Greek interest in ICT technologies (in accordance with H2020)

HORIZON 2020 PILLAR	PRIORITY	INDICATIVE ANALYSIS	COMMENTS
1. Industrial leadership	*1.1 Components & Systems*	*Cyber-Physical Systems (CPS)*	• JTI on Electronic Components and Systems • New paradigms and concepts for future generations of CPS
1. Industrial leadership	*1.1 Components & Systems*	*Smart Miniaturised Electronic Systems*	• Miniaturised electronic and bio-electronic systems • Organic and large area electronics technologies
1. Industrial leadership	1.1 Components & Systems	Thin, Organic and Large Area Electronics (TOLAE)	Design, research, development, manufacturing and use of Smart Miniaturised Electronic Systems and of TOLAE
1. Industrial leadership	*1.2 Advanced Computing*	*Customised and low-power computing*	Customised low-power heterogeneous computing systems Next generation servers and micro-server systems based on ultra-low power architectures
1. Industrial leadership	*1.3 Future Internet*	*Future networks (Smart Networks and novel Internet Architecture, Smart optical and wireless network technologies)*	Smart networks and novel architectures to support content delivery and access, and to facilitate network configuration and control
1. Industrial leadership	*1.3 Future Internet*	*Advanced network and service infrastructure focusing on 5G*	
1. Industrial leadership	*1.3 Future Internet*	*Cloud computing*	• Advanced cloud infrastructures and services • Innovation measures to support the public and private sector take-up in the context of the European Cloud Partnership
1. Industrial leadership	*1.3 Future Internet*	*Innovative tools and methods for software development*	Complex software-intensive systems, innovative services and collaborative software development
1. Industrial leadership	1.3 Future Internet	Experimental platforms	Experimental facilities supporting experimentally-driven research
1. Industrial leadership	1.3 Future Internet	Collective Awareness platforms	Integrate social media, crowdsourcing mechanisms and Internet of Things to gather information from users and sensors and share knowledge for more informed and sustainability-aware decisions
1. Industrial leadership	1.3 Future Internet	Web Entrepreneurship (WE)	Support to WE by creating an environment favourable to their growth in Europe
1. Industrial leadership	*1.4 Content technologies and information management*	*Big Data and Open Data technologies*	Technologies for extracting value from data; innovation around data services and products with a focus on data services that are cross-sector, cross-lingual and/or cross-border
1. Industrial leadership	1.4 Content technologies and information management	Machine translation	Machine translation that give European citizens access to content in all European languages by 2025
1. Industrial leadership	*1.4 Content technologies and information management*	*Tools for creative content, media and knowledge industries*	• Technologies and tools to support cultural and creative industries in the creative process • Digital gaming technologies and components for serious games and learning • Novel platforms for hybrid audio-visual services • Specific support to Creative SMEs including pilots and start-up incubators will be included

