



Main Idea

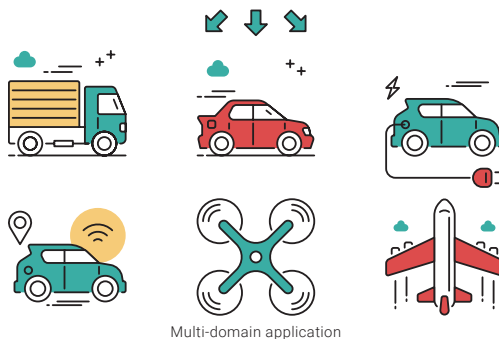
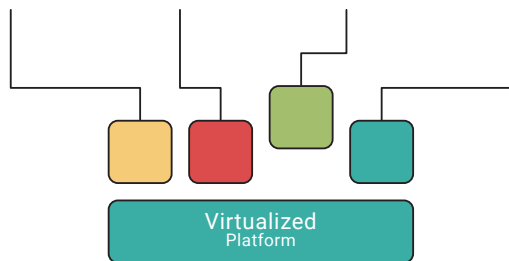
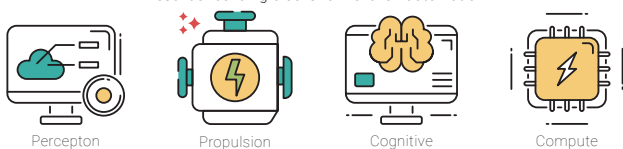
NewControl develops and delivers virtualized platforms for each vehicular sub-system essential to autonomous operation at SAE Level 3+. Each of these unifies the critical components required to realize a specific function – perception, cognition, control – through vertical integration within an adaptive (not rigid) architectural framework. The resulting virtual platforms effectively deliver specific functionalities as services to the vehicular platform, abstracting internal implementation, enabling portability to different application domains, and facilitating modular development of automation that is guaranteed as safe by design.

Goals

-  Increase the accuracy and robustness of algorithms, E/E architectures for adaptive perception.
-  Increase performance, power, reliability, and reduce cost of the on-board computing platforms used for perception, cognition and control.
-  Achieve certifiability of adaptive algorithms for safety-critical control functions.
-  Develop a generalized hardware abstraction layer for efficient, adaptive fail-operational control of propulsion systems across vehicular platforms.
-  Competitive advantage to European industry.
-  Increase user acceptance of automated control functions.

Holistic virtualized platforms enabling mobility as a service

Essential building blocks for Level 3+ automation



Main Facts



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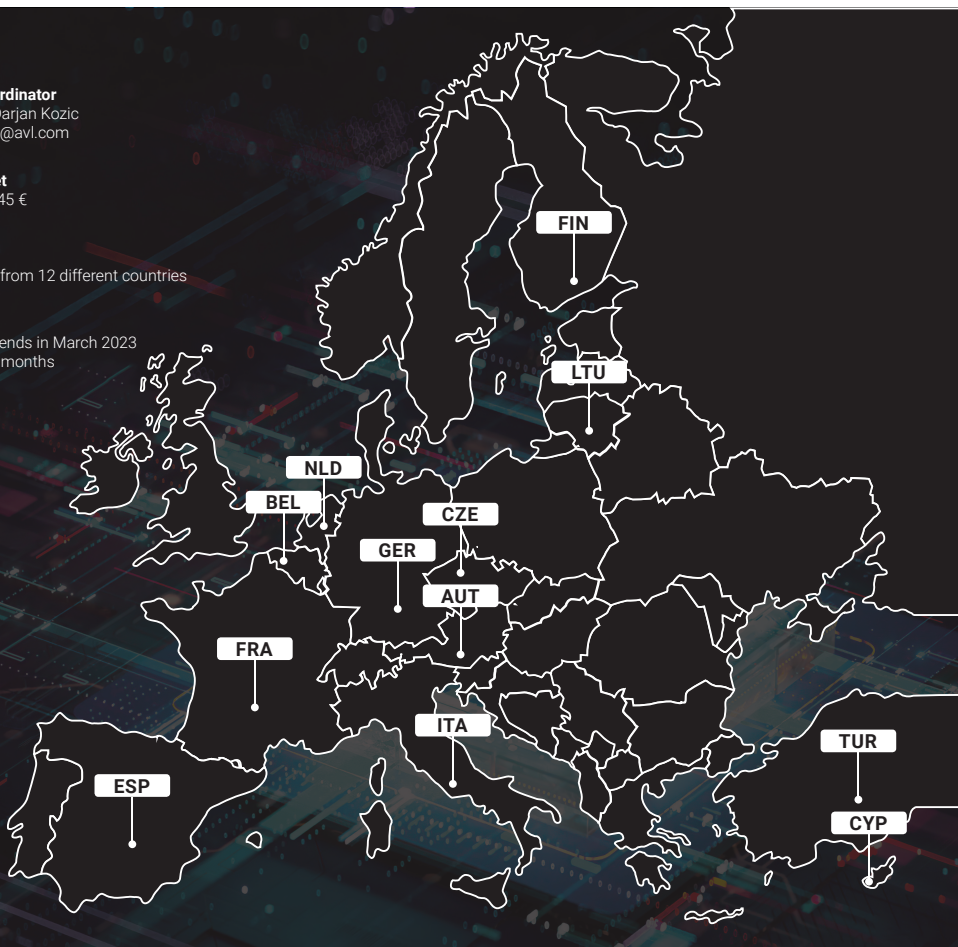
Total Budget
37,858,613.45 €



Partners
43 partners from 12 different countries



Terms
The project ends in March 2023
Duration 48 months



Project Partners

