



European Network of Design for Resilient Entrepreneurship

Newsletter n.3/2015



Co-funded by the
Erasmus+ Programme
of the European Union

5G Innovation Center The next generation of mobile communication technology

The 5G Innovation Centre (5GIC) at the University of Surrey is now the largest UK academic research centre dedicated to the development of the next generation of mobile and wireless communications. Bringing together leading academic expertise and key industry partners in a shared vision, the 5GIC will help to define and develop the 5G infrastructure that will underpin the way we communicate, work and live our everyday lives in the future.

The 5GIC has been set up to drive the delivery of a mobile communications and wireless connectivity capable of meeting the needs of tomorrow's connected society and digital economy. Part of the University's Institute for Communication Systems (ICS), it draws on Surrey's internationally leading work and knowledge in mobile communications, Internet of Things (IoT), satellite communications and broadcasting, Connected cars and Future Internet. Research in the Centre is conducted in close collaboration with 5GIC's members, who represent all aspects of the mobile communications domain, and include the major telecom service providers, infrastructure vendors and device manufacturers.



Situated on the University of Surrey's Guildford campus, the 5GIC houses 170 researchers in a purpose-built building.

At the heart of the 5GIC is a state-of-the-art testbed - the world's leading independent testbed for trialing emerging 5G ideas, proving concepts, validating standards and vendor inter-operability testing. This equips researchers with a fully-functioning advanced 4G network

which, over time, will be upgraded to a fully-fledged 5G system, enabling the development and testing of 5G prototype technologies in a real world situation. The testbed covers an area of 4km² comprising indoor and outdoor environments and supports broadband mobile and IoT. The Centre

also hosts dedicated specialist laboratories for network testing and management, and communications electronics.

The 5GIC is funded by £12 million from HEFCE (the Higher Education Funding Council for England) and by over £68 million co-investment from the Centre's industry and regional partners, including the EM3 Local Enterprise Partnership.

See more at <http://www.surrey.ac.uk/5gic>

Shaping the Future with the Internet Festival

The event will take place in Pisa from 8 to 11 October. Four days with great speakers, exhibitions, shows, installations, labs, games and workshops that will animate 20 locations in the city.



Space for the Digital revolution is the main theme of the Internet Festival 2015, an event promoted by several Italian institutions and companies, including the University of Pisa. The digital space is borderless and continuously changing.

Thanks to the autonomy of the net explorers, space is never the same because it changes through the aggregations generated by affinity, spontaneity and randomness. New spaces grow up and organize themselves by following the changes provided by technology, economy, and politics, thus giving life to a virtuous circuit whose single elements are in a strict and collaborative environment. Everybody is asked to live this space, to build and reorganize it, by making it an engine for innovation and change.

The Festival is organised around various themes.

DIGITAL GARAGE - What processes can generate innovation in a world where lines are replaced by networks, directional processes by branched structures, hierarchies by interactions? Open innovation, co-planning, externalisation, grassroots innovation, fablabs, co-working, the sharing economy: all these are phenomena centred on - and generated by - this vital transformation. Particular significance is attached to all forms of open innovation, to open up channels of communication and relationships between those involved in the process of product innovation: hardware startups, skills suppliers, investors, mentors, industrial partners. "Hands on" is the keyword of this area - hands on things and instruments to try and test, learn and experiment. The project is the starting point for early experimentation that can turn theories into mechanisms and hypotheses into prototypes.

HACKORTO - The Open Source spirit of the Internet regenerates the space of cultivated fields, rebuilding the small-scale agricultural economy and restoring production back to its central position. Innovation facilitates the emergence of renewed production and distribution systems, thanks partly to long-distance collaboration, Big Data and the Internet of Things, which through the Internet contribute to the development of concrete solutions to optimise food production. Intelligent agriculture will allow us to better understand the optimal conditions for production and how to plan scalable solutions.

LIVING CULTURE - In modern homes, the living space is where life happens, where most of our time is spent. For Internet Festival it's the natural place for living surrounded by culture and considering how innovation can create and reinvent cultural spaces, generating groupings and relationships between communities, creativity, investors and administration, thus giving culture the value of a social "yeast" for rights and citizenship, and making it a functional bond between communities, for the development of society as a whole.

