
32. TECHNOLOGY-RICH INNOVATIVE LEARNING ENVIRONMENTS.....	22
33. Towards a new-digital learning ecosystem based on autonomic Web services	23
34. NAVIGATING THE NEW LEARNING ECOSYSTEM	23
35. Regenerating the Learning Ecosystem	24
36. Digital Tools as a way to integrate an Entire Learning Ecosystems.....	24
37. Modelling open education learning ecosystem	25
38. Future-Gazing: What Learning Ecosystems Might Look Like By 2025.....	25
39. An Engaged and Engaging Mobile Learning Ecosystem	26
40. Savvy Spaces and Learning Ninjas! Designing an Adaptive Learning Ecosystem	26
41. The changing e-learning ecosystem and its future.....	27
42. Policy imperatives for creating pathways for digital learning in schools	27
43. The Digital Ecosystem Paradox – Learning to Move to Better Digital Design Outcomes	28
44. HOW TO KEEP LEARNING ECOSYSTEM (LE) SIMPLE	28
45. Join the platform revolution	29
46. LEARNING IS EARNING in the national learning economy	29
47. The Six Tech Advances In Higher Ed That Are Preparing Students For The Future Of Work.....	30
48. Udacity Says It Can Teach Tech Skills to Millions, and Fast	30
49. Virtual Training Company: Lifetime Subscription	31
50. Where Are They Now? Revisiting Breneman's Study of Liberal Arts Colleges	31
51. When Virtual Reality Meets Education.....	32
52. Why Clayton Christensen Is Wrong About Uber And Disruptive Innovation	32
53. Amazon eyes up education, plans a free platform for learning materials	33
54. Could Slack Be the Next Online Learning Platform?.....	33
55. How to Keep the Human Element in Online Classes	34

56. 12 Will this new 'socially assistive robot' from MIT Media Lab (or its progeny) replace teachers?.....	34
57. Online education platforms and apps by Blackboard.....	35
58. Choosing An Online Learning Platform: Which Makes Sense?.....	35
59. McGraw Hill's New Personalized Learning Authoring Product	36
60. BrainCert. ONLINE TRAINING MADE SIMPLE.....	36
61. Developing an Effective and Efficient eLearning Platform	37
62. eLearning Community Portal - EthosTM.....	37
63. 10 Minor Features That Can Make Or Break An eLearning Platform	38
64. Impact at Scale: The Learning Platform Series	38
65. Secure E-Learning and Knowledge Management for Government.....	39
66. No More Pencils, No More Books.....	39
67. Adaptive Learning Platforms: Creating a Path for Success.....	40
68. Adaptive Learning: Are We There Yet?.....	40
69. Adaptive Learning: The Real Revolution in Online Learning	41
70. Developing an Innovation Ecosystem for Education	41
71. Educational Ecosystems: A Trend in Urban Educational Innovation.....	42
72. From Innovation Clusters to Datapalooza: Accelerating Innovation in Educational Technology.....	42
73. Global Educational Ecosystem	43
74. Educational ecosystem' is driving Philadelphia entrepreneurship.....	43
75. The Current Ecosystem of Learning Management Systems in Higher Education: Student, Faculty, and IT Perspectives	44
76. A New Model: Schools As Ecosystems.....	44
77. Blending Learning with Social Technology Components.....	45
78. The Decade Ahead in Higher EdTech.....	45
79. Cultivating Interconnections for Vibrant and Equitable Learning Ecosystems	46
80. Exploring the Future Education Workforce: New Roles for an Expanding Learning Ecosystem	46
81. Certifying Skills and Knowledge: Four Scenarios on the Future of Credentials.....	47
82. The Future of Learning: Education in the Era of Partners in Code	47

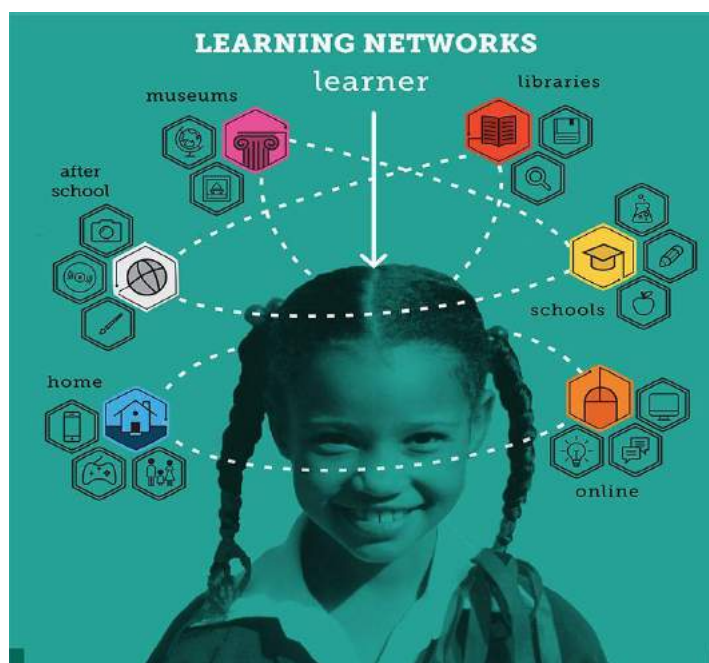
83. Cloud Based e-Learning Platforms: 10 Advantages eLearning Professionals Need To Know	48
84. Communities Come Together to Support STEM Education.....	48
85. The Finnish Educational Ecosystem	49
86. 3rd International Architectural Education Summit	49
87. An E-learning System Architecture based on Cloud Computing	50
88. An Architecture for Web-based e-Learning Promoting Re-usable Adaptive Educational e-Content	50
89. A New Architecture for Learning	51
90. A General Architecture for the Integration of Educational Videogames in Standards-compliant Virtual Learning Environments	51
91. A PLATFORM FOR THE IMPLEMENTATION OF THE SERVICES OF AN EDUCATIONAL NETWORK.....	52
92. The Baghera project: a multi-agent architecture for human learning	52
93. Educational Platform using Virtualization Technologies: Teaching-Learning Applications and Research Use Cases.....	53
94. An e-Learning Platform Based on Grid Architecture	54
95. Adaptive and intelligent web based education system: Towards an integral architecture and framework.....	54
96. The applied research of cloud computing platform architecture in the E-Learning area	55
97. A creative learning ecosystem, quality of education and innovative capacity: a perspective from higher education	56
98. The New Challenges for E-learning: The Educational Semantic Web	56
99. Understanding the effect of e-learning on individual performance: The role of digital literacy.....	57
100. Exploring factors that influence adoption of e-learning within higher education	57

Learning Ecosystem - Amplifying Student Engagement on Learning Management Platforms



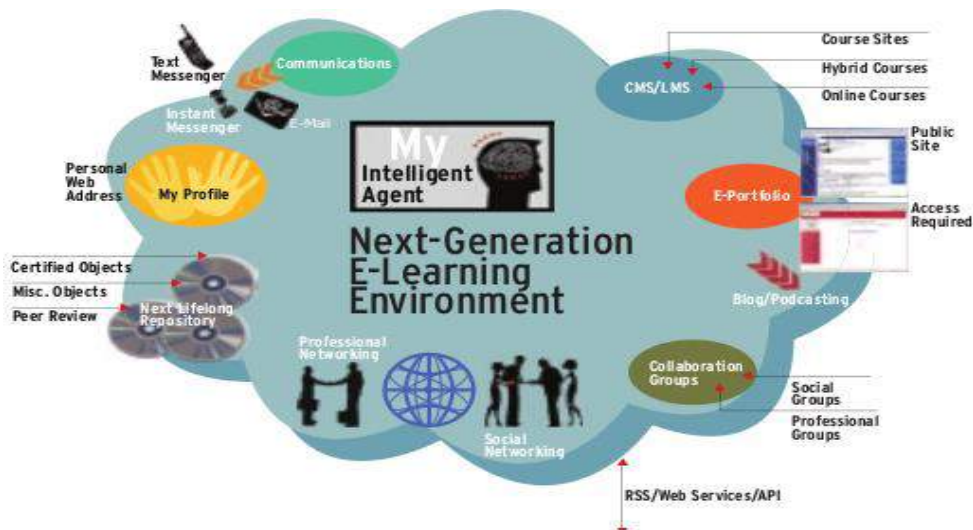
Read article: <https://www.linkedin.com/pulse/learning-ecosystem-amplifying-student-engagement-arvind-thothadri>

The Learning Ecosystem: The Digital Revolution



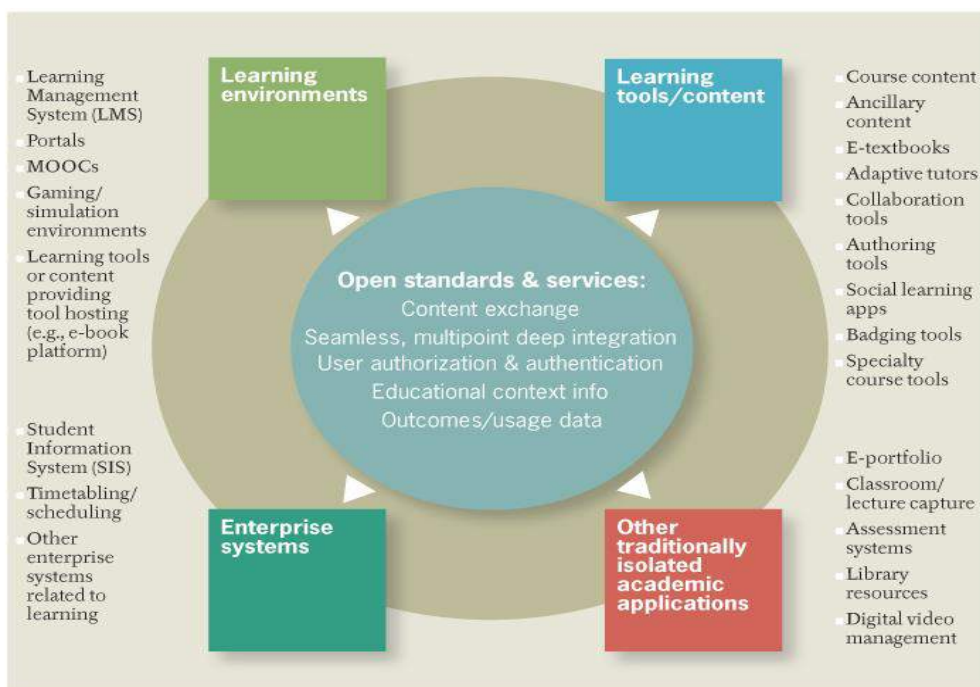
Read article: <http://csreports.aspeninstitute.org/Task-Force-on-Learning-and-the-Internet/2014/report/details/0046/Task-Force-Introduction-and-Challenges>

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



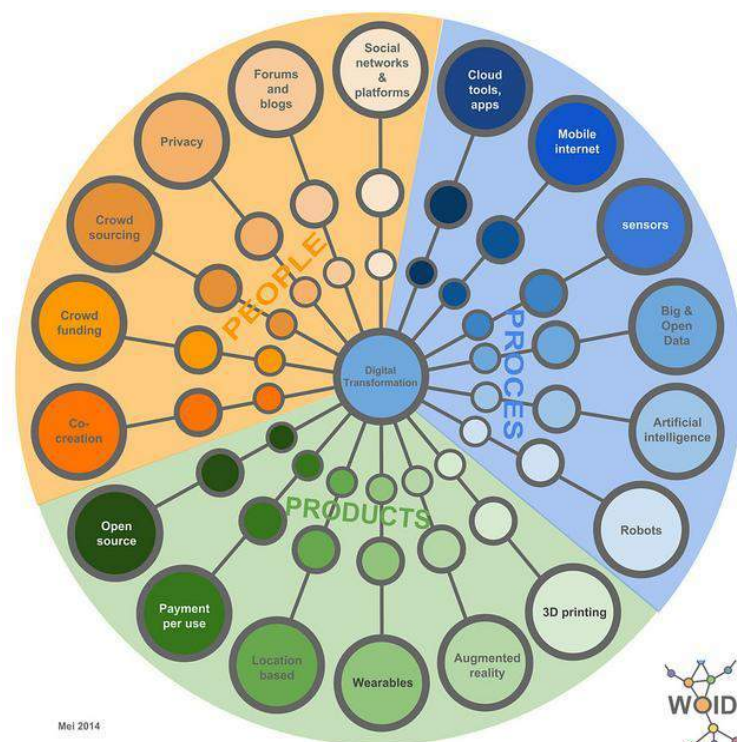
Read article: <http://er.educause.edu/articles/2013/10/a-new-architecture-for-learning>

