

Smart Cities Domain Committee

Minutes meeting October 11, 2022

Agenda

Agenda	1
Registration of attendees	3
Revision of proposed agenda items	5
Addressed topics	5
Relevant announcements from FIWARE Foundation side	5
Report on FIWARE Summit	5
Previous and upcoming presence in Smart Cities related fairs	7
Smart City Connect in Washington DC	7
Smart Country Convention	7
Smart City Expo World Congress	8
Smart Cities book ed. 4 and brochure	9
Smart Cities Impact Stories	9
Featured presentations during Smart Cities DC meetings	10
News from the TSC	10
Smart Data Models. There is a presentation.	10
First results of Technology Convergence Discussions under DSBA (Data Spaces Business Alliance)	11
Digital Europe Call: Data space for smart communities (deployment)	11
FIWARE position papers	11
FIWARE for Smart Cities in North America	12
FIWARE for Smart Cities in Latam	14
Follow up on additional Action Points from last meetings	15
AOB	17

Resources	17
FIWARE SC DC charter	17
FIWARE Reference Architecture for Smart Cities	17
Smart Data Models initiative	17
Main links of the initiative	17

Registration of attendees

Name	Organization	(Y/N)
Roberto Di Bernardo	Engineering Ingegneria Informatica	-
Pierre Golz	City of Herne	-
Arjen Hof	WeCity (+ Future City Foundation)	Y
Antonio Jara	HOPU / Libelium	Y
Ulrich Ahle	FIWARE Foundation	-
Juanjo Hierro	FIWARE Foundation	Y
Stefano de Panfilis	FIWARE Foundation	-
Cristina Brandtstetter	FIWARE Foundation	From 11:45
Angeles Tejado	FIWARE Foundation	11:00-12:00
Alberto Abella	FIWARE Foundation	Y
Jason Fox	FIWARE Foundation	-
Karen Vega	FIWARE Foundation	Y
Tonia Sapia	FIWARE Foundation	Y
Andrea Cruciani	TeamDev	-
Irene Provvidenza	Innova iHub	-
Gianluca Dianese	EPPO	-
Luis Muñoz	University of Cantabria	Y
Marius Snyman	TecLab SP	-
Miguel A. Llorente	Prodevelop	-
Gonzalo La Rosa	Instituto Ciudades del Futuro	-
Brigitte Lutz	City of Vienna	-

Name	Organization	(Y/N)
Roberto Di Bernardo	Engineering Ingegneria Informatica	-
Pierre Golz	City of Herne	-
Arjen Hof	WeCity (+ Future City Foundation)	Y
Xaver Pfaffenbichler	City of Vienna	Y
Lanfranco Marasso	ENG	-
Álvaro Arranz	FICODES	-
Vincent Demortier	Faubourg Numérique FIWARE iHub	-
Jim Craig	Red Hat	Y
Johnny Westerlund	Red Hat	-
Giovanni Coppa	WOBCOM / ASTRID iHUB	-
Franck Le Gall	EGM	-
Jorge Osuna	FIWARE Space Badajoz	-
Pieter de Jong	Future City Foundation	-
Arjan Ankerman	Future City Foundation	-
Daniel Villalba	FIWARE ZONE	-
Jan-Joost van Kan	Atos	-
Clara Pezuela	FIWARE Foundation	-
Esther Garrido	Atos	-
Joaquin Salvachua	Universidad Politécnica de Madrid	-
Miguel A. Pedraza	Telefonica	-
Ali Benbrahim	FIWARE iHub Committee	-
Björn Schwarze	ADDIX	-
Ricardo Vitorino	Ubiwhere	-
Paolo Nesi	DISIT Lab, UNIFI	-

Name	Organization	(Y/N)
Roberto Di Bernardo	Engineering Ingegneria Informatica	-
Pierre Golz	City of Herne	-
Arjen Hof	WeCity (+ Future City Foundation)	Y
Nicola Mitolo	DISIT Lab, UNIFI	-
Simone Chiordi	DISIT Lab, UNIFI	-
Lorenzo Sanna	TeamDev	-
Alain Galdemas	Eridanis	Y
Antonio Filograna	ENG	-
Martino Maggio	ENG	-
Yasunori Mochizuki	NEC	-
Miguel Barone	City of Montevideo	-
Alexander Ricardo Andrade	Sysman	-
Ali Benfattoum	AWS	-
Lanfranco Marasso	ENG	-
Tonia Sapia	FIWARE Marketing	11-12
Oleg Koneef	FIWARE Marketing	Y

Revision of proposed agenda items

The initial list of topics to be covered during the meeting is revised.

