

34a sessió - Espais de Gestió del Coneixement

Tendències en tecnologia i educació

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“una societat amb capacitat per a generar, apropiar-se de i utilitzar el coneixement per atendre les necessitats de desenvolupament i per construir el seu propi futur, convertint la creació i transferència de coneixement en eina de la societat pel seu propi benefici

GEPSEA, 2015

The Future of Jobs and Jobs Training

As robots, automation and artificial intelligence perform more tasks and there is massive disruption of jobs, experts say a wider array of education and skills-building programs will be created to meet new demands. There are two uncertainties: Will well-prepared workers be able to keep up in the race with AI tools? And will market capitalism survive?

PewResearchCenter

NUMBERS, FACTS AND TRENDS SHAPING THE WORLD



THE FUTURE OF THE INTERNET

“

As basic automation and machine learning move toward becoming commodities, uniquely human skills will become more valuable.

– DEVIN FIDLER, RESEARCH DIRECTOR AT THE INSTITUTE FOR THE FUTURE

”

PEW RESEARCH CENTER



la paraula màgica ...



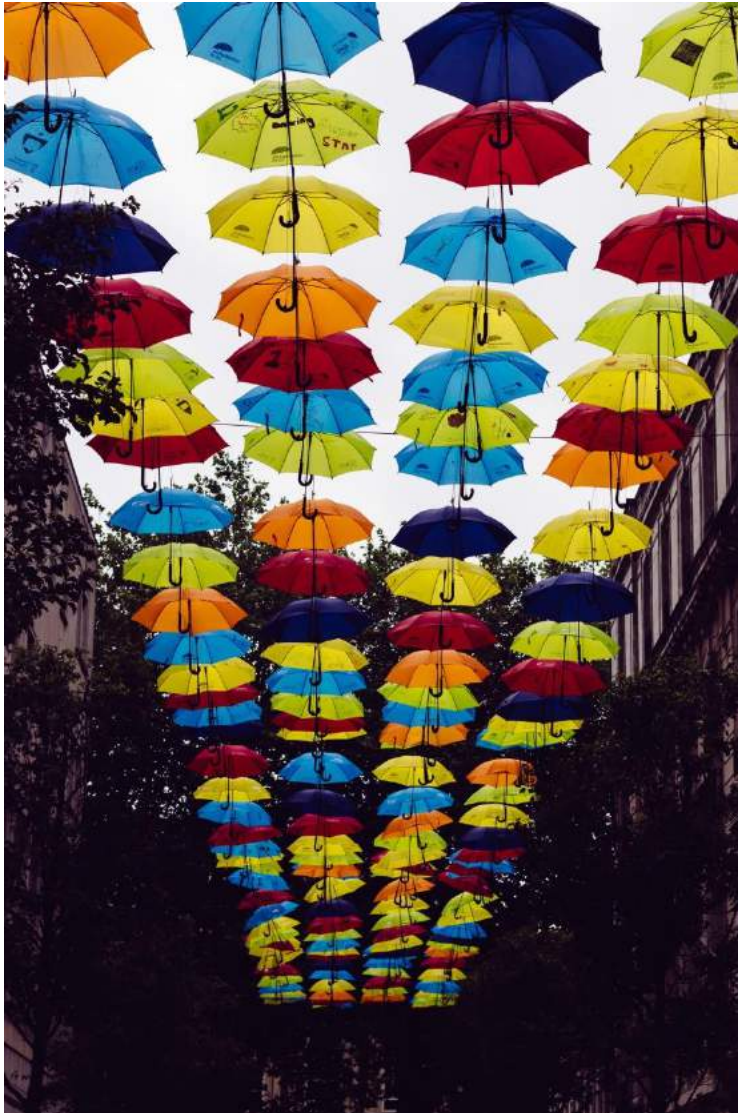


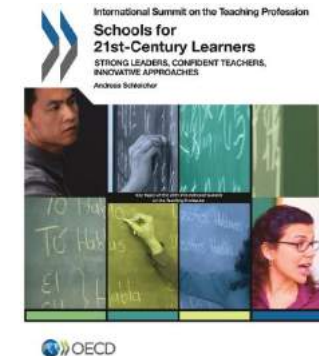
Photo by [Alex Holyoake](#) on [Unsplash](#)

Ways of thinking: Creativity, critical thinking, problem-solving, decision-making and learning

