Your first choice for building the smart digital future

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FIWARE Foundation is a non-profit organization that drives the definition and encourages the adoption of open standards — implemented using Open Source technologies and reference architectures — to ease the development of smart digital solutions across multiple domains, based on FIWARE technology.

Together with its members and partners, FIWARE Foundation drives the definition — and the Open Source implementation — of key open standards that enable the development of portable and interoperable smart solutions in a faster, easier and affordable way, avoiding vendor lock-in scenarios, whilst also nurturing FIWARE as a sustainable and innovation-driven business ecosystem.

The foundation achieves that through the support of a fast-growing global community that shares a common vision and combines their efforts towards making FIWARE the Open Source technology of choice for industries, governments, universities and associations to reach their full potential and scale up their activities, thereby, entering new markets and growing their businesses. Founded in 2016, the foundation has Atos, Engineering, NEC, Red Hat, Telefónica and Trigyn Technologies among its Platinum members.
There is more than meets the eye

We accelerate the emergence of innovative marketplaces of smart portable and interoperable solutions, guiding industries, governments, universities, and civil society to develop their smart vision.
FIWARE IS ALL OVER THE WORLD

FIWARE Members • FIWARE iHubs

10 FIWARE Lab Nodes
Aguascalientes
Dakar
Lannion
Noida
Penang
Piraeus
Poznan
São Paulo
Vicenza
Wolfsburg

273 Europe
35 Asia/Oceania
31 Americas
12 Africa

iHubs Locations
Amersfoort
Austin
Badajoz
Cologne
Funchal
Geneva
Lagoa
La Plata/Buenos Aires
Logroño
Málaga
Mexico City
Montevideo (2X)
Perugia
Saint-Quentin
Santa Cruz de Tenerife
Seville
Tunis
Uberlândia

Planned new locations*
Athens
Cairo area
Dakar area
New Delhi area
Wolfsburg (Opening Oct. 6)

* Locations are still subject to change.

For further information on our members*, visit: www.fiware.org/about-us/join

*The companies featured here are some examples and do not represent the overall number of FIWARE Foundation members and strategic partners.
With the world’s population rising at an unparalleled speed, a lack of natural resources and more automated services are just the tip of the iceberg concerning issues that public administrations are dealing with. In an attempt to tackle contemporary problems stemming from large crowds living in relatively small spaces, smart solution providers step in by introducing innovative technology, such as waste management, intelligent industrial LED lightings, smart irrigation systems, to name but a few, that can be taken up by public service providers to improve citizens’ daily life.

FIWARE sees smart environments as an ecosystem driven by an efficient administration of public services. ICT-based solutions, with technologies such as big data, Internet of Things (IoT), artificial intelligence (AI), and robotics fuse into every single industry and become the backbone of our social sphere. Being smart goes beyond technology; it requires public administrations to move away from inward, fragmentary-oriented organizational structures towards highly collaborative frameworks (that include private businesses, not-for-profit organizations, social enterprises and citizens) in order to deliver seamless public services and, thus, drive the advancement of an information society.

Each country surely has its own goals and challenges (the word ‘smart’ itself may mean different things across continents), but by establishing sustainable structures and offering new approaches to citizens, authorities, local companies, and other stakeholders to engage within the management of services, public service providers can pave the way for economic development, ultimately increasing the quality of life for their citizens and visitors.
The future will gravitate around the management of context data. Context data describes what is going on, who is involved, where, when, why. Context is meaningful in farms, describing the state of the crops and soil. In the industry field, it can help factory managers improve efficiency in industrial systems. At energy plants, it can be helpful to describe the status of the plant and the predicted energy demand. Finally, in cities, data collection generates valuable insights that help public administrations and businesses to improve the way we live, work and engage with one another.

The processing of context data will drive smart decisions in the future. Smart decisions will ultimately improve daily processes, raising the productivity of people, and businesses. Capturing, managing, processing, analysing and visualizing context data will be at the core of solutions in Smart Cities, Smart Industry, Smart Agrifood and Smart Energy.

Context data is a blend of information coming from multiple sources. But the data owners are at the driver’s seat when deciding who can access their data, when, how, where and what for. This means that they can exercise full sovereignty over their data, eventually deciding whether they want to monetize their data or not and who will have to pay for it. That’s why context information management provides the basis for the new Data Economy.

FIWARE lays out the fundamental context management standards needed for the creation of interoperable platforms and digital infrastructures. By enabling the blending of tools for integrating multiple context data sources and helping to process and analyze context management at a large scale, FIWARE stands out as your first choice for building the smart digital future.

Standards are driving the smarter tomorrow

Common open standards are an important element of data infrastructure worldwide. They help technology users and providers publish and use data in ways that can drive new business models, create open ecosystems and help public administrations to implement policy goals to deliver more effective public services and hence, boost citizens’ living standards. A long-established champion of open standards, FIWARE will always strive to ensure that standards drive the open source technology market, that data is available to the widest range of users, for the widest range of purposes, Anytime. Anyday. Anywhere.

