



Green Standards Week

Valencia, 1-4 October 2019

Human-Centric IoT

ANNA BREKINE

Mandat International

WWW.U4IOT.EU

European Large-Scale Pilots Programme

- Innovation consortia
- Collaborating to foster the deployment of IoT solutions in Europe
- Integration of advanced IoT technologies across the value chain
- Demonstration of multiple IoT applications at scale and in a usage context, and as close as possible to operational conditions.
- Proposing IoT approaches to specific real-life industrial/societal challenges.



LSP Projects & Partner CSA

ACTOVAGE
PROJECT

IOF²⁰²⁰
INTERNET OF FOOD & FARM

SYNCHRONICITY

 **MONICA**


AUTOPILOT

 **CREATE-IoT**

Next Generation Internet of Things (NGIoT)

- Consolidate Europe's leading position in creating a secure, safe, trusted and "human-centric" IoT research
- Research and innovation strategy roadmap for Europe's competitiveness in IoT
- Build on established strong partnerships with Europe's existing IoT Privacy / Security cluster projects and the IoT Large-Scale Pilot (LSP) Programme
- Outcome: roadmap indicating future directions that will guide European IoT research, innovation, policies and investments



U4IoT project

- User Engagement for Large Scale Pilots in the Internet of Things – U4IoT
- 8 partners from 5 European countries
- **Objective: develop toolkit for LSPs end-user engagement and adoption**
 - online resources, privacy-compliant crowdsourcing tools, guidelines and an innovative privacy game for personal data protection risk assessment and awareness, online training modules
- **Objective: provide direct support to mobilize end-user engagement**
 - co-creative workshops and meetups, trainings, Living Labs support, and an online pool of experts
- **Objective: analyses societal, ethical and ecological (SEE) issues and adoption barriers related to the pilots with end-users and make recommendations for tackling IoT adoption barriers**
 - educational needs and sustainability models for LSPs and future IoT pilots deployment in Europe
- **Objective: supporting communication, knowledge sharing and dissemination**
 - online portal and interactive knowledge base gathering the lessons learned, FAQ, tools, solutions and end-user feedbacks

Tools & methods

- End-user engagement toolkit
- Crowdsourcing & survey tools
- Privacy game & guidelines
- Co-creative workshops
- Living Lab support
- IoT adoption barriers
- Participatory sustainability models

U4IoT Project - Tools & Support - Contact

How can we help you?

U4IoT offers a variety of end-user engagement tools and support services. The tools and support services offered are gathered, created or customised for the IoT community, among which the Large-Scale Pilot (LSP) projects in the **European IoT-LSP Programme**. The Interactive Flow-Diagram on this page assist in navigating between the different tools and support services by making a selection according to specified needs. Six tools, methodologies and recommendations highlighted below are provided by U4IoT to be utilised throughout the duration of IoT projects.

The complementary U4IoT End-user Engagement Toolkit offers a selection of useful external resources of different tools and methods. In order to use the U4IoT tools and support services, online assistance is offered in the form of an Expert Pool and e-Courses. Lessons Learned can be shared through the Knowledge Base, where end-user engagement experiences from the different LSP projects are gathered and exchanged. Get started now by navigating through the tools and support services on this page! You can read more about the U4IoT project [here](#).

[Get help to navigate through our tools](#)

Survey & Crowdsourcing Tool Co-Creative Workshop Methodology Living Lab support

Crowdsourcing & Survey tools

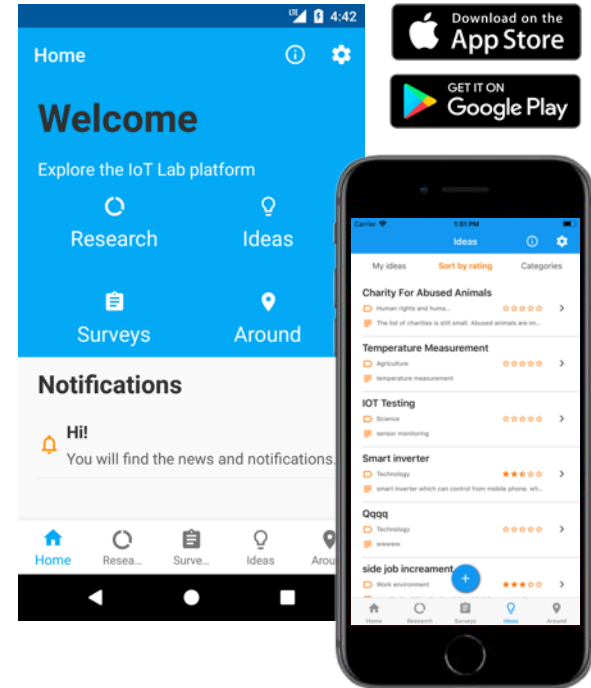
Composed of:

1. a mobile application with a strong focus on crowdsourcing and crowd-sensing;
2. a website permitting interactions between users and IoT devices (users' smartphones and the IoT testbeds' sensors and actuators);
3. a survey tool.

Features:

- Gather ideas and data about a certain topic through crowdsourcing;
- Set-out surveys to gather information for your project;
- Participate in research and related experiments;
- Share of data generated by the smartphone's sensors;
- Allows users to participate in surveys linked to research;
- Propose new ideas and suggestions;
- Rate ideas proposed by other users.

