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# IOT WEEK 2018 REPORT

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## FOREWORD



Sébastien Ziegler President of the IoT Forum

This year, the 8th edition of IoT Week in Bilbao has once again demonstrated the vibrant energy and creative spirit of the IoT community. The conference brought together over 850 experts currently active in the Internet of Things domain, from 39 countries, including 255 speakers. With a catalog of 162 sessions and activities, IoT Week has explored new territories, built bridges and formed new collaborative connections. This year's conference has again enriched our vision of the future evolution of the Internet of Things.

Additionally, following a successful event last year, the second edition of the *Global IoT Summit* was held with the support of IEEE, which included a selection of 75 scientific articles, as well as the publication of recent global innovations in IoT.

The IoT Forum aims to promote international cooperation and dialogue within the Internet of Things domain. That's why we're particularly delighted with the growing level of cooperation with other networks. It's been a pleasure to associate with key partner organizations, such as the ITU, AIOTI, BDVA, ECSO, TM Forum, and OASC to name just a few, as we built a wider and richer program, held over five days in the marvelous city of Bilbao. We cooperated closely with the five European Large Scale Pilots (LSPs) on

the Internet of Things, and received active support from the European Commission, with two CSAs bringing valued contributions. We're looking forward to developing our partnerships and collaborations further for next year's IoT Week.

This year's edition included a number of new activities, including a brokerage event, a start-up competition, and two new program tracks focused on smart farming and 5G-IoT convergence. To share the learnings of the event, information from **168 presentations** has been made available by our speakers on the IoT website: <https://iotweek.org/presentations-2018/>.

I would like to take this opportunity to thank all those who contributed to making this event possible, including all the volunteers, our excellent moderators and speakers, all our partners and supporters. This includes, of course, our local host, IK4-Tekniker, that has handled such a complex event with professionalism and proficiency, with the active support of the **Basque Government**, the **Biscaya** Local Administration, the **SPRI Group** (Basque Business Development Agency), **Euskatel** and **Ibermática**. Thanks to the hospitality of these organizations, we had the privilege of experiencing the Basque Country's unique culture, which I hope will forever remain a living part of the European and World heritage.

Finally, allow me to thank all the members of the IoT Forum whose support is essential in organizing IoT Week. The IoT Forum is a nonprofit, independent, self-funded and member-driven organization, which aims to promote international dialogue and cooperation.

We look forward to welcoming you to the next edition of IoT Week that will take place in **Aarhus, in Denmark, from 17th to 21st June 2019**.

**Sébastien Ziegler**  
President of the IoT Forum

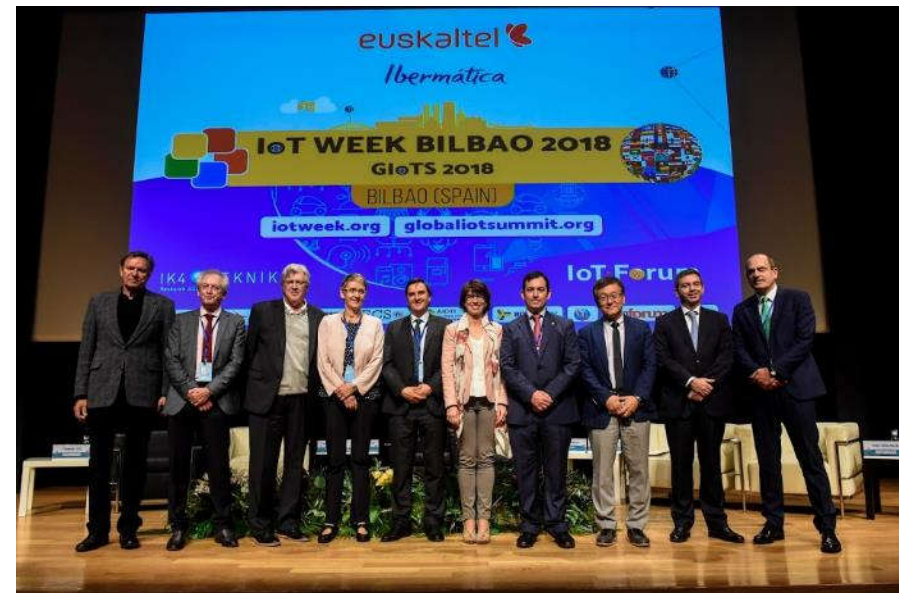
## A BRIEF OVERVIEW OF IoT WEEK 2018

The 8th edition of IoT Week and the 2nd Global IoT Summit were held in Bilbao, Spain from 4th-7th of June 2018. This year's IoT week was organized by local host IK4-TEKNIKER as well as the IoT Forum.

