



Industrial Internet Consortium New Member Orientation

Diane Ehranjian, Director of Member Engagement

July 2019





Industrial Internet Consortium

The world's leading organization transforming business and society by accelerating the Industrial Internet of Things.

The IIC is an open, neutral “sandbox” where industry, academia and government meet to collaborate, innovate and enable.

200+ Global member organizations

30+ Countries

24+ Active testbeds

35+ Working groups

7 IIoT guidance documents

40+ Liaisons

24+ Working deliverables



Lead your Industry

IIC Founders, Contributing Members, & Large Industry Members

IIC Founding and Contributing Members

IIC Founders, Contributing Members, & Large Industry Members

IIC Small Industry Members

**A Global,
Open Membership Consortium
spanning 30+ countries**

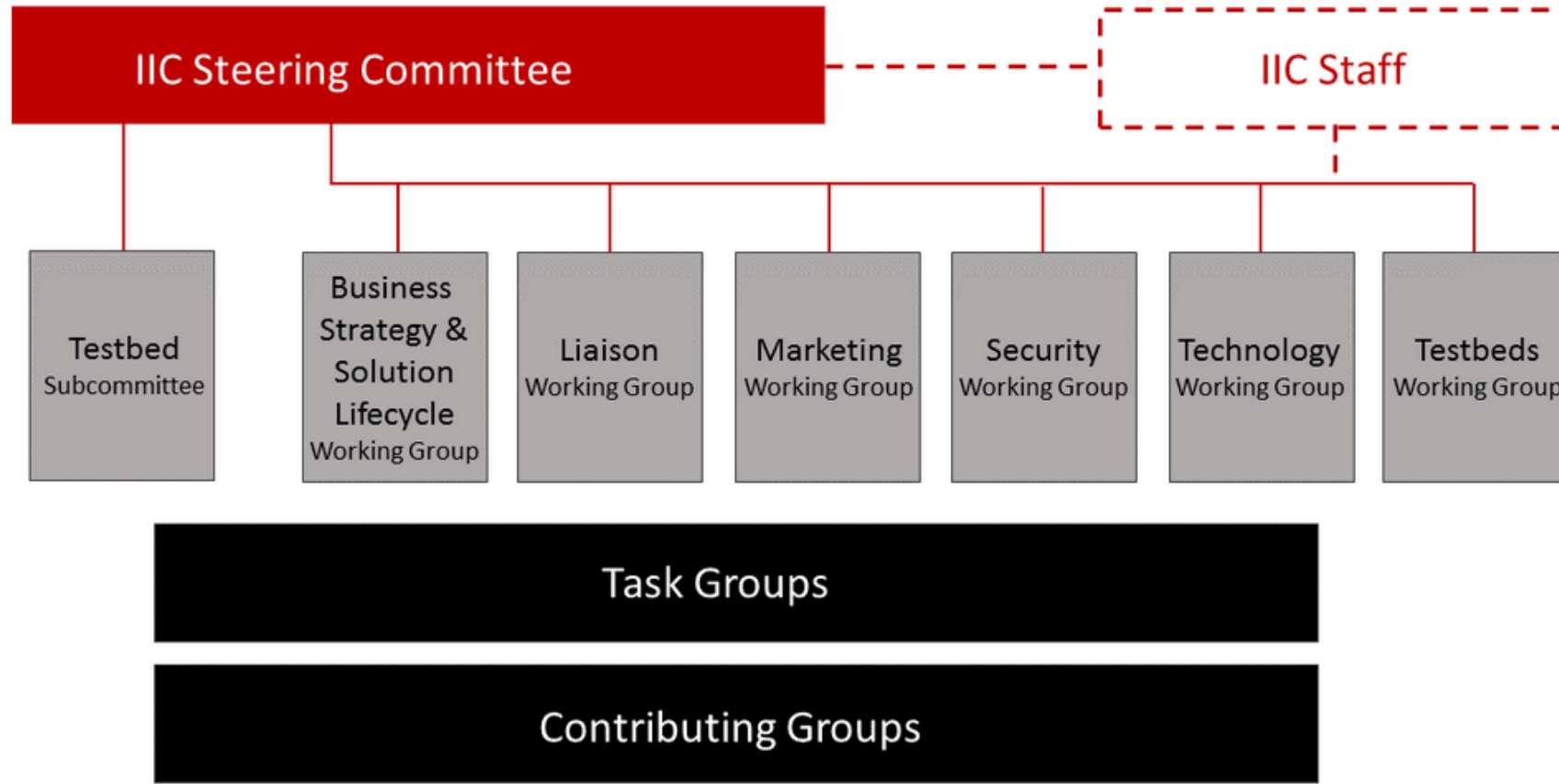
IIC Small Industry Members

IIC Nonprofit, Academic, & Government Members

IIC Nonprofit, Academic, & Government Members



Organizational Structure of the Industrial Internet Consortium





Current Steering Committee

International team comprised of leaders from Germany, France, US and China



Mr. Dirk Slama
IIC SC Chair, VP of
