



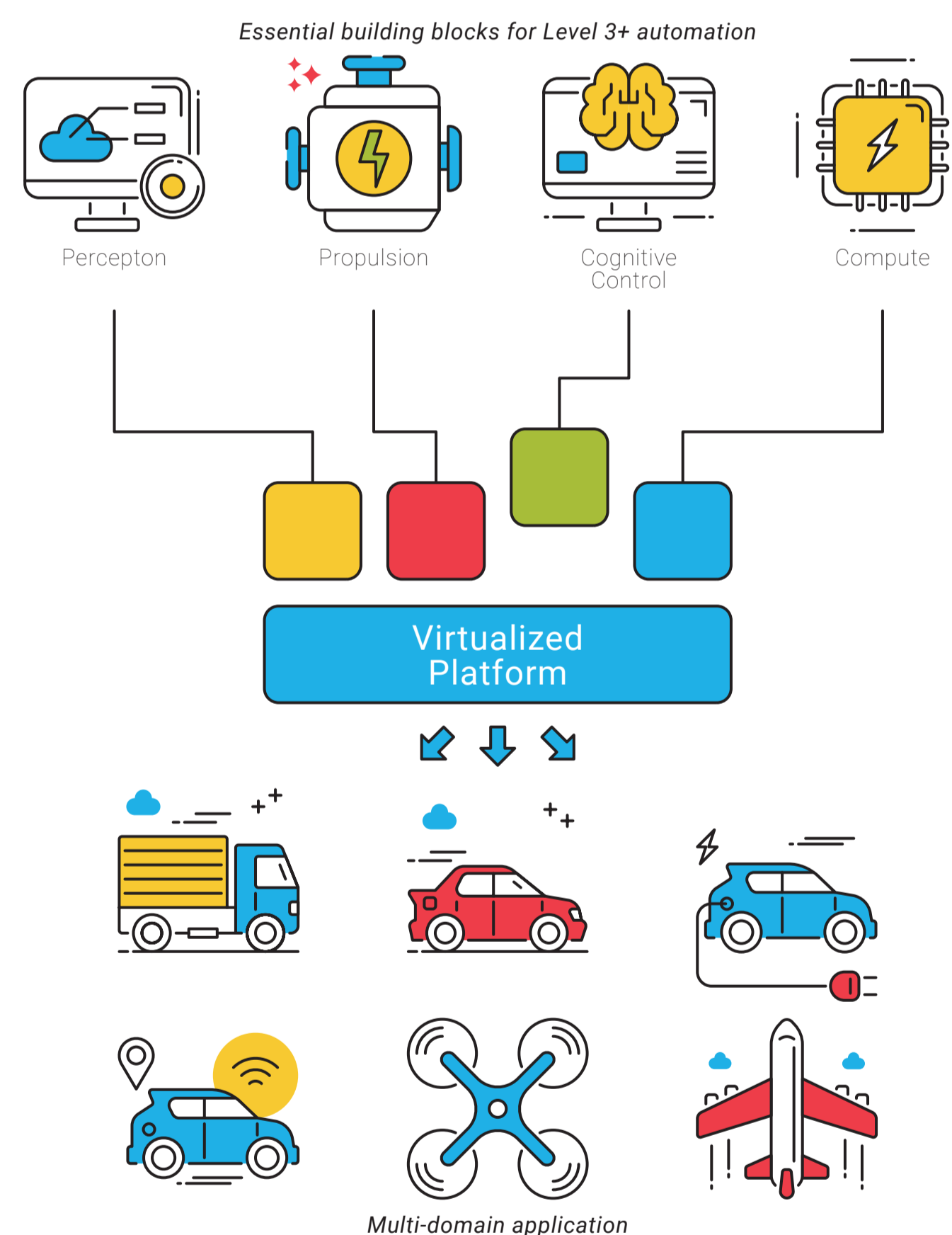
Goals

- 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.

Main Idea

NewControl will develop and deliver 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.

Holistic virtualized platforms enabling mobility as a service



Main Facts

- Project Coordinator**
AVL under Nica Mihai
nica.mihai@avl.com
- Total Budget**
NewControl disposes over a total budget of 37,858,613.45 €
- Partners**
43 partners from 12 different countries are contributing to the success of NewControl
- Terms**
Start date 01 Apr 2019
Duration 45 months

Project Partners