### Conference Attendance

The conference included over 160 sessions, held over four days, attended by more than 850 participants. The participants were given the opportunity to hear insights from and interact with IoT experts, industry practitioners and policy makers on a number of IoT topics, challenges and future trends. Key areas included: Emerging IoT Research and Development, IoT and Big Data, 5G Convergence, IoT and Smart Cities, IoT and Artificial Intelligence, IoT Security and Data Protection, IoT Market and Business Model, Smart Farming and Food Security, and IoT and Advanced Manufacturing.

In addition to presentations and panel discussions, a brokerage event and a startup competition were also held. The brokerage event provided an opportunity to establish new business collaborations, while the competition gave young startups a chance to increase their visibility, receive valuable feedback and gain recognition. This year's event also included a series of workshops, as well as a Hackfest.



*Figure 1 Speakers of IoT Week Plenary Session*

The conference hosted over 250 top-level experts, who spoke on IoT innovation, challenges and future trends. This was a unique opportunity for experts and enthusiasts to connect with others within the thriving IoT community, whilst learning about latest developments in the domain too.



## 2nd Global IoT Summit (GloTS)

The second Global IoT Summit (GloTS) was endorsed by IEEE and led by the IEEE Subcommittee on IoT, in collaboration with the IoT Forum. For the summit, cutting-edge scientific articles on IoT innovation were selected and presented, alongside the results of latest research projects into the field.

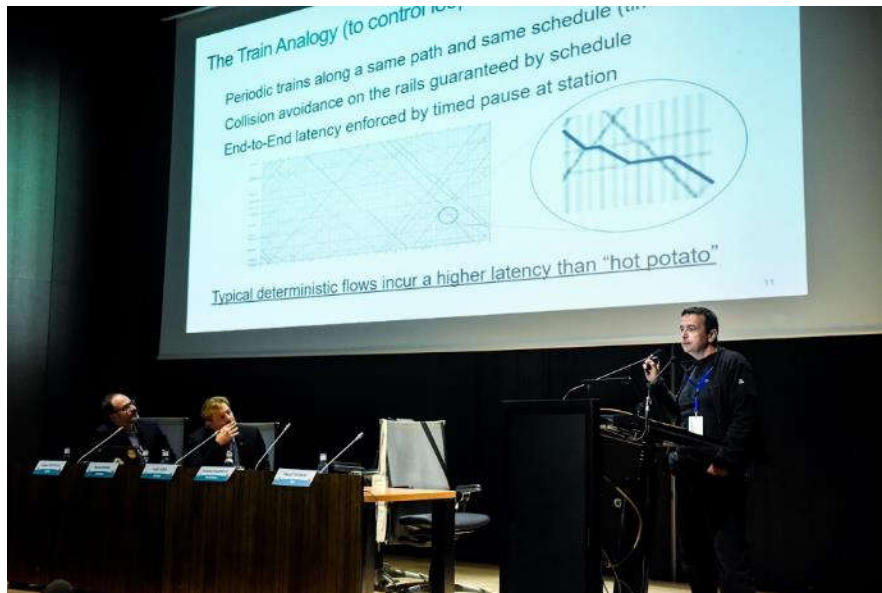


Figure 2 Dr. Pascal Thubert, Cisco at GloTS Opening Plenary Session

More than 70 papers were presented, by authors from 24 countries. The Award for Best Paper was given to authors Fang-Jing Wu, Gurkan Solmaz and Emo Peter Kovacs, for their paper titled "Toward the Future World of Internet of Things".

## Startup Competition

A number of interesting and innovative projects were presented at the startup competition, for which 13 startups were selected: **IMATEK, Ironchip, Arque, Zolertia, Recycl3R, Stockare, WiseHome, SocialAndCare, IDAB-IIoT, Symplio, WICASTR, Myruns and StandardAccess.**

The winning innovative projects were:

- I prize - Symplio, Bilbao (Spain)
- II prize - StandardAccess, Dingle (Ireland)
- III prize - Recycl3R, Palma de Mallorca (Spain)



Figure 3 The Startup Competition participants

### Exhibition Area

The exhibition area provided an excellent space for sharing ideas and networking, with more than 50 exhibitors showcasing latest IoT solutions.