Ways of working.
Communication and collaboration

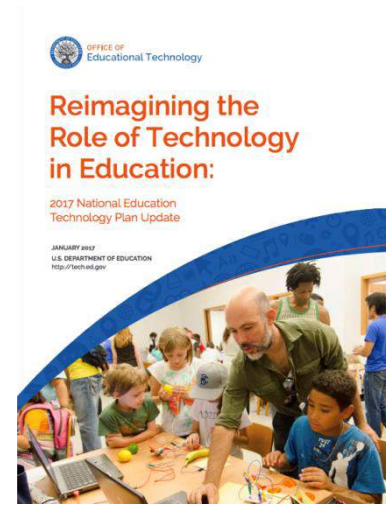
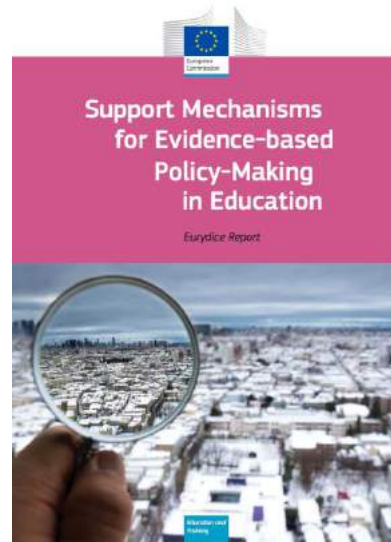
Tools for working (ICT) and information literacy

Skills for living in the world. Citizenship, life and personal and social responsibility





Education at a Glance 2017
 OECD INDICATORS



Capacity Building in a Changing ICT Environment
 2017



OpenEducationEuropa
 Europe's community for innovative education



90% of future jobs
will require digital skills.



44% of Europeans
lack basic digital skills.



Less than 20% of ICT
professionals are female.



More than 48 000 schools
lack broadband connection.



Digital wellbeing is threatened
by misinformation, cyber bullying,
data privacy issues.