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



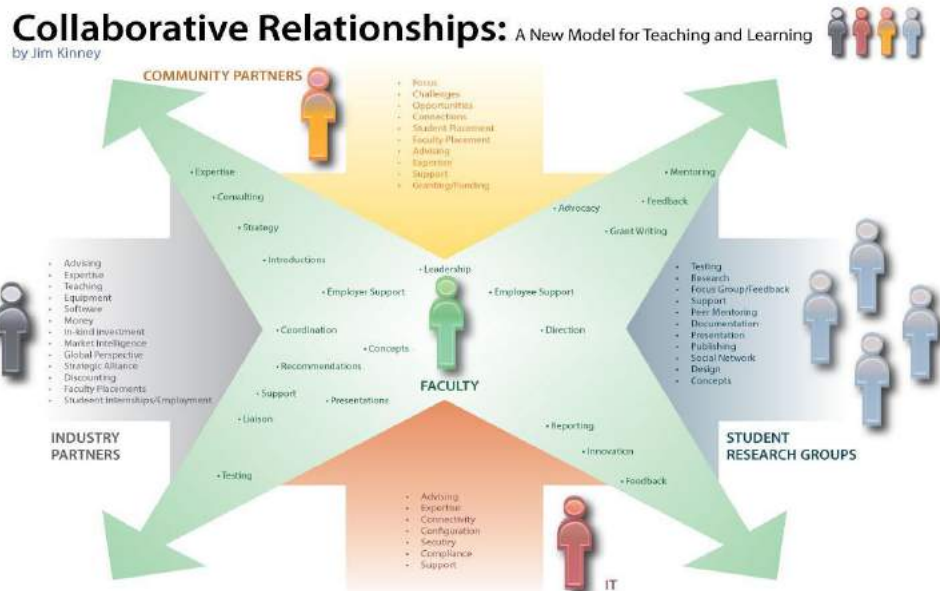
Read article: <http://gettingsmart.com/2012/06/from-lms-learning-ecosystems/>

A 'Learning Ecosystem' Approach to Ed-Tech Acquisition



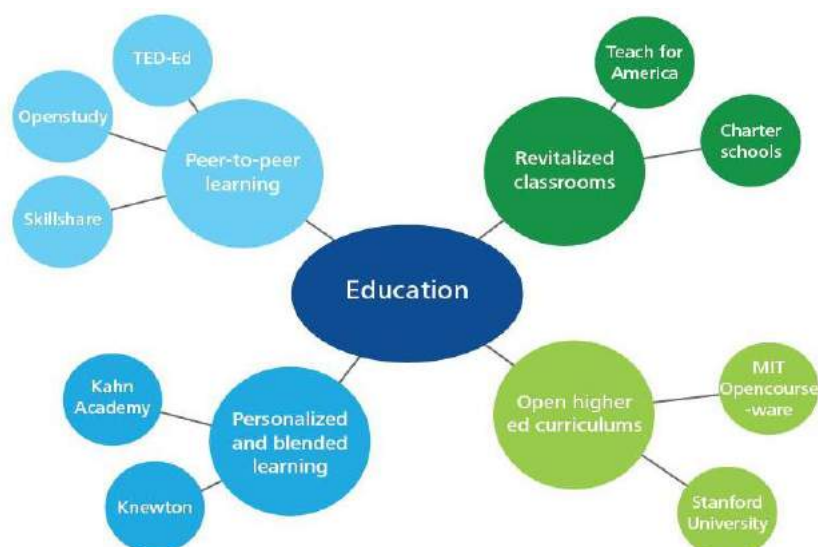
Read article: <http://digitalpromise.org/2014/11/13/a-learning-ecosystem-approach-to-ed-tech-acquisition/>

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



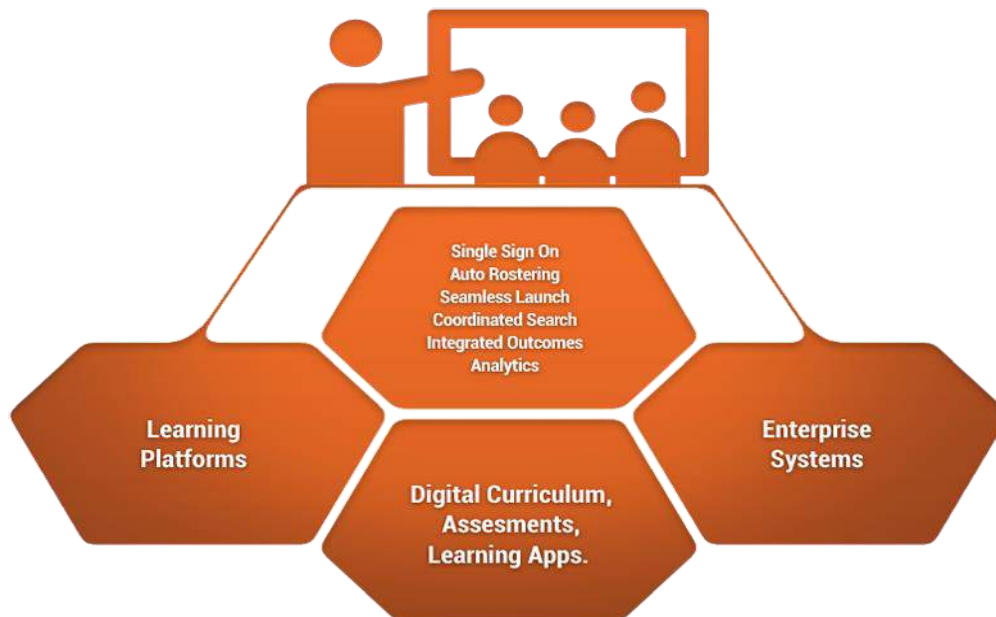
Read article: <http://blogs.adobe.com/educationleaders/2014/02/reaching-critical-mass-promoting-and-leveraging-a-diverse-learning-ecosystem-in-foundation-art-and-design.html>

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.



Read article:

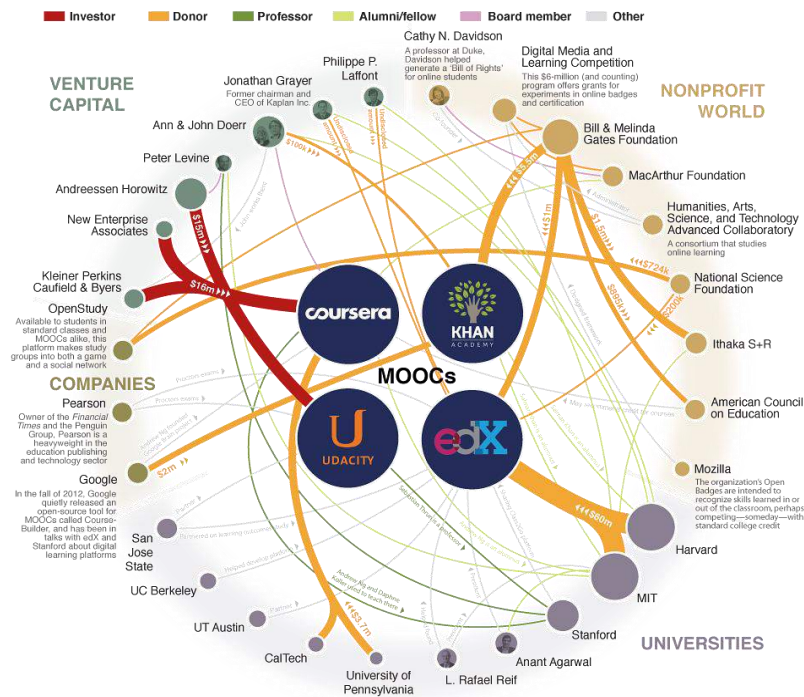
<http://www.ascilite.org/conferences/hobart11/downloads/papers/Reyna-concise.pdf>

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



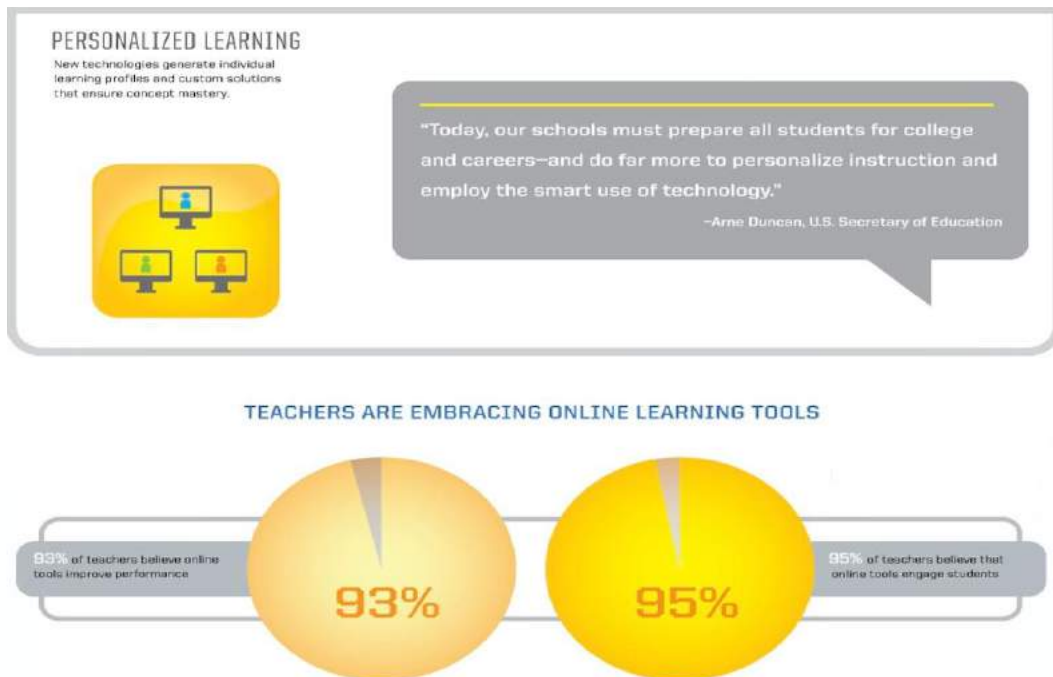
Read article: <http://www.wired.com/2015/08/key-digital-learning-bring-real-world>

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



Read article:

<https://www.edreform.com/wpcontent/uploads/2014/02/DigitalLearningToolkit2014.pdf>

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



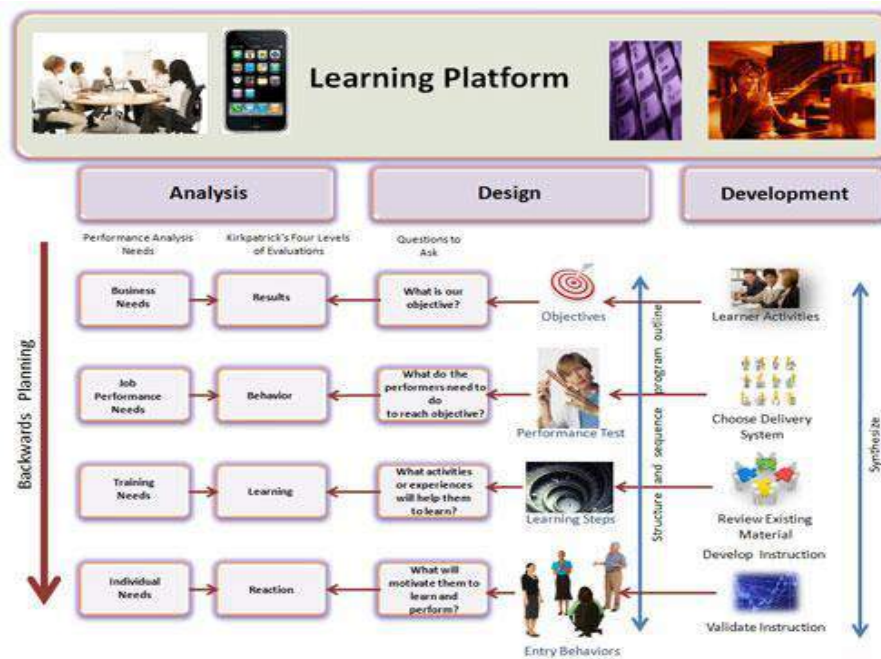
Read article: <http://gettingsmart.com/2015/01/learning-will-work-near-future-12-features-next-gen-platforms/>

