

Project abstract

Title: Smart Multifunctional Glass

Objective

To develop smart multifunctional glass applications with an integrated electronic control system through industry-wide collaboration, including tests and evaluations in real-world environments.

Abstract

The project idea is to develop smart multifunctional glass for both outdoor and indoor applications. The added features should be interconnected and controlled with a smart electronic system that can be implemented in building automation systems, solutions for smart homes or vehicles. The physical parts of the electronic system should also be integrable in building and vehicle components such as windows/facades, indoor partitions, panoramic roofs etc.

The composition of the project group creates a good environment for a productive project. Research expertise in glass, electronics, smart systems and printed electronics are complemented with industrial knowledge in electrochromic products, solar cells, windows, facades, vehicles and property management. A successful project creates a whole new product range that can be tailored to the needs of the customer and offer unique solutions that do not exist on the market today.

Development of smart electronic systems is a shared challenge for the involved industrial partners, an area that is internally seen as strategically important to meet future demands and international competition. The proposed project creates a unique opportunity for the industry partners to meet around this challenge and discuss future development and collaborations.

This project proposal was preceded by a feasibility study in which several functions and solutions were evaluated from both a technical and a commercial perspective. The most promising features for further development were identified in the study, laying the foundation for the proposed continuation project.

Co-ordinator: RISE Research Institutes of Sweden AB

Project manager: Jerry Eriksson

E-mail project manager: jerry.eriksson@ri.se

Phone: +46 10 516 63 55

Other project partners: RISE Acreo AB, ChromoGenics AB, Inwido Sverige AB, Hancap AB, Solibro Research AB, Vasakronan AB, Volvo Personvagnar AB

Total cost of project: 8 000 000 kronor

Total grant: 4 000 000 kronor