European Commission

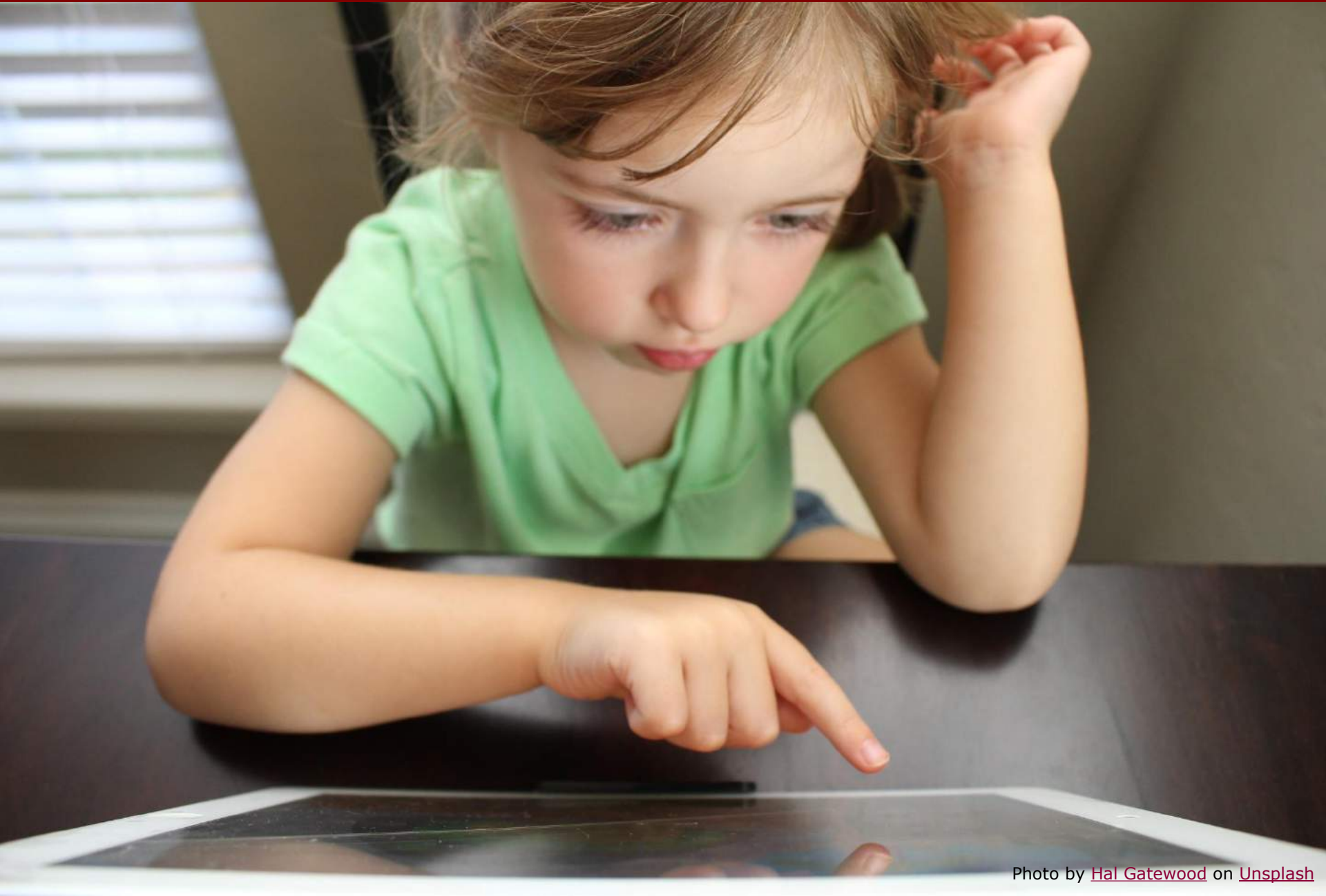
Digital
EDUCATION
Action Plan

*...d Government discussed education and training at the Gothenburg Social Summit on 17 ...
...ided by the Commission's Communication 'Strengthening European Identity through
...ture'. This resulted in the European Council conclusions of 14 December 2017 calling
...the Council and the Commission to take the agenda discussed in Gothenburg forward.
...highlight in particular the need to address the skills challenges linked to digitalisation,
...ia literacy and artificial intelligence. The Digital Education Action Plan follows up on that
