ALLEGATO 1

STRATEGIC EMERGING TOPICS	RELATED CLUSTER				
	CLUSTER 5 Climate, Energy and Mobility	CLUSTER 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment			
SUSTAINABILITY AND PROTECTION OF NATURAL RESOURCES	 Iransition to a climate-neutral society enabled through advanced climate science and responses for climate mitigation and adaptation. 	1.Climate neutrality is built by reducing GHG emissions and enhancing the carbon capture and storage in ecosystems, production systems on land and at sea as well as rural, coastal and urban areas, where the adaptation to climate change is also fostered.			
	2.Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative cross-sectoral solutions.	 Biodiversity decline is halted and ecosystems are preserved and restored on land and at sea through improved knowledge and innovation. 			
	 More efficient, clean, secure and competitive energy supply thanks to new solutions for smart grids and energy systems based on more performant renewable energy solutions. 	3.Sustainable and circular management and use of natural resources as well as prevention and removal of pollution are mainstreamed, unlocking the potential of the bio economy boosting competitiveness and guaranteeing healthy soil, freshwater, seas and air for all through better understanding of planetary boundaries and deployment of innovative technologies and other solutions, notably in primary production, forestry and bio-based systems.			
	4.Efficient and sustainable use of energy, accessible and safe for all is ensured thanks to a clean energy system and a just transition	4.Food and nutrition security for all within planetary boundaries is ensured through knowledge and innovations in agriculture, fisheries, aquaculture and food systems, which are sustainable, inclusive, safe and healthy from farm to fork.			
	 Towards climate-neutral and clean solutions across all transport modes through new technologies solutions while increasing global competitiveness of the EU transport sector. 	5.Rural, coastal, peri-urban and urban areas are developed in a sustainable, balanced and inclusive manner thanks to a better understanding of the behavioural, socio-economic and demographic drivers of change as well as digital, social and community-led innovations.			
		6. Innovative governance models enabling sustainability are established in collaboration with international partners through enhanced use of new knowledge, tools, foresight environmental observations as well as digital, modelling and forecasting capabilities.			
CIRCULAR ECONOMY	CLUSTER 1 Health	CLUSTER 4 Digital, Industry and Space	CLUSTER 5 Climate, Energy and Mobility		
	 Citizens stay healthy in a rapidly changing society thanks to healthier lifestyles and behaviours, improved evidence-based health policies, and more effective solutions for health promotion and disease prevention. 	I.Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures (networks, data centres) through innovative production and manufacturing processes and their digitisation, new business models, sustainable-by-design advanced materials and technologies enabling the switch to decarbonisation in all major emitting industrial sectors, including green digital technologies.	 Transition to a climate-neutral society enabled through advanced climate science and responses for climate mitigation and adaptation. 		
	 Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health. 	2. Globally attractive, secure and dynamic data-agile economy by developing and enabling the uptake of the nextgeneration computing and data technologies and infrastructures including space infrastructure and data), enabling the European single market for data with the corresponding data spaces; and a trustworthy artificial intelligence ecosystem.	2.Clean and sustainable transition of the energy and transport sectors towards climate		
	3. Health care providers are able to tackle diseases (infectious diseases, including poverty) related and neglected diseases, non-communicable and rare diseases) and reduce the disease burden effectively thanks to better understanding of diseases and using more effective health technologies.	3. Industrial leadership and increased autonomy in key strategic value chains with security of supply in raw materials, achieved through breakthrough technologies in areas of industrial alliances, dynamic industrial innovation ecosystems and advanced solutions for substitution. resource and energy efficiency. Effective reuse and recycling and clean primary production of raw materials, including critical raw materials.			

STRATEGIC EMERGING TOPICS	RELATED CLUSTER				
TOTICS	CLUSTER 1 Health	CLUSTER 4 Digital, Industry and Space	CLUSTER 5 Climate, Energy and Mobility		
CIRCULAR ECONOMY	4. Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of cost-effective and people-centred solutions, as well as improved evidence-based health policies.	4. Sovereignty in digital technologies and in future emerging enabling technologies by strengthening European capacities in key parts of digital and future supply chains, allowing agile responses to urgent needs, and by investing in early discovery and industrial uptake of new technologies.			
