



RIIGIKANTSELEI

IKT ja töökohad tulevikus

Siim Sikkut

Infoühiskonna nõunik

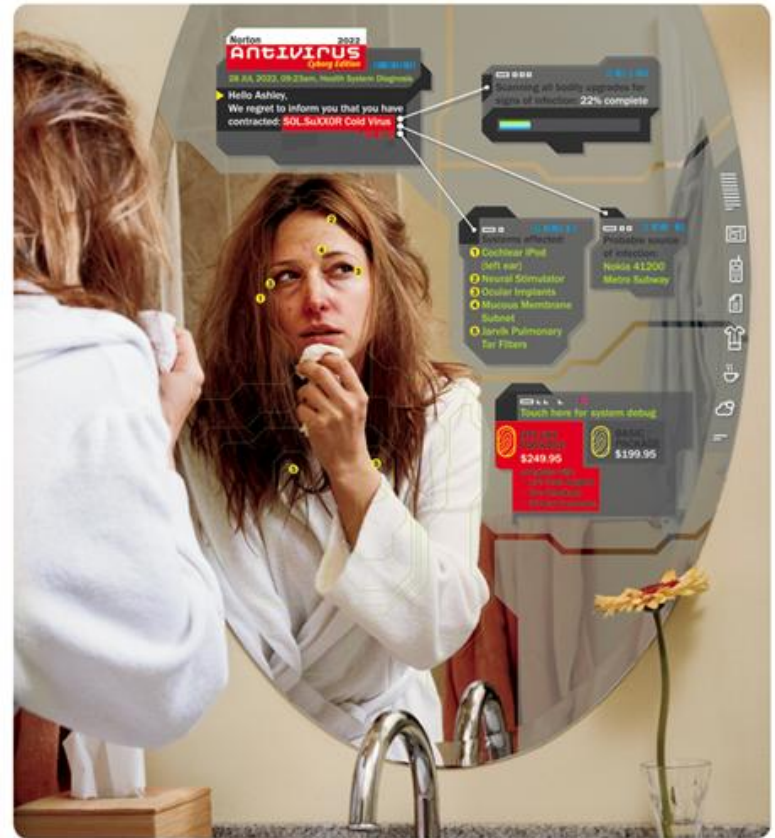
Tulevik lühidalt: IKT kõikjal

Arvuti kõikjal

Side kõikjal

Andmed kõikjal

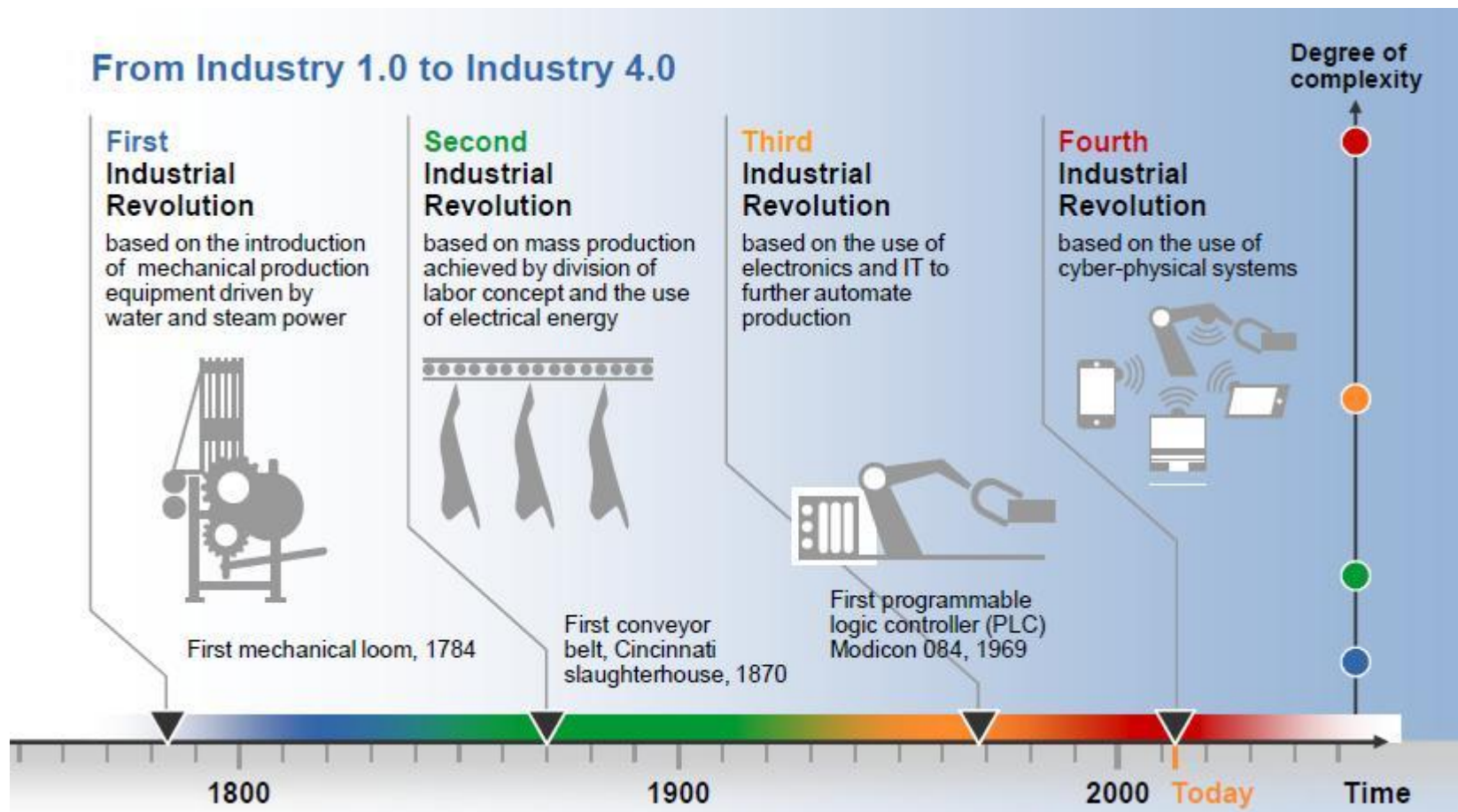
Mugavad liidesed



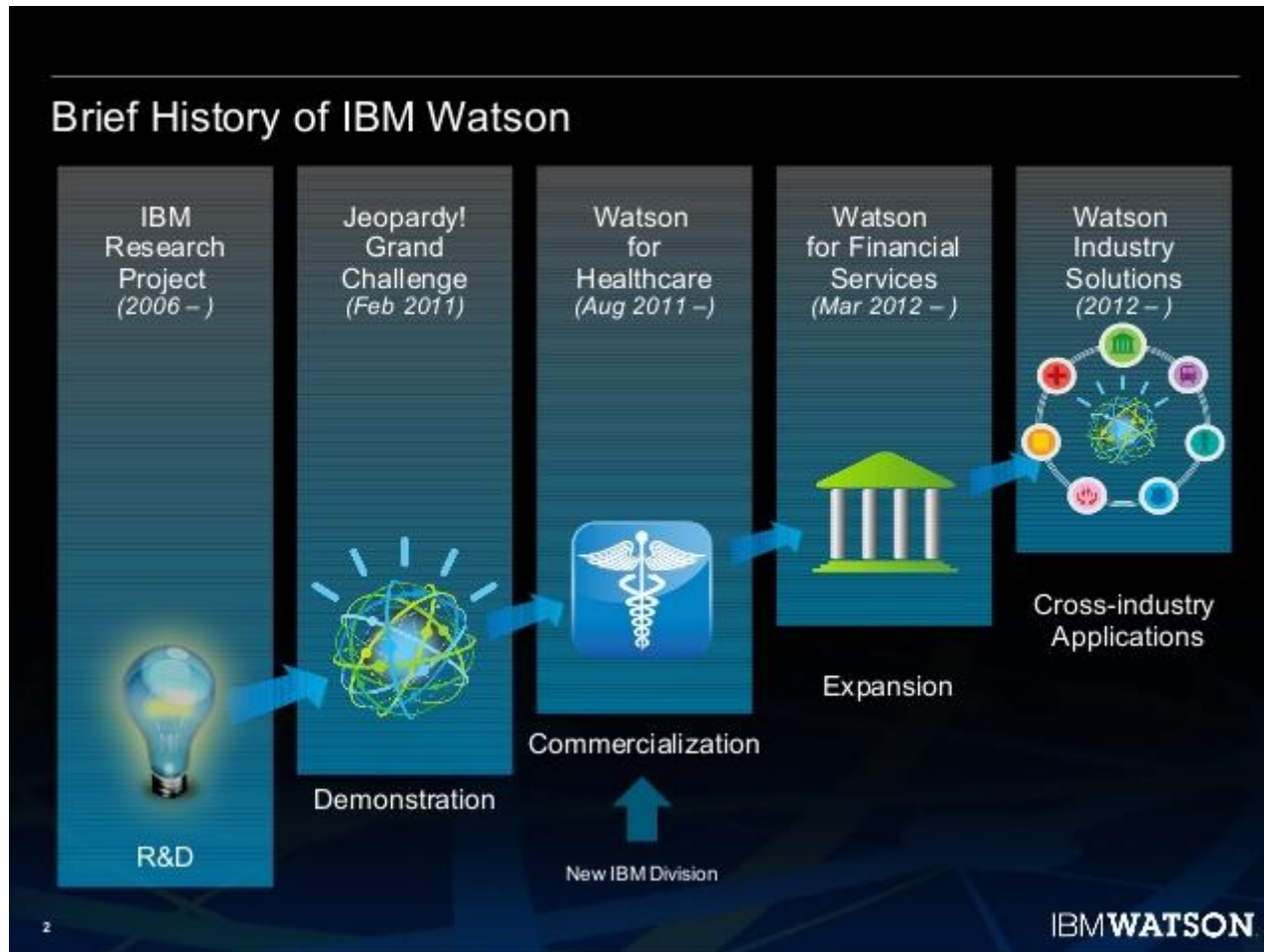
Digitaalse äri võidukäik



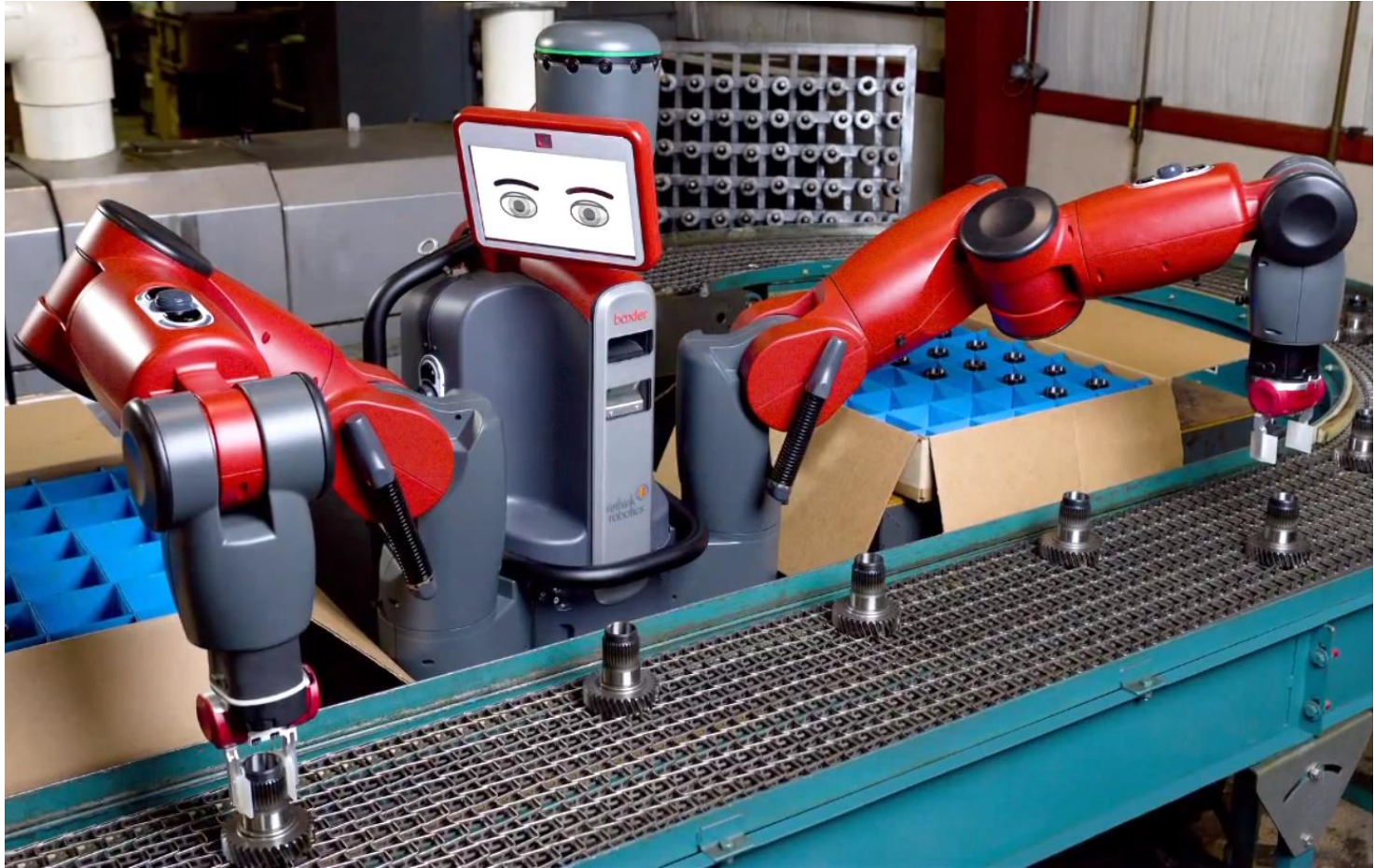
Traditsioonilised sektorid muutumas