Are there other additional items proposed? No. So we proceed with the agenda planned.

Addressed topics

Relevant announcements from FIWARE Foundation side

MoU of collaboration signed between the FIWARE Foundation and RECI (Red Española de

Ciudades Inteligentes - Spanish Network of Smart Cities)

Al Madinah joined the FIWARE Foundation as Platinum Strategic End User.

FIWARE mentioned in the recent [Hype Cycle for Smart City Technologies and Solutions, 2022](#) published by Gartner. Particularly in connection to City Operation Centers (= Integrated Command and Control Centers), referred as open source framework supporting the standardization of services, data and process management.

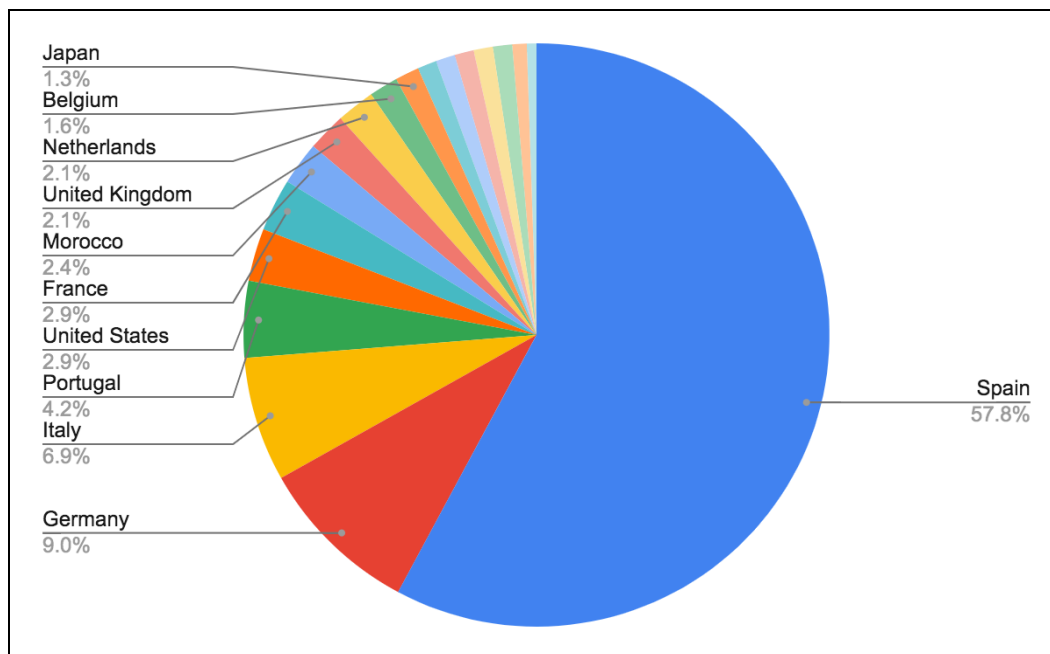
Report on FIWARE Summit

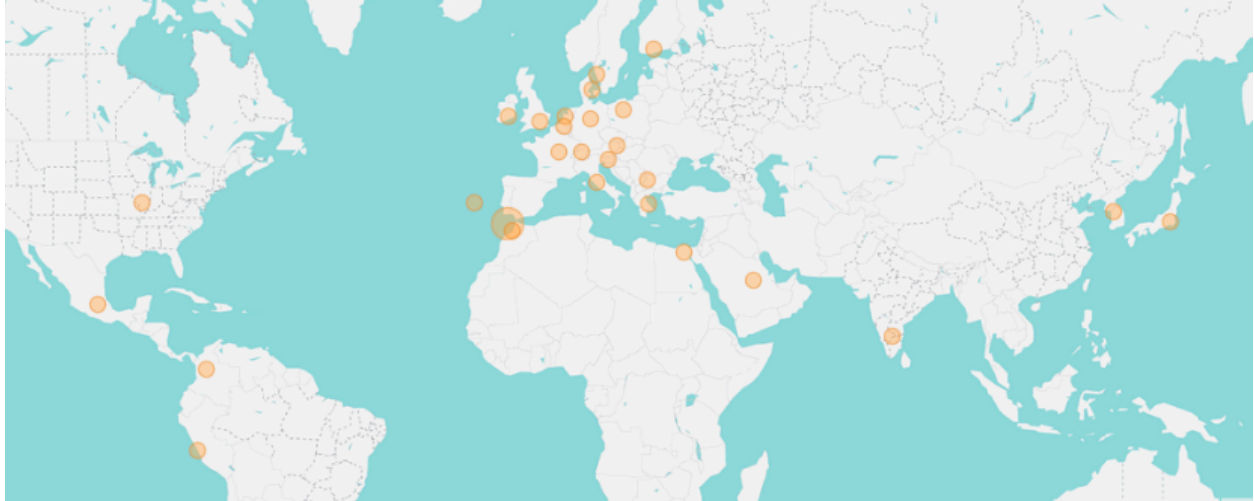
Presenter: Angeles

- 47 earned media: press releases, third parties in social media
- 14 web publications
- 20 presentations in owned media

Spain 218, Germany 34, Italy 26, Portugal 16, United States 11, France 11, Morocco 9, United Kingdom 8, Netherlands 8, Belgium 6, Japan 5, Switzerland 4, Republic of Korea 4, Finland 4, Colombia 4, Austria 4, Greece 3, Others 2

Total 29 countries / 389 attendees





- New FIWARE Foundation Members: the City of Madinah, Saudi Arabia, Bochum University of Applied Sciences, Digital for Planet, and others.
- 5 new FIWARE iHubs: Colombia, Japan, Saudi Arabia, Spain, and the United States.
- Our brand new FIWARE Impact Story on [La Palma Smart Island](#) (Canary Islands) and how it monitors volcanic eruptions is the perfect example of how the region is evolving rapidly as a smart region.
- Photo [gallery](#).

Karen Vega mentioned that some members and attendees had expressed their interest to get access to the presentations made during the Summit. This question will be answered by Cristina, marketing team. They will come soon with that.

Previous and upcoming presence in Smart Cities related fairs

Smart City Connect in Washington DC

The [Smart City Connect](#) fair took place September 26-29 in Washington DC.

