Join Forces with the Software-Cluster Europe's Silicon Valley

German Expertise for Smart Solutions in the USA

The Software-Cluster: Europe's Silicon Valley for Enterprise Software

- Germany's #1 software region
- Birthplace of business software
- The highest turnover in European software clusters: € 25bn annual turnover
- 11,000+ software companies with 134,000 employees in the region
- Leading-edge cluster acknowledged by the German Federal Government
- Software-Cluster cities Karlsruhe and Darmstadt are among the Top 10 European ICT hubs
- Software industry ecosystem at eye-level with London and Paris
- Headquarters of SAP SE and Software AG: Europe's largest and 4th largest software companies
- Prestigious computer science faculties and research institutions such as the Fraunhofer Institutes, the German Research Center for Artificial Intelligence and the Technical University of Darmstadt
- Innovation Leader: concepts such as "Industry 4.0" (Industrial Internet) or "Smart Services" originate from the Software-Cluster

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The highest annual turnover in European software clusters

The SCIKE project focuses on the internationalization of the cluster region. Therefore, innovation projects with partners from Silicon Valley (USA), Singapore and Bahia (Brazil) have been implemented.

SCIKE Project: Innovation Through Internationalization

The German Federal Ministry of Education and Research funds the SCIKE project through the internationalization of the Leading-Edge Clusters funding program. The aim of SCIKE is to enable cooperation between the Software-Cluster and Silicon Valley focusing on software-defined platforms (Smart Traffic Analytics and industrial data space).

Services for Silicon Valley Partners

✓ Strengthen your international network with the help of partner enterprises, Software-Cluster research institutions and network

✓ Acquire knowledge and be at the cutting edge of the latest trends

✓ Gain visibility in Germany and beyond: Become a project or networking partner

✓ Access to cutting-edge smart factory testing facilities in the Software-Cluster

✓ Access knowledge and expertise: Transform these into enterprise roadmaps or national programs

Services for German Partners

- Facilitating German-US cooperation in the field of software-defined platforms
- Supporting Software-Cluster members in finding R&D partners in Silicon Valley
- Organizing events and delegation trips to Silicon Valley
- Identifying funding opportunities for R&D projects

- Providing information on R&D, markets and innovations through reports on the innovation system in Silicon Valley and trends in software-defined platforms
- Providing news through the SCIKE website and newsletters

Germany: A World Leader in Technology and Innovation

As a world leader in industrial production, Germany has one of the world's most competitive and innovative manufacturing industry sectors. Germany is the center of future-oriented applied research with specific expertise in Industry 4.0, Smart Services, Digital Economy and Intelligent Mobility. Within only a few years' time, the term Industry 4.0, which originated from the Software-Cluster, has developed to an international brand. Collaboration with the Software-Cluster—the hub for smart solutions "Made in Germany" —involves gaining access to a wider network and IoT expertise, which supports vertical integration within various business processes and industrial domains.

Facts & Figures Germany

GDP (3rd quarter 2016)	€794.220 billion
Value added by the manufacturing sector of global GDP (2015)	22.57% (7th)
R&D spending by industry (2014)	1.95%
Internal R&D expenditure (2014)	€57 billion
R&D personnel (2014)	371,000

List of sources: Statistisches Bundesamt,
www.TheGlobalEconomy.com,
www.research-in-germany.org

SCIKE-Silicon Valley

A Case Study of German-Silicon Valley Cooperation

Project SCIKE-Silicon Valley

Duration 3.5 years, 2016–2019

Funding The Federal Ministry of Education and Research

Objectives Implementing industry-sector-specific vertical integration for the application areas Smart City, IoT, and I4.0. Those are based on interdisciplinary technologies ranging over data acquisition, sensor technology, and data modeling, analysis, and prediction, as well as integration based on software-defined networks and platforms.

Motivation

Customized IoT for Silicon Valley

Now already densely connected, data intensive environments are characteristic for all industrial sectors entailing their individual challenges and opportunities.

In the context of SCIKE, the German Software-Cluster partners will bring in their expertise in integrated, vertical process support by starting with vertical integrations in two case-study areas of application—"Smart City" and "Industrial Data Space". Both are based on interdisciplinary technologies coming from data collection, sensor technology, networking on the basis of software-defined networks and platforms, and data modeling, analysis and prediction.

Within the application area "Industrial Data Space" the innovative use of IoT data helps mechanical engineering and technology enterprises to optimize market-oriented business processes in B2B markets. Progressing the achievements of smart city technologies constitutes the second focus of the cooperation. Here, multiple information and communication technologies and IoT solutions are combined in a secure fashion to face the challenges of urban management.

The SCIKE partners are looking for further cooperation and networking partners to apply IoT solutions resulting from the SCIKE project to other contexts.

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German Project Partners

The German Research Center for Artificial Intelligence (DFKI)

is the leading German research institute in the field of innovative software technology

www.dfki.de

Competence Center for Computer Science Saarland

is the leading organization to connect and promote IT researches and entrepreneurs of the Saarland Informatics Campus

www.informatik-saarland.de

[ui!] - the urban institute®

Software and consulting company for real time solutions – leveraging a smart city's data multiple use of services

www.ui.city/us/

Technical University of Darmstadt (TU Darmstadt)

SCIKE Project lead, Software-Cluster international office

www.software-cluster.com

Silicon Valley Project Partners

Sustainable Silicon Valley

a non-profit organization dedicated to improving the quality of life in Silicon Valley

www.wp.sustainablesv.org

Urban Integrated USA

vividly merges the diverse data sources within a city and visualizes them on a single surface in real time

www.urbanintegrated.com

Siemens

with the Berkeley Research Center: primarily focuses on the "Web of Things" (WoT)

www.siemens.com

EIT Digital

is a leading European digital innovation and entrepreneurial education organization driving Europe's digital transformation

180 Sansome Street San Francisco, CA 94104

www.eitdigital.eu