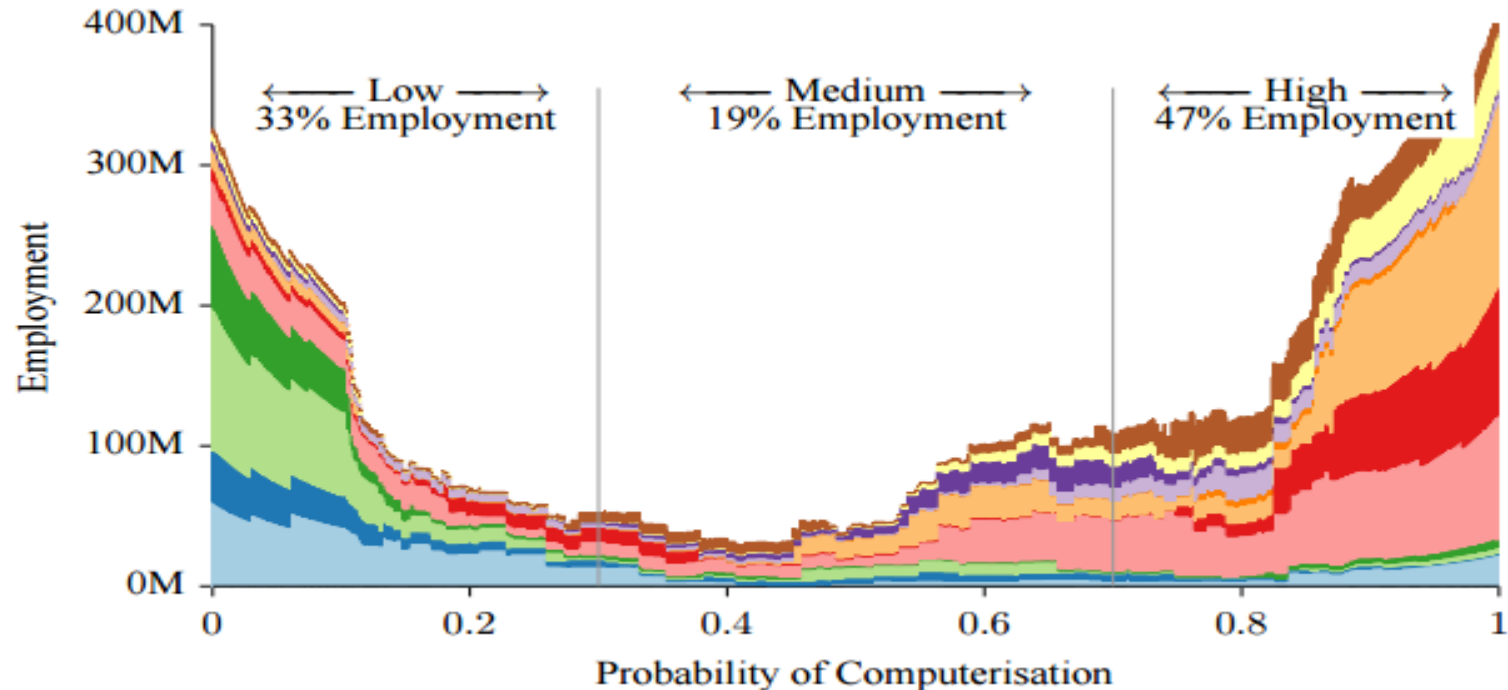
Tehisintellekti areng



Robotite areng



Tulemus: paljud tänased töökohad mittevajalikud



- Management, Business, and Financial
- Computer, Engineering, and Science
- Education, Legal, Community Service, Arts, and Media
- Healthcare Practitioners and Technical
- Service
- Sales and Related
- Office and Administrative Support
- Farming, Fishing, and Forestry
- Construction and Extraction
- Installation, Maintenance, and Repair
- Production
- Transportation and Material Moving



Äärmiselt kõrge	Lihtametnikud Laotöötajad Kassapidajad Koostetöölised
Väga kõrge	Finantsspetsialistid Kliendinõustajad Masinaoperaatorid Müügipersonal Raudteelased
Kõrge	Teenindajad Tehnikud Müügivahendajad Sekretärid Kokad-ettekandjad Üldehitajad Sõidumasinade juhid Lihttöölised