Business Development
**Bosch Software
Innovations**



Dr. Stan Schneider
IIC SC-Vice-Chair, CEO
**Real-Time Innovations,
Inc.**



Mr. Mung Chiang
Dean of the College of
Engineering and the
Roscoe H. George Professor
of Electrical and Computer
Engineering
Purdue University



Mr. Robert Martin
Senior Principal
Engineer
MITRE



Mr. Karthik Suri
Chief Operating Officer,
Predix
General Electric



Mr. Ron Zahavi
Chief Strategist for IoT
Standards,
Microsoft Azure IoT



Dr. Jacques Durand
Director of Standards
and Engineering
Fujitsu



Dr. Richard Soley
Executive Director
**Industrial Internet
Consortium**



Dr. Said Tabet
Chief Architect for IoT
Solutions
Dell EMC



Mr. Wang Xuemin
Director,
Standardization and
Industry Department
Huawei



Mr. K. Eric Harper
Senior Principal
Scientist
ABB



Mr. Wael Diab
IIC SC Secretary, Vice
President - AI, IoT Standardization
and Strategy
Huawei



Meet the IIC Staff



Dr. Richard Soley
Executive Director



Bill Hoffman
President



Stephen Mellor
CTO



Howard Kradjel
Vice President,
Industry Programs



Kathy Walsh
Vice President,
Marketing



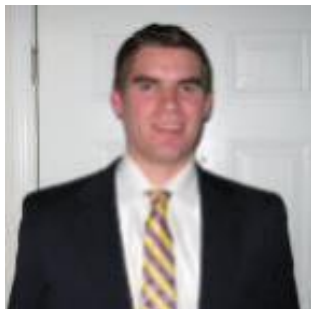
Diane Ehamjian
Director of Member
Engagement



