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"Explore the potential of digital tools to support learning in different settings and provide more personalised approaches to learning, which can cater for a wide range of abilities - from the highly talented to the low skilled - as well as for children with disadvanatged backgrounds and those with special need."

European Council Conclusion

on the role of early childhood education and primary education in fostering creativity, innovation and digital competence adopted 18 May, 2015



Laszló G. LOVÁSZY Ph.D. member of UN CRPD adviser at the EP lecturer at universities









disability perspective my personal perspective future perspective

















CONVENTION ON THE RIGHTS OF PERSONS WITH DISABILITIES









Structure of presentation

UN CRPD on accessibility
 EU position on accessibility
 Purpleyment/education
 high edge technologies and challenges





WORLD BANK

Structure of presentation

- 1) UN CRPD on accessibility
- 2) EU position on accessibility
- 3) employment/education
- 4) high edge technologies and challenges



UN CRPD

- Convention came into force on 3 May 2008
- only 3 MSs have not ratified but the EU
- about the Committee
- General Comments

GC on Accessibility

ACCESSIBILITY is related to groups
REASONABLE ACCOMMIDIATION a related to individuals



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GC on Accessibility

main principle to cover all areas

mainstreaming tool for govs to understand

useful measure for NGOs to promote

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ACCESSIBILITY is related to groups
REASONABLE ACCOMMODATION is related to individuals

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main principle to cover all areas

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main features and the content

- first to address ICT among HR treaties
- ICT is an umbrella term
- built environment, transport systems, information & communication + services open for the public
 - emphasis on SL, E-to-R, augmentative / alternative communication modes
- missing effective elements of govs' policies
 - monitoring systems
 - training (and involvement) at SPs' level
 - NGOs
 - academia
 - authorities (local)
 - industry
 - media
 - service providers



The areas touched upon

risk management justice and law enforcement freedom of expression and opinion education (deaf, blind, deafblind) health care workplace social protection political and public life (election) culture, sport, recreational and leisure time



mainstreaming tool for govs to understand

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their features and the contain

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ACCESSIBILITY is related to groups REASONABLE ACCOMMODATION is related to individuals

Reasonable accommodation is the central notion in directive 2000/78/EC [Employment Equality Framework Directive) relevant to (vocational) training in terms of education legislated in EU law



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EU position in a nutshell

- e-hukalon - ozomářily svahředný repárenost in n regulatori en 1985-Mejulatori No 1908/2018

- Active aging since 1fftd - sweden age in facilit - after 2000-over 40 will be the largest group



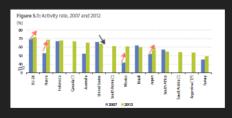


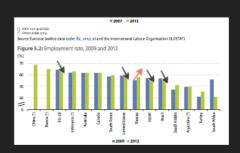
- e-Inclusion - accessibility as a **binding** requirement in new regulation on ESIFs (Regulation No 1303/2013)

- active aging since 2012
 - median age in the EU
 - after 2030 over 60 will be the largest group
 - LLL is becoming more important



activity rate should be maintained at 70%

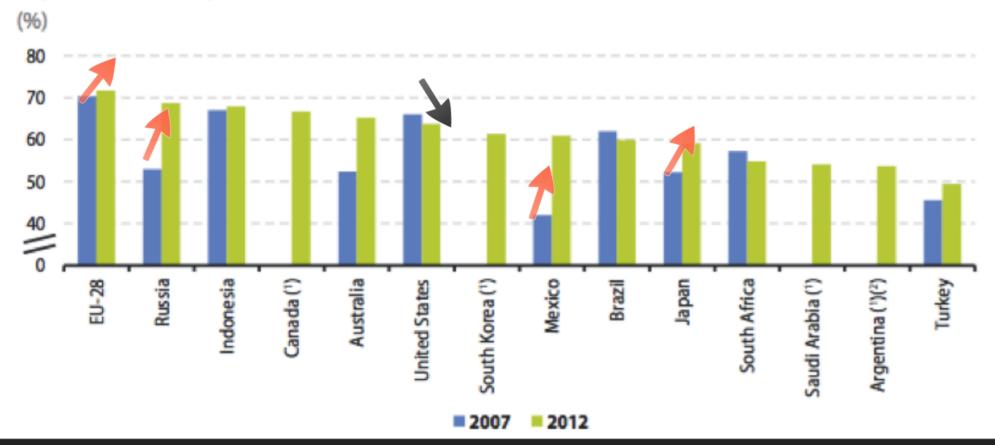




employment rate 55-64 should be over 70% 2014: 51% (S: 74%, SLO: 36%) the long term unemployment has risen!



