ALDES
Agile and Lean Development of Embedded Systems

PROJECT IDEA

ALDES develops agile and lean product development methods for safety-critical embedded systems. Agile and lean development methods have been widely recognized in the field of software engineering. Common understanding is that they improve the efficiency and flexibility of the development work and increase productivity also through developers’ well-being at work. ALDES aims to exploit the benefits of agile and lean philosophies in the development of safety-critical embedded systems.

ALDES aims to enhance efficiency of development of complex cyber physical systems through improved fulfilment of the actual user needs, transparent development process and iterative plan refinement. ALDES pays attention on management of technical risks and technical debt in agile and lean projects.

THEMES

> Agile and lean development methods for safety-critical embedded systems.
> Management of technical risks and technical debt.
> Practices to manage safety-critical and authority regulated requirements in distributed agile teams.
> Development of work through enhanced working methods, practices and competences of developers.
> Tools to support agile and lean product development.

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ORGANISATION

> Technology Research Center, University of Turku, Finland

CONSORTIUM STATUS

> 7 SMEs
> 8 LEs
> 13 RIs

MISSING PARTNERS

> Companies keen to develop their ways of working.

CONSORTIUM

(Partners involved/interested)

University of Turku (FI), University of Oulu (FI), Finnish Institute of Occupational Health (FI), FiSMA (FI), Reaktor (FI), Vacon (FI), Schneider Electric (FI), Softteam (FR), Bosch (DE), Mondragon Unibertsitatea (ES), SICS (SE), University of Mannheim (DE), Instituto de Telecomunicacoes (PT), ArcDia (FI), Nextfour (FI), Nordic ID (FI), Ericsson (FI, SE), CEA (FR), University of Novi Sad (RS), Silver Atena (ES), Tecnalia (ES), Hilberia (ES), GMV (ES), UPM (ES), Integrasys (ES), CTTC (ES), Lund University (SE), SAAB (SE)