Main takeaway is that the US market remains still quite underdeveloped. This is not a real surprise, but the event helped to confirm that the situation hasn't progressed that much since the last time we were here, 3-4 years ago. This is probably partly because of the pandemic, during which cities may have to face some concrete challenges, partly because the change in the administration (NIST got big cuts in their budget apparently in what referred to their activities in Smart Cities).

Most of the sessions were structured as panels which were very focused either on a) specific verticals or b) open data (the "traditional" way), in many cases involving a particular vendor and perhaps a representative of the city where the solution of that vendor has been deployed/piloted.

In the exhibition area, most of the booths were linked to a particular vertical application/solution from a vendor. No booths from cities and, very significant, no booths from smart city platform

integrators (with perhaps the exception of our booth run by AWS/RedHat and the booth of NIVID). This reinforced the idea that the concept of smart city system of systems architecture is still not developed in many cities. That means there is a great opportunity, while at the same time there is a lot to do in terms of “evangelization”.

We had a very good conversation with the new responsible of Smart Cities in NIST. It looks like there may be a good opportunity to revamp the collaboration we had years ago.

Smart City Expo Miami

FIWARE will host a cocktail and panel as well as business meetings during the Smart City expo Miami 12-14 December. Smart city leaders from around the world will converge on Miami for the upcoming [Smart City Expo Miami 2022](#). **The theme of the event is “sustainable is the new smart,”** underscoring the importance of acting to ensure future generations have the natural resources available to enjoy an equal

Smart Country Convention

The [Smart Country Convention](#) fair will take place October 18-20 in Berlin. It's a key event for Smart cities in Germany and now even in all Europe. As Austria is a country partner.

The hosting venue is the innovative space HUB27 at Messe Berlin.

