

2.4 Proposed additional questions

Participants in the online survey used the opportunity and proposed their own questions and arguments in large extent. Altogether they proposed 718 questions and 853 arguments. Looking at the graph in Figure 6 the most popular themes/needs also exhibit the highest numbers of proposed questions and arguments. However, the most active in proposing questions and arguments were respondents to the theme/need Unity and Cohesion with the ratios between the number proposed questions and the number of respondents (Quest/Resp) 0.15 and between the number proposed arguments and the number of respondents (Arg/Resp) 0.23. More we present in Table 7. We can regard the intensity in proposing questions and arguments as a certain measure of the involvement of the respondents in the debate on the research programmes. From these perspective four themes/needs (Sustainable Energy, Strengths-Based Education and Experiential Learning , Personal Development and Life-Long Processes) exhibit substantial lower involvement than the other themes/needs.

Table 7 Intensity of proposing questions and arguments by themes/needs

	Quest/Resp	Arg/Resp
Sustainable Economy	0.10	0.13
Equality	0.14	0.17
Strengths-Based Education and Experiential Learning	0.06	0.08
Citizenship Awareness and Participation	0.12	0.13
Harmony with Nature	0.11	0.15
Holistic Health	0.10	0.10
Personal Development	0.07	0.08
Sustainable Energy	0.05	0.09
Unity and Cohesion	0.15	0.23
Sustainable Food	0.13	0.18
Green Habitats	0.12	0.14
Life-Long Processes	0.09	0.07

Green highlighted – the highest intensity (activity) in proposing questions and arguments.

In ANNEX III, we present details on the activity in proposing questions and arguments structured by programmes.

The number of proposed questions and arguments was large and it was clear that a number of them will be similar each to other or even only modifications of the initial questions and arguments. Five experts of the Technology Centre were asked to go through the proposed questions and arguments and either to add them to the initial ones or to cluster them in a rather limited number of new/additional questions and arguments. The experts regarded

409 (57%) proposed questions and 573 proposed arguments as only modifications of the initial questions and arguments. The rest i.e. 309 questions and 330 arguments were clustered in 68 and 76 additional questions and arguments respectively. More details on clustering are provided in APPENDIX I and II.

The resulting new questions and arguments are listed in Table 8. This table consists of 12 sub-tables where each refers to one need (theme). Colours of sub-tables correspond to Figure 3.

Table 8 The list of new Questions and Arguments (12 sub tables according to themes/needs)

<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Sustainable Economy	Consume less, enjoy more	How to improve the welfare?	Positive effects for nature
		How to motivate companies for sustainable and consumer-friendly production	Global consequences
		How we accomodate the purchasing and consumer behaviour on the state level?	
	Production awareness	How to implement fair and sustainable economic models?	New production models will emerge
			This should go hand in hand with a more personalised education
			Consumer behaviour will change
	From Wall Street to Main Street	How to foster social function of the market?	Transformation of global /international/ aspects of the market is difficult.
		How to promote local markets?	Financial market should be regulated
	Learning for society	How to adopt education system with regard to the lifelong learning models?	To foster wellbeing and other social needs
		How can economy foster lifelong learning processes?	Complex educatrion and common knowledge system
			A lot of aspects still need to be considered.

<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Equality	Balanced work-life model	How to secure equality and good working conditions at workplace?	Labor market has to change to be more flexible and reflect needs of people and society.
		What are value and ethical aspects of work?	
	Social Economy	What cause and what impact social economy can have?	It is necessary to change financial balance in society
			It is important to consider the role and the position of individuals in social economy
	Empowering diversity in communities	What are potential risks of diversity in the community and how to prevent them?	Searching possibilities how to create diversity in communities
		How can diversity be beneficial?	
	Digital Inclusion	How can new digital technologies improve the educational system towards inclusion?	Not everyone has resources to access and be part of the process of digitalisation.
		How can digital inclusion contribute to the bigger equality in society?	Digitalisation can have an effect on human environment and health.
		How can digital inclusion have an affect on the productivity?	