Some highlights from our work with our long-standing partners:

- In 2016, the European Commission published the 2016 Rolling Plan for ICT Standardisation in which ETSI was requested to create an ISG (Industry Specification Group) aimed at the definition of a standard Context Information Management (CIM) API with FIWARE NGSI as a candidate. In the beginning of 2017, ETSI created the CIM ISG which was successfully brought to market with the so called ETSI NGSI-LD API specifications in January 2019.

- FIWARE Foundation has (together with its members) actively participated in standardization activities within ETSI (NGSI-LD API specifications), W3C (Web of Things), GSMA (IoT Big Data Ecosystem project) and TM Forum (via the Front-runner Smart Cities program).

- In 2018, FIWARE Context Broker was selected as the new Connecting Europe Facility (CEF) Building Block, help building the next generation of European digital public services.

- FIWARE Foundation and its Community have been actively contributing to the development of the International Data Spaces Association Reference Architecture Model (IDS-RAM 3.0).

Here are some of our global partnerships, collaborations and references:
Developing and integrating smart solutions

FIWARE brings a curated framework of open source software platform components which can be assembled together and with other third-party components to build “Powered by FIWARE” platforms that support the development of smart solutions in a faster, easier and affordable way.

The core component of any “Powered by FIWARE” platform is the so-called Context Broker, which supports the FIWARE NGSI API, a simple yet powerful API for solving a basic need in any smart solution: how to gather, manage and provide access to context information. The FIWARE NGSI API enables the integration of FIWARE platform components, the interoperability of smart solutions/services running on top of “Powered by FIWARE” platforms as well as their portability (replicability) across different “Powered by FIWARE” platforms.

The FIWARE NGSI API has evolved over time, following inputs from the global community of developers that have long been supporting the technology. The NGSIv2 version has been widely used in multiple scenarios and has served as the basis for the NGSI-LD API specifications, recently published by the European Telecommunications Standards Institute (ETSI). The Orion Context Broker provides an open source reference implementation of the NGSIv2 API specifications and will soon also provide a reference implementation of the ETSI NGSI-LD API specifications.

Building around the FIWARE Context Broker, a rich suite of complementary FIWARE components facilitate (among other things):

- The interface with IoT devices, robots and third-party systems, capturing updates on context information and translating required actuations;
- The monitoring, processing and analysis of current and historic data using event rules, advanced Big Data and AI algorithms, dashboard and analytical support tools, etc; supporting smart decisions or the smart automation of processes;
- The management, publication and monetization of context data and services, preserving defined access and usage control policies.

The FIWARE Context Broker technology can easily be integrated with blockchain technologies to provide a trustworthy and immutable tracing of certain updates on context.

FIWARE Marketplace

The FIWARE Marketplace is a one-stop-shop, providing entrepreneurs with first-hand access to a wide range of “Powered by FIWARE” solutions and platforms, FIWARE-ready technologies as well as related training, coaching, consultancy, integration and support services. The “Powered by FIWARE” and “FIWARE-ready” labels help entrepreneurs to gain visibility and credibility, essential to building partnerships and gaining market traction.

Check out the 170+ global solutions that are already in our Marketplace: www.marketplace.fiware.org

FIWARE - Paving the way

In the future digital sphere, context data must be pervasive and accessible in real-time. It creates a digital continuum, blurring the frontiers between application domains. FIWARE is bringing the standards of reference at every step to be taken by organizations in their transformation journey towards:

- Becoming truly smart, breaking the silos;
- Collaborating with other organizations towards a sustainable market;
- Fostering open innovation;
- Enabling the Data Economy.

The European Commission (EC) has formally adopted FIWARE Context Broker technology as CEF Building Block within their Digital CEF (Connecting Europe Facility) Building Blocks program, part of the CEF Telecom program. This means that the EC officially recommends public administrations as well as industrial players within the European Union (EU) member states to adopt this technology in order to foster the development of digital services, which can be replicated (ported) across the EU.

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FIWARE Context Broker technology: a building block for connecting Europe

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The Open Source platform of choice for building Smart Solutions

Efficient & Open
Vertical solutions (some being IoT-enabled) bringing efficiency but in silos
Historic and static data published as open data

Exploiting Data across verticals
Breaking information silos through shared context data space with standard API
Enabling Overall City-level Governance Solutions

Collaborating towards a sustainable market
Common Info Models
Full interoperability between cities and within the city
Enabling portability of solutions across cities

Supporting Open Innovation
Right-time context info published as open data to third parties
Authorization and access control (API management)

Enabling the Data Economy
City as a platform including also 3rd party data enabling innovative business models
Open and commercial data enabling multi-side markets

IMPACT STORIES

Our members are leading players in connecting the world to the future. An exciting (sustainable) digital future where new business opportunities can flourish. The use of FIWARE open source technology and its focus on standards have been bringing forward multiple awesome solutions and appealing impact stories worldwide.