FIWARE will participate in SCCON for the 5th time. First time after COVID event is on site, the last was online only. Event has a hybrid structure with focus on f2f meetings. Supported by the Federal ministry of interior SCCON will have many top level politician guests and speakers, one of those is the minister **Nancy Faeser**, who will open SCCON22 and will also present her digital programme entitled 'Digital Germany - Sovereign. Safe. People-oriented', which she previously unveiled in early 2022 together with Federal CIO and State Secretary **Dr. Markus Richte**.

As a good tradition and a sign of deep influence on the market FIWARE is a **Premium partner** of the event.

It is planned to have a **Network Meeting of German speaking cities, users and FIWARE-interested people** within the Smart Country Convention days, it's going to take place on 19th of October at 15 o'clock.

Our aim is to create a self-sustainable, growing and impactful group of FIWARE users and interested peers using such meetings as a think tank, best-practise exchanges and involvement. **Participate on site (limited places) or online.** If you would like to join us for this event please [pick up your free ticket](#)

Smart City Expo World Congress

The [Smart City Expo World Congress \(SCEWC\)](#) fair will take place November 15-17 in Barcelona, Spain.

- Become a co-exhibitor - Fill in the [form](#) before **October 20th**.
- 13' presentation slots daily - Featured cities will get selected slots for free. Co-exhibitors

have one slot free per day per workstation.

- Confirmed: AWS, NEC, TeamDev, Addix - TBC: Token Project, Martel, NTEL, Wobcom, Atos, EDAG.
- [Link](#) to promo presentation.
- To propose slots in the agenda contact Angeles.



Smart Cities book ed. 4 and brochure

We are cooking the 4th edition of FIWARE4Smartcities book. Take a look on our [previous ed. 3](#) FIWARE now referencing 300+ cities around the World. 125 cities are in our book with 130+ solutions.

Every Friday we highlight one of the cities from a book in our SoMe.

This fall during the Smart City Expo World Congress in Barcelona we are going to present a new edition with some cities which we'll bring on a stage at our booth.

Link to the Smart Cities Survey: <https://www.fiware.org/about-us/smart-cities/smart-cities-survey/>
If you have problems or questions with the survey, contact Angeles.

Smart Cities Impact Stories

All the Impact Stories are available on [fiware.org](https://www.fiware.org) and [Medium](https://medium.com).

Last publication: La Palma Smart Island: monitoring volcanic eruption
<https://www.fiware.org/2022/09/19/la-palma-smart-island-monitoring-a-volcanic-eruption/>

Currently **52** Impact Stories have been published. **36** on Smart Cities domain

Contact tonia.sapia@fiware.org to get a Template and Guideline to write the story.

Featured presentations during Smart Cities DC meetings

Presenter: Abdulmajeed Mangara

Presentations to be uploaded in this [shared folder](#).

Background info:

We will plan a 20' presentation from someone in the Community during each of the SC DC meetings, elaborating on some relevant Smart City project. Antonio Jara will take the responsibility of making sure we will always have someone as a speaker.

Presentations so far:

- Clara Pezuela made a [presentation](#) about GreenMov.

List of potential speakers (barrier is English dominance by public stakeholders):

- City of Lisbon - Portugal (Duarte Fondo - NEC)
- City of Molina de Segura - Murcia - Spain (Juan Antonio Cantero - ICT councillor)
- Murcia region (MiMurcia - LaManga 365) - Spain (Waldo Castillo - Telefonica)
- Kiel - Germany (Benjamin Ditel - Kiel city consultant)
- City of Las Rozas - Madrid - Spain (Javier Peña - ICT director of digital transformation)
- **Suggestions are welcome!**

News from the TSC

Smart Data Models. There is a [presentation](#).

Updates on new data models for smart cities (9) and updated (5) together with other data models (6). Additionally a new subject has been created for the mapping of OSLO ontology for sustainable mobility. Other 4 subjects were also created.

New services available for the users and contributors of smart data models.

- Full export of attributes' database (19.000 registries)
- Customization of the @context for derived data models from existing ontologies or semantic resources
- New contribution to pysmartdatamodels python package
- A script for the creation of data models from ODS open data portals
- Released the script for merging different @context
- Progress in the integration with NODE-RED
- Other minor updates

9 presentations regarding data models from the FIWARE summit on the topics of Statistics, public resources management, tourism, water, flooding risks, sustainable mobility, agriculture and smart buildings and a tool for ngsi-ld modelling.