1. Industrial leadership	***1.4 Content technologies and information management***	***Multimodal and Natural Computer Interaction***	Advancing "human-information interaction" based upon multimodal verbal and non verbal communication
1. Industrial leadership	***1.5 Robotics and smart spaces***	***Roadmap-based research in robotics***	
1. Industrial leadership	1.6 Micro- and nano-electronic and Photonics	Micro and nano-electronics	• Support to the micro and nanoelectronics part of the JTI on electronic components and systems • Generic Technology Development on micro- and nanoelectronics focused on advanced research
1. Industrial leadership	1.6 Micro- and nano-electronic and Photonics	Photonics	Support to a photonics public private partnership (PPP) addressing the whole research and innovation value chain
1. Industrial leadership	***1.7 Factories of the Future (PPP FoF)***	***Process optimisation of manufacturing assets***	
1. Industrial leadership	***1.7 Factories of the Future (PPP FoF)***	***ICT-enabled modelling, simulation, analytics and forecasting technologies***	
1. Industrial leadership	1.7 Factories of the Future (PPP FoF)	Innovation for Manufacturing SMEs	
1. Industrial leadership	***1.8 ICT Cross-cutting activities***	***Internet of things***	Platforms for connected devices, objects, smart environments, services and people
1. Industrial leadership	1.8 ICT Cross-cutting activities	Digital SSH	Exploring the interaction between technology and society
1. Industrial leadership	***1.8 ICT Cross-cutting activities***	***Cybersecurity***	Security by design, end to end security (complementing SC7)
1. Industrial leadership	1.8 ICT Cross-cutting activities	International Collaboration	Policy support to developed countries, adaptation to developing countries
1. Industrial leadership	1.8 ICT Cross-cutting activities	Horizontal Support to Innovation	• Access to finance • Support actions to encourage ICT entrepreneurship • Standardisation and patenting • Definition of inducement prizes • Networks of ICT procurers to prepare joint PCPs/PPIs
2. ICT in Societal Challenges	***2.1 Health, demographic change & wellbeing***	ICT solutions for older people with cognitive impairments, robotics in support of active and independent living, ICT solutions for integrated care, Digital representation of health data, adoption of a clinical and reference information model for eHealth, Semantic interoperability of electronic prescriptions, ePrescriptions	e-health, self management of health, improved diagnostics, improved surveillance, health data collection, active ageing, assisted living

2. ICT in Societal Challenges	***2.2 Secure, clean and efficient energy***	Energy efficient building via interoperability of ICT tools, Smart Electricity Grids, Smart cities and communities	Smart cities; Energy efficient buildings; smart electricity grids; smart metering
2. ICT in Societal Challenges	***2.3 Smart, green and integrated transport***	Mobile Services for Intelligent Transport Systems, ICT for smart logistics, Digital infrastructures for transport and mobility	Smart transport equipment, infrastructures and services; innovative transport management systems; safety aspects
2. ICT in Societal Challenges	2.4 Climate action, resource efficiency and raw materials	ICT solutions for water resources management, Roadmap for electronic waste, ICT-enabled citizen-empowerment and interoperability across different information systems at city level	ICT for increased resource efficiency; earth observation and monitoring
2. ICT in Societal Challenges	***2.5 Inclusive, innovative and reflective societies***	Preservation of digital art, ecosystem of digital cultural assets, ICT tools and services for learning and teaching, Digital Social Platforms, emerging ICT technologies in the public sector, eParticipation in open government, M-Government	Digital inclusion; social innovation platforms; e-government services; e-skills and e-learning; e-culture
2. ICT in Societal Challenges	***2.6 Secure societies***	Access Control, Secure Information Sharing, Trust eServices, ICT in Critical Infrastructure Protection	Cyber security; ensuring privacy and protection of human rights on-line
3. Excellent science	***3.1 e-Infrastructures***	***Data-centric science and engineering***	Infrastructure for open access, management of extremely large research datasets, persistence and trust, as well a s community-driven data infrastructures, and global coordination for research data
3. Excellent science	***3.1 e-Infrastructures***	***Computational infrastructure***	Support to setting up of HPC Centres of Excellence, deployment of HPC Tier-0 services, support to open computing platforms and services
3. Excellent science	***3.1 e-Infrastructures***	***GÉANT***	Continued development and operation of the GÉANT infrastructure, support to international links and opening and strengthening innovation activities
3. Excellent science	3.1 e-Infrastructures	e-Infrastructures for virtual research environments/communities	
3. Excellent science	3.1 e-Infrastructures	Policy development and international cooperation	Global reach and connectivity; governance; sustainability; coordination with MS; e-IRG
3. Excellent science	3.2 Future and Emerging Technologies	FET Open	Individual research projects - Early Ideas
3. Excellent science	3.2 Future and Emerging Technologies	FET Proactive	Open research clusters - Incubation
3. Excellent science	3.2 Future and Emerging Technologies	FET Flagships	Common research agendas - Large-Scale Initiatives

HORIZON 2020 PILLAR	PRIORITY	INDICATIVE ANALYSIS	COMMENT
Pillar	*Priority*	*Analysis*	Rows in bold & italics indicate Greek interest in H2020 technologies