

## SmartCity Innovation Labs

Companies developing solutions in Smart City need testbeds for their solutions.

The following list of living labs, maker spaces and other testing and developing facilities geared towards smart city solutions will help companies and research institutions to further their innovations.

Name	Location	Topic	Infrastructure	Website
<b>DFKI</b>	Kaiserslautern, Saarbrücken, Bremen, Berlin	<p>In the field of innovative software technologies that are based on methods of artificial intelligence, the DFKI is one of Germany's leading research institutions linked to business interests.</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>• <a href="#">Advanced Driver Assistance Systems Living Lab</a></li> <li>• <a href="#">Ambient Assisted Living Laboratory - BAALL</a></li> <li>• <a href="#">Innovative Retail Laboratory - IRL</a></li> <li>• <a href="#">Robotics Exploration Laboratory</a></li> <li>• <a href="#">SmartCity Living Lab</a></li> <li>• <a href="#">SmartFactory Laboratory</a></li> <li>• <a href="#">smart office space</a></li> </ul>	As a Living Lab, the DFKI serves not only as a scientific research laboratory, but also as a temporary working space for members of the University of Kaiserslautern and the DFKI. The people working in the Living Lab use trendsetting technologies and also act as test persons for purposes of evaluation and further developments.	<a href="https://www.dfki.de/web/living-labs-de">https://www.dfki.de/web/living-labs-de</a>
<b>WeLL</b>	Belgium	The WeLL aims to put technology at the service of citizen' well-being and health professionals. By integrating users at the heart of the reflexion process, we anticipate changes and needs in health matters and ensure a greater appropriation of innovations. Our mission is to promote the emergence, to guide and support innovative projects and to develop new	The WeLL works with facilitators. Each Living Lab has its own team of qualified people who will be present throughout the whole process to support projects and promote their implementation. They can also give ideas, start projects or calls for projects. Indeed, the team is the «fuel» that turns the wheel of the Living Lab	<a href="http://well-livinglab.be/english/">http://well-livinglab.be/english/</a>



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		<p>technologies or new uses from what already exists</p> <p>The WeLL feeds on projects. Anyone can bring a project in a Living Lab: citizen, user, company whatever its size, organization, innovative concept designer, public institutions, start-up, school or university, etc; big and small projects, products, services, technical, artistic, methodological or awareness projects.</p>	<p>The facilitators will use methods and tools. Because bringing ideas, defining concepts and implementing solutions requires expertise, skills and above all, a lot of positive energy. To do this, the facilitators will organize creative workshops, rapid prototyping processes, real environment tests and many events.</p> <p>The Facilitators are part of an ecosystem. A group of actors, of companies, of organizations, in short, people who will support the work of the Living Lab by providing skills and resources.</p>	
<b>e-Care Lab</b>	France	<p>The e-Care Lab mission is to stimulate innovative products/services and design healthcare solutions for autonomy with all health stakeholders (health professionals, patients, home services and companies). This mission is declined in three axis: developing an integrative vision of care processes to ensure a better match between the supply of technologic products / related services and the needs of patients and / or practitioners; optimizing the integration of solutions developed in the process of care or in the medico-social support for patients and carers; developing safer, less invasive and more targeted technical medical procedures.</p>	<p>e-Care Lab offers a space test design, a clinical space validation, a life space assessment. It provides an organization to identify and label innovative projects addressing technical, organizational and social challenges in care.</p>	<p><a href="http://www.medicalpros.eu">http://www.medicalpros.eu</a>  <a href="http://www.innovage-project.eu/sites/default/files/5-INNOVAge_1stIntermediateEvent_Workshop_eCareLL_A_DEBAG.pdf">http://www.innovage-project.eu/sites/default/files/5-INNOVAge_1stIntermediateEvent_Workshop_eCareLL_A_DEBAG.pdf</a></p>



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<b>Lab4Living</b>	UK	<p>Lab4Living is a collaborative interdisciplinary research initiative between the Art and Design Research Centre (ADRC) and the Centre for Health and Social Care Research (CHSCR) at Sheffield Hallam University, UK. This creative collaboration brings together researchers from the disciplines of design, creative practice and healthcare who have extensive experience related to social, clinical and medical care, disability and ageing. Openness is demonstrated by Lab4Living’s commitment to the development and implementation of inclusive and innovative co-creation methods and formats to engage as wide a community as possible. <b>Head up</b> is a project funded by the National Institute for Health Research (NIHR) and supported by the Motor Neurone Disease Association (MNDA) and by MND patients and carers. We are actively working with them in a collaborative process to enable us to understand their needs and to co-create solutions.</p>	<p>Lab4Living not only refers to the collaborative partnerships between our researchers. The Lab4Living is also the physical space where much of our research takes place. This space is a state-of-the-art experimental area where it’s possible to conduct both qualitative and quantitative studies of human behaviour and to understand individuals’ interactions with the built environment.</p>	<a href="http://www.Lab4Living.org.uk">www.Lab4Living.org.uk</a>
<b>Doll</b>	Denmark	<p>Together with our partner organisations, our team of around 35 employees strive to make Greater Copenhagen the leading region in the world for green transformation and growth. Our strategy is based on the use of regional and local demand to develop, demonstrate and deploy new energy and resource efficient solutions to climate and energy.</p> <p>In DOLL Living Lab, we exhibit the latest solutions for outdoor lighting with LED technology, intelligent management and integration of Smart City technology, sensors and Wi-Fi, providing new opportunities to improve and streamline municipal services to citizens and businesses. The role of DOLL</p>	<p>DOLL, Danish Outdoor Lighting Lab, is Gate 21 first Living Lab. DOLL has since its opening in September 2014 become Europe’s largest showroom and outdoor lab for lighting and smart city solutions. In the suburbs of Copenhagen, an industry park has become Europe’s foremost arena for manufacturers and suppliers to present and test the newest lighting and Smart City solutions. Technologically, DOLL Living Lab consists of 14 kilometer of road with state-of-the-art lighting infrastructure and a control room where different management systems are demonstrated. The</p>	<a href="http://www.lightinglab.dk/UK/">http://www.lightinglab.dk/UK/</a>



