Cyber Security & Privacy
Final | November 19, 2015 | Trento

Trento Node

EIT Digital

EIT Digital
IDEA CHALLENGE
8 topics. 8 finals. One challenge.

EIT Digital &
Idea Challenge

EIT Digital is a leading European open innovation organisation. Our mission is to foster digital technology innovation and entrepreneurial talent for economic growth and quality of life in Europe. We bring together entrepreneurs from a partnership of over 130 top European corporations, SMEs, start-ups, universities and research institutes.

EIT Digital invests in strategic areas to accelerate the market uptake of research-based digital technologies and to bring entrepreneurial talent and leadership to Europe. Our innovation and education activities are organised in and around our co-location centres, where students, researchers, engineers, business developers and entrepreneurs come together to drive the digitalisation of society.

EIT Digital is a Knowledge and Innovation Community of the European Institute of Innovation and Technology (EIT). Since 2010, EIT Digital has consistently mobilised talent, ideas, technologies, investments and business across Europe and beyond to stimulate disruptive digital innovation. EIT Digital headquarters are in Brussels with co-location centres in Berlin, Eindhoven, Helsinki, London, Paris, Stockholm, Trento, as well as in Budapest and Madrid.

The EIT Digital Idea Challenge is the networks contest to reach out, identify and support the best digital start-ups in Europe, that are focused on fast growth of their business in Europe and worldwide. The contest focuses on our eight Innovation Action Lines, that cover digital trends in areas strategic for Europe:

- Health & Wellbeing
- Smart Spaces
- Cyber-Physical Systems
- Future Cloud
- Cyber Security and Privacy
- Internet of Things
- Urban Life and Mobility
- Smart Energy Systems

Our ambition is to find the 24 most innovative European start-ups in these fields and to help them succeed in world markets and become European success stories. If you want to be one of these success stories, make sure to apply and grow your start-up through EIT Digital's leading European innovation network.

Content

TOPIC
DESCRIPTION

AGENDA

FINALISTS

- Dotissi | iQrypt
- DigiFlak
- KeeeX
- Mynigma | M – safe email made simple
- MobyFace
- PhoneX
- Flowy Apps | REDS – reclaim your data
- Coblue | STORRO
- Standard I/O | Voici

JURY

- Gabriele Baduini, Head of managed security services, Communication Valley Reply, Reply
- Klaus Beetz - EIT Digital Management Committee
- John Fichtner, Senior Principal Key Expert IT Security, Siemens
- Jovan Golic - EIT Digital PST Action Line Leader
- Wolfgang Kniejski - EIT Digital PST Business Community Leader
- Markku Kutvonen, Director, External R&D Collaboration, F-Secure
- Italo Milanese, Project manager, Strategy & Innovation, Innovation & Industry Relations - Telecom Italia
- Bram Spitzer - EIT Digital Business Developer

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CYBER SECURITY & PRIVACY

It is a big challenge to protect security and privacy of enormous amounts of data being collected, processed and stored in the cyber space. Lack of timely technical solutions may put at risk privacy and liberty of citizens and may endanger the growth of ICT-enabled products and services, whereas security breaches can have significant negative impact on people's lives, jobs and property. The existing gaps between currently available techniques and the situation in practice should be filled by innovative solutions following the «privacy & security by design» paradigm.

This can stimulate innovative applications, e.g. related to social networks, e-payment, e-voting, e-health, smart spaces and smart energy, as well as cloud computing, big data and Internet of Things. Special attention should be devoted to privacy-preserving digital identity management, user profiling, intrusion detection and prevention and protection against malicious software, especially for mobile platforms and applications.