MAS: Manifesto for Agile Standardization and its seven principles. SDM principles to standardization now documented and with a coming scientific support.

- Don't just standardize, be agile and standardize
- Do not reinvent the wheel
- Normalize real cases
- Be open
- Don't be overly specific
- Flat not Deep
- Sustainability is key

Detailed information about the current data models, showing a large increase on the queued data models > 200.

Future developments includes a new database of data models versions, the adoption of HL7 standard and AAS for industry 4.0 and other integrations

First results of Technology Convergence Discussions under DSBA (Data Spaces Business Alliance)

The Data Spaces Business Alliance (DSBA) launched by BDVA, FIWARE Foundation, Gaia-X and IDSA has recently published a [Technology Convergence Discussion Document](#) that reflects latest status of their discussions towards definition of a recommended Technology Reference

Framework.

A presentation has been prepared about [Data Spaces for Smart Cities](#).

Digital Europe Call: Data space for smart communities (deployment)

A new EU Open Call on [Data Space for Smart Communities \(deployment\)](#) has been launched under the Digital Europe Program.

Deadline is January 24, 2023.

Note that funding is 50%. Companies headquartered outside the EU are not eligible.

This may be interesting for some members of the FIWARE Community. People interested please contact [Luis Muñoz](#) and Juanjo Hierro. FIWARE Foundation most likely would not be able to join or join with large number of resources but is happy to support.

FIWARE position papers

Conductor: Pierre Golz / Juanjo Hierro

Status:

We need new volunteers to help pushing the finalization of the existing position papers.

Background info on position paper for Smart Cities:

We aim at creating a first version of a position paper during 1Q2021. There was a [first draft](#) which will work as a starting point.

As a first step, a [mind map](#) was created by Arjen to make sure everything we want to tell in the position paper will be covered. Once completed, a revised ToC will be proposed and circulated for gathering feedback among members of the Domain Committee. Then work on development of the different sections will be assigned to volunteers.

Whenever the paper starts to get good shape, we shall engage the marketing team to get involved in the final process and also plan for dissemination.

Arjen indicates it is important to talk about replication escalation and reuse. Many are still in early phases on a small scale. When the promise of FIWARE is easy to replicate and after 5 or 6 years. Arjen : ". For example there is still not much scaling up of solutions or cross border use of good examples" we need to see more on this on the paper, perhaps we can say more on barriers to tackle there.

Luis indicated that he has seen a lot of replication in Santander and around. He has a different impression in this process. Precisely on the example of HOPU, Medellin also saw what could be done with FIWARE.. He showcased his solution and this helped the city of Medellin. They have applied in terms of nutrition. Luis suggests doing more on the benefits of being part of the city.

Juanjo suggested populating solutions at the marketplace. We are also convincing cities to see

more out of their comfort zone.

For November 8th Juanjo suggests creating a topic on how we do the next step and reaching on adoption of the platform at a lower level. What Arjen suggests is the conversation now not only about the platform, not only on the technology but about the challenges that they have (Urban challenges, applications of scaling up, because if you see how easy it is to put it together, but not only promoting open source he sees is not enough. Juanjo says: Marketplace. Arjen tries to bring something to move forward.

Background info on position paper for Data Spaces:

FIWARE Foundation has produced a position paper on [FIWARE for Data Spaces](#). New versions of this position paper will follow addressing the topic of Data Spaces in general (not limited to European Data Spaces) and covering relevance for particular application domains (Smart Cities, Smart Agrifood, Smart Energy, Smart Manufacturing, ...). FIWARE Foundation will work with representatives of Domain Committees in development of specific sections per domain. A [extended version of the FIWARE for Data Spaces Position Paper](#) has been created for working in this direction.