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Strengths-Based Education and Experiential Learning	Rethinking (the new) “job market needs”		0 There is a need to consider the job market and its future prospects from a larger complexity
			Life-long learning seems to be an important tool in this sense, too.
	Educational ecosystem as a driver of social innovation and local development	How to explore ways of motivation to be educated?	In order to implement a suitable mode of educational ecosystem, transfer or best practice models should be explored
		What are the ways of developing new measurement and standard models for education?	0
	Design literacy and life skills for all	What are the ways to educate teachers or professionals to educate in the updated manner?	
	SWOT (Strengths, Weaknesses, Opportunities, Threats) Technological empowerment	How do we promote the acceptance of technologies by civil society?	We need to go beyond and reinvent new ways of producing knowledge, reintroduce creativity in the process and make it an intelligent collective
		What are the ways of increasing the complexity of intelligence in order to bring in to higher levels?	There is a danger of exclusion of certain groups in the society, as well as inability to exist without technologies for certain groups in the society

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Citizenship Awareness and Participation	Empowered citizens	What is the impact of participation in decision making and how to promote its results?	Digitalisation can lead to social exclusion.
	The transparency toolbox	What output/data should have citizens from participation processes?	
		What are influences on decision making processes?	
	Data for all – Share the power of data.	How should participative processes look like?	This helps against misuse and misrepresenting of data.
			It enables fully exploit the power of data in education and business.
	"Snakes and Ladders".	How to empower marginalized individuals?	
	Connecting scales of issues and actors.		

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Harmony with Nature	Top trending: at one with nature	How can people be supported to switch to more environmentally friendly practices?	Feasibility of transforming technologies in this way is complicated.
		How does consideration of nature in economy contribute to sustainable growth?	Education, training and ethics framing the technology development is important.
		What kind of environmental education is needed for the switch to sustainability?	
		What kind of governance of society, organization of society for harmony with nature and sustainable development?	
	Ecological future education	Which topics, questions should science explore to support switch to nature-respecting living?	
		How to educate for the change of attitudes and behaviours, sustainability and future-thinking?	Education and lifelong learning activities towards sustainability
		How do we create a society where citizens care about the future of the planet?	General knowledge dissemination needs to be improved. It has serious implementation limits.
	Transforming technologies for planet and people	How to make economy and production both more sustainable and economically viable?	Transforming technology feasibility problems
		How do we demonstrate the value of sustainable technology development to society?	Education, training and ethics framing the technology development
		How can we develop, assess and implement technologies to prevent negative side effects?	
	Urban-rural symbiosis	How to promote (sustainable) development of rural areas and make the rural life more attractive taking into account the challenges of the 21st century?	This could improve the quality of life in both urban and rural areas (e.g. green areas, quality food, health, jobs, education).
		What are further wider society challenges to be considered for urban-rural symbiosis?	The symbiosis can significantly improve quality of living spaces and foster adoption of sustainable development. How to break the influence of the capital of agro-food companies, supermarkets and supply chains while promoting retail and direct sales?

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Holistic Health	Access to equal and holistic health services and resources for all citizens	How to design an education for healthcare professionals to offer a holistic approach to patients?	Standardization and harmonisation will help to assure equal access to health care.
		How to develop a positive culture encouraging healthy lifestyles?	Health as a significant economic factor should be involved in decision-making in other sectors.
	Quantitative person-centred health	How to introduce and support the model of "integrative medicine" in the healthcare practice?	This will enable further improvements in healthcare system and policy.
		How to increase citizen awareness of health prevention?	Healthcare costs can be reduced.
		What models of "personalized healthcare" can minimize/prevent its negative effects?	The programme fails to reflect the key social determinants - personal and collective mentality and lifestyles.
	Finding a balance in a fast-paced life	What are the individual options/choices to be addressed to encourage citizens towards the adoption of balanced and healthy lifestyles?	This will make us more resilient society in the future.
		What are the system wide changes needed to achieve a balanced (work-life) lifestyle?	Individual decision and choice are more important than research and regulation.
		How to involve employers more in work-life balance issues/persuade them that it is worth it?	
	Promoting well-being through relating environments	How important are well-being and human relationships in the hierarchy of human values?	Care for a friendly environment could be an advantage of Europe over other global regions.

