



Future Internet specialists.  
Where will we find or wait for them?

Cornel Barbut, AFOR, Vice-President

7<sup>th</sup> of April, Sofia, 2025

## Future Internet specialists. Where will we find or wait for them?

1. Investments in (new) technology = investments in training/learning
2. Where will we find or wait for them?
3. Future Adults internet specialists
4. Future Youth internet specialists
5. Skills required for future internet specialists
6. Potential ways for preparing future internet specialists
7. Conclusions

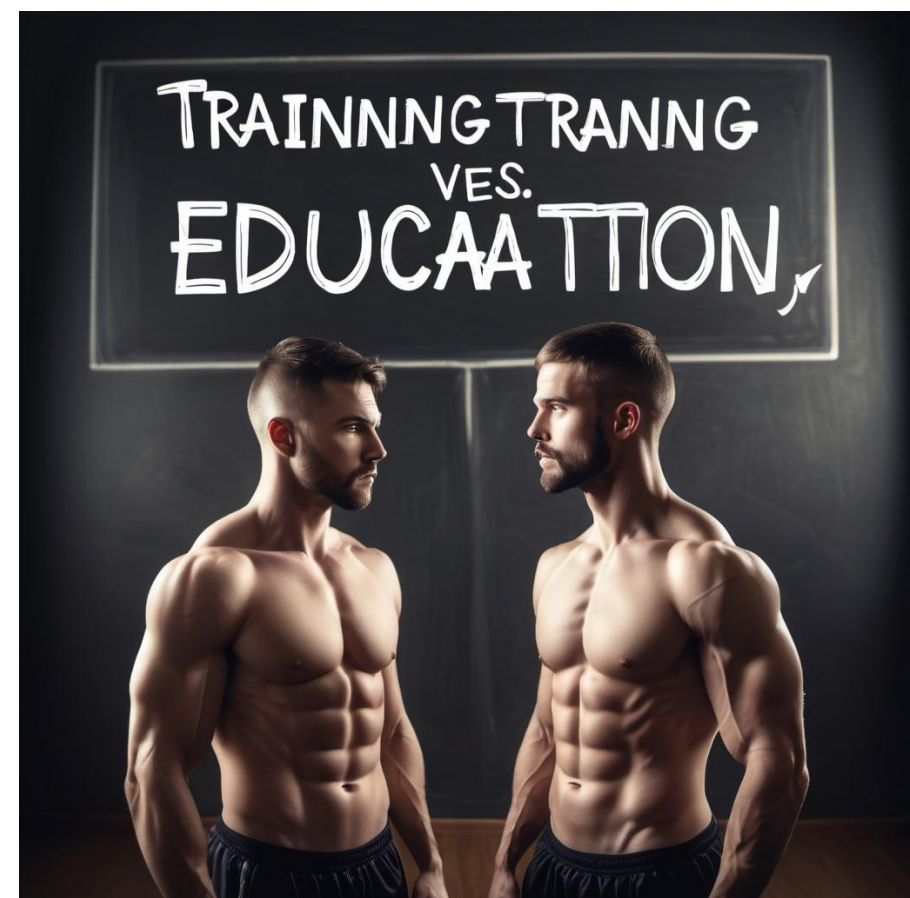


# 1. Investments in (new) technology = investments in training/learning

## Future Internet = ?

## Investments include Trainings ?

Internet of THINGS	When you buy new technology for your company do you invest also in people/trainings?
Internet of EVERYTHING	Do you invest in Trainings as in R&D or Innovation?
Next Generation Internet	Do you invest in Education as CSR or for your employees' families?
AI	Do you have in your company Mentors or Practice Tutor?
Smart Cities	.....
Quantum Internet	
X (new) Social Media	
.....	
People ?	





## 2. Where will we find or wait for them?

HR – interviews – head-hunting  
Waiting for them to come to our office  
Running for them in Social Media  
AI support  
Schools/Universities

.....

Where from can come to us  
the future internet  
specialists?

High-schools/VET schools?  
Secondary schools ?  
Primary schools ?

Trainings versus Education

Adults versus Youngs  
Age of future internet specialists?  
Work contracts will be the same?



HR Recruitment = 1 – 6 months process  
Education for new jobs = 5 years at least

We, adults, are waiting for youth to come to our open jobs?  
Relationship in the companies between the generations



UNIVERSITY



COMPANY

### 3. Future Adults internet specialists

Some examples from my experience in Fiber Optic Networks:

- ✓ Fiber Optic Courses
- ✓ Fiber Optic Infrastructure Courses
  - ✓ Creativity in Business
  - ✓ 5 days / 3 days / 1 day courses
  - ✓ Workshops online/offline
- ✓ Competitions ? Do you grow in your skill?
- ✓ Standards – time for new standards
  - ✓ Education (VET) – learning by teaching/mentoring/tutoring





## 4. Future Youth internet specialists



Some examples for preparing the future Internet specialists as Youth:

- ✓ HR Recruitment / Talent Search
  - ✓ VET Education
- ✓ Youth Competitions / Olympic Games
  - ✓ Professional Camps
  - ✓ Practice / Internship
    - ✓ Hackathons

## 4. Future Youth internet specialists Competitions for Internet for youth



- 2. Information Network Cabling
- 8. Mobile Applications Development
- 9. IT Software Solutions for Business
- 17. Web Technologies
- 23. Autonomous Mobile Robotics
- 39. IT Network Systems Administration
- 40. Graphic Design Technology
- 48. Industry 4.0
- 53. Cloud computing
- 54. Cyber Security
- 63. Robot Systems Integration





4. Future Youth internet specialists  
Competitions for Internet for youth

Information Network Cabling Competition

Performance in Education

Learning Journey for Experts & Students





## 5. Skills required for future internet specialists

In 2030 the jobs will require 90% new skills

Which skills do you think will be required for future internet specialists?