*Figure 4 Representatives of the European Commission visiting the Exhibition space*

### Rich Networking Opportunities

Once again, IoT Week proved to be an environment that not only provided opportunities to learn about IoT challenges and opportunities, but also to

network within a relaxed setting with industry leaders, academics and public administration officials from around the world.



*Figure 5 Gala Dinner at the VIP Area of San Mames Stadium*

### Next Year – IoT Week 2019 Aarhus

IoT Week 2019 is set to be held in Aarhus, Denmark from the 17th to the 21st of June 2019. The local host will be IT-Forum, and the venue will be Musikhuset, the largest concert hall in Scandinavia.

## 2018 IEEE GLOBAL INTERNET OF THINGS SUMMIT (GloTS)



Following the success of the first Global IoT Summit (GloTS) in 2017, alongside IoT Week at the International Conference Centre in Geneva, this year saw the 2nd edition of the Global IoT Summit, which was supported by the IEEE ComSoc. Having fulfilled the objectives of its first edition, this year's summit brought with it a new drive to assemble research and bring together eminent experts in the IoT field. Latest research and industry insights point to an astonishing paradigm shift in this field, paving the way for innovation in a number of areas. Once again, the conference has continued to place emphasis on critical innovations that will impact research, real-world applications and the effects of these changes on society as a whole.

Despite this, the transformation of the IoT vision into a reality will invariably present several challenges, in particular in the fields of architecture, communication, services, computational intelligence, storage and governance, as well as core areas of sensor development and material engineering. This year's summit included additional efforts to attract new researchers from diverse, cross-disciplinary domains in order to better address the challenges of this emerging discipline. The GloTS-2018, which ran alongside 2018 IoT Week, discussed breakthroughs in IoT and the feasibility of making IoT, including wireless sensor network technology, truly ubiquitous with new cloud and edge computing technologies, big data analysis, citizen engagement, privacy and cybersecurity, and governance.



*Figure 6: The Opening Session of GloTS, on June 4*

The conference offered a prime space for industry leaders, academics, professionals, government officials, and students to discuss and foster knowledge about the emerging technology, business applications and social impacts of this technological field. These ideas were explored in various activities, including:

### 3 keynotes:

- **Dr. Ciprian Popoviciu.** President and CEO, Nephos6
- **Dr. Pascal Thubert.** R&D Principal Engineer, Cisco
- **Dr. Bruno Michel.** IBM Research - Zurich

**73 technical papers, selected from 131 submissions,** and formulated as technical track sessions and workshops on:

- IoT Enabling Technologies,
- IoT Applications and Services
- IoT Experimental Results and Deployment Scenarios
- Security and Privacy for Internet of Things





Figure 7: Speakers of the GIoT Opening Session: 1) Latif Ladid, 2) Ciprian Popoviciu, 3) Pascal Thubert and 4) Bruno Michel.

#### Five workshops on hot and emerging topics:

- User Centric Smart Cities Services (UCSC'18);
- Industrial Internet of Things Security (WIIoTS'18);
- Word Workshop on Interoperability and Open-Source Solutions for the Internet of Things (InterOSSIoT 2018);
- Semantic Interoperability in the IoT and WoT;
- Scaling Up IoT

#### Three industry sessions

- EU- China 5G IoT Large Scale Pilots
- IPv6-based IoT Deployment Around the World
- Cybersecurity & IoT



Figure 8: TPC Chair, Dr. Antonio Skarmeta speaking in GIoT Industry Forum I: "IoT Industrial Development"

First of all, we'd like to thank the European Commission for their funding of a number of vital IoT-related research projects, that have formed the backbone of this flagship conference. We'd like to thank the many public and private organizations supporting this event: the IEEE Comsoc; the IEEE Initiative on Internet of Things; our keynote speakers; the workshop and special session chairs; the authors and all attendees. It is the enthusiastic participation, networking and knowledge-sharing of the attendees themselves that make this event truly memorable. We hope the conference will plant seeds of knowledge and innovation that will bloom in years to come, to the benefit of the economy, society as a whole, and the daily life of all individuals.

We also hope our attendees enjoyed the event's diverse agenda, the opportunity to meet IoT enthusiasts, and the chance to network with industry experts currently driving the future of IoT. Finally, we hope our guests enjoyed exploring Bilbao and the surrounding areas as part of this experience that embraced technology and innovation, as well as friendship, culture and renowned Spanish cuisine.



