

**Table 1: Collected recommendations on Health, Safety and Environmental issues (HSE) and Life Cycle Assessment (LCA)**

Health, Safety and Environmental issues (HSE) and Life Cycle Assessment (LCA)									
TITLE OF THE ACTION	TIMELINE			NEEDED RESOURCES (€)					
	short	medium	long	< 50K <sup>1</sup>	50K - 250K	250K - 500K	500K - 1M	1 - 5M	> 5M
IAQ <sup>2</sup> new technologies for reducing pollutant in retrofitted buildings	x				x				
New technologies to combine energy and seismic upgrade of buildings	x								x
Monitoring system and building management system for guaranteeing and demonstrating IEQ <sup>3</sup> and comfort	x					x			
Low carbon and environmental solutions tuned for innovative products for retrofitting existing buildings in NZEB <sup>4</sup>	x	x							x
Study of the complete value & supply chain		x			x				
Unified approach for LCA/LCCA <sup>5</sup>	x	x						x	
Provision of a framework for industry partners to project LCCA		x					x		
Promoting an open database system for embodied energy based on different local products and projects results		x						x	
Monitoring of parameters for retrofitted buildings		x			x				
Integration of HSE representative parameters/aspects in the IoT <sup>6</sup> direction		x			x				
Integration of embodied energy/lifecycle efficiency into architectural design decision-making		x					x		
Establishment and implementation of an EPDB <sup>7</sup> life approach for LCA			x						x
Research and innovation on CO <sub>2</sub> storage and CO <sub>2</sub> activated materials			x					x	

<sup>1</sup> Here 50K stands for 50.000,00 Euros and similarly for the other figures.

<sup>2</sup> IAQ: Indoor air quality

<sup>3</sup> IEQ: Indoor environmental quality

<sup>4</sup> NZEB: Near Zero Energy Building

<sup>5</sup> LCCA: Life Cycle Cost Analysis.

<sup>6</sup> IoT: Internet of Things

<sup>7</sup> EPDB: Energy Performance of Buildings Directive