

http://www.mycopter.eu

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Project details

Project title: myCopter – Enabling Technologies for Personal Aerial Vehicles

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Abstract

Considering the prevailing congestion problems with ground-based transportation and the anticipated growth of traffic in the coming decades, a major challenge is to find solutions that combine the best of ground-based and air-based transportation. The optimal solution would consist in creating a personal air transport system (PATS) that can overcome the environmental and financial costs associated with all of our current methods of transport.

We propose an integrated approach to enable the first viable PATS based on Personal Aerial Vehicles (PAVs) envisioned for travelling between homes and working places, and for flying at low altitude in urban environments. Such PAVs should be fully or partially autonomous without requiring ground-based air traffic control. Furthermore, they should operate outside controlled airspace while current air traffic remains unchanged, and should later be integrated into the next generation of controlled airspace.

The myCopter project aims to pave the way for personal aerial vehicles to be used by the general public within the context of such a transport system. The project consortium consists of partners that can make the technology advancements necessary for a viable PATS and of experts on sociotechnological evaluation to assess the impact of the envisioned PATS on society. This project is a unique integration of social investigations and technological advancements that are necessary to move public transportation into the third dimension.

Partners

Max-Planck-Institut für biologische Kybernetik The University of Liverpool École Polytechnique Fédérale de Lausanne Eidgenössische Technische Hochschule Zürich Karlsruher Institut für Technologie Deutsches Zentrum für Luft- und Raumfahrt Tübingen, Germany Liverpool, United Kingdom Lausanne, Switzerland Zürich, Switzerland Karlsruhe,Germany Braunschweig, Germany