## PROGRAM OVERVIEW

### PLENARY SESSIONS



Figure 9: Alex Bengoa, during his speech at the Opening Plenary Session

The plenary sessions involved high quality keynote speeches and presentations, including the following moments:

1. IoT Week 2018 Opening Plenary Session
2. IoT Week 2018 Keynotes: "Network Centric IoT Service Development - Reflections and Perspective from Service/Telco Provider and from Platform and Hardware Provider"
3. IoT Standards Trends & Convergence Plenary Session
4. IoT Week 2018 Closing Ceremony

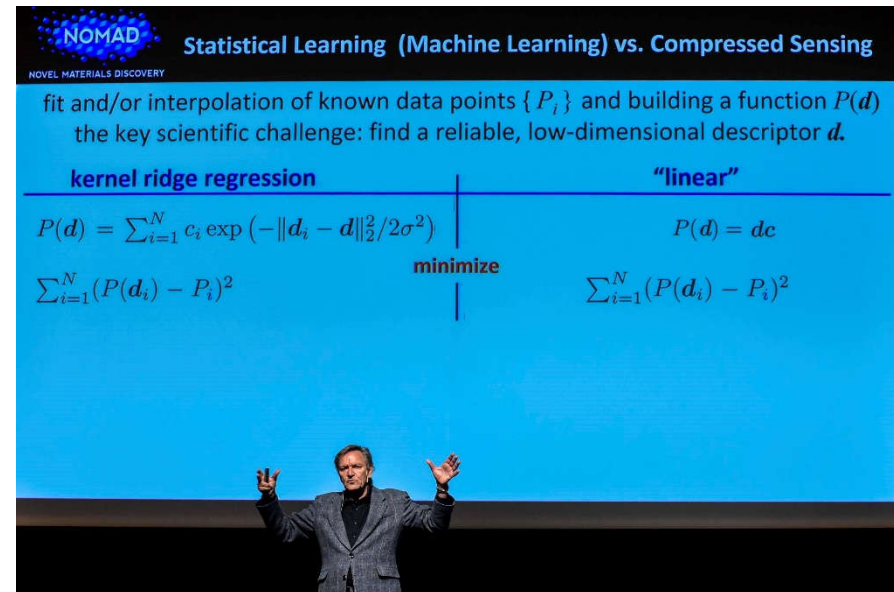


Figure 10: Professor Matthias Scheffler, during his speech at the Opening Plenary Session



Figure 11: The closing ceremony speakers

## THEMATIC SESSIONS

The key topics surrounding emerging IoT technologies and issues were grouped into program tracks, which were then discussed in the event's thematic sessions. The ten principal program tracks were:

### 1. Emerging IoT Researches and Technologies

Participants engaged with some of the latest developments in IoT research and development in sessions that explored emerging technologies, solutions and trends in the IoT landscape, as well as the societal challenges these developments present. The 'Emerging IoT R&D' program track included sessions on topics such as:

New Trends on Smart Agriculture

Future European Strategy and Funding Opportunities for IoT

Blockchain Technology and IoT New Challenges

Nanotech and Dust IoT: The Next Frontier

Enabling Next Generation of Energy Services with IoT

Smart Living Environments: ACTIVAGE (LSP)

IoT for Sustainable Development in Africa

New Trends for IoT and Satellite Networks

Building IoT Cross-Domain and Cross-Platform Interoperability

Extracting Value from Next General Digital Infrastructure (Big Data, IoT, Edge, 5G, HPC, Cloud, AI)

Create-IoT: EU-Brazil Collaboration on IoT for Sustainable Development

EU-ASIA Collaborations on IoT for Sustainable Development

Spreading the Web of Things

IoT, Trust & Morning Coffee – What you Always Wanted to Know About Trust

AloTI WG2 Innovation Ecosystems Masterclass: Learn with and from the Bilbao IoT Ecosystem



Figure 12: : Left to right: Benoit Abeloos, Visa Vallivaara, Pekka Nikander and Anatole Kratiger, taking part in a discussion on “Blockchain Technology and IoT New Challenges”, conducted by Peter Wittenburg

### 2. IoT Market and Business Model

The IoT Market and Business Model' program track included the discussion of market perspectives, new financial and business models, and the impact of IoT on society, sustainable development and future industries. The sessions of this track included the following:

IoT Marketplaces from EU Projects

Novel Business Models for Smart Cities

Business Model Innovation as Driver for Change

### 3. IoT Security and Data Protection

The 'IoT Security and Privacy' program track addressed inter-alia issues such as IoT cybersecurity development and the impact of new personal data

protection laws and privacy regulations at a European level (GDPR, WP29, etc.) and in other regions. The sessions in this track were:

Emerging IoT Threats and Ethical Hacking

IoT Security & Data Protection at a Crossroad

Everything You Always Wanted to Know About IoT & GDPR Compliance

eHealth and Smart Home Data Protection

Addressing the Cybersecurity Emerging Technologies

IoT Security Challenges in Vertical Sectors

Trusted IoT Strategies for the Future

#### 4. IOT4SCC: Joint Workshop on IoT for Smart Cities & Communities Platform Convergence

The adoption of Internet of Things (IoT) as part of various smart city ventures across the globe has propelled the idea of utilizing information and communication technologies (ICTs) to support urban services. In order to improve citizens' quality of life, city stakeholders are increasingly building alliances and initiating projects with public and private entities to explore new technologies.



Figure 13: The speakers of the IOT4SCC's Joint Workshop, Session 1: "Insights on Recent Trends and Evolution"

Given this context, IoT Week 2018 provided a platform for bringing together diverse knowledge bases, that could then be leveraged to effectively support the ongoing exploration and application of IoT. Smart cities are set to bring about positive social change, and a central driver of this change will be IoT-based services for citizens, as well as the adoption of IoT-enriched governance and IoT-enriched human capital. However, there remain gaps in the planning, execution and interoperability of IoT-based services. In light of this, IoT Week 2018 saw international initiatives and organizations sharing knowledge and discussing the potential for coming together to develop more open and interoperable solutions for smart cities. Sessions in this track included:

Welcome and Introductory Remarks

Session 1: Insights on Recent Trends and Evolution

Session 2: Smart City IoT Convergence: Platform and Solutions Convergence & Interoperability

Breakout A: IoT Integration and Interoperability in Smart Cities (Southbound)

Breakout B: Cross-Domain Applications (Northbound)

Day 1 Wrap-up Session

High Level Panel: IOT4SCC IoT SDG and Urban Agendas

Session 3 - Implementation: Large Scale Pilots and Open Calls

Breakout C: IoT and Smart Cities: Personal Data Protection Strategies and Guidelines

Breakout D: Open APIs

IoT Standards Trends & Convergence Plenary Session

## 5. IoT & Big Data

Under the umbrella term, 'Making the Data Revolution Happen', this program track addressed IoT & Big Data, and offered a series of sessions in which senior experts provided overviews in the form of short presentations on concrete use cases. The central question here was: how can Big Data preparation, wrangling, analytics and reporting be adapted in order to streamline and optimize data intensive projects to make them more reusable and scalable? The specific sessions included the following topics:

Trust and Technology - can it go together?

Computational Power and Efficiency - will it help overcoming barriers?

Machine Learning and Big Data - Will it help transforming Data into Knowledge?



Figure 14: Dirk Helbing and Peter Wittenburg at the track on IoT & Big Data

## 6. 5G – IoT Convergence (hosted by TM Forum)

The Convergence of Wireless Communications is a requirement for the full deployment of 5G. New challenges and opportunities were introduced and debated in the '5G Convergence' program track, hosted by TM Forum. This track included sessions such as:

5G – IoT Convergence: An Overview

An Interactive Session on 5G IoT Ecosystem Integration & Management

5G and IoT: The Security and Privacy Challenges





Figure 15: Franck Boissière, speaking in a session on 5G-IoT Convergence

## 7. Artificial Intelligence and IoT

The 'Artificial Intelligence and IoT' program track included the discussion of advances in the development and democratization of A.I. solutions that have the potential to address global challenges relating to poverty, hunger, health, education, the environment and others. The list of the topics addressed included:

Linking A.I. and IoT in Smart Cities

Artificial Intelligence and the Sustainable Development Goals

Creating value by AI and Big Data: Industrial Applications, Challenges and Outlooks



Figure 16: Marcelo Zuffo, speaking about Linking A.I. and IoT in Smart Cities

## 8. IoT for Active and Healthy Ageing

The development of IoT solutions within the 'Active & Healthy Ageing' (AHA) domain has seen the creation of dynamic ecosystems to confront the systematic challenges of health and social care. 'AHA-IoT' services are being offered to individuals, who then produce a high volume of personal data. Consequently, the production and consumption of personal data across domains have become major concerns with regard to data privacy, security, authentication, access consent, ownership, storage management. The sessions in Bilbao that aimed to deal with these issues included:

Smart Living Environments: ACTIVAGE (LSP)

Active and Healthy Ageing IoT

## 9. Smart Farming and Food Security

The 'Smart Farming and Food Security' track enabled the discussion of the latest IoT technology trends in the farming and food sectors. Industrial solutions as well as current European projects were used as an entrance point to explore gaps in the industry, current trends and key demands. The sessions comprised the following:

- New Trends on Smart Agriculture

- Industrial Solutions on Farming and Food Security

- Integrated and Smart Food Value Chain

- Farming and Food Security Ecosystems

## 10. IoT and Advanced Manufacturing

A particularly prominent topic within Basque industrial strategy, the 'IoT and Advanced Manufacturing' program track provided the opportunity for the discussion of international initiatives, various industrial solutions and current ecosystems (local and international) as well as ongoing standardization initiatives. The sessions of this track included:

- Worldwide initiatives: IoT in Manufacturing Initiatives in America and EU

- Solutions and Experiences Coming from the Industry

- Ecosystem and Advanced Manufacturing



*Figure 17: Left to right: Thorsten Hülsmann, Susana Larrea, Jorge Rodríguez Erdoso and Franck Boissiere, debating on "Ecosystem and Advanced Manufacturing"*

## WORKSHOPS



Figure 18: A session as part of the SAREF4City Validation Workshop

Once again, IoT Week presented a series of great workshops and panel sessions that ran parallel to the thematic sessions. The topics of these workshops were:

### 1. IoT Security and Privacy Capacity Building Workshop

IoT Security and Privacy Capacity Building Workshop, part I

IoT Security and Privacy Capacity Building Workshop, part II

### 2. SAREF4CITY Validation Workshop

SAREF4CITY Validation Workshop, part I

SAREF4CITY Validation Workshop, part II

SAREF4CITY Validation Workshop, part III

### 3. IoT in Manufacturing

Insights from the Industry

R&D Initiatives and Results

### 4. Urban Resilience Workshop

Session 1: In Search of Sustainable and Resilient Cities

Session 2: Cities are as Smart as their Citizens!

### 5. Harvesting: A New Challenge for Powering IoT Nodes

Harvesting: A New Challenge for Powering IoT Nodes, part I

Harvesting: A New Challenge for Powering IoT Nodes, part II

### 6. Next Generation Internet Workshop

### 7. U4IoT Workshop

IoT Adoption Barriers – Which, Why and How?

End-User Engagement Tools and Methods for IoT Projects

### 8. Why Should IoT Innovation Actions Engage with Artists?

## STARTUP COMPETITION

On Tuesday, 5th June, 13 innovative startups participated in the IoT Week 2018 Startup Competition, judged by a panel of six senior members. The selected startups were: IMATEK, Ironchip, Arque, Zolertia, Recycl3R, Stockare, WiseHome, SocialAndCare, IDAB-IIoT, Symplio, WICASTR, Myruns and StandardAccess

The winners of the Startup Competition were:



- I award – **Simplio**, Bilbao (Spain)
- II award – **StandardAccess**, Dingle (Ireland)
- III award – **Recycl3R**, Palma de Mallorca (Spain)



Figure 19: Left to right: Marilín Gozalo, Marian Gabilondo, Tanya Suarez and Alex Gluhak welcoming guests to the Startup Competition

## INNOVATION HACKFEST

This year, IoT Week organized an Innovation Hackfest for software developers, systems architects, services and solutions designers, entrepreneurs students, researchers and business makers from start-ups, large industry groups and industrial research units. The Hackfest allowed these individuals to explore the potential of IoT platforms, technologies, solutions and applications that are the result of 3 years of projects within

the IoT-EPI (European Platforms Initiative. The winning projects of the Innovation Hackfest were:

- Winner of the FIESTA IoT Challenge – **WiseHome FIESTA – Power Consumption Signature Analysis**
- Winner of the BIG IoT Challenge – **CALIFIED – Air Quality Calibration Via Big IoT Data**
- Winner of the Symbiote Challenge – **Symbiote for Smart Parts**

## BROKERAGE EVENT

On June 6th, IoT Week 2018 also hosted a matchmaking event for business persons, entrepreneurs, researchers and innovators to network through face-to-face meetings. This one-day event was tailored towards innovative companies, universities and researchers interested in sharing new project ideas and finding collaboration partners for the development and implementation of Internet of Things technologies and applications.