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



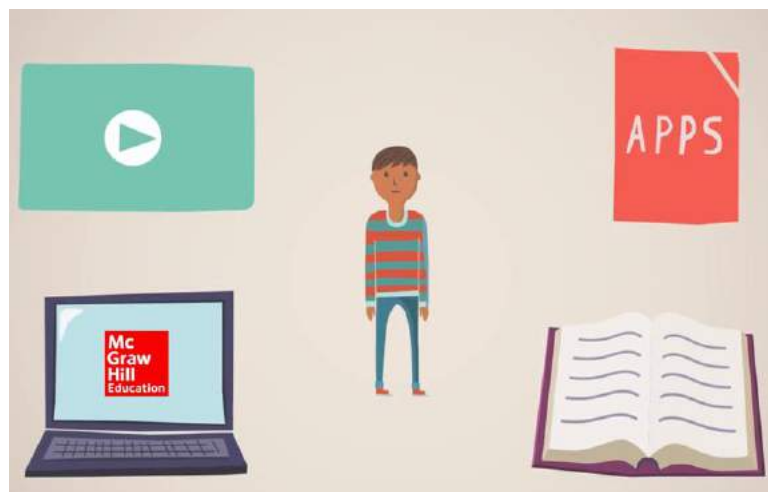
Read article: <http://www.nwlink.com/~donclark/hrd/sat5.html>

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>

5 Digital Platforms Leading the Future of Ed-Tech



Read article: <https://www.mheducation.com/blog/product-updates/5-digital-platforms-leading-future-ed-tech.html>

Digital learning platforms transform education



Read article:

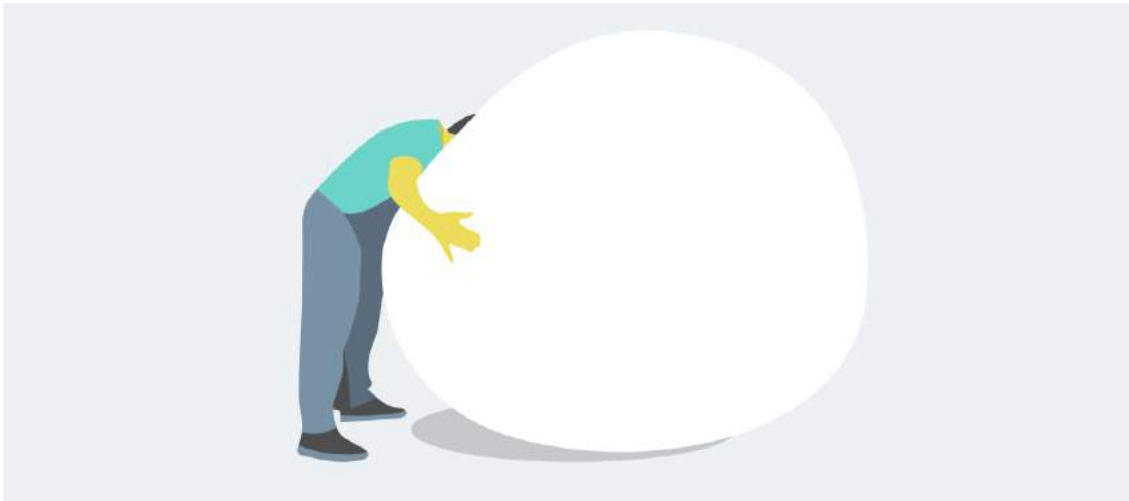
<http://www.theaustralian.com.au/business/technology/opinion/digital-learning-platforms-transform-education/news-story/7444cb4a32827454944bf1531be3bfbb>

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/>

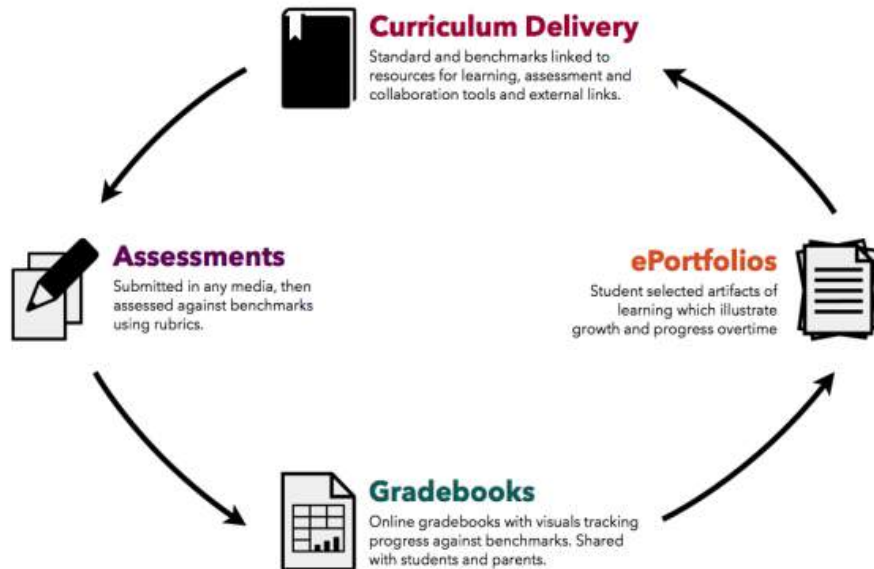
How Digital Learning is Boosting Achievement



Read article: <http://gettingsmart.com/2014/03/how-digital-learning-is-boosting-achievement/>

eLearning Technology in the Classroom

Key aspects of a Learning Platform



Read article: <http://institute-of-progressive-education-and-learning.org/elearning-part-ii/classroom-infrastructure/>

The Power of Platforms



Read article: <http://dupress.com/articles/platform-strategy-new-level-business-trends/>

What are Innovation Platforms



Read article: <http://r4d.dfid.gov.uk/pdf/outputs/WaterfoodCP/Brief1.pdf>

Deeper learning by design: what online education platforms can do



Read article: <http://theconversation.com/deeper-learning-by-design-what-online-education-platforms-can-do-9803>

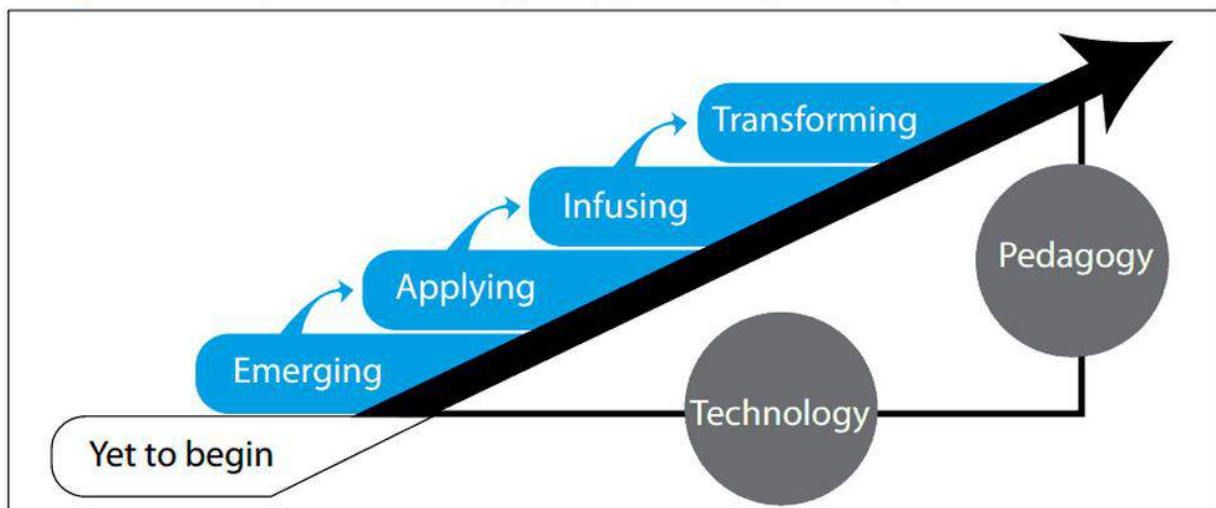
Building Innovation: Learning with technologies



Read article:

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

TECHNOLOGY-RICH INNOVATIVE LEARNING ENVIRONMENTS



Read article: <http://www.oecd.org/edu/ceri/Technology-Rich%20Innovative%20Learning%20Environments%20by%20Jennifer%20Groff.pdf>

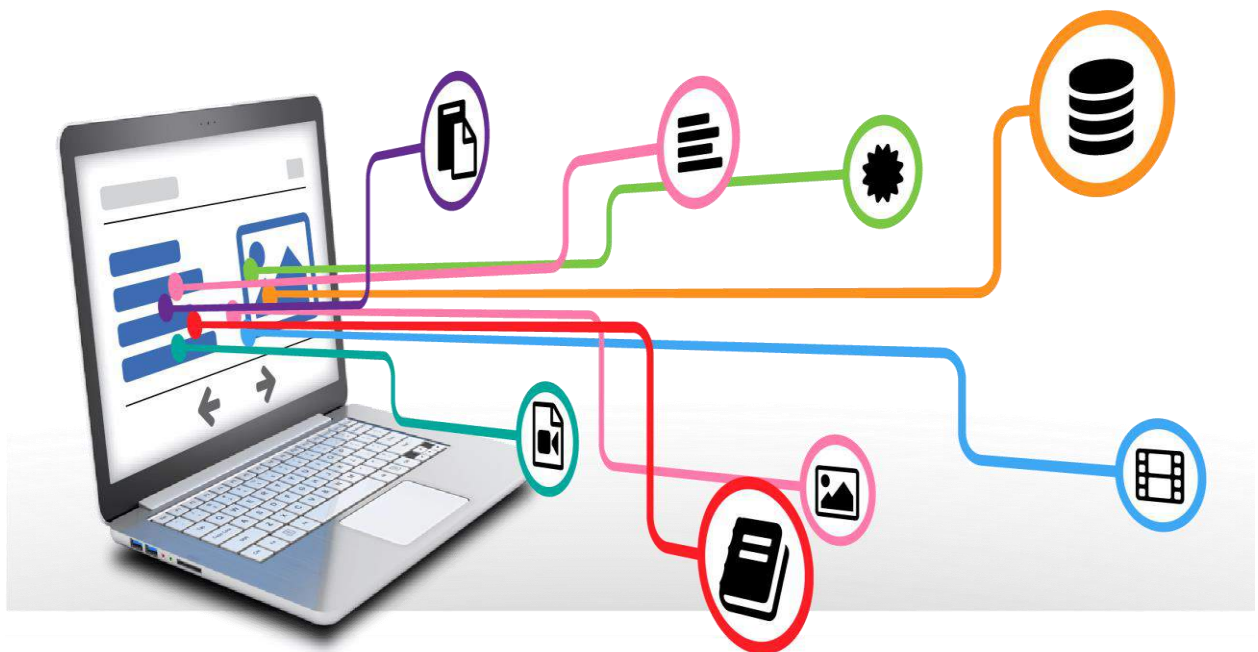
Towards a new-digital learning ecosystem based on autonomic Web services



Read article:

<http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5610651&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Ficp.jsp%3Farnumber%3D5610651>

NAVIGATING THE NEW LEARNING ECOSYSTEM



Read article: <https://net.educause.edu/ir/library/pdf/ELI7084.pdf>

Regenerating the Learning Ecosystem



Read article: http://knowledgeworks.org/sites/default/files/Forecast3_0_0.pdf

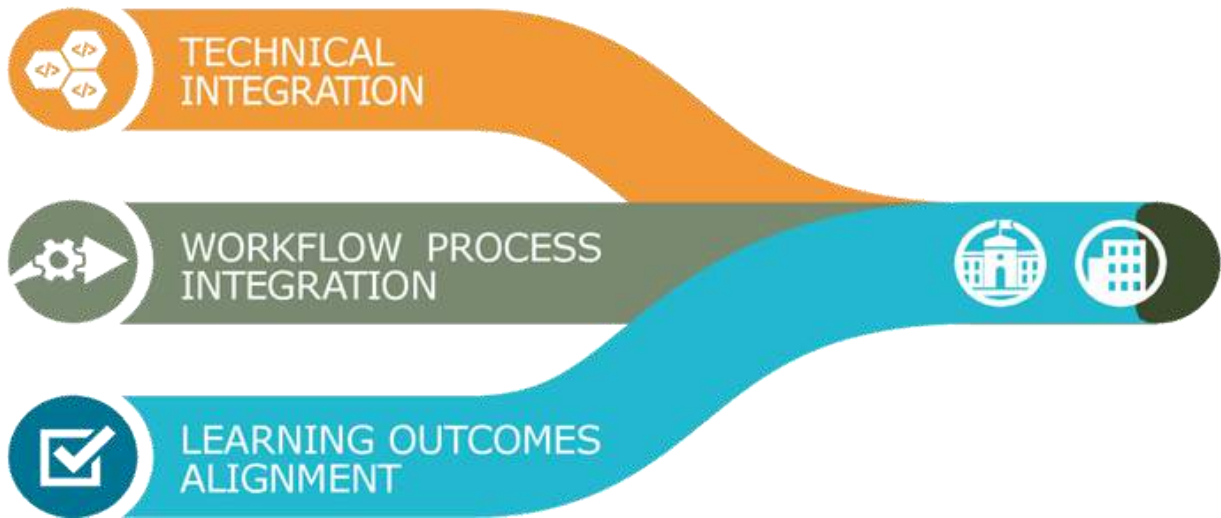
Digital Tools as a way to integrate an Entire Learning Ecosystems