Cheryl Rocheleau
Director, Marketing
Programs



Karen Quatromoni
Senior PR Manager



Matt Sexton
Senior Marketing
Specialist



Andrew Hazerjian
Marketing
Specialist



Harriet Costa
Project Manager



Skyler Lew
Project Manager



Terrence Milligan
Project Manager

The Ecosystem



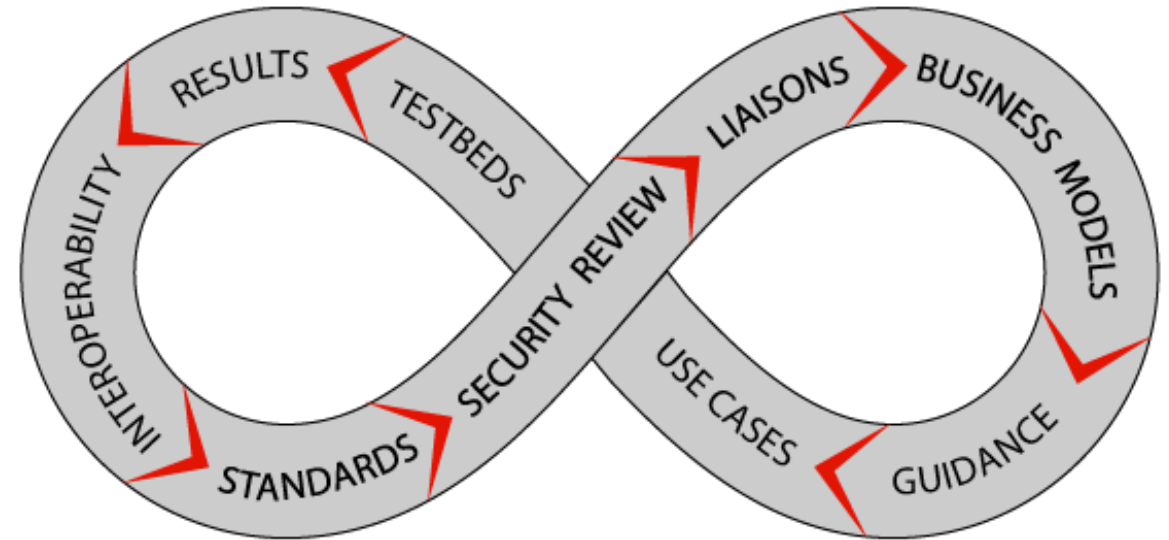
Access Industry Leaders



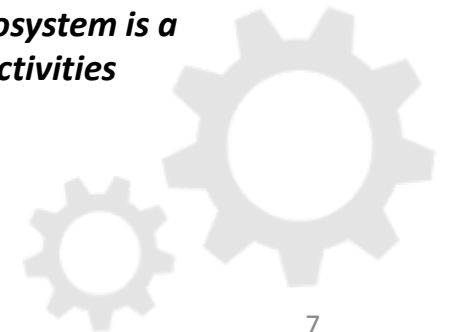
Collaborate in
Working & Task Groups



Deliver Results via *Testbeds*



The Industrial Internet Consortium ecosystem is a continuous flow of inter-related activities



Access Industry Leaders

Take advantage of the vibrant industrial internet ecosystem and the ability to access industry leaders.



Meet Productively

Find **new business development opportunities**. Form **collaborative relationships** with key industry players, thought leaders and up-and-comers.



Work Conveniently

Convene regularly at face-to-face meetings, **via teleconference**, **our workspace**, at **industry events** and other venues to continue efforts and **deliver work products**.



Collaborate Frequently

Unlimited opportunities to **produce** jointly-developed **technical deliverables** and to **promote** via **IIC marketing channels**.



Convene Globally

Gather 4x/year in the US, Europe, and Asia/Pacific. Hundreds of members **come together** for **face-to-face** working meetings, **educational sessions**, **networking** and **special events**.

The IIoT Ecosystem: Criticality of Liaisons

40+ relationships with government entities, standards bodies, alliances and open source organizations

INTERNATIONAL DATA SPACES ASSOCIATION

GLOBAL PLATFORM

Robot Revolution & Industrial IoT Initiative
ロボット革命イニシアティブ協議会

EDGE X FOUNDRY™

NEMA
National Electrical Manufacturers Association

Wi SUN Alliance

INDUSTRIE 4.0 PLATFORM

MT Connect®

W3C®

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IoT TA
IoT Alliance Australia

IVI Industrial Value Chain Initiative

CAICT
中国信息通信研究院
China Academy of Information and Communications Technology

SPE
Society of Petroleum Engineers

one M2M

DIN

ISO JTC1 IEC
INFORMATION TECHNOLOGY STANDARDS

MULTEFIRE™
Linaro

OPC®
FOUNDATION

QuEST®
FORUM

SGiP™

Associação Brasileira de INTERNET INDUSTRIAL

UPnP™
FORUM

MESA
INTERNATIONAL

OMG®
OBJECT MANAGEMENT GROUP®

IEEE

OSGi™
Alliance

kantara
INITIATIVE

边缘计算
Edge Computing
CONSORTIUM

AVRUCU®

NASSCOM

THE Open GROUP

OASIS

broadband forum

tmforum
connecting digital ecosystems

IoT Acceleration Consortium

OPEN CONNECTIVITY FOUNDATION™



A [portal](#) for industrial internet implementations (Public Beta Site)

For Project Managers and System Architects who are analyzing, planning or considering IoT projects, the Resource Hub provides an interface to essential tools and industry resources developed collaboratively by IIC members. A web-based tool guides users through the analysis and planning of IIoT projects. Users receive actionable intelligence and access to IIC members via the Ecosystem Directory and the Body of Knowledge.

Body of Knowledge



Library of collaboratively developed and published insights, frameworks, architectures and technical docs.

Project Explorer



Web-based tool for creating an IoT project assessment and implementation plan.

Ecosystem Directory



A mapping of the IIoT ecosystem that categorizes IIoT products, services, researchers and end users, making experts searchable by their expertise.



