

Software Beyond Horizon 2020

Software Research and
Innovation empowering the
Digitalisation of Europe

NESSI SUMMIT 2018

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March 2018



10:00 - 10:10	Welcome by Josef Urban
10:10 - 10:30 Opening	The NGI Vision and the Expectation on Software Pearse O'Donohue , Director, Directorate E, EC DG-CNECT
10:30 - 10:50 Keynote	The Role of Software in Industrial Sectors José Esteban, Head of Innovation, Atos
10:50 - 12:05	Panel: Digitalisation and the Role of Software
12:05 - 13:30	Lunch and networking
13:30 - 14:45	Panel: Advanced Software Technologies: Addressing Fundamental Needs of Digitalisation
14:45 - 15:15	Coffee break and networking
15:15 - 16:30	Panel: Structure and Organization of Future Research and Innovation Programmes
16:30 - 16:50 Keynote	The Future of Software Professor Asuncion Gomez, Vice Rector for Research and Innovation, UPM
16:50 - 16:55	Closing Remarks by Luis Busquets, Unit E2, EC DG-CNECT
16:55 - 17:00	Closing Remarks by Chair of NESSI Board: Josef Urban, Nokia Bell Labs CTO
17:00 - 18:30	Drinks reception for further discussion and networking



Advanced Software Technologies: Addressing Fundamental Needs of Digitalisation

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Josef Urban, Chair of NESSI Board

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NESSI's Software Vision

What are the advanced technologies required to meet the fundamental needs of the digitalization?

“Software has the potential to drastically change our lives.”

(Source: Deep Shift. Technology Tipping Points and Societal Impact, WEF, 2015)

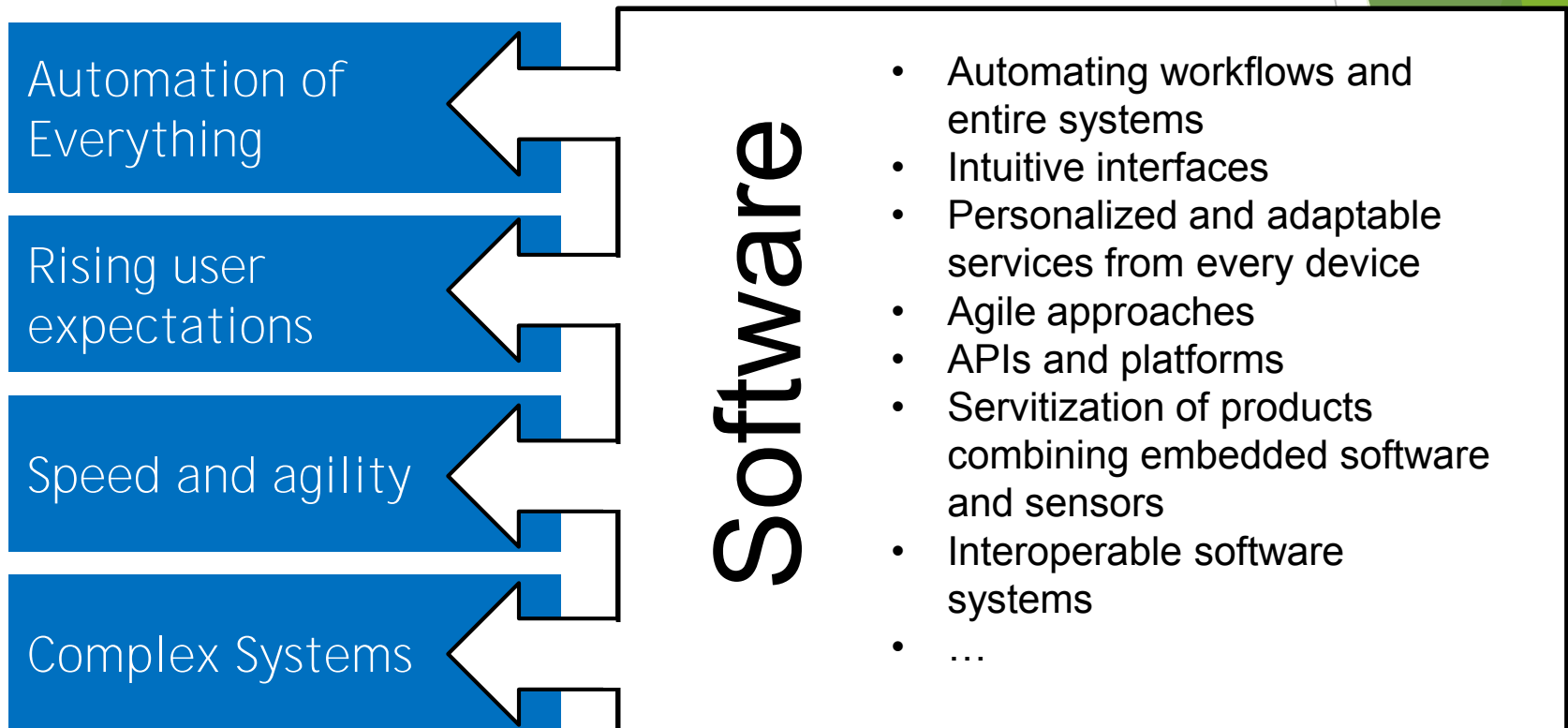
“Software-led advances in technology are digitally transforming industries and enterprises.”