	 Health technologies, new tools and digital solutions are applied effectively thanks to their inclusive, secure and ethical development, delivery and integration in health policies and health and care systems. 	5. Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data, by reinforcing the EU's independent capacity to access space, and securing the autonomy of supply for critical technologies and equipment.	 Towards climate-neutral and clean solutions across all transport modes through new technologies solutions while increasing global competitiveness of the EU transport sector. 		
	 EU health industry is more innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations. 	6. Human-centred and ethical development of digital and industrial technologies ensured through a two-way engagement in the development of technologies, empowering end-users and workers, and supporting social innovation.	6. Safe, seamless, smart, inclusive and sustainable mobility services developed/ensured thanks to digital technologies and advanced satellite navigation services.		
BIODIVERSITY AND ECOSYSTEM SERVICES	CLUSTER 1 Health	CLUSTER 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment			
		1.Climate neutrality is built by reducing GHG emissions and enhancing the carbon capture and storage in ecosystems, production systems on land and at sea as well as rural, coastal and urban areas, where the adaptation to climate change is also fostered.			
	 Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health. 	 Biodiversity decline is halted and ecosystems are preserved and restored on land and at sea through improved knowledge and innovation. 			
	related and neglected diseases, non-communicable and rare diseases) and reduce the	3.Sustainable and circular management and use of natural resources as well as prevention and removal of pollution are mainstreamed, unlocking the potential of the bio economy boosting competitiveness and guaranteeing healthy soil, freshwater, seas and air for all through better understanding of planetary boundaries and deployment of innovativ technologies and other solutions, notably in primary production, forestry and bio-based systems.			
		4.Food and nutrition security for all within planetary boundaries is ensured through knowledge and innovations in agriculture, fisheries, aquaculture and food systems, which are sustainable, inclusive, safe and healthy from farm to fork.			
		5.Rural, coastal, peri-urban and urban areas are developed in a sustainable, balanced and inclusive manner thanks to a better understanding of the behavioural, socio-economic and demographic drivers of change as well as digital, social and community-led innovations.			
	 EU health industry is more innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations. 	6. Innovative governance models enabling sustainability are established in collaboration with international partners through enhanced use of new knowledge, tools, foresight environmental observations as well as digital, modelling and forecasting capabilities.			
	CLUSTER 2 Culture, Creativity and Inclusive Society	CLUSTER 3 Civil Security for Society	CLUSTER 5 Climate, Energy and Mobility		
	 Democratic governance is re-invigorated by improving the accountability, transparency and effectiveness of democratic institutions, safeguarding fundamental rights and the rule of law, and tackling multidimensional threats. 	 Losses from natural, accidental and man-made disasters are reduced through better societal resilience and improved disaster risk management. 	 Transition to a climate-neutral society enabled through advanced climate science and responses for climate mitigation and adaptation. 		
	2.Trust in democracy is restored through the expansion of active and inclusive citizenship.	 Legitimate passengers and shipments travel more easily into the EU, while illicit trades, terrorists and other criminals are prevented, thanks to improved border management and maritime security. 	 Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative cross-sectoral solutions. 		
	 Better protection of historical sites and monuments, cultural landscapes, museums, archives, as well as languages, customs and traditions is achieved through innovative policies, methodologies and citizens' participation. 	 Crime and terrorism are more effectively tackled thanks to a better understanding of societal factors and the development of cutting-edge capabilities for law enforcement agencies. 			