## SOCIAL EVENTS AND SITE VISITS

In addition to these professional sessions, IoT Week 2018 fostered familiarity and networking among its participants through a series of social events and site visits. These included:

- The **Coffee Breaks** and **Networking Lunches** during the week organized next to the Exhibition Area at the Euskalduna Conference Center, to allow participants to visit the stands..
- **IoT Week 2018 & GloTS Welcome Reception** with the support of **Open & Agile Smart Cities** that took place on 5th June with the participation of Dr. **Sébastien Ziegler**, President of the IoT Forum and Mr. **Martin Brynskov**, Chair of the OASC.
- **The Official GIOTS and IoT Week 2018 Gala Dinner** took place on Wednesday 6th June at the San Mamés Stadium's VIP area, where



delegates had the opportunity to take a closer look at one of the most beautiful football stadiums of the world, that will host games in the UEFA EURO 2020.



Figure 20: A collage showing some of the diverse opportunities for networking during coffee breaks



Figure 21: Sébastien Ziegler, Alex Bengoa and Martin Brynskov during the Welcome Reception



Figure 22: The Official GloTS and IoT Week 2018 Gala Dinner

#### IK4 - TEKNIKER Visit

The IoT Week 2018 local host, IK4-TEKNIKER is a not-for-profit Research & Innovation entity whose mission is to enhance companies' competitiveness. IK4-TEKNIKER is active in areas surrounding industry digitization and the increasing connectivity of machine2machine, machine2human, machine2workshop, whorshop2factory and factory2value chain (including the end customer). On Friday 8th June, delegates were offered the opportunity to watch on-site demonstrations on sensing, wireless networks, maintenance, artificial intelligence and big data as applied to a number of different sectors and solutions.



*Figure 23: The IoT Week delegation during their visit to IK4 TEKNIKER*

### **Santander City Visit**

On Friday, 8 June, The City of Santander organized a combined visit to the Santander Smart City Demonstration Center, the R&D lab at the University of Cantabria as well as a tour of Santander's street-level initiatives to explore Smart City deployments.



*Figure 24: The IoT Week delegation during their visit to Santander Smart City Demonstration Center*

## CONCLUSION

From our first edition in 2011 in Barcelona to this 8th edition in Bilbao, IoT Week has grown organically, consolidating the event as a leading global conference that each year attracts top experts in IoT technology from Europe and all over the world..

Following last year's successful event, this year's program built on the traditional tracks on Emerging IoT Research and Development, IoT and Big Data, IoT and Smart Cities, IoT Market and Business Model, and IoT Security and Data Protection, with a number of important additions to enrich the program of activities. The new additions to our catalog included the following program tracks:

- Artificial Intelligence and IoT,
- 5G and IoT Convergence,
- Smart Farming and Food Security,
- IoT and Advanced Manufacturing
- IoT for Active & Healthy Ageing.

Thanks to the involvement of international organizations and the European Commission, the second **IEEE endorsed Global IoT Summit (GloTS)** also enabled us to attract more researchers and academic experts. The spectacular facilities of the Euskalduna Congress Centre facilitated networking and collaboration within the event since it could be held in a single venue. This unique location meant we could construct our largest ever Exhibition Area that was home to over 50 Exhibitors, a startup

competition, the Hackathon, a brokerage event, numerous private meetings and workshops, and other social events to foster synergies among our participants.

Our participants also had the opportunity to visit the headquarters of our Local Host IK4 Tekniker in Eibar, to experience the Smart Santander project, to enjoy an unforgettable gala dinner at the amazing new San Mames Stadium (home of Athletic Bilbao FC) and sample exquisite Basque gastronomy.

IoT Week is a nomadic yearly conference, which has already been hosted by some of Europe's most dynamic cities. During the Closing Plenary Session, we were delighted to announce that next year's IoT Week will for the first time take place in **Aarhus (Denmark), from 17th to 21st June 2019.**

We look forward to seeing you again at what promises to be an unmissable event.

Looking forward to meeting you again at the



**IoT WEEK 2019**  
**17. - 21. JUNE**  
**AARHUS · DENMARK**





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## IOT WEEK EXHIBITORS



SYNCHRONICITY



EMBERS