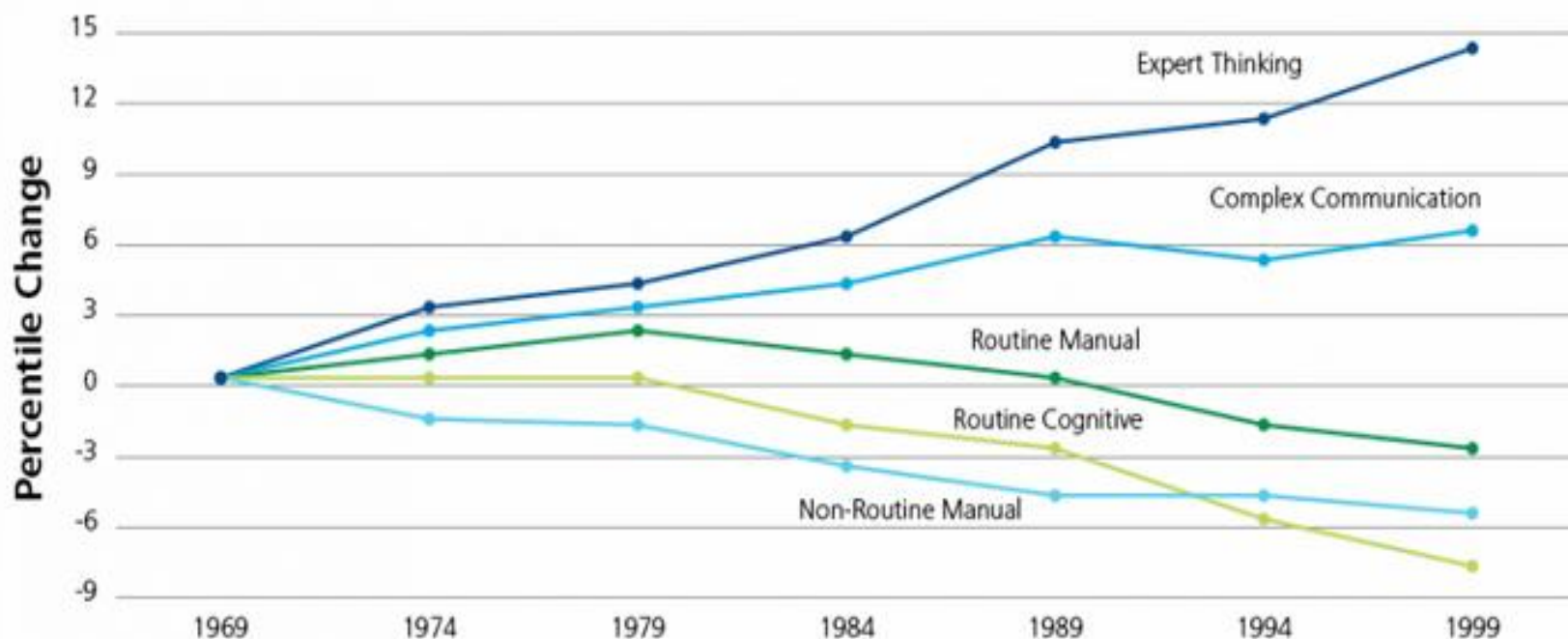
Eestis ohus üle poole töökohtadest

Automatiseerimise tõenäosus	Hõivatuid (tuh.)	Osakaal koguhõivest	Akumuleeruv osakaal
Äärmiselt kõrge	34,1	5,5	5,5
Väga kõrge	111,2	18	23,5
Kõrge	169,3	27,3	50,8
Keskmine	116,3	18,8	69,6
Kokku	430,9	69,6	

Allikas: autor Statistikaameti 2012-2014 andmete põhjal



Töökohad ei kao – vaid muutuvad