In light of climate change and global pandemics that put great pressure on the world’s food resources, Agricolus® is on a mission to optimize agronomic practices by supporting farmers and professionals with simple and easy-to-use AgriTech tools for data collection and analysis. The core of the company is a platform composed of Smart Farming applications that provides farmers with a complete DSS: field mapping, remote sensing, forecast models for phenology, irrigation, pest and diseases, smart scouting, and prescription maps, based on FIWARE’s Open Source technology.

A data-driven solution for urban design supporting the decision-making process, the HOPU indicators platform takes into account human-perception, climate change, and air quality impact. The solution is based on a large set of indicators, AI algorithms and high definition environment devices (IoT). Following the FIWARE Open Source approach, HOPU integrates datasets from different data sources (environmental sensors, energy and water consumption, social media data, health aspects, etc.), allowing the analysis of all contextual data, and providing simplified indicators.

To address challenges faced by marinas and tourist ports (namely, low levels of technology and poorly services offered to sea travelers), SaMMY has created a cloud-based platform that connects yachtsers and sea travelers with the marinas’ and tourist ports’ ecosystem to simplify the operational processes and offer mobile assistance to the yachters and crew members. The company uses the FIWARE Context Broker to manage Context Information for the mobile (Yachter’s Mobile App) and the Marina Management System (Web App) services.

For more impact stories, visit: www.fiware.org/impact_stories
FIWARE IN THE SPOTLIGHT

Confrontées ensuite à des informations socio-économiques, telles que le taux de chômage, le niveau de richesse ou de pauvreté, ou sanitaires, comme la présence de moustiques ou d’abeilles tueuses ou encore les troubles du sommeil liés à la chaleur des nuits tropicales ou l’illumination publique, elles sont ensuite contextualisées grâce à la plate-forme européenne de gestion des données open source FIware.

Le Monde - France

The FIWARE API allows different components to be integrated into a common denominator that allows public/private sectors to pool research in a way that was not possible before, says Gianluca Dianese, Co-chair of FIWARE Foundation’s Smart Energy Mission Support Committee.

Clean Energy Insight - UK

Coordinato per Sensowave, con la partecipazione della Fundación FIWARE, el instituto de ganadería francés IDELE y la empresa alimentaria Natrus, el objetivo del proyecto Cattlechain es mejorar el proceso de producción y garantizar la trazabilidad y el bienestar animal en la venta de productos de origen vacuno, gracias a la ayuda de la tecnología blockchain.

El economista - Spain

Divided into sectors, the SMART WORLD BY FIWARE showcases how FIWARE is powering up Smart Cities with connected mobility, highlighting various domains and their interactions. The SMART WORLD BY FIWARE was introduced, for the very first time, in June 2019 at Aarhus’s IoT Week, in Denmark. Ever since, it has been present at major smart mobility events across the globe, featuring FIWARE’s solutions and achievements represented in this model.

In spite of the limitations brought on by COVID-19 with regards to showcasing the gigantic model at global leading events, activities related to the SMART WORLD BY FIWARE have not come to a stand still. On the contrary, a video storytelling has been created, explaining how each sector interacts with - and complements the other - in order to create smart environments and how Open Source technology facilitates the process.

Also, a brand new stop motion movie is coming out soon. In the video, the infinite possibilities of ‘Powered by FIWARE’ solutions will be shown, based on a protagonist living and working in a Smart City. We all know that COVID-19 has made live events that much more difficult. With this brand new video, people of all ages will be able to enjoy our vision of a modern, smart digital future, from a safe distance.

As more modules are currently being introduced, the SMART WORLD BY FIWARE is getting bigger and bolder. Over the coming months, the gigantic model can be seen at major smart mobility events across Europe and beyond.
FARMING
This sector shows examples from the project “Internet of Food and Farming” (IoF2020), one of the largest EU projects to date. “City Agriculture” is an important component for the optimization of supply chains, i.e. the avoidance of long transport distances and production and consumption as close as possible to the consumer.

URBAN MEDIASPACE
The building is part of an effort to reshape former industrial areas of the Port of Aarhus into residential and commercial areas. It includes future-ready public housing, a library, culture center with an underground parking facility and a station and light rail system with trains running through and under the building.

RED CITY HALL
The Red City Hall shows the relation to the current political situation, the relationship between the energy change and the traffic change, in the backdrop of international movements such as “Fridays for Future.” Topics such as “traffic avoidance,” “alternative fuels,” or “ecological footprint” are discussed globally today.

ENERGY
The sector represents the concept of a funded project in North Germany, showing how the energy sector can support future green mobility. The gas is produced from the sun and wind, then stored and provided to the gas fuel station to support a local bus, running between the cities of Niebüll and Husum in Northern Germany.

KIEL HARBOUR
This sector showcases mobility developments around Kiel (Schleswig-Holstein, Germany), including technology for water level monitoring in coastal cities, data for the water warning systems, water storage in the streets in case of flood. It also features sensors detecting the occupancy and punctuality rate of naval vehicles in real-time, as well as opening and closing process automatization of movable bridges.