New IIC Resource Hub™ Explorer - IIoT Maturity Assessment (June 2019)

- Web-based tool included in the IIC Resource Hub™ that enables users to better understand their enterprise IIoT maturity. The [IIoT Maturity Assessment](#) helps organizations become best-practice adopters of IIoT by guiding business managers through a range of questions about the adoption, usage and governance of IIoT within their organizations.
- The [IIoT Maturity Assessment](#) is available in three levels of analysis: Quick, Standard (both open to everyone) and Detailed (IIC members only).



Collaborate in IIC Working Groups

Play a major role in the future of the industrial internet by collaborating in Working Groups

★ **Technology Working Group**: define and develop reference architectures, frameworks for connectivity, business strategies, industrial analytics, edge computing and more.

★ **Liaison Working Group**: develop coalitions for collaboration in the Industrial internet ecosystem. Operates as the gateway for formal liaisons with standards development organizations, open-source organizations, certification and testing bodies, government entities.

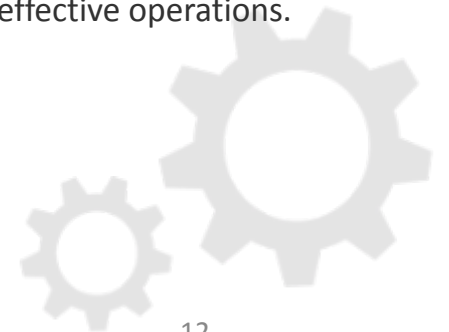


★ **Security Working Group**: determine and develop security and privacy frameworks, evaluate testbed security concerns, deliver trustworthiness best practices, guidance and maturity models.

★ **Marketing Working Group**: work with members and industry at large to establish the Industrial Internet Consortium as a community that champions innovation in connected intelligent machines and processes.

★ **Testbed Working Group**: accelerate the creation and implementation of innovations for the industrial internet. Foster partnerships to build real innovations, provide processes and an infrastructure for effective operations.

★ **Business Strategy and Solution Lifecycle Working Group**: offer resources to monetize innovation Offer actionable guidance and best practices for all aspects of developing and operating an Industrial Internet of Things (IIoT) Solution





IIC Working Groups and Task Groups

- Technology Working Group**
- Architecture
 - Connectivity
 - Digital Transformation (former IT & OT)
 - Digital Twin Interoperability
 - Distributed Data Interoperability & Management
 - Edge Computing
 - Fog Computing
 - IIoT System Management
 - Industrial Artificial Intelligence
 - Industrial Distributed Ledger
 - Innovation
 - Networking
 - Vocabulary

- Security Working Group**
- Automotive Security
 - Security Applicability
 - Trustworthiness
 - Testbed Security
- Liaison Working Group**
- 40+ agreements currently
 - Standards
 - Open Source
 - PI4.0

- Marketing Working Group**
- Academic
 - Automotive
 - Communications
 - Energy
 - Global Event Series
 - Healthcare
 - Marketing Security
 - Mining
 - Resource Hub
 - Retail Operations
 - Smart Factory
 - Thought Leadership

- Testbeds Working Group**
- 24 testbeds currently
 - Testbed Strategy
- Business Strategy & Solution Lifecycle Working Group**
- Business Strategy
 - Ecosystem
 - Use Cases

Regional Teams

- German
- Indian
- China
- Korea
- More coming!





IIC Working Group Deliverables – Foundational Technical Papers

Industrial Internet Reference Architecture -

- Blueprint for Industrial Internet systems. It outlines a standards-based open architecture, describing each component needed in a typical system.

Key System Concerns -

- Identifies and addresses seven key IIoT system concerns

Industrial Internet Security Framework -

- Defines and provides guidance on IIoT security.

Industrial Internet Connectivity Framework -

- Provides a comprehensive treatment of connectivity as a means of building interoperable IIoT systems.

<https://www.iiconsortium.org/white-papers.htm>

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IIC Working Group Deliverables – Foundational Technical Papers

Business Strategy and Innovation Framework -

- Provides a high-level identification and analysis of issues that an enterprise will need to address to capitalize on the opportunities emerging within the IIoT.

Industrial IoT Analytics Framework -

- The first document to offer the broadest scope of requirements and concerns for analytics for IIoT systems.