Source: Frank Levy and Richard J. Murnane, *The New Division of Labor: How Computers are Creating the Next Job Market*, (Princeton: *Princeton University Press*, 2004), p. 50.

Tulevikuoskused

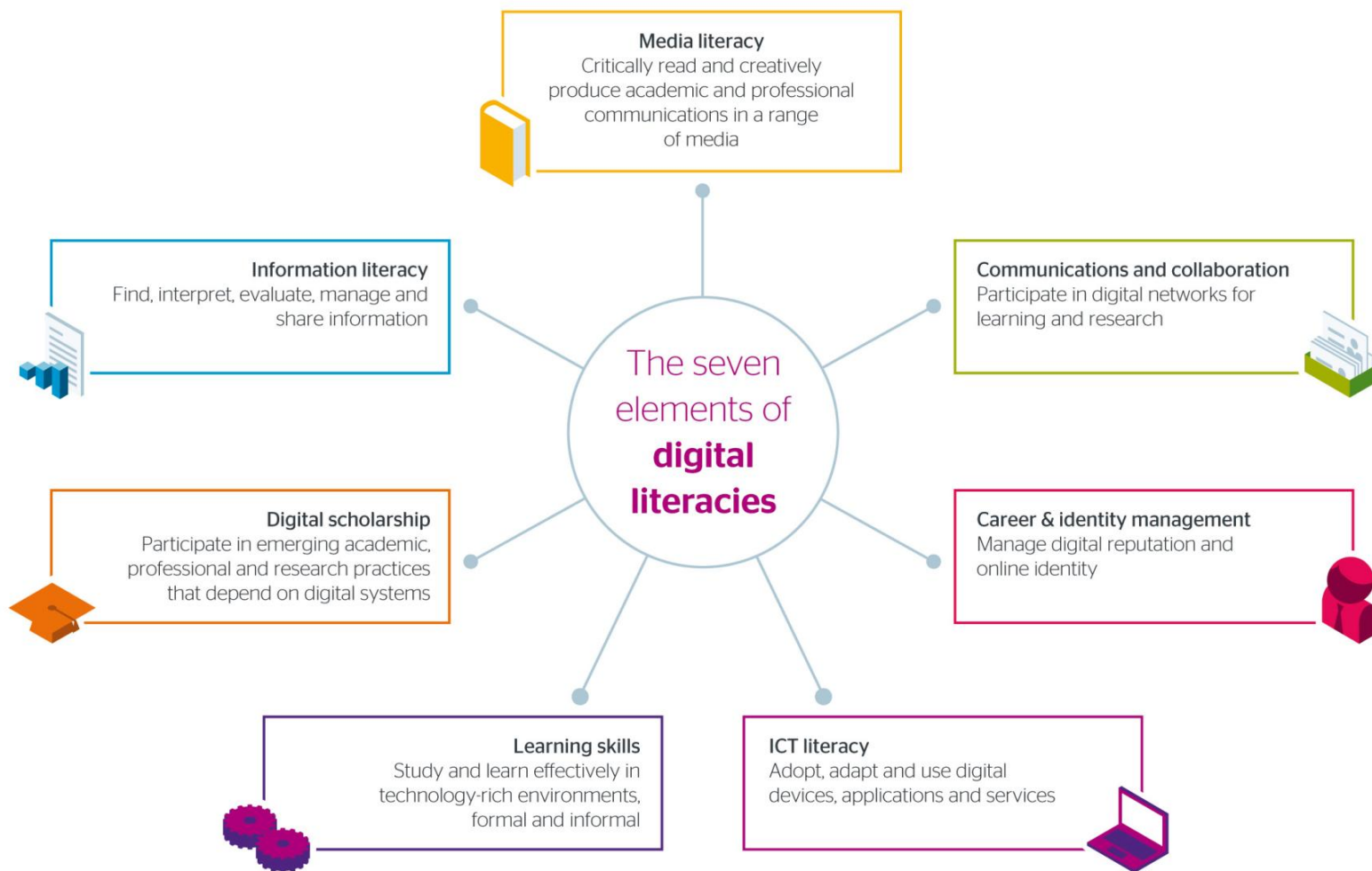


Critical Skills for Workforce 2020

The Institute for the Future teamed up with the University of Phoenix Research Institute to identify the following skills, in light of several current economic drivers, that will be needed to thrive in the workplace in the year 2020.