PORTO FRANCO - Technological innovation as a ductile and pliant element for building spaces where hackers and coders transfer ideological conflicts and tests of strength to a world (dis)order that reproduces and returns to the real world; here, among the immediate consequences of war, migratory waves of entire populations are generated, alongside systematic violence and the destruction of cultural heritage. Ductility and pliancy on the other hand allow concrete technological bridges to be built for sharing experiences and learning about developing countries. Porto Franco is the starting point for hacking space and creating support networks for civil, social and territorial emergencies.

DIGITAL SCENE - The spotlight is on marketing, on the Web and international law, on the virtuous relationships between large, small and medium-sized business, sector associations, startups, young people and global digital citizens, on the recreational and educational use of the Web for children. Contest, challenge, panels, encounters, mentoring and "coder" parties, for four days packed with ideas and networking.

GAME BOX - The game box is not used only in free time, but is a powerful and inclusive tool for building social, cultural, political and economic innovation. It's an aggregating element. A conveyance for education, information and promotion. The term "gamification" is making a thunderous entrance into the organisation of companies and public administration, revolutionising processes and relations. Creativity and storytelling design scenarios of wide significance. Far beyond playful sociability.

IF TERMINAL - Internet Festival is the place where highly digital current topics such as music, theatre, cooking, big data and sport meet people and personalities in an informal yet knowledgeable mix to enjoy, inspire, teach, train, inform and stimulate.

T-TOUR - Educational and informative activities based on digital culture for the curious, the enthusiastic and the expert of all ages and school groups of every type and level.

See the full programme at www.internetfestival.it

The Surrey 100 Investment Club. A Source of Constant Innovation

Stephen Mooney, CEO of iVeridis and Synoptic Technologies, highlights the quality of startups in the Surrey 100 investment club.

For the past 18 months I have had the pleasure of helping the [Surrey 100](#) investment club to run their bi-monthly events. For those Angel investors or fund-seeking start-ups that haven't heard of the Surrey 100, you really should look it up, as it is one of the top investor clubs in the country.



Unlike many other models, the club, backed by the University of Surrey, does not charge presenting companies for the investor readiness training they receive, nor does it take a success fee upon successful investment. Instead, the club charges a nominal annual membership to the investors, to keep the club functioning and keep the investors honest.

I enjoy helping out with the club and in turn I get to stay attuned to some of the most innovative businesses from around the UK and EU. It is extremely satisfying to see the rapid improvement of entrepreneur pitches, something that will help them in further fundraising as well as future sales. The level of ingenuity and innovation across multiple sectors constantly astounds me.

Recently the club has started bringing back former presenting companies to give an update and occasionally raise more funds, and their stories also provide the greatest testament to the success of this Surrey institution.

The success stories of fraud/security solution **Contego**, password innovator **PixelPin** and med-tech company **Fourth State Medicine**, to name but a few, are key indicators of the club's accomplishments.

Last night's event was another that did not disappoint. Despite the torrential rain and a broken down vehicle on the motorway, top investors, including former 3i chief and club president Michael Queen, made the journey to see 6 impressive companies pitch for investment. While everyone has their favourites, I was particularly struck by the following:

- **Movivo** (<http://www.movivo.mobi/>): an easy way to discover new mobile content and earn free airtime to top up your mobile-you are awarded airtime for trying new apps, offers etc. The founder has a strong promotion network and excellent traction in India.
- **Meet & Jam** (<https://meetandjam.com/>): founded by ex-Timeout exec Peter Fiennes, they are bringing musicians and their support network together, a LinkedIn of the music industry.
- **Wriggle** (<http://www.getawriggleon.com/>): the online, last minute food service provider that allows you to buy last minute meal deals from your mobile.

As with all events, the quality of the presentations was fabulous. If you are interested in presenting or joining the club as an investor I suggest you **contact the club** immediately.

