

Measuring U-space social and

environmental impact

Performance Framework

To define a set of U-space social and environmental KPIs with the highest possible level of geographical, temporal, demographic, socioeconomic, and behavioural resolution, able to capture the full range of UAM impacts on citizens' quality of life.

Noise

Visual pollution

Privacy concerns

Impact Assessment Toolset



Generation of drone trajectories in urban areas



Modelling of noise and visual pollution maps



Dynamic population mapping using anonymised mobile location data and Earth Observation (EO) data



Modelling of population exposure to noise, visual pollution and privacy concerns



Calculation of KPIs and visualisation in an interactive dashboard



Case studies focused on drone delivery services in the city of Madrid (Spain)

MUSE intends to establish the basis for a future U-space service that supports other U-space services in the minimisation of UAM's negative social and environmental externalities

Future end users



Drone operators

Social and environmental impact assessment of individual UAM operations



U-space traffic manager

Management of UAM flight plan approval based on social and environmental impact on citizens



Policy makers

Identification of new policies and regulations on social and environmental UAM

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