

AI & Skills

Applied Machine Learning Days - EPFL

29.01.2020 - Isabelle Chappuis

Future Skills LAB

Unil

UNIL | Université de Lausanne

HEC Lausanne

Our Speakers today

AI & Skills from the companies's perspectives



Kenneth Younge

Professor

@EPFL

**The Organizational Value of
Training Managers in Data
Science Methods**



Christian Scharff

Partner

@ PwC

Upskilling in practice



Guillermo Barrenetxea

Open Innovation Director Data,
Analytics & AI @ Swisscom

**Education for Data-Driven
Business**



Mieke van de Capelle

CHRO

@Firmenich

**The NOW of Work: how AI is
transforming the Perfume and
Taste industry**

Our Speakers today

AI & Skills from the learners & educators' perspectives



Mara Pasquali

Advisor in Marketing and Communications

@ Independent

From “gut feeling” to “data-driven”
decision making



Frédéric Baffou

Senior Lead Consultant Digital Strategy

@ Antaes Consulting

Learner experience and professional
benefits from Applied Data Science:
Machine Learning program



Pierre Vandergheynst

Vice-Presidence Education

@ EPFL

Education in the 21st century

[Global Agenda](#)

[Switzerland](#)

[Workforce and Employment](#)

[Future of Economic Progress](#)

Switzerland has the most highly skilled workers in the world. This is why





**PLANNED
OBSOLESCENCE**

GOOGLE IT

Which skills for tomorrow ?

One of the main preoccupations of HR Leaders in French speaking part of Switzerland

- 1 Career management & employability**
- 2 *Human Skills Obsolescence***
- 3 Availability of targeted reskilling education programs**

**Survey among 2300 HR leaders (363 answers)
October 2019*

Human Skills Obsolescence = National Security Threat ?

Future Skills Lab

50%

Employers report
lack of skills in hires

ManpowerGroup¹

25%

Obsolescence
of Jobs

McKinsey²

10%

Annual Skills
Obsolescence

World Economic Forum³

¹ https://www.manpower.ch/sites/default/files/06/Infographic_Manpower_TalentShortage_2018_EN.pdf

² <https://www.mckinsey.com/~/media/mckinsey/featured%20insights/future%20of%20organizations/What%20the%20future%20of%20work%20will%20mean%20for%20jobs%20skills%20and%20wages/MG-Jobs-Lost-Jobs-Gained-Report-December-6-2017.asx>

³ <http://www.weforum.org/agenda/2017/07/skill-risk-prepare-future-of-work/>

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2022 Skills Outlook

Growing

- 1 Analytical thinking and innovation
- 2 Active learning and learning strategies
- 3 Creativity, originality and initiative
- 4 Technology design and programming
- 5 Critical thinking and analysis
- 6 Complex problem-solving
- 7 Leadership and social influence
- 8 Emotional intelligence
- 9 Reasoning, problem-solving and ideation
- 10 Systems analysis and evaluation

