Table 3: Collected recommendations on technology and process upscaling and demonstration

TITLE OF THE ACTION	TIMELINE			NEEDED RESOURCES (€)					
TECHNOLOGY and PROCESS UPSCALING AND DEMONSTRATION									
	short	medium	long	< 50K[1]	50K - 250K	250K 500K	500K - 1M	1 - 5M	> 5M
Integrate the passive and active solutions for energy efficiency	x					x			
Monitoring system for validation and dissemination	x				x				
Investment for upscaling, industrial production and commercialisation	x							x	
New data integration tool for energy life cycles management of neighborhood (suggested SME Instrument)	x				x				
Support the technology upscaling of disrupting innovation technology for NZEB from TRL 5-7 for retrofitting existing buildings (Suggested Innovation action)	x	x						x	
More focus on an economical evaluation of demonstration prototypes	x	x							
Follow on/follow up funding for demo projects		x					x		
More focus on demonstration actions – need for representative parameters for long time monitoring		x			x				
Financial support to cluster in order to reduce the gap between R&D and market demand Networking.		x							
Eco industrial parks. Symbiosis/circular economy of (early stage) businesses		x							
Development of a new type of local construction		x	x					x	
Royalty based follow-up research for high-level results of selected projects		x	x					x	
Integration with other "worlds" like bioeconomy /ICT/I4.0[2] to create synergies and accelerate adoption		x	x				x	x	x
Mechanisation and use of artificial intelligence (AI) in the early stages			x						x
Adaptive and predictive technologies allowing to move from SCADA[3] to decision support systems			x				x		
More compression solutions for HVAC[4] systems. Greenhouse gases reduction			x						x

[1] Here 50K stands for 50.000,00 Euros and similarly for the other figures.
[2] ICT: information and communication technology. I4.0: Industry 4.0.
[3] Supervisory Control And Data Acquisition.
[4] HVAC: Heating, Ventilating and Air Conditioning.

TECHNOLOGY and PROCESS UPSCALING AND DEMONSTRATION								
TITLE OF THE ACTION	TIMELINE			NEEDED RESOURCES (€)				
	short	medium	long	< 50K[1]	50K - 250K	250K 500K	500K - 1M	1 - 5M	> 5M
Larger number of demonstration projects compensating the economical delta focusing on the most promising								x	