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Personal Development	(Business) Models for balancing time	How can new business models improve the well-being of the individual and society?	Testing and experience needed
	Personal and organisational choice management	How to foster engagement and motivation?	Ethical aspect for individual and society
	Technology as a means of well-being	How can technology support social inclusion?	The technology must respect the society development
	Meaningful research for society	What are the most relevant research topics for society?	Meaningful (relevant) research criteria

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Sustainable Energy	Beyond energy efficiency: reduce consumption through structural design and behaviour		0 The involvement of citizens in plans that target the reduction of consumption will promote a greater sense of belonging, equality, responsibility and... The potential for reduction seems much higher than for energy efficiency.
	Enabling a market for energy prosumers		A creation of the energy self-sufficient communities will be enabled. It creates an incentive for the application of technologies.
	Smart energy governance	How to end the use of fossil fuels: oil, shale gas, oil sands extraction, etc.?	It is urgent to find locally managed, decentralised, non-polluting, fair and democratic energy solutions. Enabling new distributed energy and storage to participate in existing energy markets will bring benefits to all.
	Interconnected open systems	How to store advantageously spare energy?	

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Unity and Cohesion	Alternative economic model	What are alternative economic models fostering sustainability and welfare?	New alternative economic models can better answer big societal challenges.
			The current system is not working well.
	Community building infrastructures	How to promote the role of education and family towards the inclusion?	It will support community infrastructure development
		What are the conditions of inclusion/ exclusion in Europe?	It is important for succesful social policy and family integration
	Evidence-based community building		Data collection is not trivial.
	Universal basic income – so no-one is left behind	What are the conditions for implentation of the universal basic income?	Decreasing motivation to work
		How to cultivate society in respect of the financial literacy and consumption?	It can bring a lot of benefits to the society and economy
		How to avoid risks of the implematation of the universal basic income?	It can cause variety of social problems.

Need	Programme	New Question	New Argument
Sustainable Food		How can food be produced sustainably?	Responsible and healthy nutrition for all reduces the social costs in public health and increases the quality of life in a collective sense
	Good food research		Create ways to protect the seeds of any kind of "trademark". Recover the original seeds of the species of vegetables, fruits and cereals.
	Responsible use of land	How to manage the sustainable utilization of ecoefficiency and resilience?	A sustainable agriculture will allow to stop the soil impoverishment and deterioration process happening today
	Good quality food for all	What food production system is needed for quality food?	Financially and locally accessible quality food for all is a basis of a healthy lifestyle and prevention.
	Evolving food culture in growing cities	How can we define what is the sustainable food?	Culture is not important, when the entire existence of humanity is in question because of excessive influence of the meat-dairy-egg diet on

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Green Habitats	Moving together (more collective transports)	How can we integrate collective transports with use of renewable energy?	There is a need to develop a transformed network and system of transportation
		How can we integrate bicycle transport?	Complex approach encompassing also social, economic or environmental aspects should be taken into account as well.
	Freedom to choose where we live	How do we relate development in transportation to the protection of natural environment and land use?	An important role will be attributed to transport of people, goods and services
			The rise of quality of life is expected
	Distributed living	How to manage also social aspects of distributed living?	Distributed living brings about significant threats
		How to adapt institutional and legislative framework?	
	The bigger (the cities) the better	How to ensure an efficient implementation of good practices?	This issue has a lot of drawbacks and is actually undesirable to be reached
		What are the ways to design these new features into a city?	
		How to manage social cohesion within sustainability?	

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<i>Need</i>	<i>Programme</i>	<i>New Question</i>	<i>New Argument</i>
Life-Long Processes	Deconstruction of age		0 It is important to have good and reliable information about all kind of products supporting life.
	Health empowerment through "Everyone's science"	How can be research and innovation beneficial in public health?	
		What is needed for succesful public engagement?	
	I'm empowered to lead my changes		
	Here, there and everywhere		