

The evolution of the Environmental Life Cycle Costs (ELCC) in Urban Air Mobility (UAM)

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We assessed the environmental costs of the life cycle of Urban Air Mobility (UAM) services and to verify its evolution, in view of the current focus on this new type of urban mobility. In order to do this, the focus will be on determining the cost components of UAM, which is necessary to verify the distribution of costs for this specific mode and identify where the greatest costs in terms of energy consumption are to be found. The cost analysis and the results of energy consumption analysis should be able to support both industry and public decision makers in the use of UAS (Unmanned Aircraft Systems) for urban mobility devices. By highlighting the strengths and weaknesses of UAM devices, results can support the manufacturing sector and collaborate with public decision-makers by devising collaborative strategies that improve the use of means of transport, with a view to intermodality and sustainability.