People who expressed their interest to contribute to the creation of the specific section on Smart Cities can annotate their name here:

- Antonio Jara, HOPU (<https://www.i3-market.eu/>)
- Jan-Joost van Kan, Clara Pezuela (Atos)
- Vincent Demortier, FIWARE iHub France ([My 2 cents about interoperability](#) + [ODALA](#))
- Franck Le Gall, EGM (<https://fed4iot.org/> and some others)
- Jim Craig, Red Hat
- Martino Maggio, Roberto Di Bernardo (ENG)
- Luis Muñoz (UNICAN)
- Gonzalo La Rosa, Ciudades del Futuro
- Pierre Golz, Herne, IDEASFORUM
- Joaquin Salvachua (UPM)

Caretakers of the different parts were assigned (see comments on document). Rest of people who volunteered to participate in the writing will act as peer reviewers.

FIWARE for Smart Cities in North America

Conductor: Cristina Brandtstetter and Karen Vega

Status:

Three WGs within the NATF:

- Working Group #1 - Marketing Material - **website Template Landing page** - deadline to provide content 17 October Cristina/Tonia
- WG2/WG3 focused on how to raise funding in the US. Strategy: Cities/Universities and Funding Opportunities.
- WG3 focused on identifying cities that may be candidates as early adopters of FIWARE (please contact Karen) add in this [spreadsheet](#) contacts with Universities and Cities for

- the implementation strategy of the funding opportunities in NA.
- Cross-WG, Tonia is giving support.

NORTH AMERICA



North America Task Force

NATF created three working groups to work on market entry

Actions with impact for the FIWARE Community

- ❖ NA Trade Show & Event Planning
 - **Miami Smart City Expo Miami, ed. 3 (Dec 12-14, 2022) planned and confirmed!**
 - **Washington DC Smart Cities Connect (Sep 26-29, 2022) DONE! Smart City Connect fall event (AWS and Red Hat)**
- ❖ **#Working Group 1: Marketing Material** - [Preparation of the NA Landing Page content](#) creation, mailing list to cities and be part of cities today campaign for 3 month.
 - have you experience in NA marketing? [Become a part of the working group now!](#)
- ❖ **#Groups discussion and decision:** How to approach funding opportunities - **outcomes brainstorming: [How to involve Cities, Universities to approach Funding Opportunities.](#)** add in this [spreadsheet](#)
- ❖ **Working Group 3:** New companies and city engagement
- ❖ **Main outcomes from the meeting call:**
 - city references winning cities engage tanks to Miami event.
 - Strategic plan: Objective Drivers, Key Objective, IT initiatives, Results).

Call for contribution

- ❖ Do you know any interesting events? You can contribute in events/fairs/congress as guest/exhibitor/organizer. **Add [here!](#)**
- ❖ Do you have impact stories and/or solution for the Marketplace implemented in NA? Contact tonia.sapia@fiware.org

Want to get involved in this Task Force? Contact: tonia.sapia@fiware.org

Members interested in the US market are welcome to join any of these WGs.

Meeting Minutes and the Spreadsheet for contact proposals in [this drive folder](#).

Contribution regarding event plans in North America this year are gathered through [this spreadsheet](#).

Do you want to become a permanent member of FIWARE's North America Task Force? Apply now writing an email to Tonia Sapia. Monthly meeting will be held 25th October if you have an

interest in NA and would like to be active in this Task Force contact us

Cristina reported that as a first concrete action within WG1, the action of creating a specific smart city landing page for NA (US and Canada) has been identified and will be the focus of the next weeks. This idea can be cloned for other regions/countries like Latam or Japan.

October 25th at 18:00 CEST there is a meeting of the NA Task Force, so anyone willing to join please contact Tonia copying Cristina.

We were present in Canada on June 20-23rd in Toronto at Collision Conference we were together with Satish Kale, Head of emerging Tech Solutions Americas Telco, Media and Entertainment Red Hat and Alois Reitbauer from Dynatrace, Chief Product Officer Head of Open Source projects and Research and us, Karen Vega, Senior Manager As participant From FIWARE North America Task Force Sebastien Torre This was kindly coordinated by the Vienna Business Agency.

Juanjo was in Washington DC he has already informed of the Smart Cities Connect Fall event 23rd Sept.

Smart City as a Digital Platform” at the [Smart Cities Connect Washington DC fall event](#)

FIWARE Foundation brought their experience working across vertical domains with FIWARE open source components . Along with AWS and Red Hat they explained how they are able to accelerate deployment of platforms for cities, accelerating timelines and leveraging open source to prevent proprietary systems lock-in . FIWARE’s North America Task Force team sees an opportunity to fill in the need to avoid silo-work by proposing to work with FIWARE interoperable open source standards .