- 1 Sense-making:** Determining the deeper meaning or significance of what's being expressed
- 2 Social intelligence:** Connecting to others and sensing and stimulating reactions
- 3 Novel and adaptive thinking:** Thinking and coming up with creative solutions
- 4 Cross-cultural competency:** Operating in different cultural settings
- 5 Computational thinking:** Translating vast amounts of data into abstract concepts and understanding data-based reasoning
- 6 New media literacy:** Leveraging, critically assessing, and developing content using new media forms
- 7 Transdisciplinarity:** Understanding concepts across multiple disciplines
- 8 Design mindset:** Representing and developing tasks and work processes for desired outcomes
- 9 Cognitive load management:** Discriminating and filtering for important information and mastering new tools to manage it
- 10 Virtual collaboration:** Working productively, driving engagement, and being present as a member of a virtual team

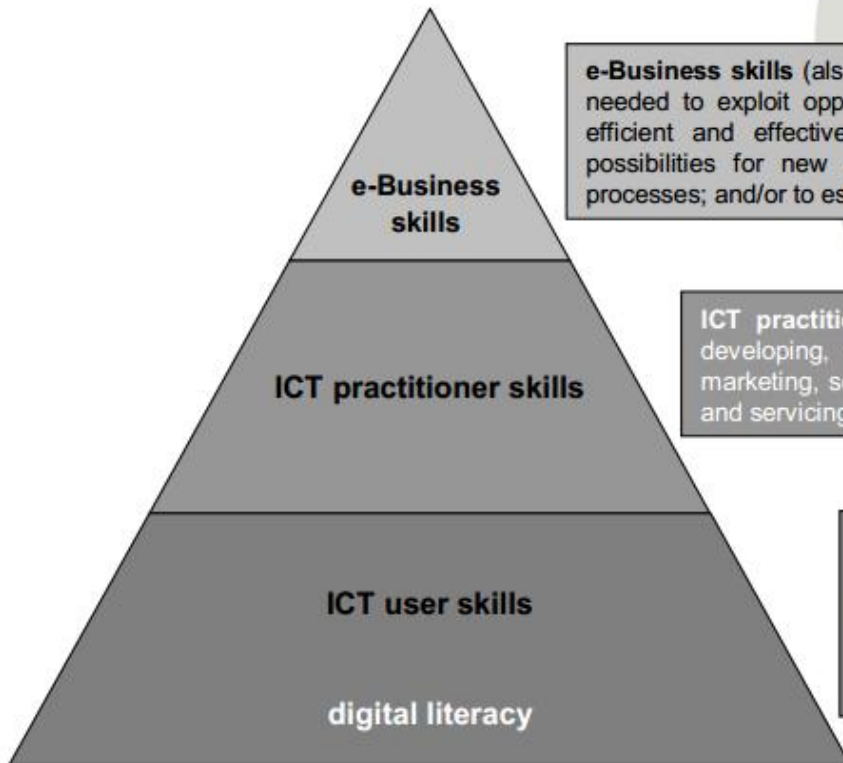
Digitaalne kirjaoskus mõõdapääsmatu



Fookus kõrgematele oskustele



The e-Skills pyramid



e-Business skills (also called **e-leadership skills**): these correspond to the capabilities needed to exploit opportunities provided by ICT, notably the Internet; to ensure more efficient and effective performance of different types of organisations; to explore possibilities for new ways of conducting business/administrative and organisational processes; and/or to establish new businesses.

