

FZI LIVING LABS: A NEW SERVICE IN RESEARCH TRANSFER

Living Labs present a new research paradigm placing technology transfer and the application environment in the limelight of interdisciplinary research and development. FZI Living Labs are a new FZI service that transforms ideas from research and development into marketable products. In the FZI Living Labs, project partners work together with FZI professors and scientists to design, discuss, evaluate and test concepts, tools, software and systems under real life conditions prior to market launch.

THE IDEA BEHIND OUR FZI LIVING LABS

Technology and knowledge transfer with a broad range of positive effects:

- Participative research by scientists, experts from industry and users
- Concentrated provision of interdisciplinary, scientific know-how
- Practical trials for engineering and IT applications before market launch
- Thorough tryout of innovative concepts for your products
- Offering feedback of market knowledge into research
- Triggering innovative impulses
- Encouraging exchange between technology and application
- Environment for open innovation



THE FZI HOUSE OF LIVING LABS

The FZI House of Living Labs incorporates all FZI Living Labs in one building and offers a modern infrastructure for development, evaluation and demonstration of trend-setting technologies. Researchers from FZI and partners from industry and society can exchange across fields of application and develop interdisciplinarily integrated solutions in information and communication technology. Profit from our FZI Living Labs as a platform for integration and technologies!

The FZI House of Living Labs is funded by the European Union – European Regional Development Fund, and by the Ministry of Finance and Economy Baden-Württemberg. More information at www.rwb-efre.baden-wuerttemberg.de and at http://ec.europa.eu/regional_policy/index_de.htm.

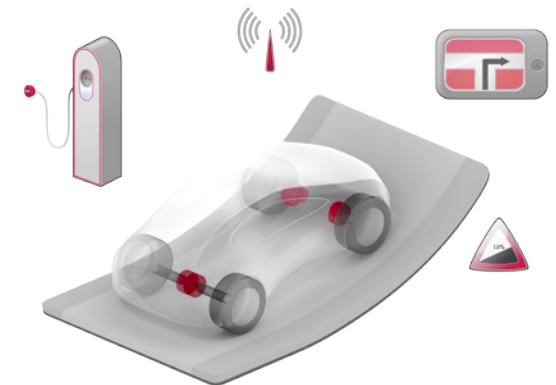


CONTACT

Dr. Alexander Viehl
 Tel: +49 721 9654-414
 E-Mail: viehl@fzi.de



FZI Forschungszentrum Informatik
 Haid-und-Neu-Str. 10-14
 76131 Karlsruhe
www.fzi.de | fzi@fzi.de



FZI LIVING LAB smartMOBILITY

Services, Integration Concepts and Systems for the Mobility of the Future



FZI LIVING LAB smartMOBILITY

Sustainable mobility – connected and intermodal – will be an essential topic in the future. New mobility concepts for people, vehicles and traffic can contribute to a more economical and environmentally friendly transport of individuals and goods as well as connect the capacities of all traffic participants in an intelligent way.

Sustainable mobility contains not only new vehicles and more efficient engines. Mobility concepts and services also aim at a simple, integrated and intelligent availability of mobility on the one hand, and at support provided by mobile systems on the other hand.

In the FZI Living Lab smartMobility, researchers from FZI and their partners research, test and demonstrate innovative mobility solutions in order to provide support without transition for people in everyday life and ensure sustainable mobility.

The FZI Living Lab smartMobility is engaged in the following research topics:

- How to build the electric vehicle of the future by using intelligent IT so that there is no difference in comfort and range when compared to today's vehicles with combustion engines
- Research in how to provide support for tomorrow's mobility systems to accompany people from door to door as personal navigation assistance
- Studies on charging electric vehicles with intelligent charging strategies, under consideration of energy network and resources

EQUIPMENT

With our specially modified electric car a next-generation vehicle is available for research purposes. Apart from its innovative engine components, the vehicle has an extended, fully available energy management of integrated energy circuits which provides new driving, operating and recuperation strategies.

Several platforms, such as small, flexible vehicles for personal mobility and support of electro mobility in short range are also part of the equipment in the lab. This makes it possible to implement integrated mobility chains up to the inner area of a building. With this purpose in mind, the vehicle „CityPod“ was constructed. As a single seat vehicle it is capable of transporting individuals as well as providing autonomous mobility as required. Furthermore, technologies for vehicle integration into smart energy concepts and the interconnection of vehicles are available in the lab.



COOPERATION OPPORTUNITIES

CONSULTING

- Consulting on methods and technologies of connected mobility
- Consulting on studies about methods, services and algorithms

EVALUATION

- Evaluation and identification of appropriate application scenarios
- Evaluation of hardware components

RESEARCH

- Support and completion of research and development competencies
- Assistance in research projects
- Feasibility analysis