TOURIST CITY – MOUNTAIN AREA
The sector illustrates Werfenweng, a small community in Upper Austria, as a part of the “Samo” initiative – Soft Mobility. This is an example of fully integrated green and sustainable mobility – a role model for smart mobility of the future.

CITY HALL
The sector represents the city hall of Aarhus. Aarhus is among the smartest and most innovative cities in Europe today. It has been awarded the accolade of the city of culture and innovation on several occasions.

MOBILITY HUB
The sector demonstrates how various intelligent transport concepts are interlinked. FIWARE members across the world provide feasible and smart solutions for these types of implementation.

SMART HOUSE
The Smart House is supported by the IoT sensor hub, which combines and evaluates various data sources and environmental sensors. This model shows that air pollution measured on the ground changes road usage in urban areas.
HOT THEMES
FIWARE is committed to the Sustainable Development Goals (SDGs)

As more and more people move into urban areas, a thorough management of urban growth needs to be in place in order for global issues to be tackled and sustainable development fully achieved. To this end, B20, the private sector’s voice of the G20 community, addresses the global challenges and priorities defined by the G20 countries, by building solid consensus amongst business leaders, international organizations and civil society.

A recent recommendation from the B20 has been towards making Smart Cities the main focus of the G20’s efforts to implement Society 5.0 (Japan’s smart vision of the future) for SDGs. In line with its commitment from public administrations and private businesses towards the SDGs, FIWARE has been guiding cities and industries to deliver their digital vision, with the active involvement of all the relevant actors.

The FIWARE Community fully endorses the SDGs and is working hard to help deliver them. For instance, the Fighting Climate Change with FIWARE booklet features 30+ game-changing solutions that have become vital to the fight against climate change and are, ultimately, setting common standards for Smart Cities. Such solutions are based on FIWARE’s Open Source technology and fully aligned with the SDGs.

Additionally, with the Front-runner Smart Cities Program - jointly launched with TM Forum and aimed at defining a Common Reference Architecture and Data Models for Smart Cities - FIWARE Foundation engages in the global coalition that promotes the adoption of appropriate regulatory frameworks in data sharing and encourages cities to share experiences and best practices.

Together with its members, FIWARE strives to promote transparency, sustainability, accountability, and economic development led by smart, user-centric digital technologies. Going forward, the FIWARE Community plans to establish new sustainability targets that demonstrate its contribution to the achievement of the SDGs. This way, cities can take advantage of highly collaborative frameworks (private businesses, for-profit organizations, social enterprises, citizens, etc.) in order to deliver seamless public services and, thus, drive the advancement of an information society.

HOT THEMES
The FIWARE Community is powering up cities across the globe

Whilst the COVID-19 pandemic has imposed cuts on many businesses, it has also brought to light the need for further investment in digital transformation. A consolidated technology infrastructure has become the backbone of private and public businesses. On that front, the FIWARE Community has been quick to lend a helping hand to cities to transform big data into knowledge and unleash the potential of open data. This way, cities can turn to new technologies when creating new business models. By deploying innovative, replicable, ready-to-use solutions, the competitiveness of businesses and the participation of citizens in the public service process can be improved. Such an approach can nurture Public Private Partnerships (PPPs) and community engagement in cities.

For the last few years, FIWARE adoption has grown considerably among cities around the globe. Four major achievements have so far consolidated the position of FIWARE as an Open Source initiative that is driving the definition of “de facto” standards for Smart Cities, communities and territories:

- The European Commission (EC) has formally adopted the FIWARE Context Broker technology (the core integration technology in any “Powered by FIWARE" architecture) as a CEF Building Block within its Digital CEF (Connecting Europe Facility) program. This means it is a technology officially recommended to public administrations and private companies to adopt as the basis for the development of digital services, which can be replicated across member states and interoperate cross-border.

- FIWARE NGSI (the API supported by the FIWARE Context Broker) is the basis of the open standard ETSI NGSI-LD API specification that cities can refer to in their public procurement processes.

- In conjunction with global relevant organizations, FIWARE Foundation has launched a program for the definition of Smart Data Models that cities can use in combination with FIWARE NGSI to support the development of smart city solutions, which are fully interoperable and replicable (portable) across cities.

- Relying on TM Forum’s Business Ecosystem APIs, FIWARE brings components that enable the active participation of cities in a Data Economy. This allows the evolution of Open Data portals into Data Marketplaces. Some cities within the FIWARE ecosystem are already piloting this concept.