Read article:

<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



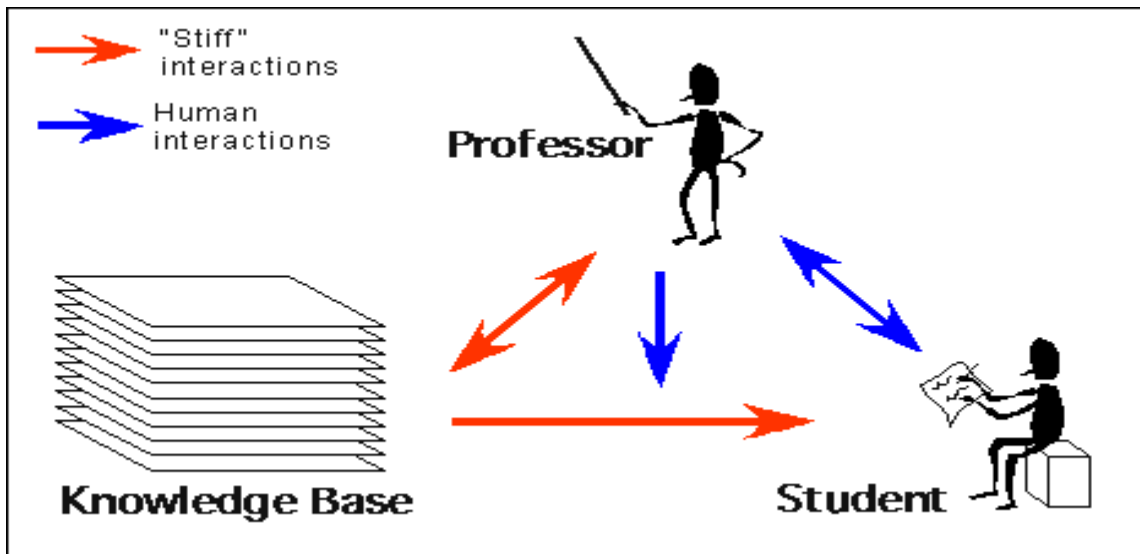
Read article: <http://elearnmag.acm.org/archive.cfm?aid=2627709>

Savvy Spaces and Learning Ninjas! Designing an Adaptive Learning Ecosystem



Read article: <http://www.districtadministration.com/dod/awards/Savvy-Spaces-Learning-Ninjas-Designing-Adaptive-Learning>

The changing e-learning ecosystem and its future



Read article:

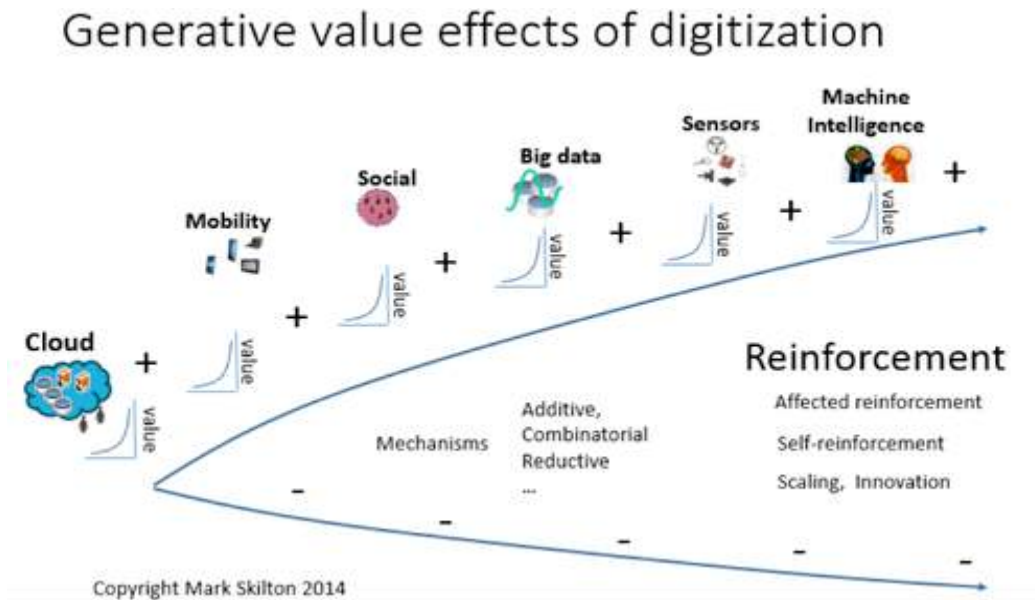
http://www.itweb.co.za/index.php?option=com_content&view=article&id=149010

Policy imperatives for creating pathways for digital learning in schools



Read articles: http://articles.economictimes.indiatimes.com/2016-02-01/news/70252566_1_digital-learning-learners-new-education-policy

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



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



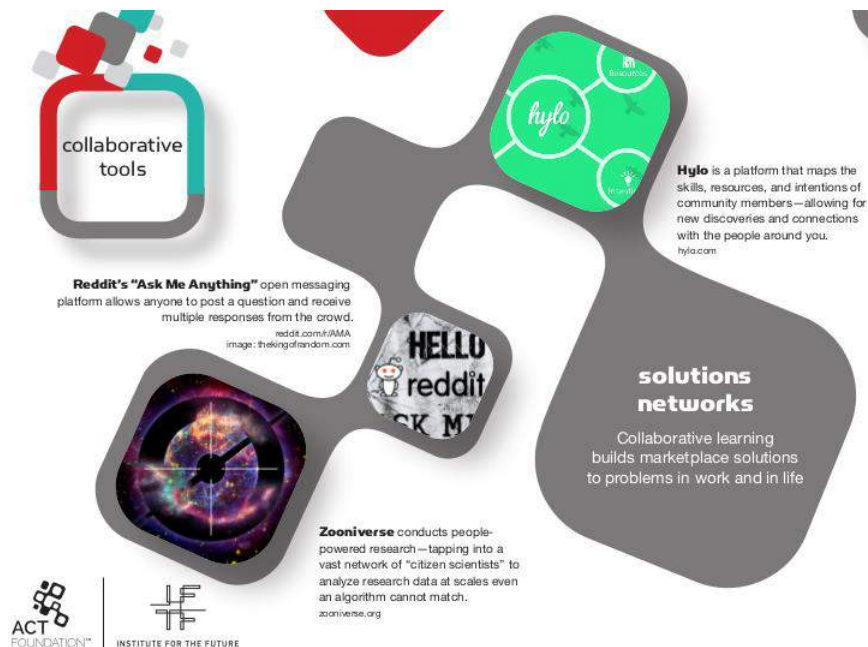
Read article: <http://svetlanaosipova.com/learning-ecosystem/how-to-keep-learning-ecosystem-le-simple/>

Join the platform revolution



Read article: http://executive.mit.edu/blog/join-the-platform-revolution?utm_source=twitter&utm_medium=social&utm_campaign=pla=blog&utm_date=apr16#.VycBbVgr18q

LEARNING IS EARNING in the national learning economy



Read article: http://www.iftf.org/fileadmin/user_upload/downloads/learning/IFTF_ACT_LearningIsEarning_ResearchMap.pdf

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



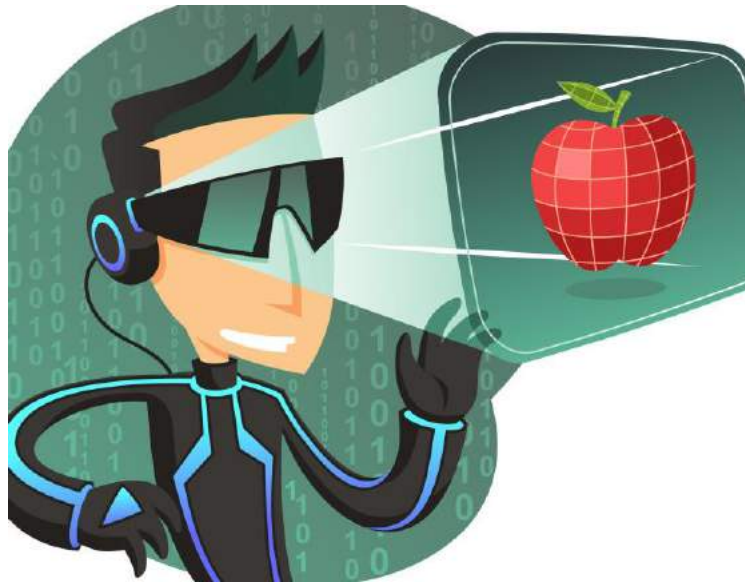
Read article: <http://www.fastcompany.com/3057576/the-future-of-work/the-six-tech-advances-in-higher-ed-that-are-preparing-students-for-the-fu?partner=rss>

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



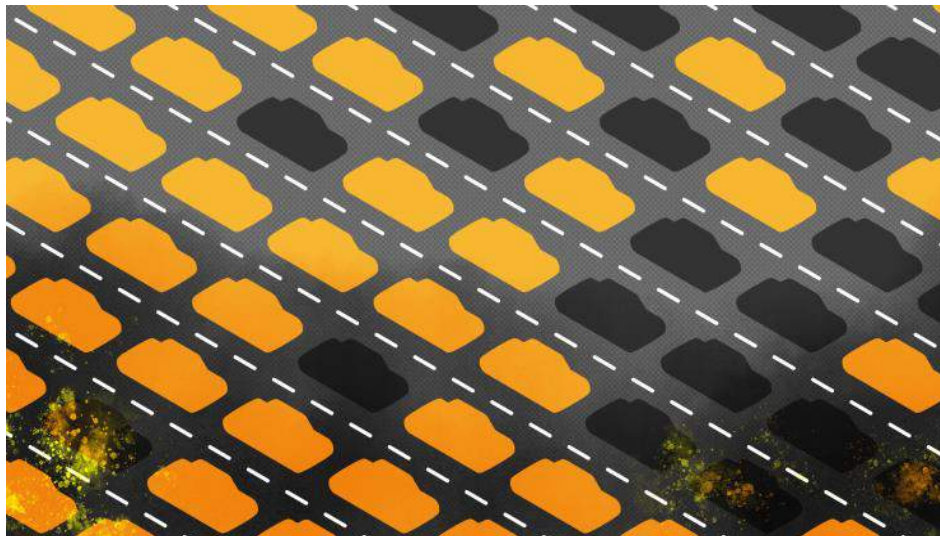
Read article: <http://platformvaluenow.org/udacity-says-it-can-teach-tech-skills-to-millions-and-fast-2/>

When Virtual Reality Meets Education



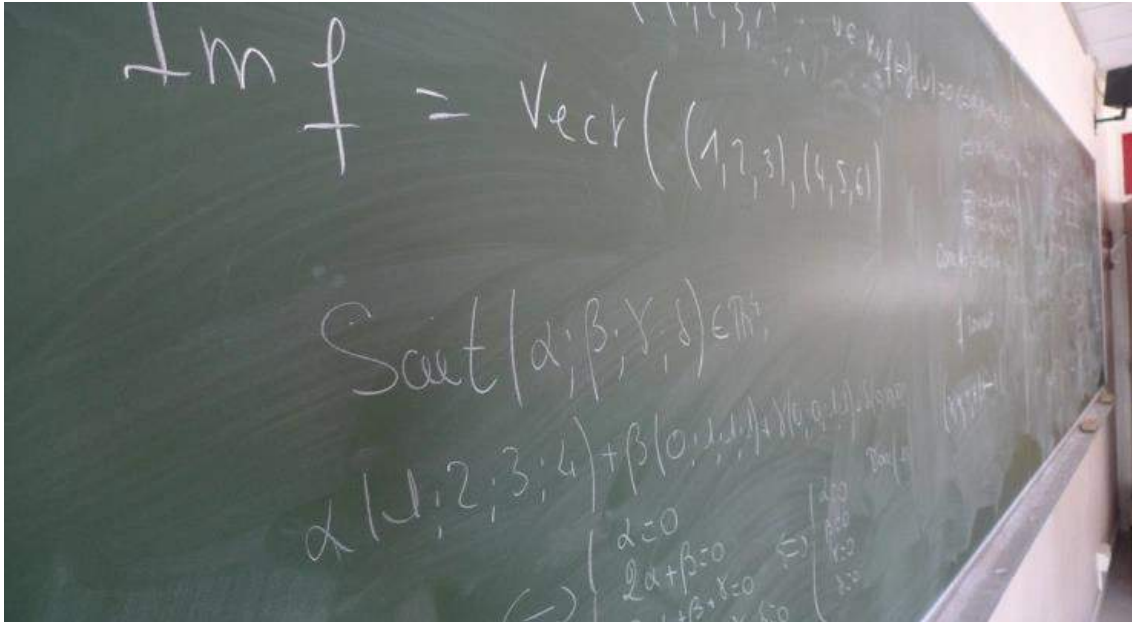
Read article: <http://techcrunch.com/2016/01/23/when-virtual-reality-meets-education/>

Why Clayton Christensen Is Wrong About Uber And Disruptive Innovation



Read article: [http://techcrunch.com/2016/02/27/why-clayton-christensen-is-wrong-about-uber-and-disruptive-innovation/?utm_source=So+it+Goes.&utm_campaign=d51791f37c-Weekly Newsletter Mar 20 2016&utm_medium=email&utm_term=0_d7a3713cab-d51791f37c-299583805](http://techcrunch.com/2016/02/27/why-clayton-christensen-is-wrong-about-uber-and-disruptive-innovation/?utm_source=So+it+Goes.&utm_campaign=d51791f37c-Weekly+Newsletter+Mar+20+2016&utm_medium=email&utm_term=0_d7a3713cab-d51791f37c-299583805)

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



Read article: <http://techcrunch.com/2016/03/11/amazon-eyes-up-education-plans-a-free-platform-for-learning-materials/>

Could Slack Be the Next Online Learning Platform?