...t.*



"la nova missió de les institucions educatives ha de ser preparar els nens per treballar en feines que no existeixen, per resoldre problemes que encara no són aparents, utilitzant tecnologies que encara estan per inventar. Això vol dir equipar-los amb la capacitat d'aplicar i tornar a aplicar el coneixement de formes innovadores que els permetin incorporar-se en un món laboral complex."







ON | OFF

Risks and Rewards of the
Anytime-Anywhere Internet



Sarah Genner

v/d/f





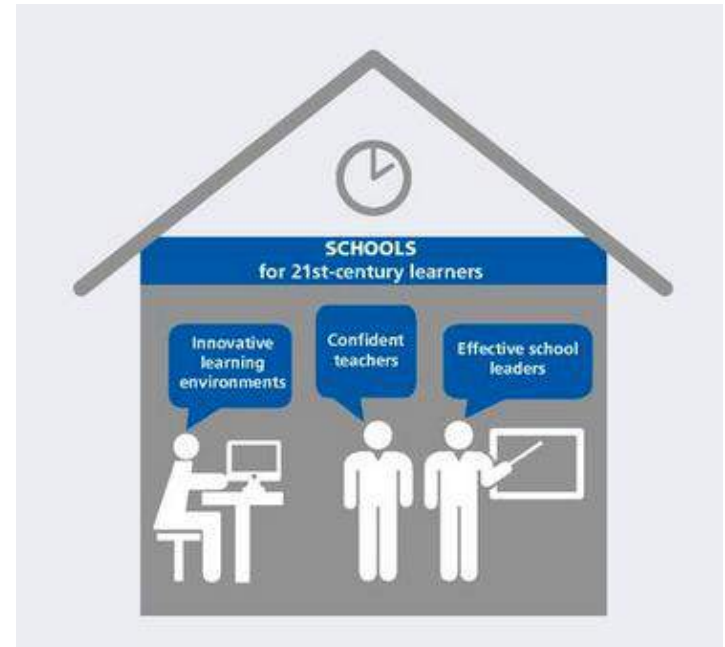
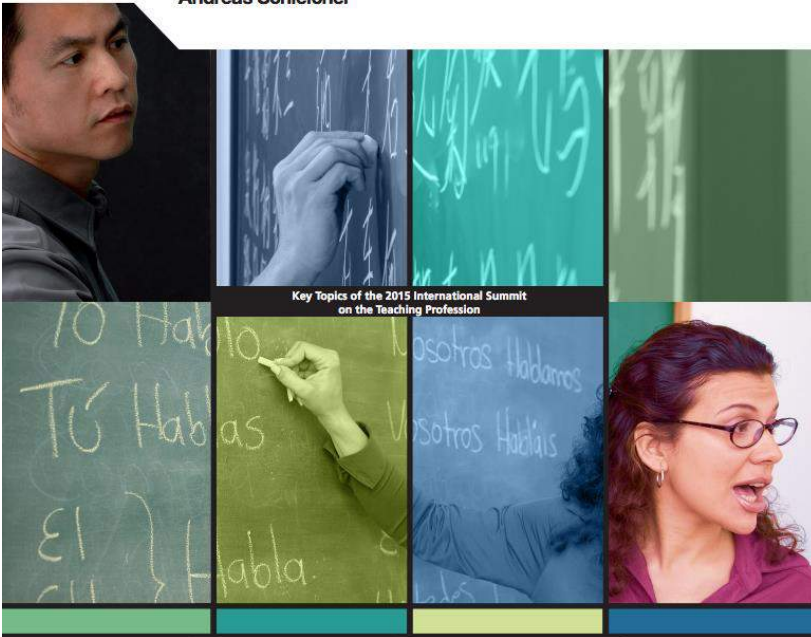