MOBnet, a new project for supporting young entrepreneurs to start or develop their businesses



MOBILITY · NETWORKING · ENTREPRENEURSHIP

MOBNET is a project addressed to young entrepreneurs, funded by the European Commission under the framework of EuropeAID as part of New Euro-Mediterranean Initiative for the

Promotion of Youth Employment. CEDIT, which was already part of the Erasmus for Young Entrepreneurs network, is now participating in this project. The other partners are Oxfam Italia and ASEV in Italy, MOUVES in France, REMESS in Morocco and TCSE in Tunisia.

The main aim of the project is encouraging cross-border exchange of knowledge, experience and human capital, and facilitating the organization of 52 exchanges: these young entrepreneurs (12 from Italy and France, 14 from Morocco and Tunisia) will have the opportunity to have a

professional experience abroad in one of the countries of the other side of the Mediterranean Sea. The exchange of experience takes place during a stay (from 1 to 3 months) with an experienced entrepreneur, which helps the new entrepreneur acquire the skills needed to run a small enterprise. During these months they will have the chance of developing their business skills and exchanging entrepreneurial ideas with the aim of creating a new network and business opportunities.

At the same time, also the project partners will create a network with other intermediary and support organizations, such as business organizations, women and youth's associations and public bodies, in order to facilitate business development.

MOBNET also aspires to encourage the entrepreneurship mindset of young people with particular regard to companies able to generate innovation in the social business.

You can find more information at the project's website: www.mobnetproject.com

Invitalia Ventures, the new fund financed by the Ministry of Economic Development, for SMEs and innovative start-ups

A new venture capital fund for a capital investment of 50 million Euros for innovative startups and SMEs. It's the challenge that Invitalia Ventures launches for start-ups: the selected ones will receive an investment of around 500 thousand Euros each; over 100 start-ups will then be financed. Invitalia Ventures will enter the start-ups' equity for a period between 5 and 7 years.

An excellent opportunity for start-ups which are entering the market and a great opportunity for a country like Italy which still continues to experience a lower rate of investment if compared to other countries. Indeed, data relating to year 2014 highlight that the total investments in hi-tech start-ups are 118 million Euros, with a decrease of 9% if compared to 2013 (Observatory of the Politecnico di Milano) and early stage investments (seed and startup) did not exceed 43 million Euros (data from AIFI - Italian Association of Private Equity and Venture Capital).

In a modern financial system, the role of investment in venture capital is of fundamental importance in many respects. For companies, addressing to specialized operators can raise capital to support the start-up phase, new development plans and new strategies.

A further advantage is the availability of managerial know-how which the investor provides to the company to achieve its development goals and this also allows to create new contacts, new networks and new collaborations that result into an acceleration in the growth of the business.

Therefore, investment in venture capital substantially contributes to the development of the industrial system and of the economy as a whole, selecting companies with rapid growth rates and providing them with the necessary capital to develop. It is in this context that Invitalia Ventures and Polo Tecnologico di Navacchio (Pisa) have announced a collaboration agreement to identify investment opportunities in highly innovative sectors, opening a privileged and strategic path which will



facilitate both businesses and start-ups inside Polo and the activity of Invitalia Ventures.

“With the signing of this agreement, the first for Invitalia Ventures with a Technology Park - says Andrea Di Benedetto, President of Polo Navacchio - our Polo is increasingly becoming a place of opportunities for companies. Investing in a company, in fact, means to start a series of complex operations, beginning with the identification of the most deserving start-ups. Polo Tecnologico di Navacchio, with this collaboration, will facilitate the task of Invitalia by providing its “heritage” of skills, companies and innovative start-ups and will therefore ease and promote the attraction of capital in the territory”.

IDEA leads a new project to promote Green and Women's entrepreneurship between Denmark and Germany

IDEA Entrepreneurship Centre (University of Southern Denmark) starts a new project funded by the EU Interreg. The project aims to promote entrepreneurship among university students in the border region between Denmark and Germany. Apart from IDEA the partners are: Fachhochschule Flensburg, Universität Flensburg, Campus Business Box, Kiel and Wissenschaftszentrum, Kiel (all Germany).