STRATEGIC EMERGING TOPICS	RELATED CLUSTER						
ENVIRONMENT QUALITY	CLUSTER 1 Health	CLUSTER 2 Culture, Creativity and Inclusive Society	CLUSTER 3 Civil Security for Society				
	 Better value, access to, protection and sustainability of cultural heritage across Europe is ensured through innovative cultural and creative sectors. 	4. Resilience and autonomy of physical and digital infrastructures are enhanced and vital societal functions are ensured with the help of modern technologies, as well as better cooperation between stakeholders.	4.Efficient and sustainable use of energy, accessible and safe for all is ensured thanks to a clean energy system and a just transition				
	 Inclusive growth is boosted through evidence based policies for enhancing employment, education, social agenda and tacking inequalities. 	5. Cybersecurity and a secure online environment are increased by effective use of digital technologies supporting protection of data and networks, while respecting privacy and other fundamental rights, and promoting a robust digital infrastructure to counter cyber-attacks.					
	6 Social and economic sustainability are strengthened through a better understanding of the social, ethical, political and economic impacts of drivers of change (technology, globalisation, demographics, mobility and migration).						
HUMAN WELLBEING	CLUSTER 1 Health	CLUSTER 2 Culture, Creativity and Inclusive Society	CLUSTER 3 Civil Security for Society	CLUSTER 6 Food, Bioeconomy, Natural Resources, Agriculture and Environment			
		 Democratic governance is re-invigorated by improving the accountability, transparency and effectiveness of democratic institutions, safeguarding fundamental rights and the rule of law, and tackling multidimensional threats. 	 Losses from natural, accidental and man-made disasters are reduced through better societal resilience and improved disaster risk management. 	1.Climate neutrality is built by reducing GHG emissions and enhancing the carbon capture and storage in ecosystems, production systems on land and at sea as well as rural, coastal and urban areas, where the adaptation to climate change is also fostered.			
	 Living and working environments are health-promoting and sustainable thanks to better understanding of environmental, occupational, social and economic determinants of health. 	2.Trust in democracy is restored through the expansion of active and inclusive citizenship.	 Legitimate passengers and shipments travel more easily into the EU, while illicit trades, terrorists and other criminals are prevented, thanks to improved border management and maritime security. 	2. Biodiversity decline is halted and ecosystems are preserved and restored on land and at			
	3. Health care providers are able to tackle diseases (infectious diseases, including poverty- related and neglected diseases, non-communicable and rare diseases) and reduce the disease burden effectively thanks to better understanding of diseases and using more effective health technologies.	 Better protection of historical sites and monuments, cultural landscapes, museums, archives as well as languages austams and traditions is achieved through inneurative 		3. Sustainable and circular management and use of natural resources as well as prevention and removal of pollution are mainstreamed, unlocking the potential of the bio economy, boosting competitiveness and guaranteeing healthy soil, freshwater, seas and air for all, through better understanding of planetary boundaries and deployment of imnovative technologies and other solutions, notably in primary production, forestry and bio-based systems.			
	4. Health care systems provide equal access to innovative, sustainable and high-quality health care thanks to the development and uptake of cost-effective and people-centred solutions, as well as improved evidence-based health policies.		4. Resilience and autonomy of physical and digital infrastructures are enhanced and vital societal functions are ensured with the help of modern technologies, as well as better cooperation between stakeholders.	4.Food and nutrition security for all within planetary boundaries is ensured through knowledge and innovations in agriculture, fisheries, aquaculture and food systems, which are sustainable, inclusive, safe and healthy from farm to fork.			
	 Health technologies, new tools and digital solutions are applied effectively thanks to their inclusive, secure and ethical development, delivery and integration in health policies and health and care systems. 		5. Cybersecurity and a secure online environment are increased by effective use of digital technologies supporting protection of data and networks, while respecting privacy and other fundamental rights, and promoting a robust digital infrastructure to counter cyber-attacks.	5. Rural, coastal, peri-urban and urban areas are developed in a sustainable, balanced and inclusive manner thanks to a better understanding of the behavioural, socio-economic and demographic drivers of change as well as digital, social and community-led innovations.			
	 EU health industry is more innovative, sustainable and globally competitive thanks to improved up-take of breakthrough technologies and innovations. 	6.Social and economic sustainability are strengthened through a better understanding of the social, ethical, political and economic impacts of drivers of change (technology, globalisation, demographics, mobility and migration).					