International Summit on the Teaching Profession

Schools for 21st-Century Learners

**STRONG LEADERS, CONFIDENT TEACHERS,
INNOVATIVE APPROACHES**

Andreas Schleicher





IDENTITAT DIGITAL & ciberseguretat



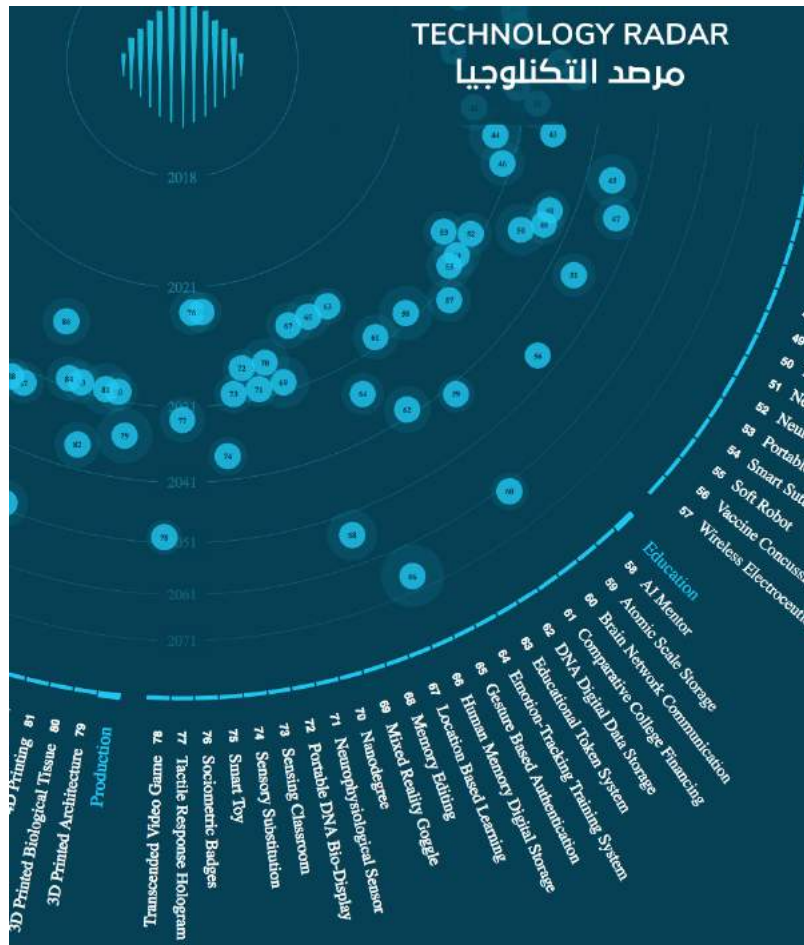


algunes tendències en educació

Technology Radar del World Government Summit

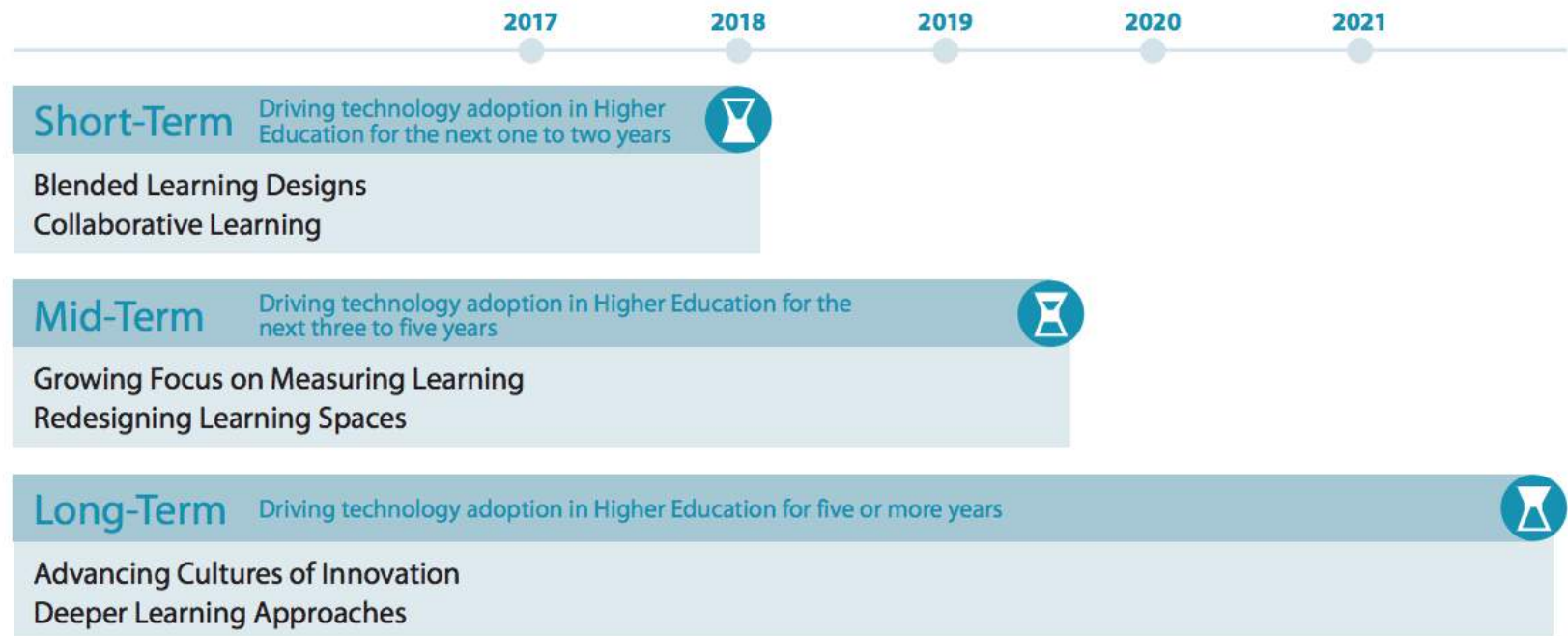
<https://techradar.worldgovernmentsummit.org/>

150 tecnologies emergents en educació, logística, movilitat, salut... amb escenaris d'impacte i dates