Read article: <https://www.edsurge.com/news/2016-03-04-could-slack-be-the-next-online-learning-platform>

How to Keep the Human Element in Online Classes



Read article: <https://www.edsurge.com/news/2016-04-27-how-to-keep-the-human-element-in-online-classes>

12 Will this new 'socially assistive robot' from MIT Media Lab (or its progeny) replace teachers?



Read article: http://www.kurzweilai.net/will-this-new-socially-assistive-robot-from-mit-media-lab-or-its-progeny-replace-teachers?utm_source=KurzweilAI+Daily+Newsletter&utm_campaign=4863b5627f-UA-946742-1&utm_medium=email&utm_term=0_6de721fb33-4863b5627f-281889705

Online education platforms and apps by Blackboard



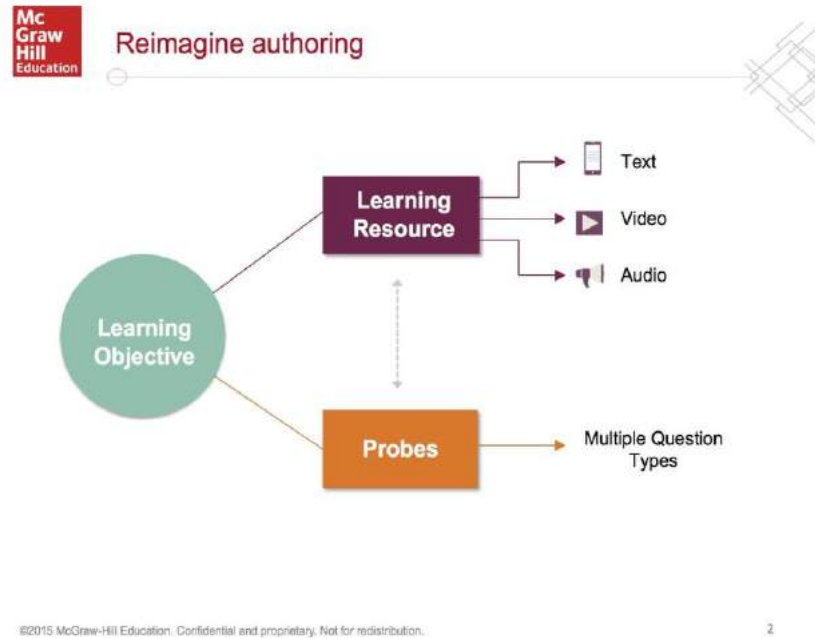
Read article: <http://www.blackboard.com/products.aspx>,
<http://go.blackboard.com/IntroducingNLE?elqTrackId=8ff41e5d00174f8d98a3adc9a467f8c8&elqaid=5380&elqat=2>

Choosing An Online Learning Platform: Which Makes Sense?



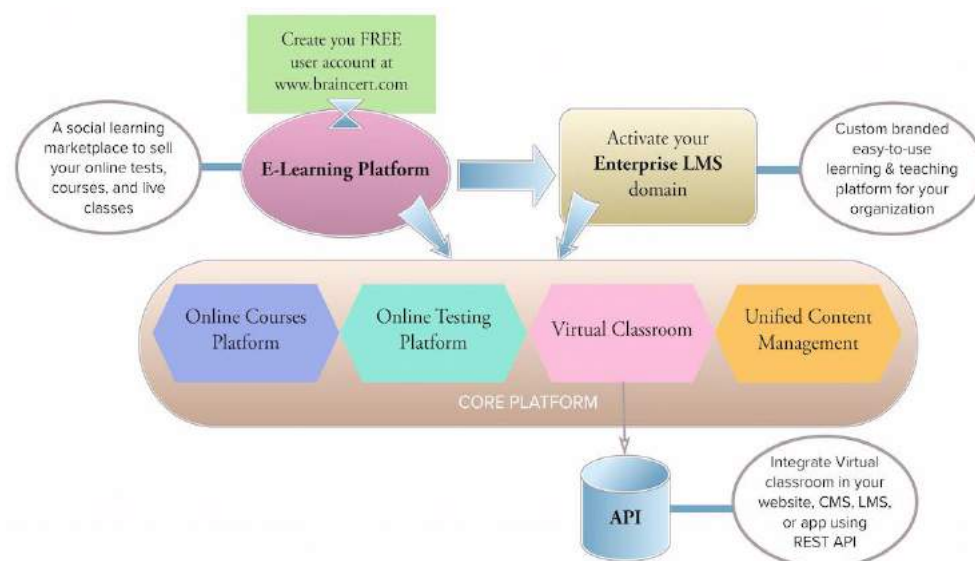
Read article: <http://elearningindustry.com/choosing-online-learning-platform-makes-sense>

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



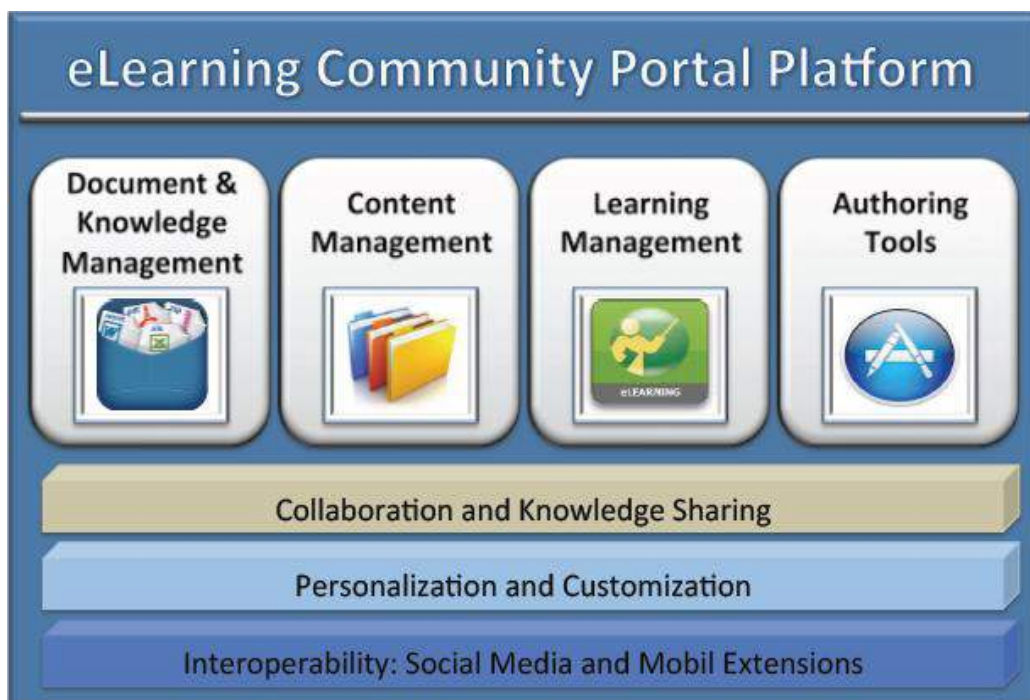
Read article: <https://www.braincert.com/bc/our-platform>

Developing an Effective and Efficient eLearning Platform



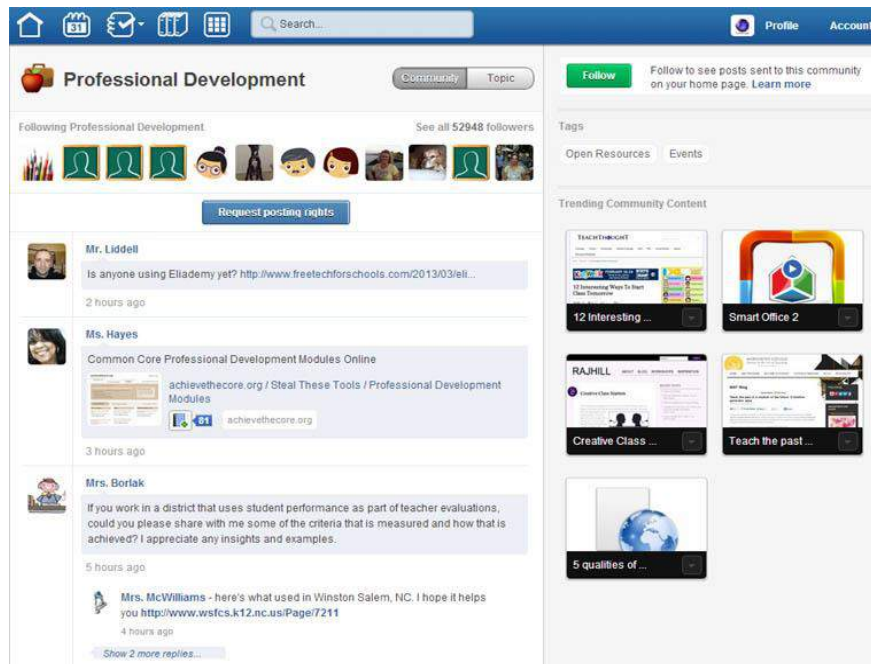
Read article: <http://ijcim.th.org/SpecialEditions/v12n2/pdf/p57-63-Firouz-Developing%20an%20Effective.pdf>

eLearning Community Portal - Ethos™



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



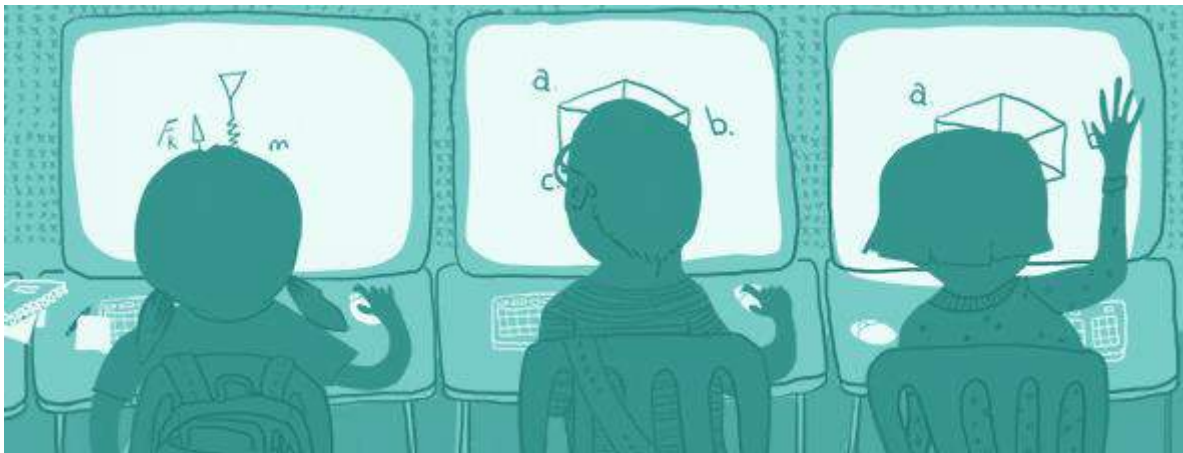
Read article: <http://gettingsmart.com/2015/02/impact-scale-learningplatform-series/>

Secure E-Learning and Knowledge Management for Government



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

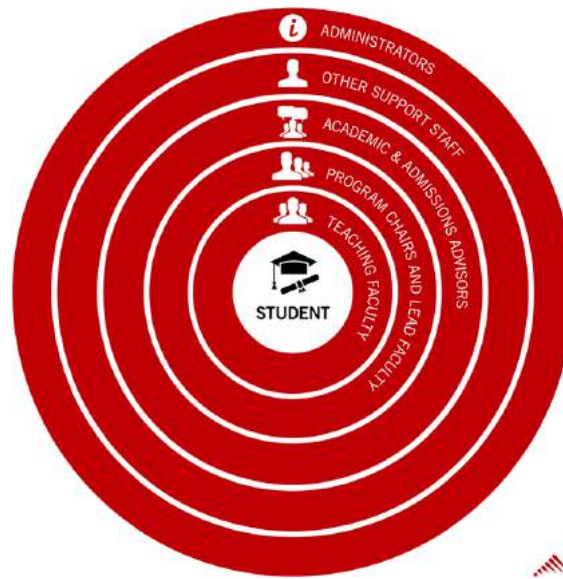
No More Pencils, No More Books



Read article:

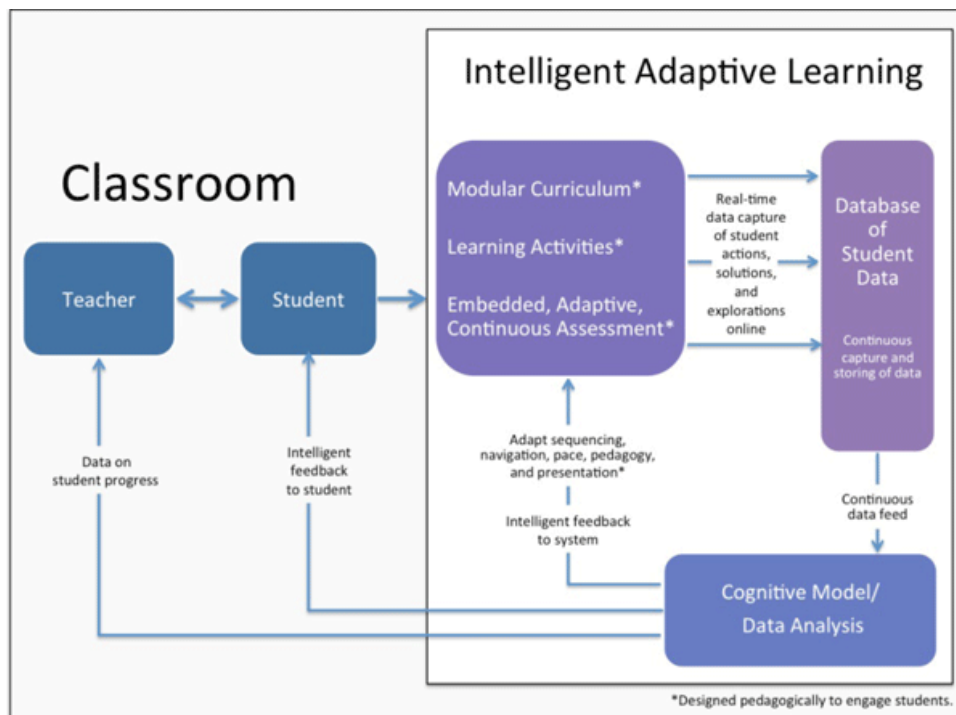
http://www.slate.com/articles/technology/technology/2015/10/adaptive_learning_software_is_replacing_textbooks_and_upending_american.html

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?



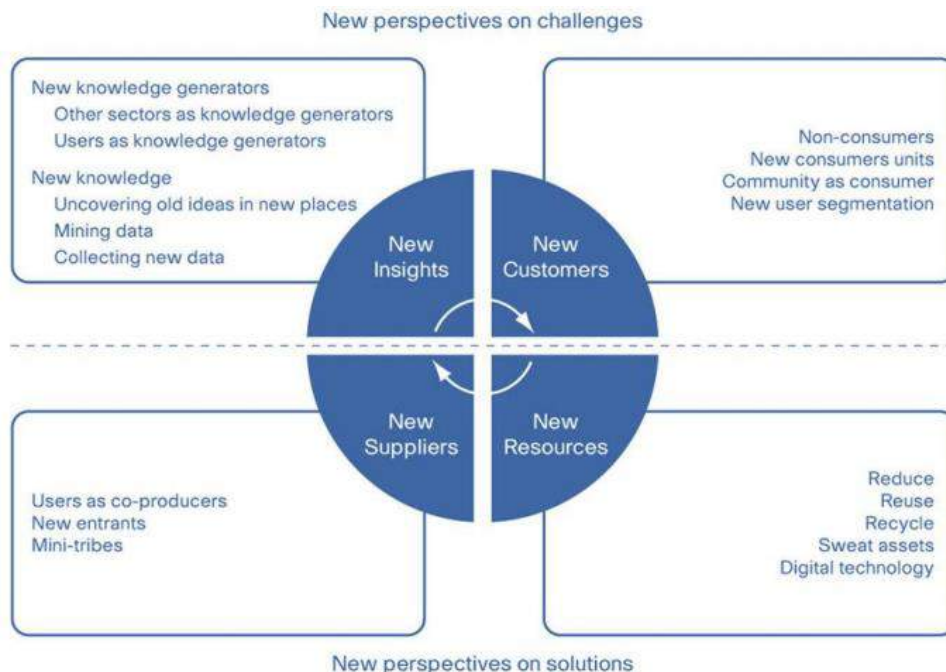
Read article: <https://thejournal.com/Articles/2014/05/14/Adaptive-Learning-Are-We-There-Yet.aspx?Page=4>

Adaptive Learning: The Real Revolution in Online Learning



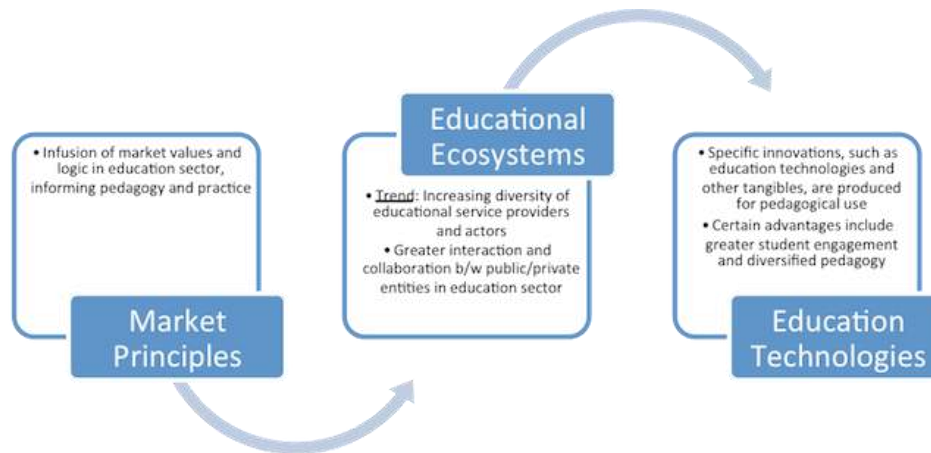
Read article: <http://www.eduventures.com/2015/03/adaptive-learning-the-real-revolution/>

Developing an Innovation Ecosystem for Education



Read article: http://www.cisco.com/c/dam/en_us/solutions/industries/docs/education/eco-system_for_edu.pdf

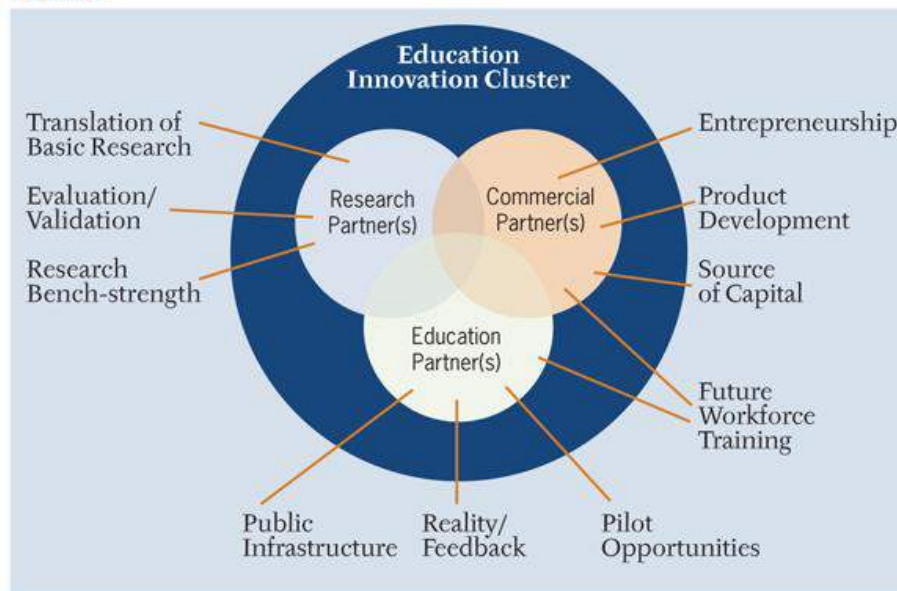
Educational Ecosystems: A Trend in Urban Educational Innovation



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

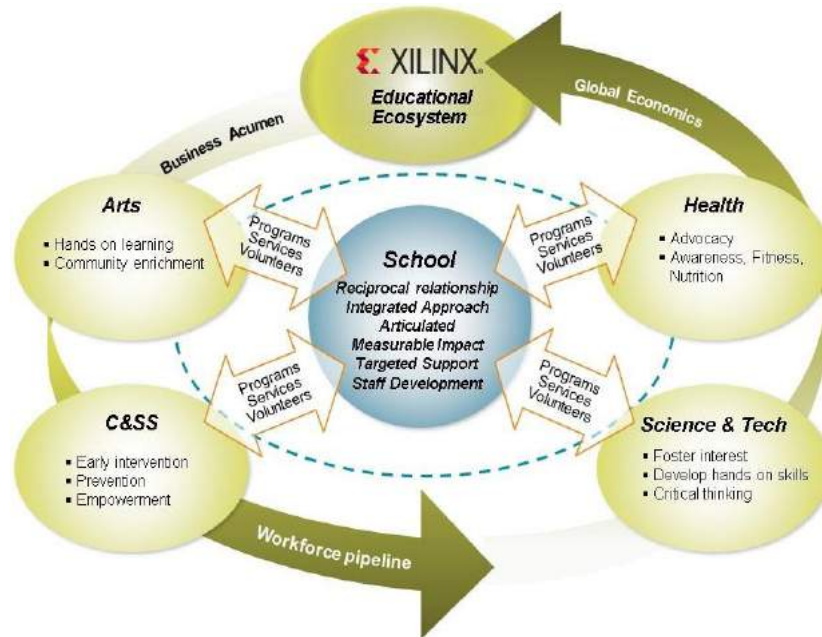
From Innovation Clusters to Datapalooza: Accelerating Innovation in Educational Technology

FIGURE 2



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

Global Educational Ecosystem



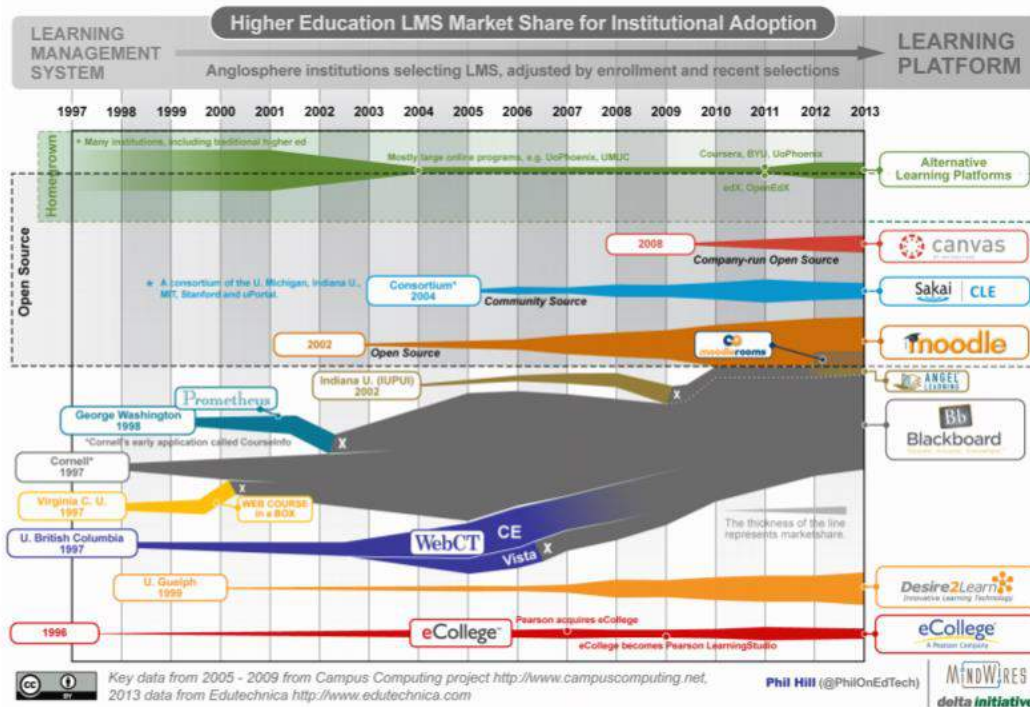
Read article: <http://www.xilinx.com/about/community-engagement/educational-ecosystem.html>