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		<p>is primarily to support decision makers and city planners when deciding on outdoor lighting and Smart City solutions. Secondly to enable private providers of urban infrastructure, components and services to demonstrate and test new technologies and solutions in a 1:1 scale environment.</p>	<p>benchmarking opportunity of different technological solutions set up in such a vicinity of each other make the lab unique.</p> <p>DOLL also offers test and modelling possibilities, DOLL Quality Lab offers state-of-the-art scientific test facilities to characterize light sources, fixtures, lamps and lighting components, whereas DOLL Virtual Lab make 3D-computer models making it possible to program luminaires' and sockets' effect, distribution, reflection and glare. Important projects for DOLL is twofold; 1) SUS – Smart Urban Services platform will deploy sensor networks and communication systems in the urban service sectors, 2) Lighting Metropolis a flagship project in Greater Copenhagen, combining the strengths of eastern Denmark and southern Sweden.</p>	
<p><b>FZI Living Lab Smart Energy</b></p>	<p>Germany</p>	<ol style="list-style-type: none"> <li>1. Participative research of science, industry and other operators</li> <li>2. Focused allocation of interdisciplinary scientific know-how</li> <li>3. Field tests for engineering and IT-applications prior to market launch</li> <li>4. Holistic testing of innovative concepts for your products</li> <li>5. Feedback of market expertise to research</li> <li>6. Releasing of innovation pulses</li> <li>7. Moderation between technology and practice</li> <li>8. Room for open innovation</li> </ol> <p>The FZI Living Lab smartEnergy offers an interdisciplinary</p>	<p>The FZI House of Living Labs brings together under one roof all FZI Living Labs and offers modern infrastructure for the development, evaluation and presentation of future technologies. Here, scientists and partners of the FZI from industry and society are given room for an exchange across their various application domains. Interdisciplinarily, they can thus develop integrative solutions for informations and communications technology.</p> <p>The power generation in the FZI House of Living Labs (HoLL) is carried out by a decentralised generator. To</p>	<p><a href="http://www.fzi.de">www.fzi.de</a></p> <p><a href="https://www.fzi.de/fileadmin/user_upload/PDF/2013-10-01_Flyer_ISPE-IIK_smartE">https://www.fzi.de/fileadmin/user_upload/PDF/2013-10-01_Flyer_ISPE-IIK_smartE</a></p>



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		<p>research environment for the development of solutions for the future energy system.</p> <p>The FZI house of Living Labs was equipped with modern technology for the purposes of allocation, storage and flexible usage of thermal and electric energy. Thus, methods newly developed in the FZI Living Lab smartEnergy can be practically evaluated and demonstrated.</p>	<p>this end, a photovoltaic system with a storage system and modern inverter system was installed. A cogeneration unit additionally supplies thermal energy that is used for heating in winter and powers an adsorption refrigeration system in summer. Through a thermal buffer storage, power generation can be partially decoupled from power consumption. For the system's networking, various building automation systems (such as KNX, HabiTEQ, wEnergy) are applied.</p>	<p><a href="#">nergy Web.pdf</a></p>
<b>Thess-Ahall</b>	Greece	<p>The lab fosters initiatives encouraging regional development and healthcare systems sustainability by the provision of novel technologies and innovation. The lab is actively engaged with the end-users and relevant community stakeholders, actively pursuing co-creation and co-design of technological solutions to improve health and social conditions and facilitate independent living. The main goal is to facilitate the ultimate aim of speeding up innovation, collaboration, development and testing of more accurate services, which is achieved by the early involvement of users as co-creators.</p>	<p>The environment set-ups consist of a living-room space, a bathroom-like space and a hall-kitchen space, all in the same room. A number of elderly volunteers periodically visit the environments, performing a set of daily activities.</p>	<p><a href="http://www.aha-livinglabs.com/">http://www.aha-livinglabs.com/</a></p>
<b>S.S.I</b>	Spain	<p>The living lab is a pioneering infrastructure that attempts to simulate the different rooms of a home with advanced technology.</p> <p>Integrated Social Services Group S. Coop is a cooperative of companies of social initiative declared of public utility that offers professional services to individuals and institutions in the areas of attention to people in situation of dependence and / or</p>	<p>It has 100 square metres and adapted beds and baths, an hydraulic motor cranes, a modular kitchen, etc., resources that are equipped with technological advances that make it easier to care for elderly dependent people. It also has user friendly touch screen computers that avoid having to use a mouse and keyboard for people with reduced mobility, and that using software allow carrying out videoconferences. Its</p>	<p><a href="http://www.grupossi.es">http://www.grupossi.es</a></p>



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		<p>social vulnerability.</p> <p>The group is made up of 5 organizations : 4 cooperatives and an association, which integrate, in addition to social intervention services, a R &amp; D unit (Home Care Lab) and a knowledge center, SSI Training Center.</p>	<p>most innovating technological characteristic is a hydraulic motor crane system that hung from the ceiling can move the dependent users from their wheelchair to any room in the simulated home.</p>	
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