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ANNEX 1

**ANNEX**

*to the*

**COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN  
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL  
COMMITTEE AND THE COMMITTEE OF THE REGIONS**

**Towards a circular economy:  
A zero waste programme for Europe**

{SWD(2014) 206 final}

{SWD(2014) 211 final}

## **Annex: How can Horizon 2020 contribute to the circular economy?**

Circular economy represents a development strategy that entails economic growth without increasing consumption of resources, deeply transform production chains and consumption habits and redesign industrial systems at the system level. It relies on innovation being it technological, social and organisational. It requires a new portfolio skills and knowledge as well as new financial instruments, multistakeholders' involvement. In terms of actions, it may be supported by demonstration, market uptake, awareness, dissemination and internationalisation.

In terms of content, it requires a strong integration across the Industrial Leadership (part II) and Societal Challenges (Part III) parts of Horizon 2020. Since circular economy considers the whole value chain potential, it requires support from all stages of the research and innovation chain. Therefore contribution from the other parts of Horizon 2020 dealing with Excellent Science (part I), Spreading Excellence and Widening Participation (part IV), Science with and for the Society (part V), Non-nuclear direct action of the Joint Research Centre (part VI) and the European Institute of Innovation and Technology (part VII) will be also needed to a certain extent. The contribution of various Horizon 2020 parts to the circular economy are summarised below. To note that the SPIRE PPP and JTI BBI are supported by Horizon 2020 and that they contribute strongly to the goals of circular economy.

<b>CIRCULAR ECONOMY - COMPONENTS</b>																		
Multi stakeholder involvement	Awareness, dissemination and internationalisation	Financial instruments	Skills and knowledge		Organisational innovation			Social innovation			Technological innovation							
			Entrepreneurship	Capacity-building and multi-disciplinary	Policy supporting tools	Business models	Logistics	Integrated solutions and systems	Design services	Product service models	Citizens' involvement	New production and consumption models	Resource management (waste, water, energy and raw materials)	Design of products	Design of materials and processes			
													++	++	European Research Council	<i>Excellent Science</i>		
														+	++		Future and Emerging Technologies	
																	Marie Sklodowska-Curie actions	
															++		++	Research infrastructures
																	<i>Industrial Leadership</i>	
																++		Leadership in enabling and industrial technologies
																		Access to risk finance
																	<i>Societal Challenges</i>	
																		Innovation in SMEs
																		Health, demographic change and wellbeing
																		Food security, sustainable agriculture and forestry, marine and maritime and inland water research
																		Secure, clean and efficient energy
																		Smart, green and integrated transport
																		Climate action, environment, resource efficiency and raw materials
																		Europe in a changing world – inclusive, innovative and reflective societies
																		Secure societies - Protecting freedom and security of Europe and its citizens
																		<i>Spreading excellence and widening participation</i>
																	<i>Science with and for Society</i>	
																	<i>European Institute of Innovation &amp; Technology</i>	
																	<i>Joint Research Centre</i>	

HORIZON 2020