WEF Future of Jobs Report 2025:

1. **Analytical/Creative Thinking**
2. **Resilience**
3. **Flexibility**
4. **Agility**
5. **Curiosity**
6. **Lifelong learning**

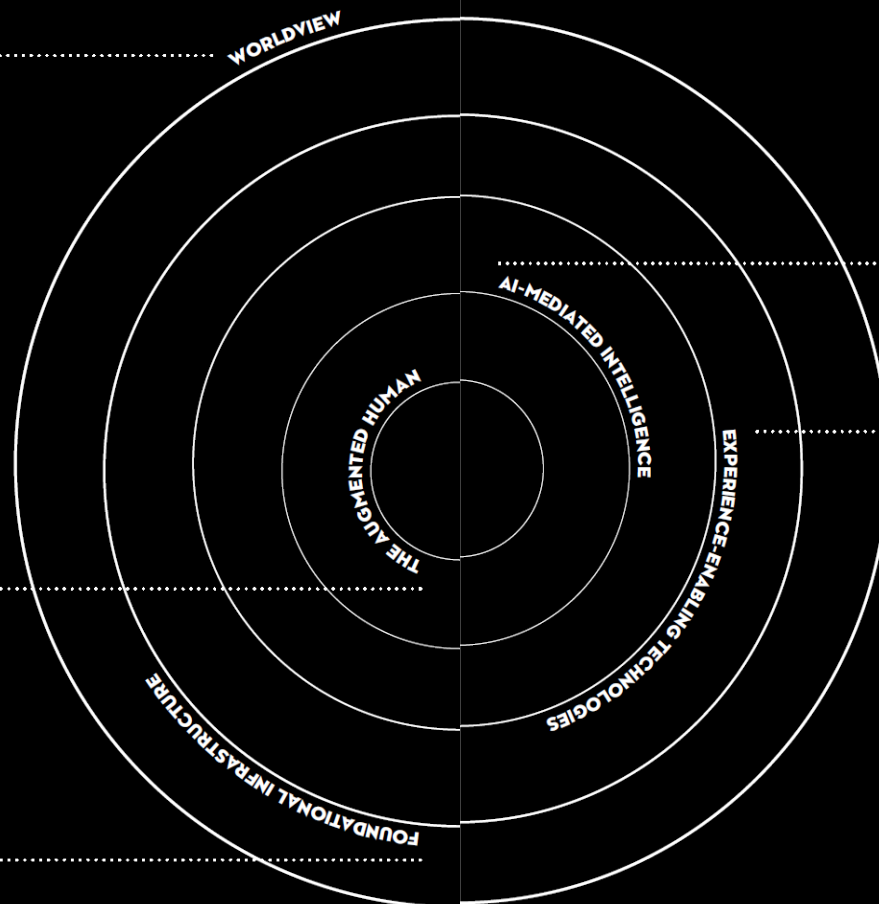
# The AI-mediated framework

- Narratives, cultural norms and values, ethics, and governance.

- Liquid identity, multiple representations, participatory.

- Scalable systems enabling everything in the inner layers.

- Includes interoperable platforms, quantum computing, and digital economies.



- AI systems personalising and adapting interactions.
- **Key enablers:** Contextual data and Agentic AI.
- Tools bridging digital and physical worlds.
- **Examples:** Immersive interfaces (XR), smart ecosystems, Physical AI.

