

TOP 15 TRENDS

SELECTED BY THE EXPERTS



EXPERTS

- ICT
- BIO & HEALTH
- ENVIRONMENT, ENERGY & CLIMATE CHANGE
- RRI
- ART, DESIGN
- SOCIAL SCIENCES

EVALUATION CRITERIA

CRITERIA	SPECIFIC CRITERIA
Excellence (60%)	1. The trend has a clear and novel long-term vision , strong potential of being further developed in the next 2/3 years. This would serve as a “green light” for researchers to understand their line of research and ideas are FET-material. (25%)
	2. Novelty, non-incrementality and plausibility of the trend for achieving the targeted breakthrough and its foundational character. (25%)
	3. There are means to address high scientific and technological risks raised by this trend. (25%)
	4. Range and added value from interdisciplinarity , including measures for exchange, cross-fertilisation and synergy.(25%)
Impact (20%)	5. Importance of the new technological outcome with regards to its transformational impact on technology and/or society . (33,3%)
	6. Impact on future European scientific and industrial leadership , notably from involvement of new and high potential actors. (33,3%)
	7. There are means to mitigate ethical, societal and environmental risks. (33,3%)
Gut Feeling (20%)	8. What is your gut feeling about this trend: is it the rock star trend (1 of the top 15 trends of highest potential in the following 3 years)? (20%)

ICT

1. Ethically Trustworthy AI

2. Neuromorphic Computing and Biomimetic AI

3. Limits of Quantum Computing: Decoherence

4. Anonymous Analytics

5. Beyond 5G Hardware

BIO & HEALTH

1. Regenerative Medicine

2. Drug Discovery & Manufacture Using AI

3. Bioinformatics & AI in Genetics

4. Cellular Senescence & Life Extension

5. Bio Robotics/Bionics

ENVIRONMENT,
ENERGY & CLIMATE
CHANGE

1. Algae Against Climate Change

2. Energy Efficient Water Treatments

3. Self Healing Batteries

4. Net Zero Buildings

5. Zero Power Sensors