In the future we need, more than ever, the innovation potential that lies dormant in the universities. At the same time many qualified people leave the region after higher education. These conflicting trends must be counteracted through systematically opposed measures.

The project aims to promote the innovation dynamics in the region through a special initiatives program. We expect an increase of higher education (HE) start-ups, especially we (1) intend to increase the number of female founders and (2) strengthen the focus on opportunities within “Green Entrepreneurship”. Parallel to this we want to achieve a stimulation of innovations by SMEs through new forms of collaboration and cooperation.

Specific cooperation events for regional SMEs will enable and strengthen collaboration with students. This will benefit first, the student founders, because they improve the quality and quantity of their business ideas, and also regional SMEs because they gain insights, learning and knowledge through participation in the development of young business ideas, that lie beyond the normal business routines and hence serve as a fresh impetus.

This emerging “entrepreneurial culture” is supported by a wide range of innovative event formats, founded in and based on a systematic cross-border participation of SMEs in the region to reach the critical mass.

There are three innovative approaches in the project: (1) Through close cooperation between SME's and HE the region's innovation potential will be made available and students can, based on project- and problem based formats work with real economic challenges. (2) The spectrum of business ideas can, in the sense of the “entrepreneurial discovery” process, be systematically expanded and (3) the newly developed types of events can be applied to themes like “Green Economy” and “Women's Entrepreneurship” and supplemented by targeted support measures.

Driving Technology Innovation in Smart Cities

On Thursday 17 September, eight entrepreneurs pitched their companies to the [Smart London Districts Network](#) members, who fund and manage some of the largest and highest-profile redevelopment projects in London.

The event was the final round of two competitions run by [iVeridis](#) and the [Institute for Sustainability](#), in partnership with the [Mayor of London's Office](#) and supported by [EIT Digital](#).



The competitions are aimed at identifying the leading start-ups in smart city technologies. London redevelopment projects currently represent an estimated combined value of over £25 billion, which makes this competition a game-changing opportunity for entrepreneurs to kick-start their companies.

By bridging the gap between innovators and large developers, iVeridis and the Institute for Sustainability hope to drive London's transition into one of the smartest and most connected cities in the world.

The pitch event, which was held in London's prestigious City Hall, was a unique forum for London's stakeholders to shape the innovation market by helping suppliers understand demand-side needs and inform their future product development, research and marketing.

From over 80 participants in the initial rounds, here is the top eight:

- [Colocator](#)
- [Cityness](#)
- [Flybits](#)
- [Hello Lamp Post](#)
- [Maynard](#)
- [Tricekit](#)
- [Strawberry Bench](#)
- [Stickyworld](#)

The winner will be announced on the website. Good luck to all of the participants!

ROBOBusiness tour in the United States

Blue Ocean Robotics ApS will be leading a delegation of 61 people on educational and inspirational tours of over 20 companies in the San Francisco Bay Area.

The tours will take place Sept 21 and 22 preceding the RoboBusiness conference in San Jose. The delegation includes visitors from Australia, Denmark, Finland, Lithuania, New Zealand, Spain and The Netherlands.

Now in its 11th year, RoboBusiness is the established gathering place for leading minds in business and technology who come to identify opportunities, trends and new solutions in robotics that are driving marketplace change.

The conference is held at different locations each year, and this year, it is hosted by San José at the McEnergy convention center from the 23rd - 24th of September.

RoboBusiness hand picks the most important operators, leading scientists and businesspeople who deal with development and implementation of new robot technologies in different sectors.

RoboBusiness sets the standards for the newest technologies in different sectors. Guest and key speakers represents the leading experts from the world of robot technologies, and will talk about the most popular, important and most relevant subjects. They will give you a glimpse into the newest development of robot technologies.

“We are very excited to lead this, our largest delegation of decision makers from hospitals, long term care facilities, municipalities, schools, research institutes, manufacturing and logistics companies,” says Claus Risager, co-founder and partner of Blue Ocean Robotics ApS. “This is our third year leading delegations to the US which inspire education and builds relationships between end users and leading robotics companies.”



*For more information about the ENDuRE project, please visit our website
www.endureproject.eu or e-mail us at: info@endureproject.eu*



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