Copenhagen Institute  
for Future Studies

Exploring the futures of  
Technologies, 2025

## WEF Future of Jobs Report 2025:

**Technologies driving  
business  
transformation:**

**AI and information  
processing  
technology: 86%**

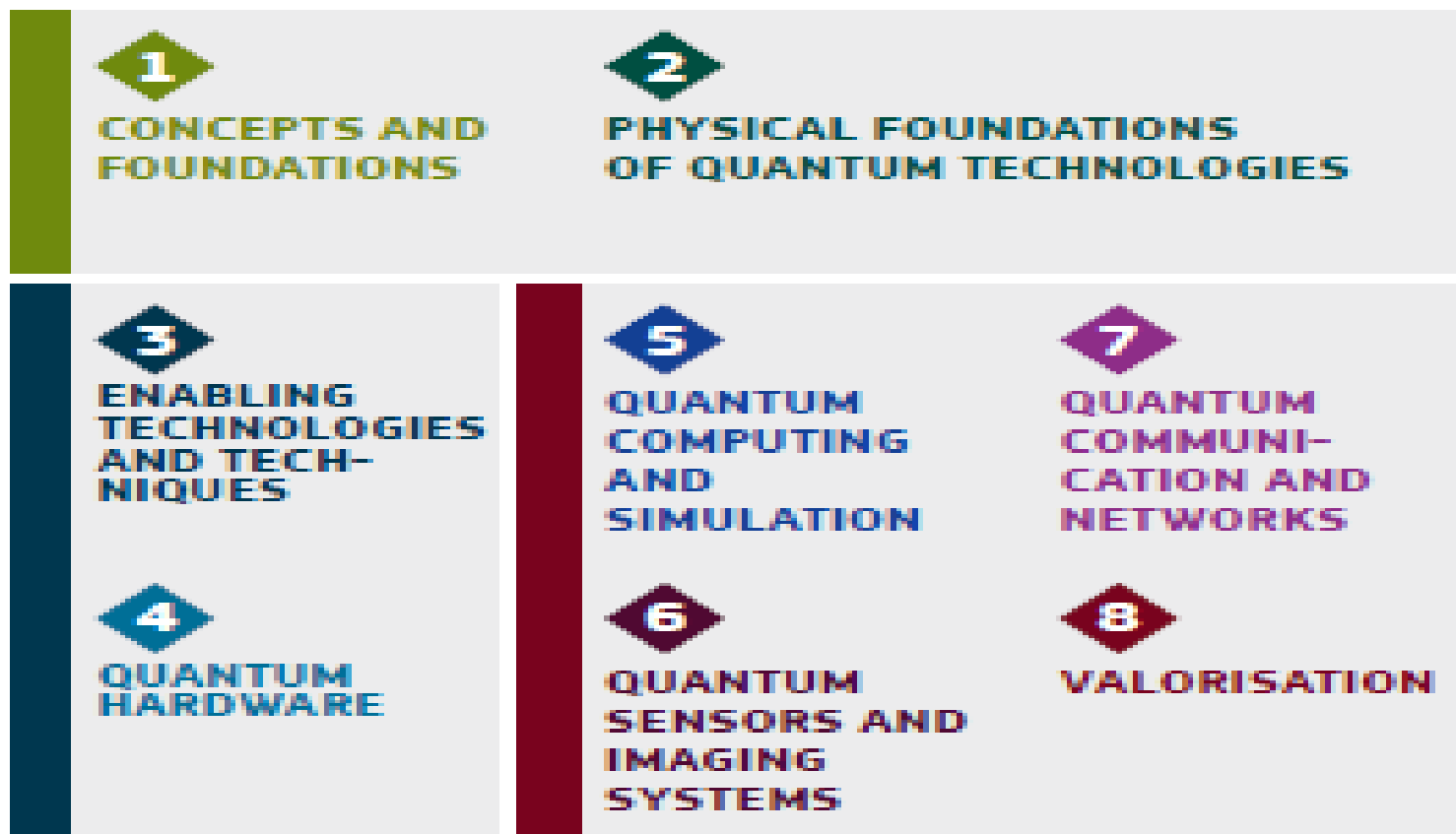


**SEE 13**INTERNATIONAL YEAR OF  
Quantum Science  
and Technology

## 5. Skills required for future internet specialists

### Skills for Quantum Technologies

European Competence Framework for QT



WEF Future of Jobs Report  
2025:

*Technologies driving  
business transformation:*  
Quantum and encryption:  
12%

## 5. Skills required for future internet specialists

### Skills Development in Europe

EAAL - European Agenda for Adult Learning 2021 – 2030: **10% in 2020**

NEAAL 2030 – New European Agenda for Adult Learning 2030: **60% in 2030**

The Reskilling Revolution by World Economic Forum

**(transforming education, skills and learning) – Education 4.0**

Open Education/Open Internet/Open Access/

VET Education

VET Campus

Centers of (Vocational) Excellences



## 6. Potential ways for preparing future internet specialists

**YOUTH:**

Students &gt;18

VET schools &gt;15

**ADULTS:**

Employees

New/Future Employees

Jobless

**SENIORS**

- Learning / Micro-Learning
  - AI framework status – Knowledge/Speaking about/ Implementation/Learning
- Open Education/Open Internet/Open Access/
  - VET Education
  - VET Campus
- Centers of Excellences

Trainings  
Practice  
Apprenticeship  
Education  
Coaching  
Mental Training  
Creativity  
Workshops  
Team Buildings

SEE 13

# 7. Conclusions

All present internet specialists are invited to think and involve in preparation of future specialists.

Where to find them?

How to prepare them?

What skills do they need?

Some proposals for your fast consideration:

- Fiber Optic / Internet Competition in Bulgaria & Balkans in VET schools
- In 2026 first European Competition on Information Network Cabling for youth <25 years
- Center of Excellence in Fiber Optic Technology/Photonics in Bucharest – need for partners
- Involve yourself in Learning, Education and Training for future jobs in your companies



## Cornel Barbut

Vice – President

AFOR

[www.afor.ro](http://www.afor.ro)

+40 720 587837

[cornel.barbut@afor.ro](mailto:cornel.barbut@afor.ro)