For more information, visit www.iotlab.eu and download IoT Lab on the App Store and Google Play



Privacy Game & Guidelines

- To educate the LSPs stakeholders on data protection;
- To raise awareness on the main risks related to data protection with IoT deployments;
- To translate complex legal norms into clear and easily understandable principles;
- To reduce the risks of non-compliance with the Data Protection Obligation in the five LSPs;

Related material: Guidelines for Personal Data Protection in LSPs and related e-course (U4IoT website)



IoT Experts

- A repository of registered and relevant experts in the IoT field
- Classified by field of activity, education
- Useful to identify appropriate contacts and partners in IoT

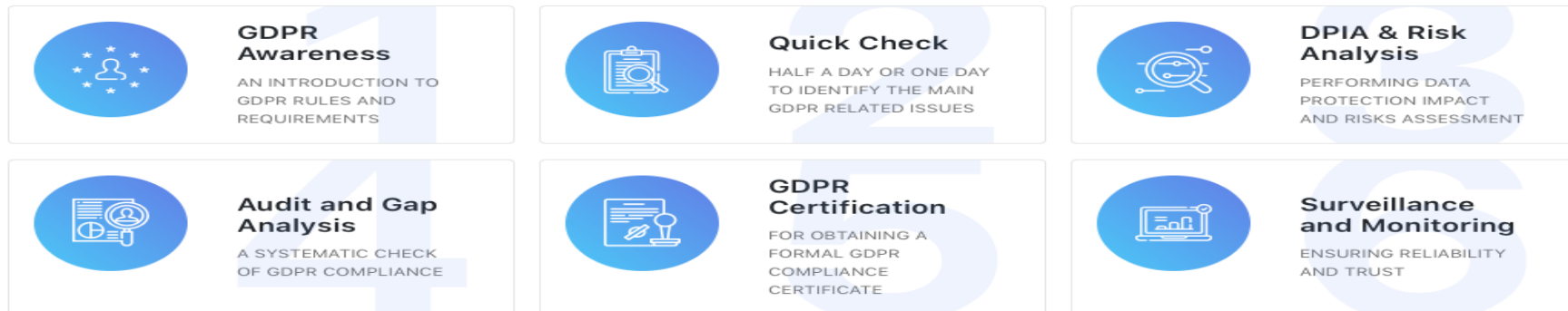


www.iotexperts.com

EuroPrivacy is an international certification scheme on data protection that encompasses the European General data Protection (GDPR) and complementary national regulations (including non-European ones).

- **Demonstrate and certify compliance with the GDPR**
- **Identify and reduce legal, financial and reputational risks**
- **Build trust and confidence through surveillance audits**
- **Enhance European market access and cross-border data transfers**

Flexible Step-By-Step Services



Privacy App

Privacy App is a mobile app enabling users and cities to:

- Monitor the IoT deployments and data protection.
- Identify and share information on all communicating devices deployed in the public space.
- Identify and report on new deployment that they identify in their environment.
- It enables cities and public administrations to inform their inhabitants and visitors about the solutions deployed in their public space.



PrivacyApp.info

**Ensuring GDPR
compliance
of smart cities
and IoT networks**

SYNCHRONICITY

PRIVACY PACT

GDPR bound

Enabling Data Controllers and Processors to abide to the GDPR on a voluntary basis



www.privacypact.com

WELCOME TO PRIVACY PACT!



JOIN PRIVACY PACT!

Don't miss the opportunity to show your GDPR commitment!

REGISTER & APPLY

WHAT

Privacy Pact is the easiest tool for companies to express their commitment to respect and to abide by the European General Data Protection Regulation (GDPR) rules and principles, regardless of their location. It is contractually binding and can be referred in your website to communicate your commitment. It is not a certification, but can be used to prepare a certification process such as EuroPrivacy.

HOW

1. Register & Apply
2. Upload the signed Privacy Pact
3. After check, your commitment is published in our Registry and you can start using the Privacy Pact seal.

The service is provided against a minor registration fee for renewable periods.

WHY

Companies interested in collecting or processing personal data coming from the European Union must commit to respect the GDPR. According to GDPR Article 44, any transfers of personal data outside of the EU territory are conditioned to the respect of GDPR core principles. Article 28 GDPR requires that data controllers "shall use only processors providing sufficient guarantees to implement appropriate technical and organisational measures in such a manner that processing will meet the requirements of this Regulation and ensure the protection of the rights of the data subject."

WHO

Privacy Pact has been developed through the H2020 European research programme. It is overviewed by legal experts and administratively managed by the European Center for Certification and Privacy (ECCP) based in Luxembourg.

Don't miss the opportunity to show your GDPR commitment!

REGISTER & APPLY

For further information, please read the [Terms and Conditions](#) page.



Conclusion

- Future IoT projects in Europe require privacy by design approach
- The GDPR requires privacy by design approaches
- Privacy by design includes organizational, technical and human activities which should be introduced in environmental projects if they involve any level of end-user interaction.
- The use of IoT for generating environmental changes has to start by ensuring the projects are implementable and respectful of human rights, privacy and personal data protection.

**Thank you for your
attention!**