Recognized as the Open Source reference for the materialization of MIMs (Minimum Interoperability Mechanisms), the large majority of OASC’s 150+ Cities have already adopted FIWARE technologies.
HOT THEMES

The FIWARE Community is growing (& counting)

The FIWARE Foundation is a growing global community with a common effort of achieving a solid headway towards making FIWARE Open Source technology the best instrument for companies to scale their activities, enter new markets and grow their businesses. Check out who our new joiners are:

GreenCityZen

An eco-startup providing end-to-end IoT solutions to industries and Smart Cities, GreenCityZen uses cases range from asset monitoring in the water cycle, heat island management and smart watering for cities green spaces, air and presence monitoring to reduce building an energy footprint. The startup also provides sensors and services to customize IoT solutions, operate and deploy IoT network infrastructures.

The founders of Germany’s freshest Smart City Consulting Agency are well known for the successful launch of the highly innovative Smart City Solution in Monheim am Rhein (Germany). Now, the ‘umagineers’ will further put their expertise to work by supporting cities worldwide on their journey to a standardised, open and inclusive use of digitization.

uni.systems

An ICT systems integrator, Uni Systems leads an IoT Innovation ecosystem of 30+ SMEs, Innovation Centers, Academic Institutions and large companies committed to transforming cities into enablers of innovation and sustainability. Via the collaboration with FIWARE, the company aims to build solutions that will support a digital single market of interoperable and replicable applications for smart cities, while transforming cities into platforms of open innovation.

FIWARE DIGITAL INNOVATION HUBS (iHubs)

>> Azores Digital Innovation Hub (Azores DIH): Headquartered in the Nona-gon Science and Technology Park, the iHub aims to foster the digital transformation of the local SMEs by providing training and support in the initiatives linked to FIWARE, strengthening innovation and business competitiveness.

>> Madeira FIWARE iHub: Part of the Madeira Interactive Technologies Institute, the iHub seeks to promote and support innovative and intelligent digital solutions in Madeira’s local economy and public administration. It works mainly in the domains of Smart Cities, Smart Energy, Smart AgriFood, Smart Industry and e-Government.

>> The TEXAS Project FIWARE iHub: A consortium between Volpi Ventures, Top Energy USA, Zorrito Capital, and ITD America, the iHub focuses on Smart Energy, Smart Health, Smart Cities and Agritech. Via workshops, events and skills training, it aims to develop and strengthen a FIWARE ecosystem that can create smart solutions and, thereby, benefit Texas SMEs and startups.

New locations are scheduled to open in the coming months, amounting to roughly 25 FIWARE iHubs globally. To learn more, visit the website.

HOT THEMES

FIWARE University Roadshow

FIWARE is on the front line in the fight against climate change

The “Fighting Climate Change with FIWARE” booklet continues to grow as the world is positively responding to it. **Edition 4.0** is out and features 30 ‘off-the-shelf’ game-changing solutions from the FIWARE Community that have become vital to the fight against climate change and are, ultimately, setting common standards for Smart Cities. The edition also brings forewords from international book writers **Mike Barlow**, **Cornelia Levy-Bencheton** as well as author and water thought leader **Monica A. Altamirano**. Version 4.0 also includes **Voices from the Industry** featuring **Emanuele Bompan** (Environmental Journalist and author), **Robert Brears** (Editor-in-Chief, The Palgrave Handbook of Climate Resilient Societies) and **Ana Torralba Barallat** (Urban Mobility & Sustainable Cities Consultant), who are, in one way or another, experts in climate change adaptation.

Click here to learn about these FIWARE-based solutions that are tackling or minimizing the devastating effects of climate change.
FIWARE’s Ever-Growing Marketplace

With the purpose of disseminating existing commercial offerings around FIWARE, the FIWARE Marketplace provides access to a wide range of “Powered by FIWARE” solutions/platforms, “FIWARE-ready technologies” as well as training, coaching, consultancy, and support services. The “Powered by FIWARE” and “FIWARE-ready” labels help entrepreneurs to gain visibility and credibility, essential to building partnerships and gaining market traction. Besides acting as a single one-stop-shop for companies to learn about and purchase ‘off-the-shelf’ solutions, platforms, IoT devices, software enablers centered around IoT and Open Source - and based on or supported by FIWARE technologies - the FIWARE Marketplace is the ideal starting point for technology enthusiasts to find up-to-date information on disruptive technologies. Over 170 global solutions are already featured in our Marketplace and the number of offerings continues to grow. Check out who the latest joiners are:

>> Context Broker Data Visualisation: This learning tool for data visualisation is meant to be used for playground purposes and as a means to experiment with the Context Broker in an easy manner. The enabler makes it easier for new users to become familiar with the Context Broker and provides a way to get to know its functionalities and advantages in a user-friendly way.

>> Elliot Cloud: This IoT platform is designed to monitor, analyze and manage heterogeneous sources of data in a range of sectors (Smart AgriFood, Smart Cities, Smart Industry, etc.). The company provides a general firmware to connect sensors and applications, offering analytic services into a myriad of domains and adding intelligence to industrial processes.

>> Context Broker - EDP Integration: The Context Broker allows secure and easy sharing and using real time data from different sources, creating an ecosystem of compatible data solutions. Making the Context Broker data available in the European Data Portal further this value chain of having open data easily accessible to all. The European Data Portal can then harvest this exposed metadata and display this information in the portal.