NMC Horizon Report > 2017 Higher Education Edition at a Glance

Key Trends Accelerating Higher Education Technology Adoption



Significant Challenges Impeding Higher Education Technology Adoption



Solvable *Those that we understand and know how to solve*

Improving Digital Literacy
Integrating Formal and Informal Learning



Difficult *Those that we understand but for which solutions are elusive*

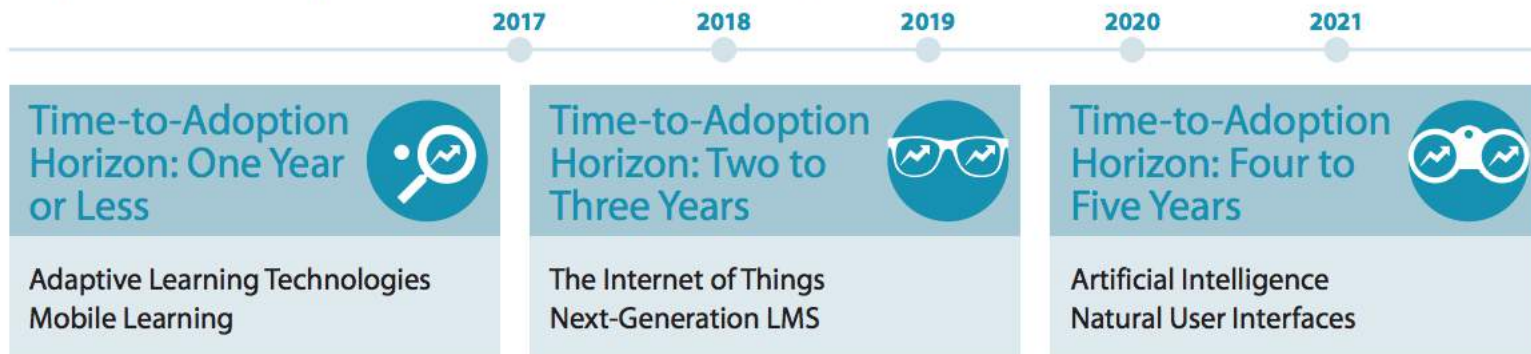
Achievement Gap
Advancing Digital Equity



Wicked *Those that are complex to even define, much less address*

Managing Knowledge Obsolescence
Rethinking the Roles of Educators

Important Developments in Technology for Higher Education



The NMC Horizon Report: 2017 Higher Education Edition

is a collaboration between The NEW MEDIA CONSORTIUM and The EDUCAUSE Learning Initiative, an EDUCAUSE Program.



Innovating Pedagogy 2017

Exploring new forms
of teaching, learning
and assessment, to guide
educators and policy
makers

Rebecca Ferguson, Sarit Barzilai,
Dani Ben-Zvi, Clark A Chinn,
Christohee Harodotou, Yotam
Hod, Yael Kall, Agnes Kukulska-
Hulme, Haggai Kupemintz,
Patrick McAndrew, Bari Rienies,
Omit Sagy, Eileen Scanlon,
Mike Sharples, Martin Weller,
Denise Whitelock

Open University
Innovation Report 6





- Spaced Learning (neuro-science)
- Learners making Science (STEM)
- Open Textbooks (OPEN SOURCE)
- Navigating post-truth societies
- Intergroup empathy
- Immersive Learning
- Student-led analytics
- Big Data Inquiry: thinking with data
- Learning with internal values
- Humanistic knowledge building communities



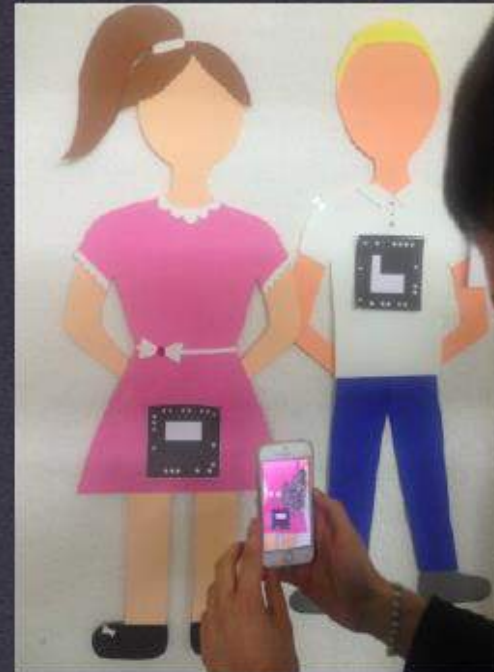
... es tracta d' entendre i saber utilitzar la nostra vida quotidiana com un espai d'aprenentatge

mobile learning



1º

PRE-SERVICE



4^o

PRE-SERVICE





pre-service +
in-service
+3 TFG
+1 TFM

PID
Mobile Learning
Intervention -DBR-

L'APRENTATGE MÒBIL

per a l'Àmbit de

*La comunicació interpersonal i la col·laboració
en l'alumnat de màxima complexitat*

Millorar la competència de l'alumnat en risc d'exclusió social en
l'àmbit de la comunicació interpersonal i
col·laboració en dues escoles de complexitat alta a partir de l'ús
de tecnologies mòbils