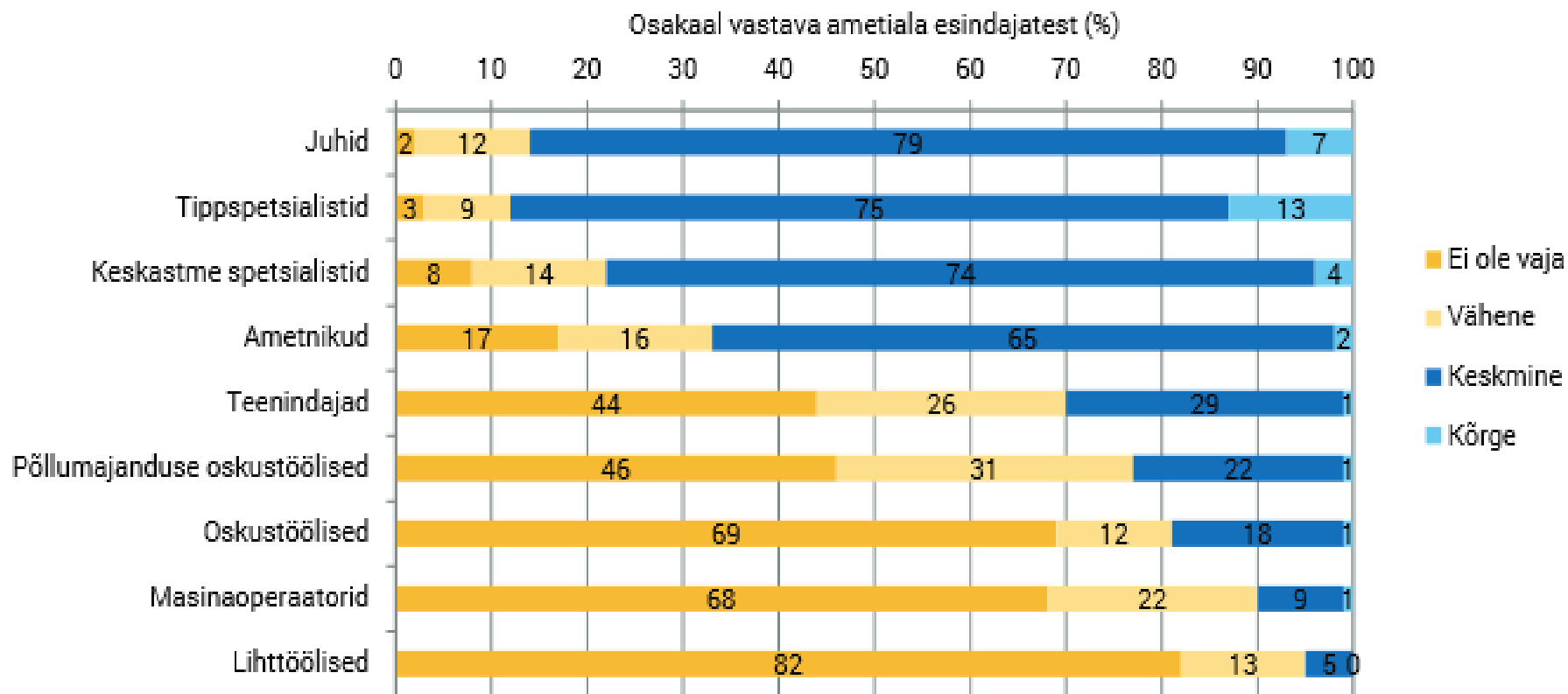
ICT practitioner skills: these are the capabilities required for researching, developing, designing, strategic planning, managing, producing, consulting, marketing, selling, integrating, installing, administering, maintaining, supporting and servicing ICT systems.

ICT user skills: these represent the capabilities required for the effective application of ICT systems and devices by the individual. ICT users apply systems as tools in support of their own work. User skills cover the use of common software tools and of specialised tools supporting business functions within industry. At the general level, they cover "digital literacy".

EESTI VÄLJAVAATED?

Tavamajanduses muutused pole veel alanud?