>> SENSIoT: The Smart Environmental Services with IoT allows a comprehensive set of information to be automatically gathered from its assets and processed to maximise its value. Built to be capable of ingesting a large amount of information coming from Urbaser’s assets using electronic devices and sensors and later transmitted using several possible technologies, it then validates this information using different business rules, processed to transform it into other types of information and finally stored so it is ready to be used by the different corporate tools.

For years, FIWARE has been harnessing the Open Source’s model ability to deliver innovation at faster and less costly rates. This has never been needed more than these days when time, technology and innovation are the most critical elements to save lives. It is now all about helping public services and the suffering health institutions to find ways to cope and adapt smoothly, while quickly saving the lives of infected people. In the coming months, a FIWARE4Health booklet will be launched.

Open Source-based ‘off-the-shelf’ and ready-to-use solutions to fight COVID-19

The need for ready-to-use solutions, based on Open Source and open standards principles have become vital also in the health sector to help automate data sharing and thereby, enable health authorities to better track patients and scientists to better evaluate the scientific validity of available data worldwide. One of these outstanding solutions is the biosurveillance system Eng-DE-4Bios. Based on FIWARE technology, the ready-to-use system has been successfully deployed in the Veneto region (Northeast Italy) and is currently rolled-out in further regions and countries.

The success of this solution can be witnessed by its constant participation in several online events in the past month, including:

- **Innovative Digital Health Technologies in the Fight Against COVID-19: Learnings from the Nordic Region and EU**: Hosted by the World Bank Digital Development Global Practice, this webinar highlighted how the outbreak of COVID-19 has brought the role of digital technologies for health centers to the forefront.

- **CEF Context Broker helps turn data into action plans to fight COVID-19**: The event addressed how a number of Italian regional governments are using a data management tool supported by the European Commission, called the CEF Context Broker. The Context Broker is used to feed data into the computerised bio-surveillance system Eng-DE4Bios to help get the virus under control with advanced analytics and real-time monitoring.

- **WeGO Smart Health Responder**: Through a series of webinars, and regional cases of best practices by local governments, corporations, and institutions around the world, it addressed key questions to support international cooperation and promote successful policies in response to COVID-19.

- **Funding Continuity Day**: The event addressed how members of the FIWARE Community have been able to speed up their response to the challenges surrounding COVID-19 with FIWARE-powered solutions.

Apply [here](#) to be certified and featured in the FIWARE Marketplace.
Reference architectures are tangible proof points that combine partner technology with FIWARE technology to create an innovative design to simplify the process of creating solid, ready-to-use environments for smart applications to be run on.

As disruptive technologies such as Blockchain, AI, and Distributed Ledger Technologies (DLTs) - to mention but a few - assume key roles in accelerating the development, governance, and operation of businesses in a more trusted, accountable, and transparent manner, FIWARE has added these technologies to its ‘Powered by FIWARE’ architectures, allowing users to learn how to design applications using the latest technologies and experience its benefits on a practical level.

For instance, DLTs bring value to FIWARE because they can be used to store transaction logs managed in any ‘Powered by FIWARE’ solution. Therefore, these logs cannot be manipulated and can hence, provide the basis for auditing processes: warranting transparency in Smart Cities and animal welfare in livestock farming, and certifying quality in Smart Factories, for instance. Additionally, FIWARE brings great value to DLTs by being able to address one crucial question: how to ensure that the data stored in a Distributed Ledger (e.g., the IOTA Tangle) is not fake data? FIWARE can guarantee that between the time that such data is generated by a sensor, robotic system or information system and is stored into a Distributed Ledger: no human intervention takes place and, therefore, the data cannot be manipulated.

Finally, the FIWARE Tech Roadmap contemplates the evolution of some of its components, by leveraging on some of the advantages that DLTs have to offer:

- The components supporting the monetization of APIs and data resources are relying on DLTs such as IOTA Tangle to log usage records, which are later the basis for a trustworthy process and payment to API/data providers;
- The components dealing with Identity Management and Access Control can use DLTs to manage access control policies so that they cannot be manipulated and can then be stored and handled in a distributed manner.

FIWARE Foundation offers a series of training workshops in the form of online webinars. These are designed to appeal to a variety of audiences and are ranked according to their level of expertise. Wrapped under the umbrella of #WednesdayWebinars and Business Boost Webinars, these virtual experiences cover all there is to know about FIWARE from a technical and a business standpoint. They hereby look at what each of the FIWARE components brings and how apps can be developed using them. They also explain the vision and value proposition of FIWARE in the domains of Smart Cities, Smart Agrifood, Smart Energy, and Smart Industry as well as showcasing the kind of initiatives members of the FIWARE Community are carrying out beyond the development of the technology.