#1 aprenentatge híbrid i flexible

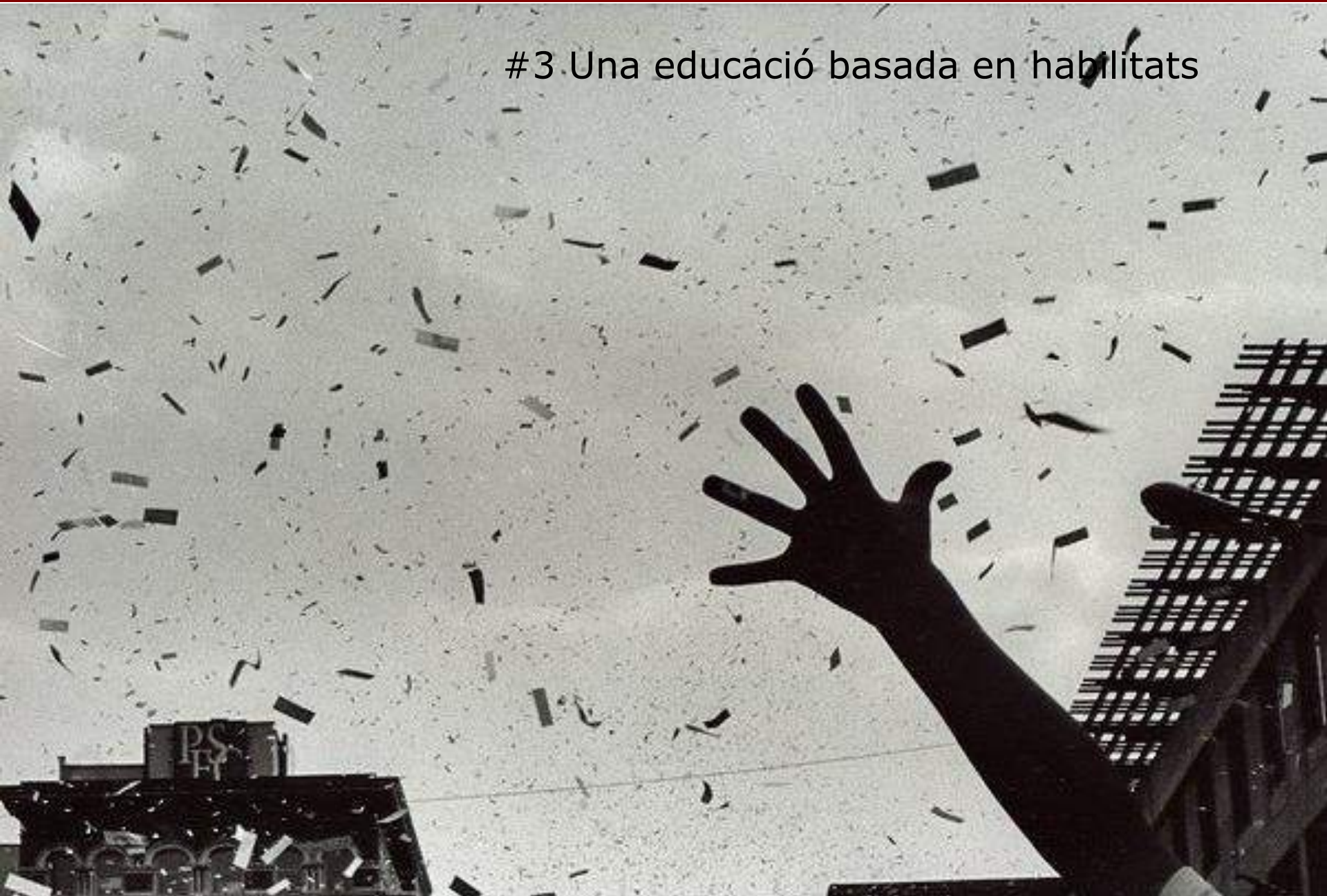


#2 nous escenaris e/a anytime, anywhere -
personalització de l'aprenentatge





#3 Una educació basada en habilitats





#4 .. on es fomenti també la cultura de la innovació,
el talent i la creativitat



tiffanynguyen photography



#5 ... i el paper de la tecnologia sigui
"seamless" i significatiu



L' educació és cosa de tots...





Moltes gràcies!

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@maret