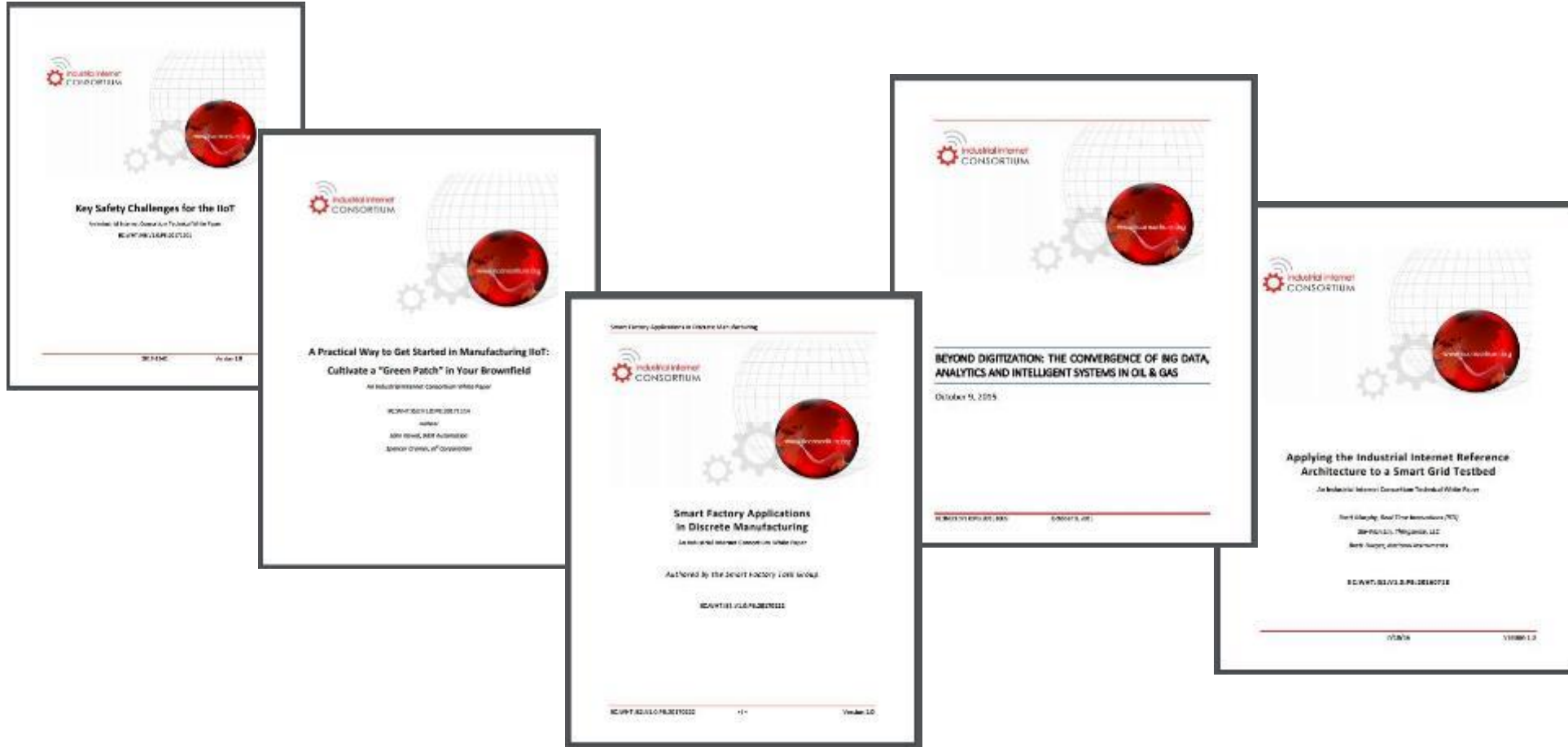
Industrial Internet Vocabulary Technical Report -

- Specifies a common set of definitions for effective communication within the Industrial Internet ecosystem.