Agenda

9-11.30	**The EIT Digital call for Proposals 2016 – 90" pitches (Business Community)** every partner/ start-up has 90" to present offer and demand in preparation of 2016 call
11.30-12.30	**EIT Digital start-up support (start-up only)** The new services and support schemes for third generation start-ups by Dolf Wittkamper
12.30-14.00	*Lunch break for business community*
13.30-14.00	**Registration**
14.00-14.30	**Welcoming and Opening Words** Welcome addresses from Klaus Beetz Introduction PST from Jovan Golic Introductions BC from Wolfgang Kniejski Jury presentation from Marco Senigalliesi
14.30-15.30	**Pitches: 5 teams**
15.30-16.00	*Coffee Break*
16.00-16.50	**Pitches: 4 teams**
16.50-18.00	**Demo Area Exhibition + Networking** Demo area open for both start-ups of BC and IC finalists
18.00-18.30	**Winner announcement Closing remarks, handshaking & Information about EIT Digital Business Community**
19.00-22.30	**Social Event & Gala Dinner –** *Invitation Only*

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Dotissi | CryptonorDB
CryptonorDB is a privacy oriented cloud-mobile database.

DigiFlak
Flak Secuters are all-in-one security devices, which are designed to protect the sensitive data of end users and companies, are based on a dedicated Flak chipset hardware and SecuritOS firmware

KeeeX
KeeeX offers private messaging, sharing, collaborating under absolute control, with no infrastructure, risk, or commitment.

Mynigma | M – Safe email made simple
M is an email app with built-in encryption. End-to-end security meets usability.

MobyFace
Enabling technology for out-of-band transaction handling which puts the user in control. Furthermore it allows organisations to anticipate on its customers needs and innovates their online services with minimal time-to-market.

PhoneX
PhoneX is a mobile application which enables you to make encrypted phone calls, send messages and data files securely without risk of interception.

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Flowy Apps|REDS – reclaim your data

With REDS users are independent from the cloud app provider and can decide freely where they want to store their data to keep control of their privacy in the cloud.

Coblue|STORRO

STORRO is an application to share, save and manage files. Like the cloud but completely secure and private, as data is not stored at third parties. So YOU have control.

Standard I/O| Voici

Identity is the new money. Up to now quality voice biometry has been known only to military and telcos. With voici, state-of-the-art voice technologies are available to anyone.

Finalist

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IQrypt is a NoSQL cloud-mobile database that provides security and provable privacy by encrypting JSON records on the device before being stored locally or transferred to the cloud.

It allows search over encrypted data without decrypting it, the encryption key is never transmitted to the cloud so no one unauthorized gets access to decrypted data.

CRISTI URSACHI

- Entrepreneur, CEO and co-founder Dotissi Development SRL
- 10+ years experience in software development area
- extensive experience with DBMSs and cryptography

THOMAS VAN OVERBEKE

- Serial entrepreneur, co-founder Dotissi Development SRL
- 15+ years experience in IT industry
- Co-founder of Outspot.be, the biggest Belgium Daily Deal company active in 7 EU-countries.

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Flak Secuter is the most innovative approach in personal safety in Internet today. Powerful and packed with features secuters make the entire internet life safe and protected.

Flak Classic is the personal guard of digital identities of the individual users and the company employees. It guards you from the moment you enter the cyberspace and protects you from threats such as malware, viruses, identity theft, and phishing. It allows you to encrypt the files for multiple users, create private and secured tunnels, and manage access to premises. Flak Secuter can be used with any of the supported devices, including tablets and smartphones; there is no need to buy separate licenses for each PC, laptop or a tablet.

Companies can set up truly protected and secured VPN gateways for their employees and customers to the already existing web services such as e-mail, databases, intranet, etc. without spending much extra. In Flak Secuters we use the most robust security – the keys and configuration files are always in encrypted form inside Flak hardware.

MAXIM KOSTIN

- Extensive experience in the embedded security development for more than 15 years
- Previous security solutions are integrated in more than 15 million customer devices worldwide
- Built an amazing team of brilliant engineers, strong security experts and start-up professionals from different countries

EVGENY TARASYUTIN

- Fundraising professional with experience in VC and PE markets
- Launching IT start-ups
- Experience in start-up promotion on global markets

Contact: www.digiflak.com | sales@digiflak.com

Finalist

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We lose time searching files, managing groups, and avoid sharing on some clouds.

KeeeX is a unique private and efficient collaboration solution with no infrastructure. Files are processed and stay locally. They are shared after client side encryption, which you can verify, on top of any cloud or drive of your choice. No SAAS. You are in full control.

At top level, KeeeX offers private messaging, file sharing, versions, tags, comments, digital signature, formal approval and collaborative lifecycle control.