Educational ecosystem' is driving Philadelphia entrepreneurship



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



Read article: <https://net.educause.edu/ir/library/pdf/ers1414.pdf>

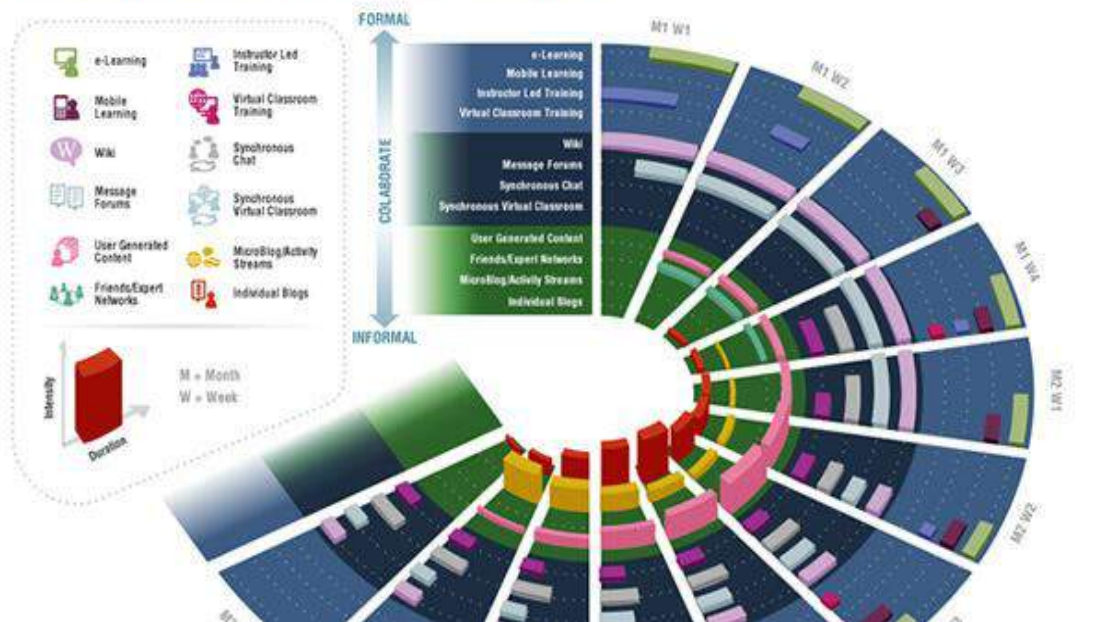
A New Model: Schools As Ecosystems



Read article: <http://www.chalkbeat.org/posts/ny/2012/02/06/a-new-model-schools-as-ecosystems/#.Vyh1zFgri8o>

Blending Learning with Social Technology Components

Blending Learning - Formal to Informal



Read article:

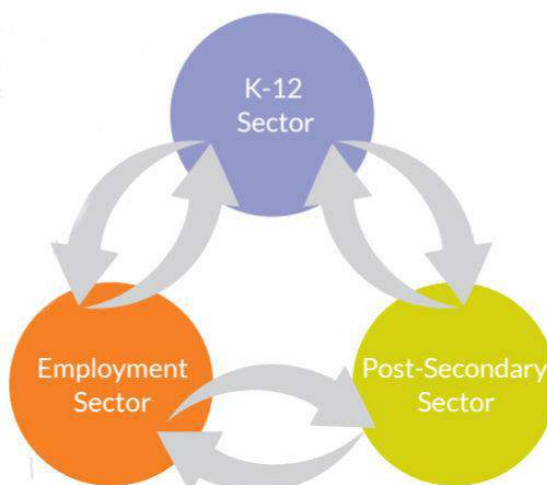
<https://www.upsidelearning.com/blog/index.php/2009/12/22/blending-learning-with-social-technology-components/>

The Decade Ahead in Higher EdTech



Read article: <http://www.masmithers.com/2010/01/the-decade-ahead-in-higher-edtech/>

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

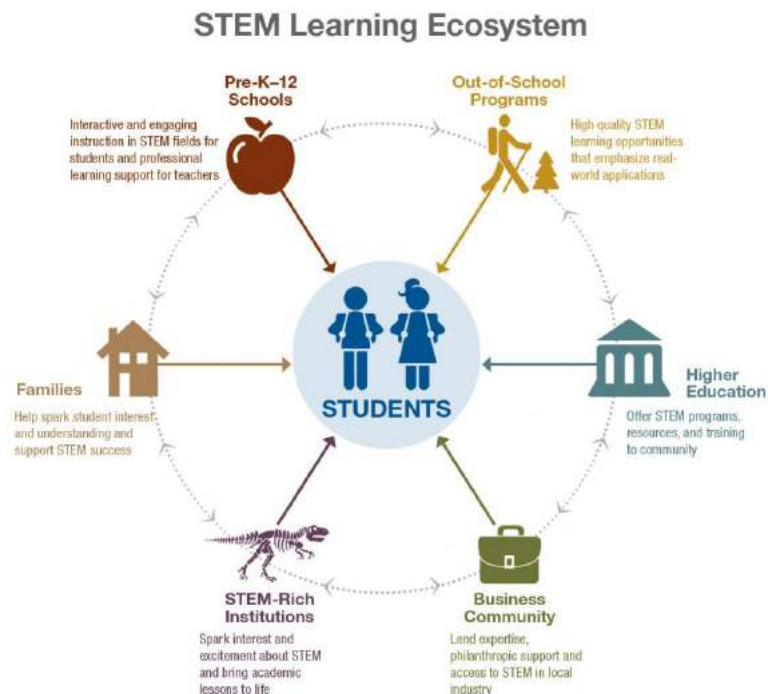
Read article: <http://www.knowledgeworks.org/sites/default/files/forecast-4-future-learning-education-partners-code.pdf>

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



Read article: <https://www.docebo.com/2015/11/26/cloud-based-elearning-platforms-10-advantages-elearning-professionals-need-to-know/>

Communities Come Together to Support STEM Education



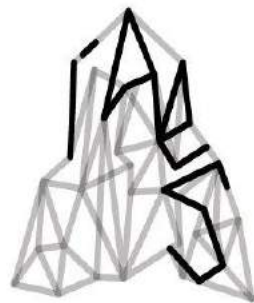
Read article: <http://innovation.ed.gov/2015/11/19/communities-come-together-to-support-stem-education/>

The Finnish Educational Ecosystem



Read article: http://www.cicero.fi/files/Cicero/site/2121-finnish-innovations-and-technologies-in-schools_ToC.pdf

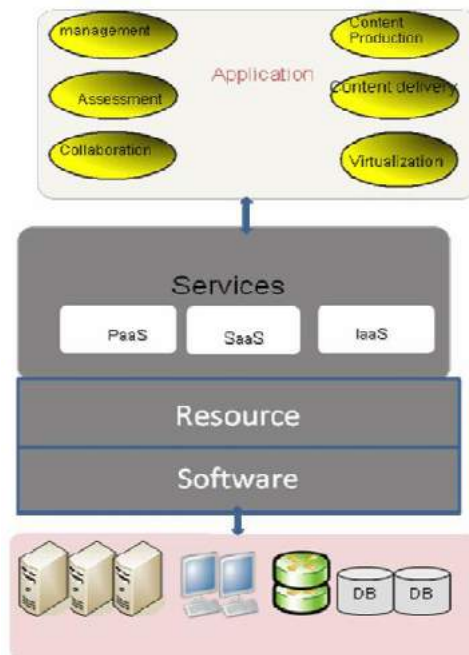
3rd International Architectural Education Summit



**international architectural
education summit**

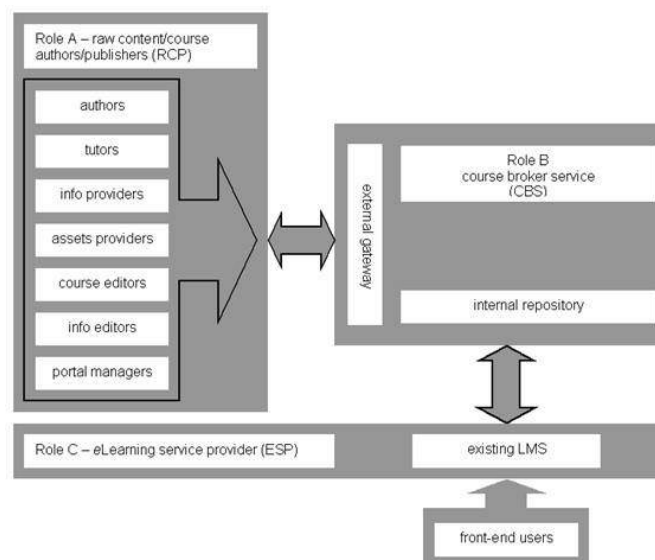
Read article: <http://www.ancb.de/sixcms/detail.php?id=9708635#.VyxX4lgrl8o>

An E-learning System Architecture based on Cloud Computing



Read article: <http://waset.org/publications/1057/an-e-learning-system-architecture-based-on-cloud-computing>

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



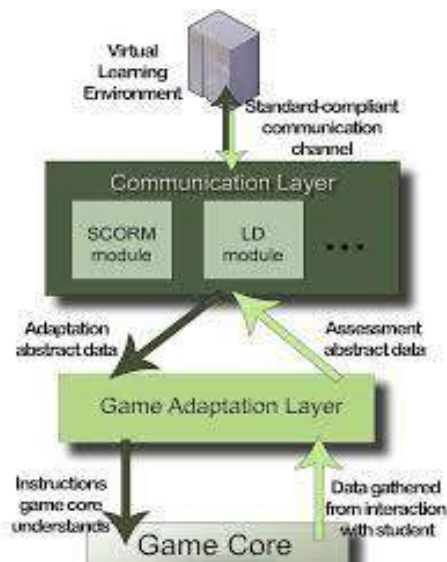
Read article: http://www.ifets.info/journals/5_4/sampson.html

A New Architecture for Learning



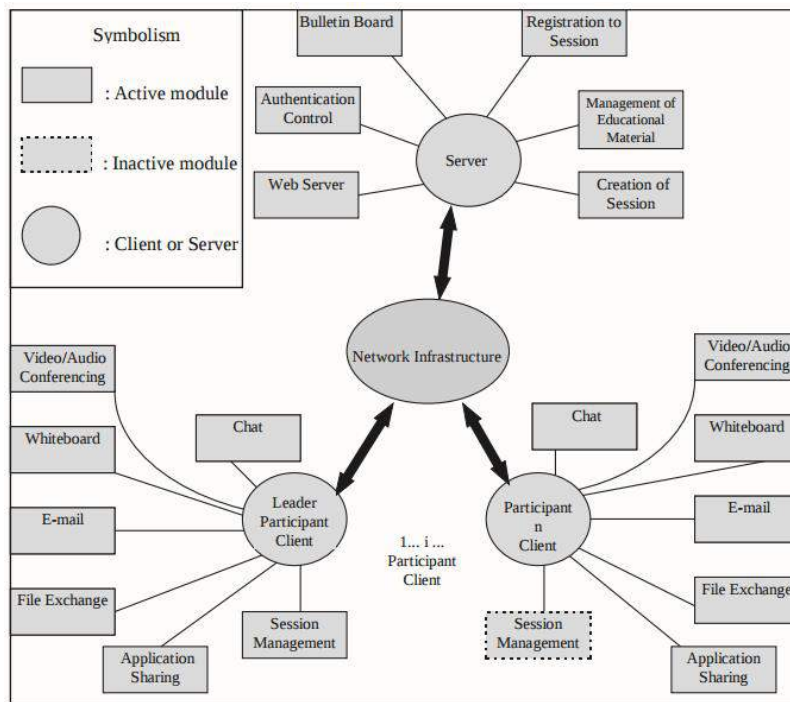
Read article: <http://er.educause.edu/articles/2013/10/a-new-architecture-for-learning>

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



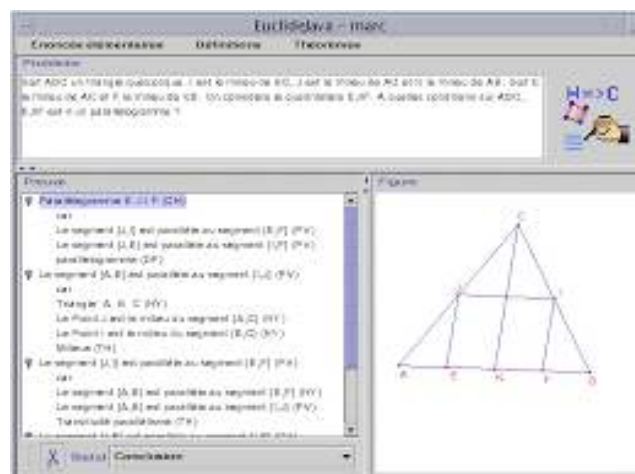
Read article:
http://ieeexplore.ieee.org/xpl/login.jsp?tp=&number=5194161&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5194161