Catered to audiences from Asia to North America, these live knowledge-sharing sessions cover a broad range of topics by industry experts on latest and trending skills and technologies. Besides learning about the components present in solutions, platforms, IoT devices, and software enablers based on - or supported by - FIWARE technologies, participants can also stay up-to-date with the leading technologies and trends in digitization for the coming years and hear how they can navigate the economic, political and social elements brought on by the current digital revolution.

Click here and stay-up-to-date with our upcoming webinars.
FIWARE PRESENCE AT
GLOBAL EVENTS

As part of FIWARE’s offerings, members and partners have the opportunity to join FIWARE Foundation (as co-exhibitors at FIWARE booths or as keynote speakers) at some of the world’s leading conferences. The FIWARE Community has already been present at dozens of global events in 2020, including the Connected Smart Cities Conference (Brussels), the Things Conference 2020 (Amsterdam), the Cities Forum 2020 (Porto), the Transforming Transportation 2020 (Washington), and the E-World Energy & Water (Essen), to mention but a few.

As face-to-face conferences have been cancelled right and left following the COVID-19 pandemic, the FIWARE Community has been heavily present in global digital events instead. In fact, as most meetings have become virtual, allowing participants from all over the world to join in, the FIWARE Community members have been exposed to broader visibility, and network opportunities with new contacts.

**FIWARE domain DAYS**

Guided by our Open Source-thriving Community, we have adapted, created (and harnessed) the knowledge, content, and collaboration experiences that our Community deserves. On that front, we launched the FIWARE domain DAYS, which will cover the main domain focus areas for FIWARE. On 22 June, the series kicked off with the FIWARE Energy Day, as part of the 2020 EU Sustainable Energy Week. This successful virtual event brought together private and public businesses, academia, and developers to learn about how standards are driving the development and integration of Smart Energy solutions and platforms. Leading research institutions, cities and international companies joined the dialogue, including Atos, Red Hat and many others, to discuss the challenges and opportunities within the sector.

Here is what is coming up next:

>> July 23: FIWARE Green Economy DAY
>> July 30: FIWARE Smart Tourism DAY
>> September: FIWARE E-Government DAY
>> September: FIWARE Smart Water DAY

**GREENCITIES**

We are also all eyes and ears for Greencities, the 11th Forum of Urban Intelligence and Sustainability. Set to take place from 30 September to 1 October in Málaga, Spain, the event is a reference meeting for all the agents involved in the construction of smart and sustainable cities. During the event, institutions, public administrations, companies and professionals come together to design the cities of the future.

The FIWARE Community will be presented in a variety of ways, including a strategic partner presence in the Startup Area, hosting round-tables as well as organising technical and business-driven sessions (side events), allowing the FIWARE Community to meet and engage.

Every year, we also host our very own FIWARE Global Summit. It has so far been attended by founders and CEOs of global technology companies, developers, inspiring startups, researchers, policymakers, to mention but a few. Our Summit’s attendees and speakers are among the movers and shakers from the field of smart innovative technologies that are driving the digital future.

For further information about the Summit, visit fiware.org/summit.
WHAT’S HOT & HAPPENING (IN A FLASH)

>> May 28
Juanjo Hierro, FIWARE Foundation CTO, delivers a presentation on Digital Twins during the 3rd OPEN DEI webinar: The Role of Reference Architectures for Data-Oriented Digital Platforms. The webinar introduces a cross-sector and general purpose Reference Architecture proposed by FIWARE, complemented by relevant experiences and lessons learnt by domain-specific experts providing their own perspective in the four sectors addressed within OPEN DEI. Attendees were able to learn how digital platforms and relevant standards can be used to overcome challenges in data-oriented business.

>> June 4
FIWARE joins a Press Conference with Peter Altmair, Germany’s Federal Minister of Economic Affairs and Energy and Bruno Le Maire, France’s Minister of Economy and Finance for the official launch of the GAIA-X Project, which sets European standards for data storage, in addition to offering a secure environment for the cross-business sharing of data in Europe. As part of the initiative, the GAIA-X Foundation will be established and FIWARE intends to become a proud Day-1 member. Formed by digital leaders, industrials, academia and associations, the foundation represents a joint commitment to a transparent European process, openness and broad participation. Given FIWARE’s outstanding work in standardization activities, the membership is a natural step as the GAIA-X Project sets a relevant milestone in meeting the European Union’s ambition to consolidate its leadership in the global data economy. FIWARE Foundation members Atos, IDSA and Orange are also heavily involved in the GAIA-X Foundation.

>> June 10
FIWARE hosts the webinar ‘How to Successfully Create and Run a FIWARE iHub’. The first of a series, it attracted a wide audience eager to learn more about FIWARE Digital Innovation Hubs (iHubs), the one-stop-shop for digital innovation, education, and business growth. With the help of testimonies from worldwide organizations running FIWARE iHubs, the webinar explores what drives people and institutions to run FIWARE iHubs, describes the functions of these iHubs and introduces attendees to the current FIWARE iHubs global footprint.