Joonis 37. Arvutikasutusoskuse vajadus ametialade lõikes



Teisalt: muutused juba käivad



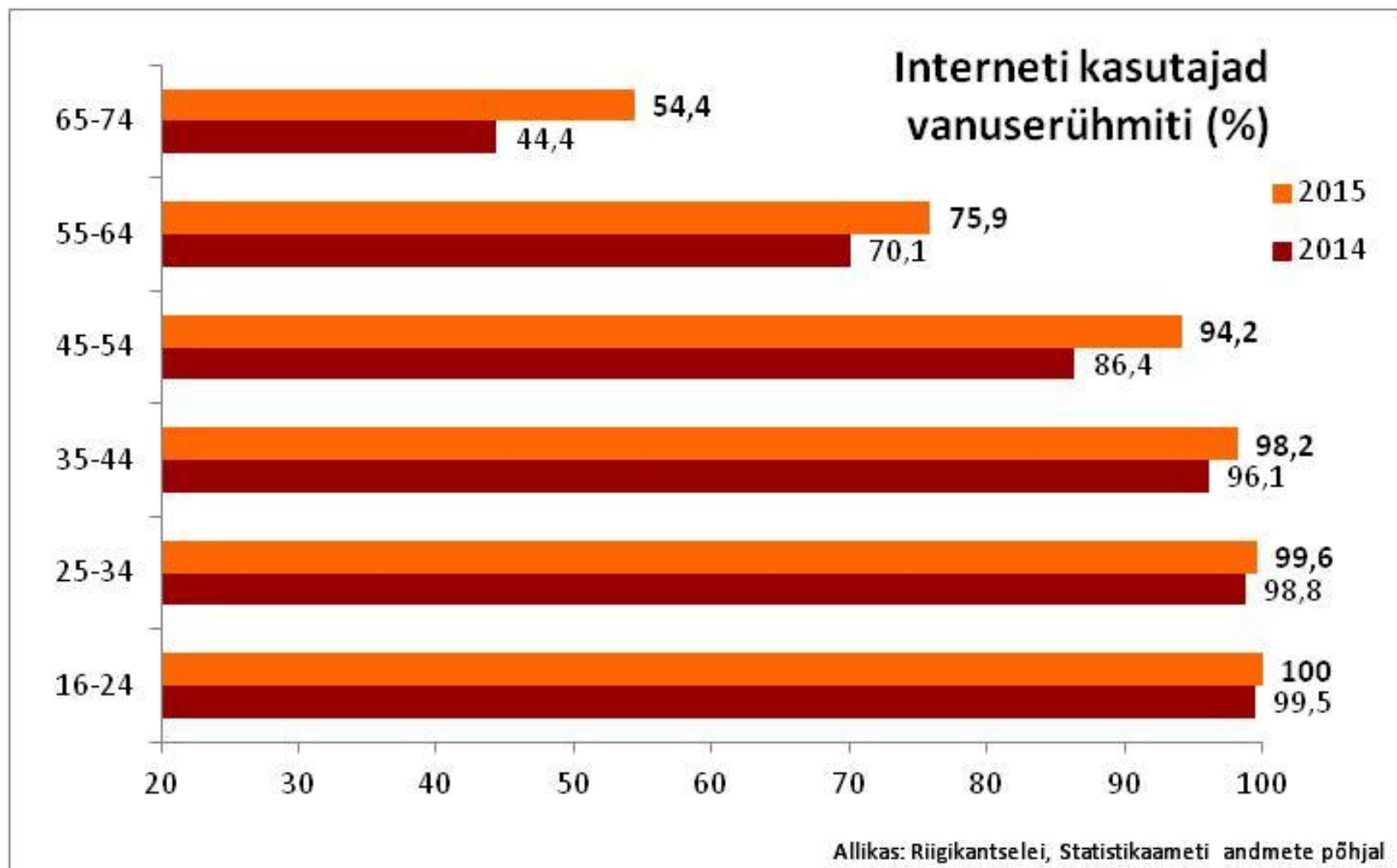
Lasteaiaast ümberõppeni samme vaja



OSKA



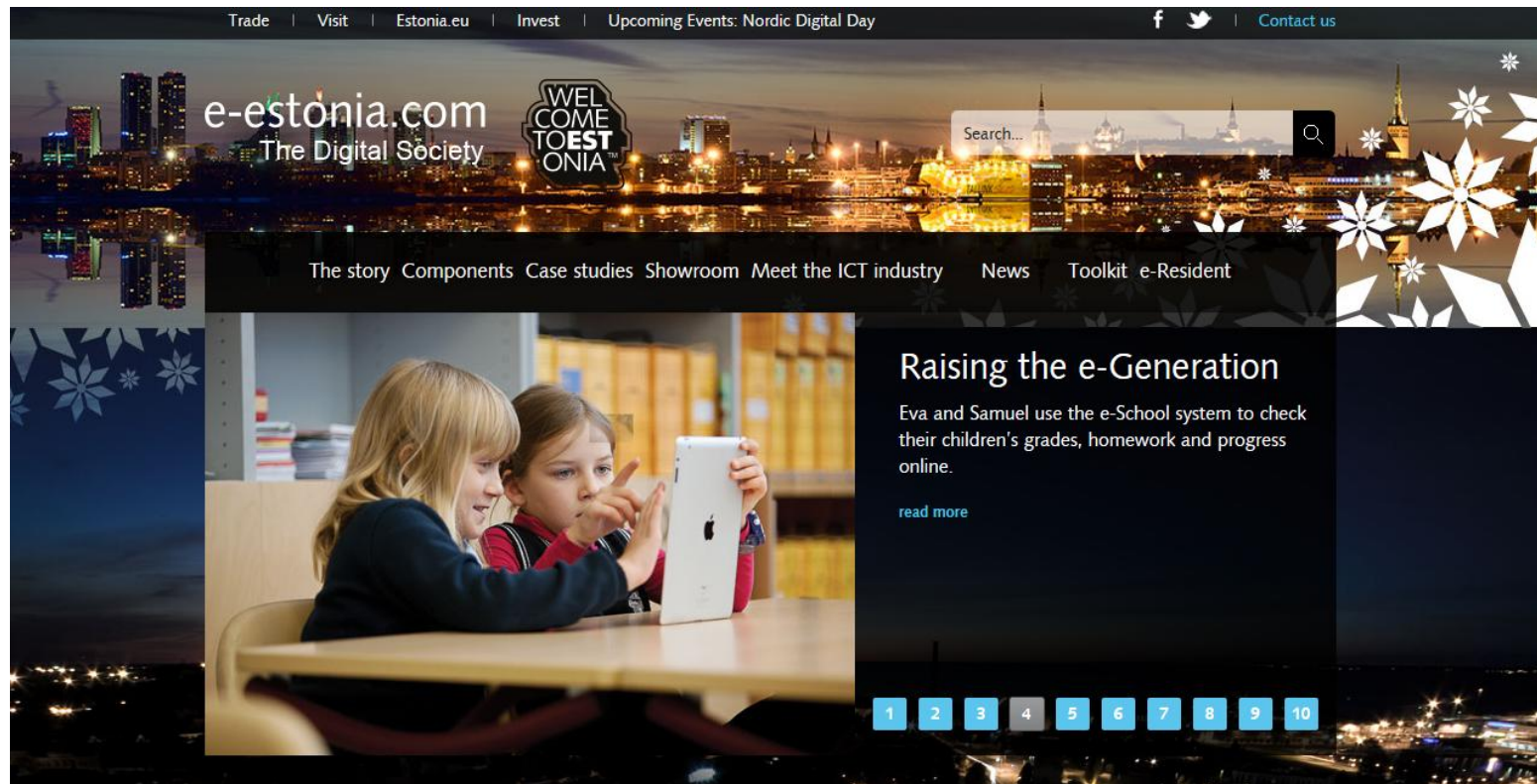
88% inimesi internetis: alusbaas





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GOVERNMENT OFFICE

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The digital society



siim.sikkut@eesti.ee
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Aitäh!