KeeeX builds upon a patented solution to augment files with unique ids that can be used to verify that a file was never modified, but also as pronounceable names, and as pointers to connect files to other files, versions, tags, concepts.

KeeeX ids and metadata are placed in indexable position without any visible change to the file. This works for more than 250 file formats, including office, media, source code, zip, edifact.

Being indexable, KeeeX ids and metadata are so unique they can be searched exactly anywhere: from web scale using search engines to machine level using Unix tools.

KeeeX helps companies build, value and leverage their digital heritage

LAURENT HENOCQUE

- Graduated from Ecole Polytechnique
- PHD in Mathematics and Informatics
- Associate Professor at Aix Marseille University: the CNRS/LSIS lab and a lecturer at Polytech Marseille
- Expert in Constraint Programming and AI, the semantic Web (contributed to W3C SEMANN working group), man machine interfaces (created the Javastates Open Source library) and software engineering (TDD/Agile methods)
- He brought the content for two international patents
- Founder of KeeeX

Contact: https://keeex.io | laurent@keeex.net

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M is an email app with built-in encryption. For its unique combination of usability and end-to-end security, it has recently received the CeBIT Innovation Award.

Given the wealth of commercial information typically shared by email (contracts, NDAs, customer data, patents, strategic plans, etc.), encryption is basic business common sense for virtually any company.

In the personal realm, an inbox is probably the most detailed personal profile imaginable. How this information will come to be used in future is unclear. The only certainty is that, once stored on the Internet, it can never be deleted.

Common methods of encryption (SSL, DeMail, Email Made in Germany) only protect data in transit. On the servers, the information is still stored as plain text. This means that users have no control over who can access their data and how it is used.

With end-to-end encryption, M ensures that the content of messages never ends up on the Internet. It is more secure than existing solutions and when it comes to usability, it is in a completely different league.

M is currently available for iOS and Mac, with an Android app and plug-ins for Outlook and Thunderbird also in the pipeline.

DR. ROMAN PRIEBE

- BA & MA in Mathematics (Cambridge)
- PhD in Computer Science (Oxford)
- Dr. Habbena Prize, Abel Student Prize, Ryan Prize for Higher Mathematics

LUKAS NEUMANN

- Mathematics & Computer Science (Berlin)
- 3 years work experience as an IT consultant
- Innovation Management & Economics of Information Technology

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MobyFace

MobyFace offers a cost efficient and secure solution for out-of-band transaction handling based on strong authentication via a smart device. The mobile app puts the user in control of his digital identity (including personal attributes).

Using the scan-check-accept model, the app creates a lower barrier for online identification, sharing up-to-date personal information and other types of transactions. Innovative app security and a standardized trust framework are the basis for the enabling MobyFace technology.

MARK BAAIJENS

• Analytical thinker with a Master of Science degree in Information Security Technology.
• 10+ years experience in (mobile) transaction security, worked for major consulting firms, financial service providers, governments and telco's in different European contexts.
• Proven to be able to act as bridge between technology and business.

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Phonex
secure communication

Are you worried that somebody is following your mobile communication or wants to get your confidential information? Do you need to ensure a secure internal communication for your company?

The solution is a mobile application PhoneX "3 in 1" - encrypted calls, messages and data files. All of this from your own smart phone, you do not need any expensive encrypted devices!

Wiretapping and following of somebody's communication became a phenomenon of these days and need for protected communication is constantly growing. More and more individuals and companies are solving more responsibly protection of their sensitive information and are willing to pay considerable sum of money for such solutions.

DUŠAN KLINEC

- Academic degree in IT Security (Faculty of Informatics at Masaryk University, Czech Republic)
- Internship at CERN (2012)
- Experience in system architecture design

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Flowy Apps
your privacy matters

The NSA scandal has shown us, that we are loosing control over our data as soon as they are stored in the cloud. The reason for that is mainly the inappropriate protection of data against unauthorized access by the provider or third parties.

This can only happen because encryption techniques are way too complicated and time consuming. We want to change this situation and have set our mission to give the user the control back over the cloud data - regardless of any specific know-how or high financial spending.