(Source: Software disruption accelerates. PwC, 2017)

“Every Business is in the Software and Service Business.”

(Source: Digitally remastered, Otto Berkes, Wiley, 2016)

Software meets fundamental needs of the digitalisation



Economic and social impact of software

Share of European GDP generated by software

7.4%

Share of Jobs in Europe generated by software

> 5%

Share of R&D high-tech companies across sectors invest in software in 2020

25%

European R&D software investments are growing slower compared to US

5% vs 8.4%

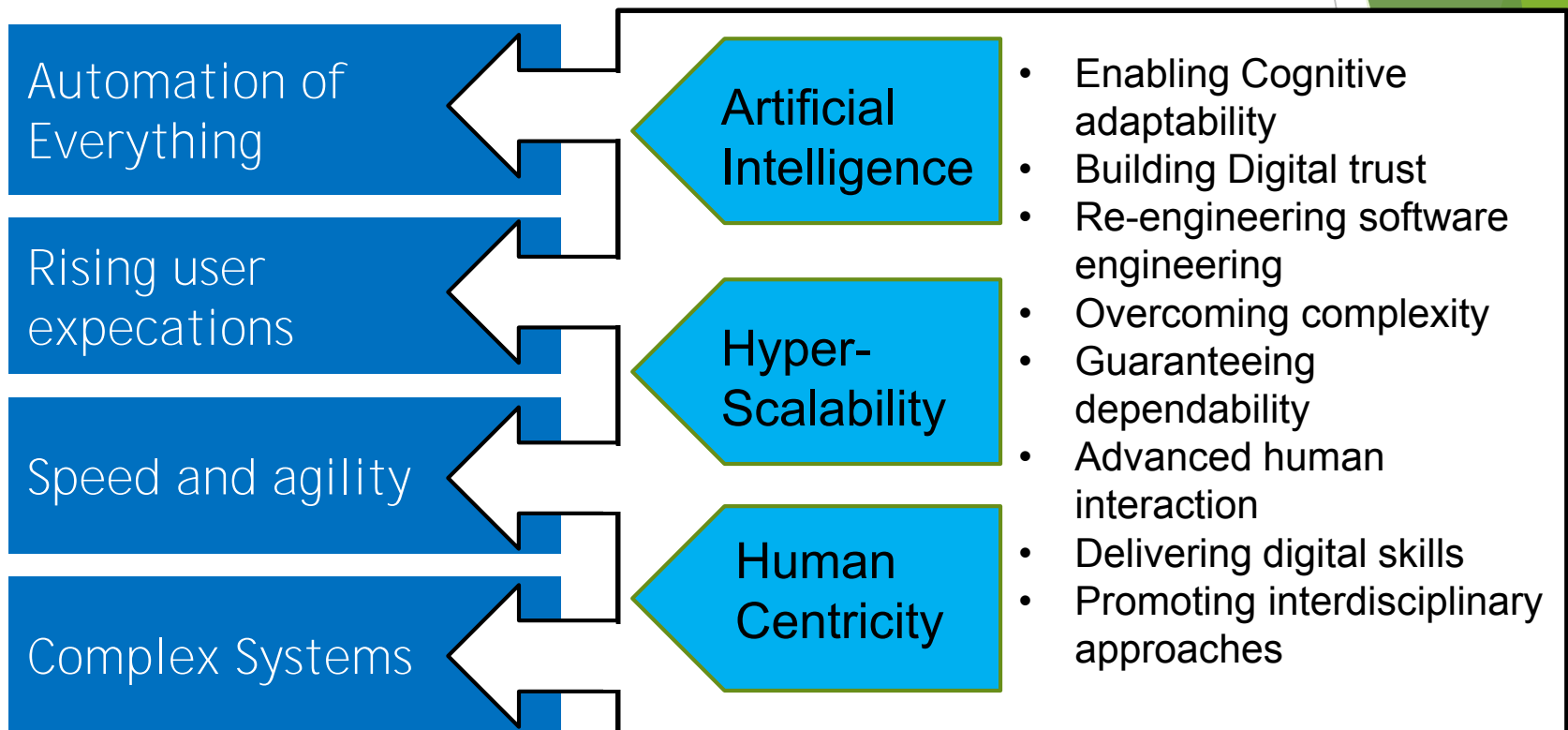
ICT experts missing in Europe in 2020

500,000

EU citizens with insufficient and no digital skills

63%

Advanced Software for the future digitalisation





Thank You

Software is fundamental to digitalization - Smartphone



Global scale

Smartphone users worldwide

2,3 b

Transformational impact

Time users spend on the smartphone

~4 h

Role of Software

Number of apps worldwide

6,5 m

Number of Android OS versions since 2008

12

Apps abandoned after first use

25%

Rising user expectations

<https://www.statista.com/statistics/270291/popular-categories-in-the-app-store/>