Miami FIWARE will host a cocktail and panel as well as business meetings during the Smart City expo Miami 12-14 December , we are in coordination for our presence at Smart Cities Miami . Part of FIWARE North America Task Force will be meeting as well in Miami this 12-14 December 2022 to continue the discussion face to face. See you there! [How to get involved Cities, Universities, other](#)

If you want to come please with FIWARE please sign up here. This December, smart city leaders from around the world will converge on Miami for the upcoming [Smart City Expo Miami 2022](#). **The theme of the event is “sustainable is the new smart,”** underscoring the importance of acting to ensure future generations have the natural resources available to enjoy an equal – if not better – way of life.

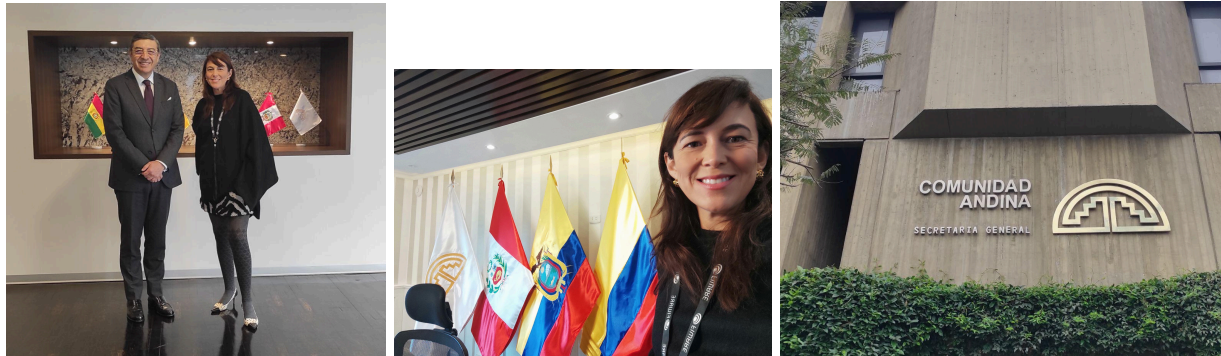
We are looking perhaps for sponsors to bring the LEGO model to this venue.

FIWARE for Smart Cities in Latam

Conductor: Karen Vega (FF) / Gonzalo La Rosa

Status:

Regional news (Karen to present)



Karen met with the Andean Community Secretary General Mr Jose Hernando Pedraza At the AC Secretariat Headquarters in Lima and presented FIWARE. The AC groups 5 counties (PER, BOL,EC, COL as current members and Mercosur countries as associate members)

Mr Pedraza was interested in the possibility of using FIWARE for the region. He was particularly interested in the Agriculture domain for the region. So please write me if you think you have a powerful agri solution based on FIWARE to showcase it. Preferred language Spanish but not a must for a first approach karen.vega@fiware.org

For the next meeting will report on Meeting with AWS Lima .

Argentina:

Casa de Moneda Argentina started a pilot project about Smart Spaces using FIWARE and the Smart Territory Framework of AWS. The achievement will be presented this week in FIRA's Smart City Expo Argentina in Santiago del Estero.

Cities of the Future Institute will be presenting in SCE Posada's Smart Tourist System, using FIWARE, that is the first platform of tourists data collection from multiple sources.

Colombia:

The city of Medellin became a gold strategic end user and has announced in their public network how they are already using FIWARE and also have began activities as FIWARE iHub! They were also with us at the FIWARE Summit and were part of FIWARE in the World

City of Duitama also has joined FIWARE as a member since they have worked with CINTEL on

deployment of a smart city solution.

Both cities are being featured in the FIWARE 4 Cities 4 edition!

The National Government of Colombia announced the public procurement process recommending FIWARE as interoperability standard to be used. We welcomed those great news of adoption of FIWARE at a Country Level. Some Government changes are delaying to continue since there will be a new vice minister at the TIC.