The central aspect of our solution is the open source technology REDS ("Remotely Encrypted Distributed Storage"), which offers users the possibility to decide freely where they want to store their data while using a cloud service. A storage point could be for example a server at home (NAS) or at a trusted hosting-provider. The exchanged data is always encrypted, so neither the app provider nor third parties can gain any insight in the data.

By now we have developed two products: the REDS.io framework, which allows developers to easily build their own REDS apps and the REDS.box, an easy to use plug'n'play hardware, which provides a REDS storage point for end-users.

ANNIKA SCHULZ

- Studied business administration at the university of applied science in Kiel/Germany
- Qualified event manager
- Responsible for team organisation, marketing and finance (CEO)

TORBEN HAASE

- Studied computer science at the university of applied science in Flensburg/Germany
- More than 15 years of experience in developing web applications
- Responsible for the technical product development (CTO)

Contact: https://flowyapps.com | annika@flowyapps.com

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Coblue
cybersecurity

Working in a dynamic environment, we need our files to follow us around wherever we go. The cloud seems to be the answer, but the shadow side is that you have in fact no idea where your data is stored and who else can access it..

If you do want that control and the assurance that your sensitive information will only come in the hands of those for who it is intended, then there is Storro. Storro lets you share, adapt and save your files anytime, anywhere. But you control where they're stored, and who gets to see them. In a jiffy you create secure spaces to collaborate with colleagues and external parties -without additional IT support. Only you and the people you authorize have the keys, and no.one.else. Not even us!

Storro gives you unprecedented data control and protection through a unique combination of compartmentalisation, encryption and decentralisation. This means that your data is being shred, every particle is encrypted separately and stored scattered over a network of locations you trust. So your data is not located at any third parties, nor can it be accessed by them! With Storro YOU are in control.

DANIEL WESTSTEIJN

- Marketing&Sales Officer
- Runner, adventurer and marketeer
- Studied International Business, specializing in strategic Marketing
- Prior: TomTom (Communication), ABN Amro (Sales) and Bosch (Product Marketing)

FRISO STOFFER

- Chief Financial Officer and co-owner Coblue
- Prior: Strategy consultant at Bain & Company Brussels and Senior Analyst at financial advisory firm in Boston (USA)
- Master degree with Honours (Financial Engineering & Management)
- Bachelor degree with Honours (Industrial Engineering & Management)
- Propedeuse degrees with Honours (Electrical Engineering &Theology)

Contact: https://coblue.eu | daniel@coblue.eu

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Voici is the state-of-the-art voice recognition technology and is the most robust biometric technology among those existing today. We provide a unique software solution for identification and authentication based on voice. Now you do not need to memorize passwords — use your voice instead. Human voice is a unique feature, akin to DNA. Fingerprints and passwords can be either fabricated or stolen however this is not the case with human voice.

Our software suite allows you to log in users over the web, just like Facebook or Google do, distinguish between robots and humans (voice CAPTCHA), sign transactions with voice, etc.

Jury

GABRIELE BADUINI

Head of managed security services, Communication Valley Reply

Reply

KLAUS BEETZ

EIT Digital Management Committee

EIT Digital

JOHN FICHTNER

Senior Principal Key Expert IT Security

Siemens

JOVAN GOLIC

EIT Digital PST Action Line Leader

EIT Digital

WOLFGANG KNIEJSKI

EIT Digital PST Business Community Leader

EIT Digital

MARKKU KUTVONEN

Director, External R&D Collaboration

F-Secure

ITALO MILANESE

Project manager, Strategy & Innovation – Innovation & Industry Relations

Telecom Italia

BRAM SPITZER

EIT Digital Business Developer

EIT Digital

Idea Challenge Finals 2015

19.-20.10.2015	Future Cloud	Rennes, France
04.11.2015	Smart Energy Systems	Berlin, Germany
19.11.2015	Cyber Security and Privacy	Trento, Italy
23.11.2015	Urban Life and Mobility	London, UK
24.-25.11.2015	Health and Wellbeing	Eindhoven, Netherlands
01.12.2015	Smart Spaces	Helsinki, Finland
03.12.2015	Internet of Things	Stockholm, Sweden
04.12.2015	Cyber-Physical Systems	Paris, France

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