Figure 5.1: Activity rate, 2007 and 2012





- (1) 2007: not available.
- (2) Urban areas only.

Source: Eurostat (online data code: Ifsi_emp_a) and the International Labour Organisation (ILOSTAT)

Figure 5.2: Employment rate, 2009 and 2012





employment rate 55-64 should be over 70%

2014: 51% (S: 74%, SLO: 36%)

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Future of ICT technologies

computing power - doubles every 18 months

sci-fi becoming reality: robotics / automatization

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Labor market challenges

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More follows to be addressed

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Education - for all

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 new innovations and applications
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MOLOGIA

computing power - doubles every 18 months

sci-fi becoming reality: robotics / automatization

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- social (carin

- in 2040 fire



...it is expected that... (50 Future Ideas You Really Need to Know by Richard Watson)

- **50 billion** things connected to the Internet by 2020
- by 2040 machine brain should be able to handle **100 trilion** instructions per second (10 billion today (a housefly))
- social (caring) robots will be in 30 % of single person's household
- in 2040 firms will offer scholarships to children age 5

http://www.goodreads.com/book/show/17059067-the-future



Labor market challenges

Oxford University's study on the future of employment

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thinking
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through

Next issues to be addressed:

- human skills vs AI
- disabled vs non-disabled



Oxford University's study on the future of employment

http://www.oxfordmartin.ox.ac.uk/downloads/academic/The_Future_of_Employment.pdf

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Dying jobs

(Richard Watson)

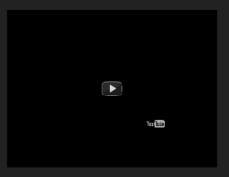
shorthand secretary / switchboard operator / receptionist / bookbinder / printer / typist / supermarket cashier / photo-processor / tool-both operator / video store owner / call centre operator / data-entry clerk / record store manager / figher pilot / newspaper delivery boy / freight handler / truck and bus driver / butcher / baker / candlestick maker / translator / interpreter / unskilled agricultural worker / computer operator / lift operator / errand boy / mail clerk / order clerk / train driver / bank teller / travel agent / blacksmith / roof thatcher / cinema projectionist / etc...



Education - for all

- general overview (OECD PISA)
- new innovations and applications
- reinventing schooling and rehabilitation
- to adapt programmes with a view to accommodating new learning tools
- to ensure effective methods for fostering curiosity, experimentation, creative and critical thinking and cultural understanding
- to facilitate access to and the promotion of ICT and development of digital competence through early childhood education and primary education with the recognition of different learning needs
- to make effective use of European resources (Erasmus+, ESIFs)
- the COM has been asked to identify, through research, examples of the most effective methods and practices for teachers

from the Council Conclusion on the role of early childhood education and primary education in fostering creativity, innovation and digital competence (8397/15, adopted on 18 May, 2015)





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You Tube



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STOA seminar at EP



Disability and employment opportunities in the future based on technology

"What Entires weeks provided bird"

MOSTATOR Machine representation of the second secon



sience and Technology Optio

Disability and employment opportunities in the future based on technology

The Scientific Foresight Unit of the European Parliament's Research Service (EPRS) organises a workshop on assistive technologies for the inclusion of persons with disabilities in society, education and employment, the title of which will



"What if robots render you disabled?".

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"What if robots render you disabled?".

Tuesday 23 June 2015 from 14:30-17:00

REGISTRATION:

http://www.europarl.europa.eu/stoa/cms/home/ events/workshops/inclusion



Summary

- technology will be the most important tool and resource
- education shall rely on innovative technologies and approaches FOR ALL
- technology and education altogether shall develop human capital for entrepreneurship and creativity



Thank you for your attention



Future outlook on accessibility policy