Peru:

Waiting for news. Membership application waiting for a signature from them. Miraflores city made

Mexico

We would like to follow up with the Mexican Institute of Smart and Sustainable Cities, who contacted Juanjo and Ulrich for a presentation on FIWARE

Spanish but not a must for a first approach

Follow up on additional Action Points from last meetings

Conductor: Roberto Di Bernardo

We didn't have time to review. People identified as responsible for the different APs are asked to update the status of the corresponding AP.

Description	Who	Status
First draft of blog post or position article elaborating how FIWARE can contribute EU Green Deal.	Antonio Jara	Last report: First draft distilled. Update? Still working on it but now quite advance. It will be sent today.
Blog post on Smart Destinations	Gonzalo La Rosa	Last report: Gonzalo reported that a blog post was sent in Spanish, and would be sent in English May 12. Title: "Latin American cities begin the process to become Smart Tourist Destinations" Update? Apparently, the English translation was not completed. Gonzalo will review the content of

		the blog post and update it with recent developments before publication.
Check how many projects funded under the AI4Cities project would be based on FIWARE.	FF	<p>Background: 41 projects were funded in the first round, which has now been reduced to 20 projects. Since we have the list that is public, it may be worth contacting them to check whether they use FIWARE or not because, in case they are, we may ask them to fill the SC survey.</p> <p>Update from Antonio: currently 5 projects keep in the competition both for Mobility and Energy. One of them is driven by Engineering and HOPU. He doesn't know the details of rest of projects but seems like at least half of them are adopting FIWARE as base platform technology.</p> <p>Antonio to send the contacts to Angeles so that the marketing team can follow up so we can add this use cases in the survey and potentially new versions of the booklet.</p>

AOB

Any other business?

Resources

FIWARE SC DC charter

Here it is the [Smart Cities Domain Committee Charter for the period Oct 2020 - Sep 2021](#).

FIWARE Reference Architecture for Smart Cities

As many members know, a [slidedeck](#) exists with slides to be taken as reference for description of the Reference Architecture of Vertical Smart Solutions for Cities as well as describing the Reference Architecture of a Smart City.

FF has refined these architecture diagrams.

Smart Data Models initiative

Main links of the initiative

- [Main page repo](#)
- [Domains page](#)
- [Smart city domain](#)
- [Contributing guidelines](#)
- <https://smartdatamodels.org/>
- [Subscription page](#)
- [Search form for datamodels' descriptions](#)
- [News and updates](#)
- [Submit a data model](#)
- [Learning zone](#)
- [Contribution agreement](#)
- [Open session \(live on Mondays\)](#)
- [Contribution Manual](#)
- [Slack channel](#)
- [FAQs](#)
- [NGSI-LD examples generator key values, normalized](#)
- [Surveys to users](#)
- [Widget for finding data models](#)
- [Export in CSV and DTDL](#)
- [Adopters cases](#)
- [Incubated repository](#)
- [Editor](#) for non-technical contributors
- [List](#) of incubated data models
- [Video tutorials](#)
- [Checking proper documentation](#)
- [Checking reuse of attributes](#)
- [Credit to contributors](#)

Open connectivity foundation data models

acceleration
AutoFocus

AutomaticDocumentFeeder
AutoWhiteBalance
BatteryMaterial
BinarySwitch
BodyLocationTemperature
Brewing
Brightness
Button
Calorific
Clock
ColourChroma
ColourCSC
ColourHS
consumable
Conversion
Count
Dali
Deodorization
Door
ecomode
EnergyGeneration
EnergyOverload
GlassBreak
GlucoseHealth
GlucoseMeal
GlucoseSampleLocation
GlucoseTester
heartRateZone
HeatingZone
ImpactSensor
KeyCardSwitch
KeyPadChar
Lock
LockCode
magneticFieldDirection
Media
mediaSource
Mode
Motion
movement
MuscleOxygenSaturation
NightMode
PanTiltZoom
Presence
PrintQueue
pulsatileoccurrence
RemoteControl
RenderingIndex

Request
Saturation
SelectableLevels
settings-accessibility
settings-broadcasting
settings-sound
settings-support
SignalStrength
Sleep
SoundPressure
SoundPressureLevel
Speech
SpO2
Touch
UserInfo-retrieve
UVARadiation
UVBRadiation
UVRadiation
SolarEnergy