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



Read article: <http://ru6.cti.gr/ru6/system/files/publications/9216259.pdf>

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



Read article: <http://julita.usask.ca/mable/webber.pdf>

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

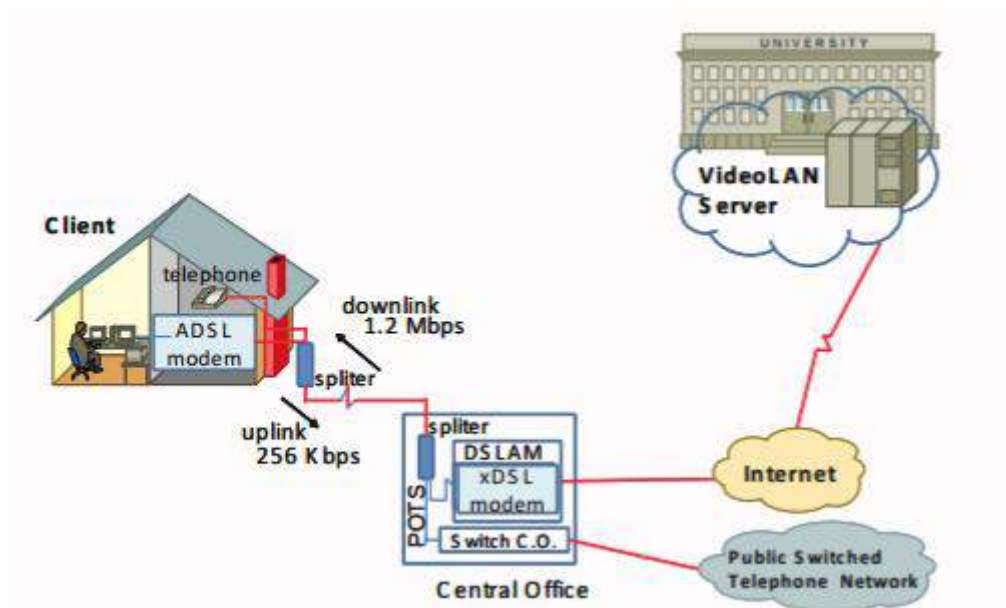
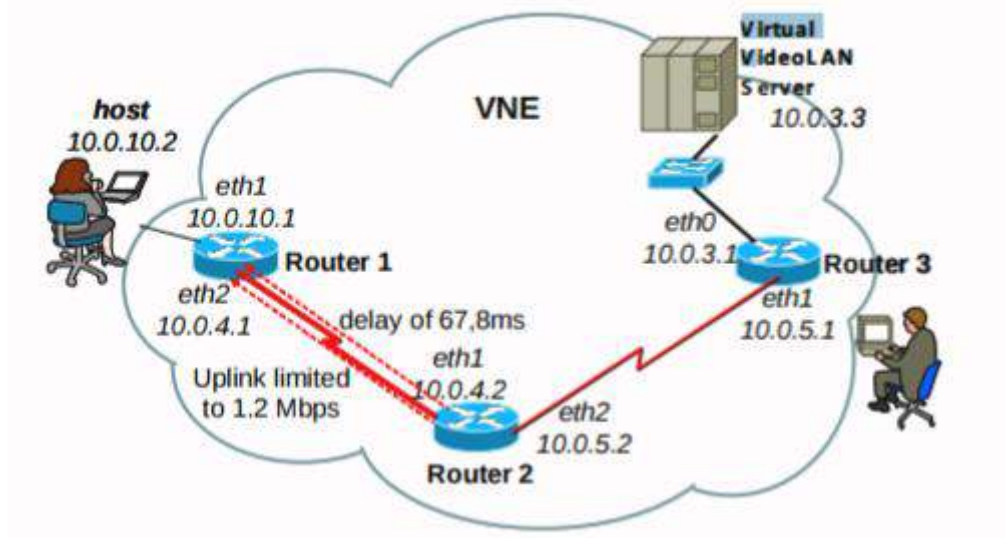


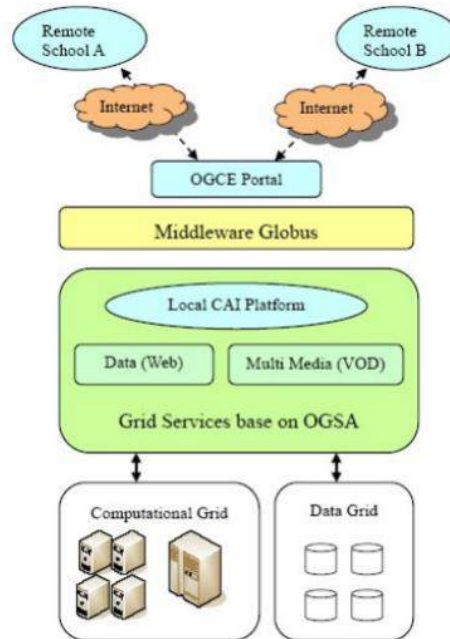
Figure 1. Testing environment of an ADSL connection



Read article:

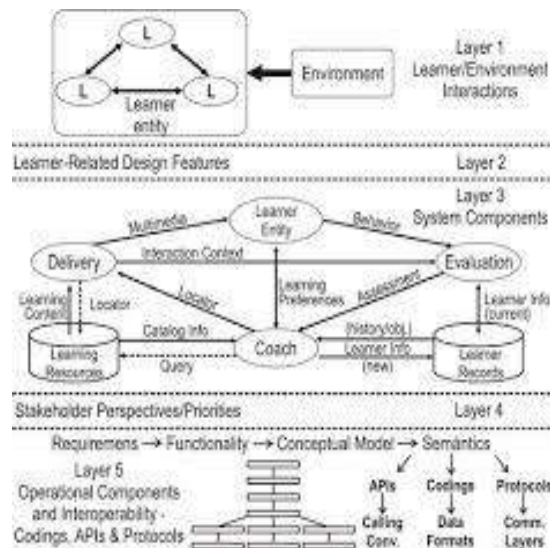
https://www.researchgate.net/profile/Walter_Fuertes/publication/281445714_Educational_Platform_using_Virtualization_Technologies_Teaching-Learning_Applications_and_Research_Use_Cases/links/55e7c9ae08ae65b638995fe9.pdf

An e-Learning Platform Based on Grid Architecture



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

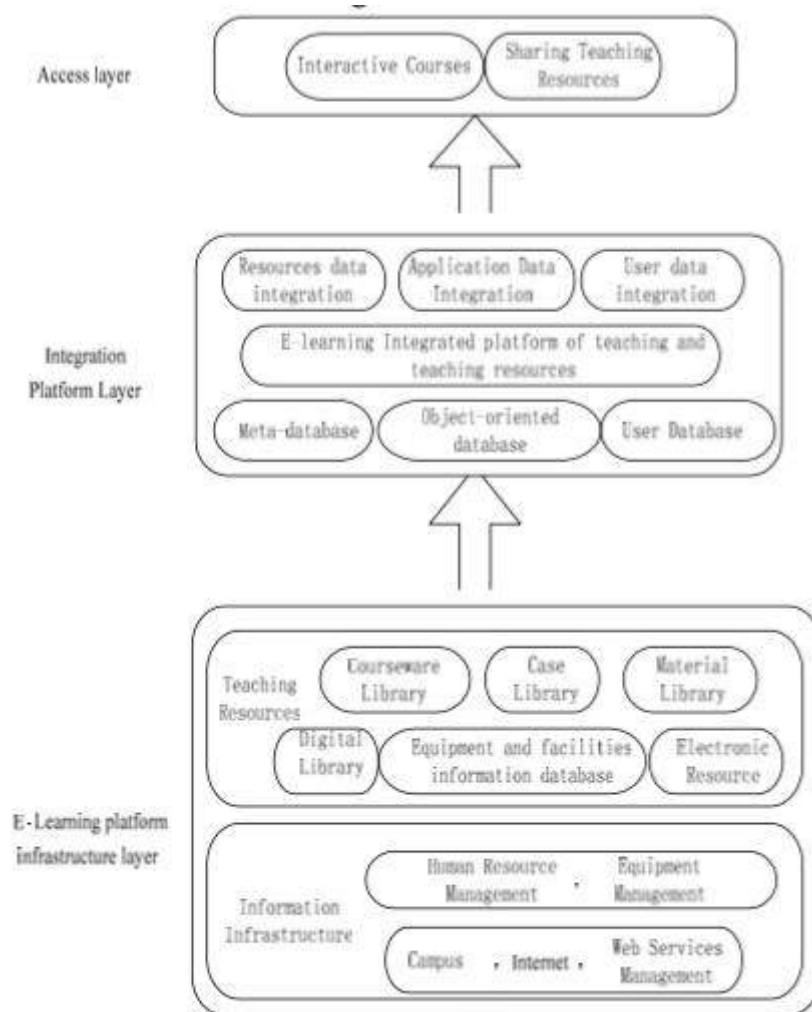
Adaptive and intelligent web based education system: Towards an integral architecture and framework



Read article:

<http://www.sciencedirect.com/science/article/pii/S0957417406002466>

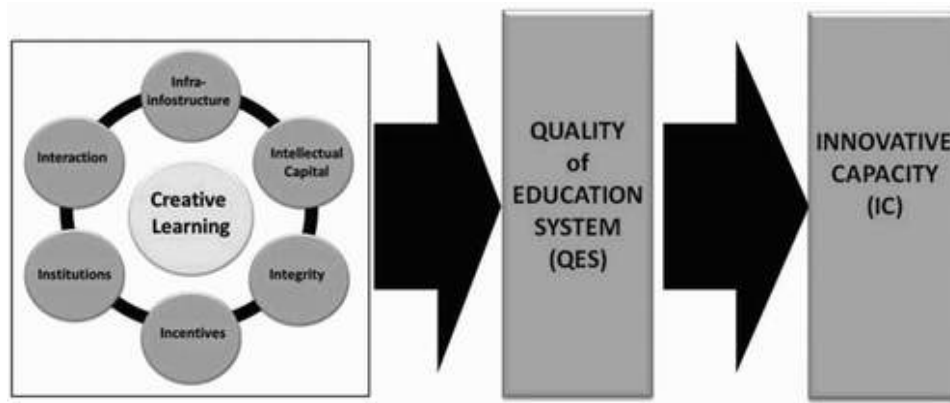
The applied research of cloud computing platform architecture in the E-Learning area



Read article:

http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5451399&url=http%3A%2F%2Fieeexplore.ieee.org%2Fxppls%2Fabs_all.jsp%3Farnumber%3D5451399

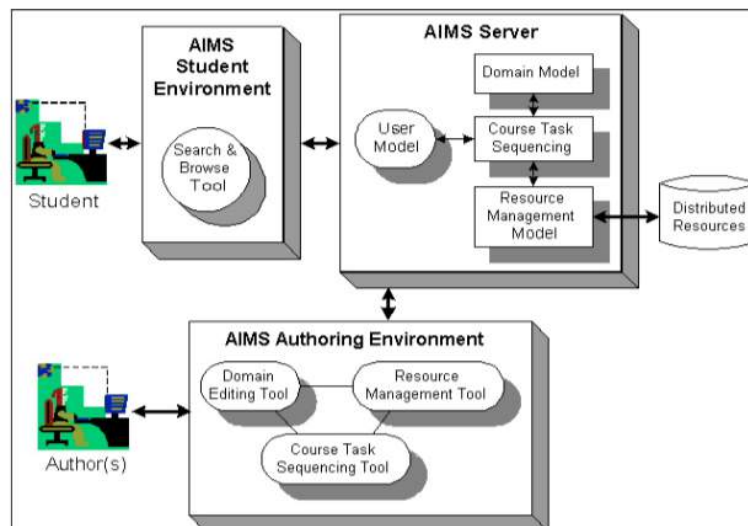
A creative learning ecosystem, quality of education and innovative capacity: a perspective from higher education



Read article:

<http://www.tandfonline.com/doi/full/10.1080/03075079.2014.881342>

The New Challenges for E-learning: The Educational Semantic Web



Read article: http://www.ifets.info/journals/7_4/8.pdf

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

Read article:

<http://www.sciencedirect.com/science/article/pii/S0360131514002450>

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

Read article: <http://onlinelibrary.wiley.com/doi/10.1111/bjet.12195/full>

Informaatioteknologian tiedekunnan julkaisu
No. 26/2016

ISBN 978-951-39-6924-0 (verkkoj.)
ISSN 2323-5004