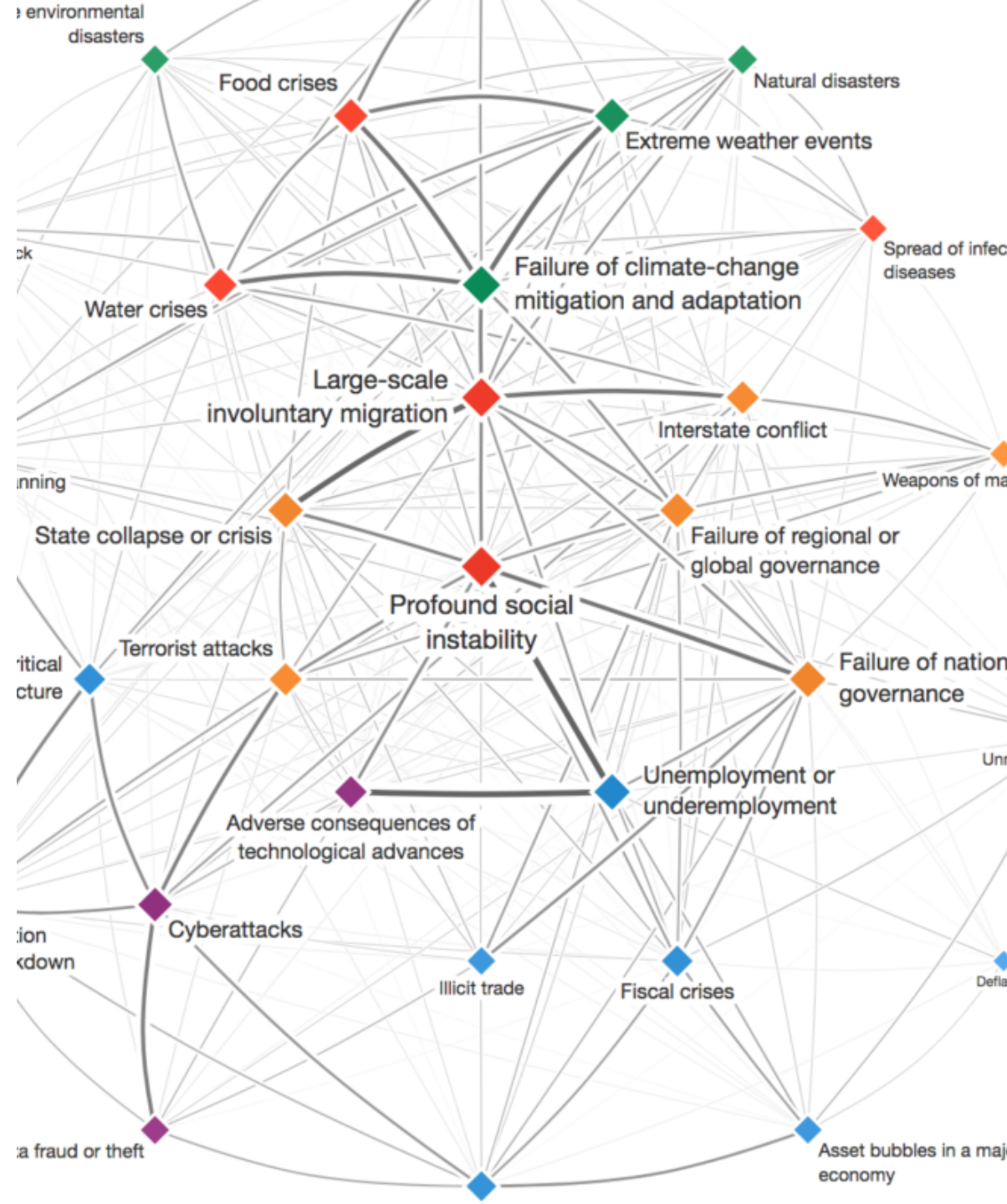
Declining

- 1 Manual dexterity, endurance and precision
- 2 Memory, verbal, auditory and spatial abilities
- 3 Management of financial, material resources
- 4 Technology installation and maintenance
- 5 Reading, writing, math and active listening
- 6 Management of personnel
- 7 Quality control and safety awareness
- 8 Coordination and time management
- 9 Visual, auditory and speech abilities
- 10 Technology use, monitoring and control

The world has gone from “complicated” to “complex”

... and AI has a serious responsibility in the complexification!

- With the exponential acceleration of technologies, the convergence of mega trends and the resulting exponential compression of time, the world has gone from complicated to complex, leaving employers and employees anxious and worried about the future of work
- Jobs are changing and the life span of skills is decreasing drastically.
- Human capital needs to be retrained all the time
- ***BUT WHICH ARE THE SKILLS OF TOMORROW?***





Applied Machine
Learning Days

AMLD EPFL

=> AI & Skills

January 25-29, 2020
Lausanne, Switzerland

25-26 January

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Workshops

30 hands-on sessions

27-29 January

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Main Conference

Keynotes, 29 tracks and
Startup Day

www.appliedmldays.org