Upcoming FIWARE iHubs Webinars:

- 16/07/2020
- 13/08/2020
- 10/09/2020

>> July 6
The book Smart Cities for Dummies (Wiley) is launched worldwide and brings a large spread on how FIWARE is powering up Smart Cities across the board. Written by former Palo Alto city CTO and international book author Jonathan Reichental, the publication is designed to be the most definitive and comprehensive starter guide for anyone interested in the future of cities. It covers a wide range of topics ranging from transportation to energy, sustainability to digitalization, open data to hyperloop, and urban innovation to procurement. For more info, visit: smartcitybook.com.

>> July 16
FIWARE CEO Ulrich Ahle participates in the event series Smart Urban Innovation. Organized by FIWARE member Kommunal 4.0, in partnership with IOTA Foundation (FIWARE’s strategic partner), SIBB (FIWARE’s member), Seedlab and HST, the event addresses how smart urban innovation can support cities and municipalities in their digitization journey. During his speech on “Open Data in der Wasserwirtschaft - Praxisbeispiel für Interoperabilität”, Ulrich introduces how new technologies and open data are transforming the Smart Water sector, with a practical example from water management.
WHAT A YEAR!

FIWARE Foundation signs a collaboration agreement (MoU) with the IOTA Foundation. IOTA’s Tangle technology can serve as an immutable, trusted audit trail for relevant context data transactions in “Powered by FIWARE” architectures.

The testbed “TRUSTED DIGITAL TWINS DATA CONNECTION ACROSS THE PRODUCT LIFE CYCLE”, to which FIWARE contributed, features among the 10 testbeds presented at the IoT Solutions World Congress 2019 in Barcelona.

FIWARE opens iHubs in Tunisia and Uruguay. Spanning from South America to Asia, FIWARE’s iHubs help companies and individuals to build tech-enabling communities and internet-based businesses, at a local and international level.

FIWARE welcomes on board new members from Nepal, Sweden, Finland and Germany. The Foundation ends 2019 with over 300 members.

FIWARE Foundation signs a collaboration agreement (MoU) with Digital Arabia Network (DAN). Together, DAN and FIWARE Foundation will promote smart sustainable cities and digital solutions in the MENA Region.

FIWARE signs onto the Shared Mobility Principles for Livable Cities, joining 180+ organizations worldwide. Supported by the New Urban Mobility Alliance (NUMO), the principles act as a guiding framework for urban decision-makers and stakeholders to navigate the shifting transportation landscape, while prioritizing the best outcomes for all.

Having supported startups and SMEs since 2014 with the FIWARE Accelerate Program, FIWARE begins a new chapter with the FIWARE Accelerator. Matching venture capitalists and entrepreneurs, the program helps high-potential startups and SMEs to develop and roll out innovative smart solutions. Acceleration companies ZABALA and GATEWAY49 have been brought on board to deliver technical training and create business opportunities for startups and SMEs.

FIWARE Foundation signs a collaboration agreement (MoU) with the Japanese Data Trading Alliance. The cooperation focuses on a mutual sharing of relevant technologies based on open standards that provide the basis for the development of sustainable smart solutions.

FIWARE opens iHubs in Tunisia and Uruguay. Spanning from South America to Asia, FIWARE’s iHubs help companies and individuals to build tech-enabling communities and internet-based businesses, at a local and international level.

MEET OUR BOARD OF OFFICERS

Ulrich Ahle - CEO

Following his extensive experience in the industrial sector (including Vice President and leader of Manufacturing, Retail & Transportation Consulting & Systems Integration at Atos Germany), helping clients to digitize their business, Ulrich joined the foundation in September 2016. He is on the Board of the International Data Spaces Association and was also on the Board of prostep ivip Association for 16 years, before becoming an Honorary Member in 2019.

Stefano De Panfilis - COO

Stefano joined Engineering Ingegneria Informatica S.p.A. in 1984 and went from Director of R&D Laboratories Department (overseeing 100+ researchers in Europe and beyond) to Chief Innovation Officer of the Engineering Group in 2011. He joined FIWARE Foundation in 2017. Besides his role as COO, he is responsible for the FIWARE Lab Nodes and is also a member of the FIWARE Technical Steering Committee.

Juanjo Hierro - CTO

After a thriving trajectory at Telefónica Spain’s R&D Labs (including Industrial IoT Unit’s CTO), Juanjo joined the foundation in 2017. His involvement with FIWARE dates back to 2011, when he was already coordinating activities related to the FIWARE platform. He has been heavily involved in the launch of the OASC initiative, contributing to the definition of technical mechanisms adopted by cities joining the initiative.

Cristina Brandtstetter - CMO

With a strong track record of success over her 20+ years international career in Operations, Change Management, Strategy, M&A, Marketing & PR, Product Management, Consulting, build-up organisations of industry/vertical teams and diversified go-to-market channels (among many other areas), Cristina joined the foundation in June 2019 to lead the organization’s Marketing, Press and PR teams, with a strong focus on corporate portfolio and partner activities.
PRESS CONTACT

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