<https://www.iiconsortium.org/white-papers.htm>



IIC Working & Task Group Deliverables – Sample White Papers



<http://www.iiconsortium.org/white-papers.htm>

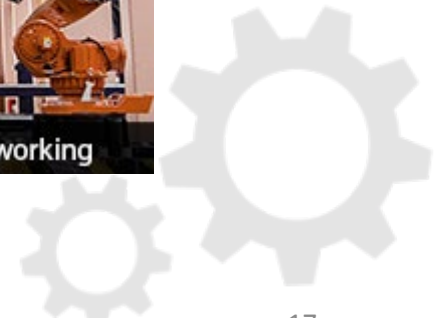




IIC Testbeds

Our testbeds are where the innovation and opportunities of the Industrial Internet are initiated, thought through and rigorously tested

- New Technologies
- New Applications
- New Products
- New Services
- New Processes



Deliver Testbed Results

- Innovate and Initiate** untested technologies or existing technologies working together
- Build** end to end solutions with **Industry Partners**
- Influence standards** and **drive multi-vendor interoperability**
- Test** solutions to **ascertain usefulness and viability before going to market**
- Convergence** of Operational Technologies (OT) and Information Technologies (IT) to identify changes in **business models** and **best practices**



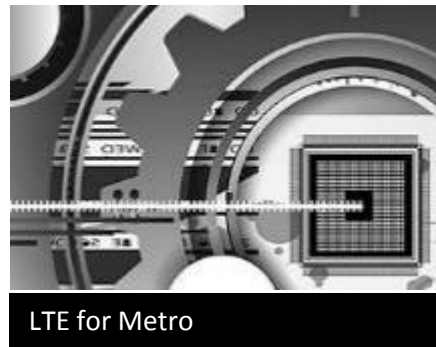
Approved Testbed Portfolio - www.iiconsortium.org/test-beds.htm



Approved Testbed Portfolio- www.iiconsortium.org/test-beds.htm



Approved Testbed Portfolio- www.iiconsortium.org/test-beds.htm



[Approved Testbed Portfolio](#)

[Testbed Deliverables and Insights](#)

[Testbed Processes/Templates/How To Engage](#) (Join TBWG)





Test Drives - New Program Concept Seeking Examples

- Test Drives are short-term rapid engagement pilots for industry End Users to evaluate and adopt IoT technologies. The goal of IIC Test Drives is help stimulate adoption of IIoT technologies through accelerated implementation and learning.
- Right now, our goal is to gauge interest in this concept and collect examples from members. An overview is found [in this Testbed WG Wiki page](#) ([join](#) the Testbed WG to access).





Announcing IoT Challenges

We are excited to launch a series of [IoT Challenges](#) aimed at solving real problems and advancing the validation of industrial internet *applications and solutions*. We are currently designing the two challenges, co-organized with the Trusted IoT Alliance.

If you are interested in becoming a Principal or Emerging Technology Partner, please click on the links below and complete the forms.

- [Smart Logistics Challenge](#) – opened May 15, 2019
- [Smart Building Challenge](#) – opened May 15, 2019





Other Working Group and Task Group Deliverables

- Working Group and Task Group Deliverables can be found on IIC Member site:

<https://engage.iiconsortium.org/wg/Allmembers/home/working-deliverables>

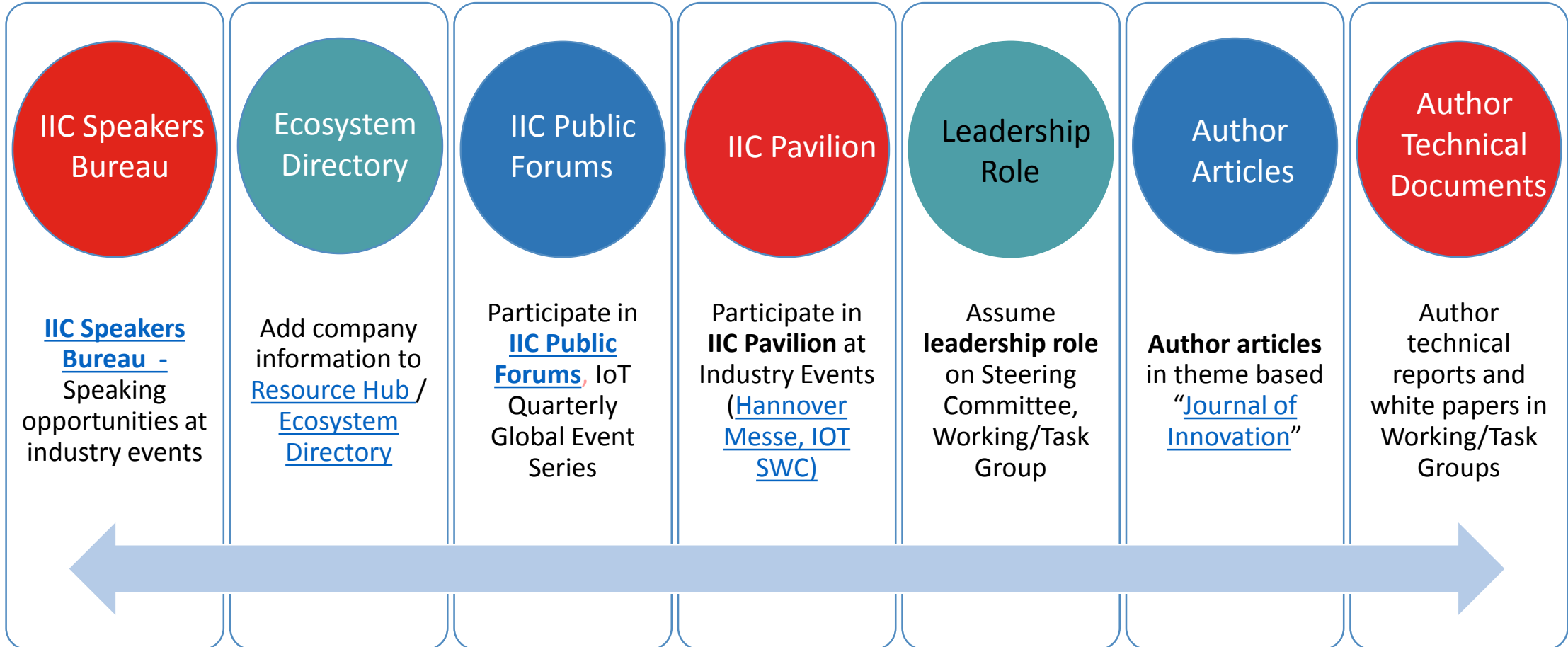
- Latest Working and Task Group Activities and Priorities can be found on IIC Member site:

<https://engage.iiconsortium.org/wg/Allmembers/htmlPage/13>



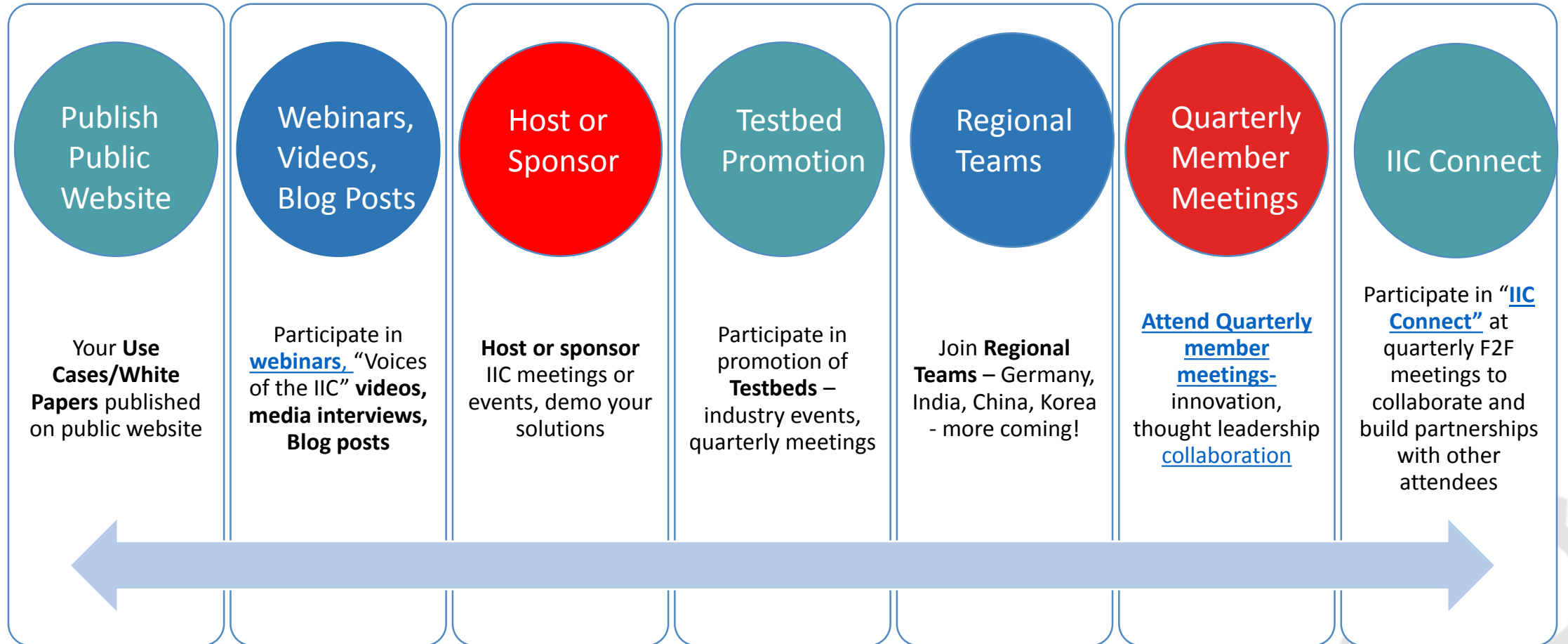


Build your IIoT business and brand by participating in the IIC ecosystem platforms...





Build your IIoT business and brand by participating in the IIC ecosystem platforms





Q4 Member Meeting and Global Event Series

Q3 Member Meeting, Anaheim, CA, USA, September 9 ~ 12, 2019

- [Registration site](#) open on member site
- Disney's Grand Californian Hotel & Spa
- Use code **IICMCA19** for pass discount code
- Discounted meeting fee deadline Aug 9th
- Discounted hotel reservations deadline Aug19
- Highlights – OTA Track, Industry Day (Smart Manufacturing and ITS, Security Maturity Model Workshop, WG/TG sessions, and more



Q3 Global Event Series – *Industry IIoT in Action* - September 12, 2019

- Disney's Grand Californian Hotel & Spa, Anaheim, CA, USA
- [Register now!](#)





Q4 Member Meeting and Global Event Series

Q4 Member Meeting, Sydney, Australia, November 18 ~21, 2019

- [Registration site](#) open on member site
- University of Technology Sydney
- Use code **IICMAU19** for pass discount code
- Discounted meeting fee deadline Oct 18th
- Discounted hotel reservations deadline Oct 14th
Four Points by Sheraton Sydney, Central Park



Q4 Global Event Series – November 21, 2019

- Details coming soon!





Open Edge Symposium™ (formerly Fog World Congress™)

Open Edge Symposium, Long Beach, CA, USA - December 11 ~ 12, 2019

Exploring Intelligent Edge-Fog Solutions for the IIoT

IIC member discount – Save \$200 when you register before October 11

Three Conference Tracks:

- Research/academia/standards
- Technical
- Business Outcomes



Call for Papers: Deadline September 15th

Speaking Opportunities, Limited sponsorships

Registration and details here: <https://openedgesymposium.org/>



IoT Solutions World Congress

[IoT Solutions World Congress](#)

October 29 – 31, 2019, Barcelona, Spain

IIC Member Pavilion

- Pedestals reservations are now being taken and the deadline for securing a spot in our member pavilion is 12 July. Pedestals go for €6,600 – a great value for prime floor space at this leading IoT event. Visit our [Special Offers page](#) for contact information.

Opportunities to [exhibit](#) and [sponsor](#) are described in the related links





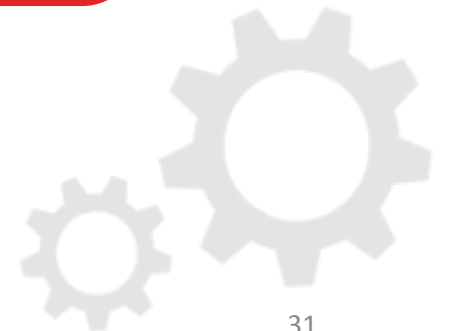
Navigating IIC Websites

IIC Public
Site

iiconsortium.org

IIC Member
Only Site

engage.iiconsortium.org





HOME

COMMITTEES

INDUSTRIES

RESOURCE HUB

MEMBERSHIP

MEMBERS AREA

Enter Members Area

Change Your ID & Password

Lost Password

My IIC

Request Password

Update Your Contact Info



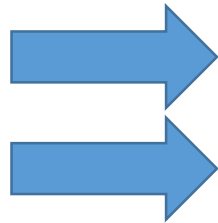


IIC Member Website Login - engage.iiconsortium.org


Industrial Internet Consortium

Username in your Welcome email when you joined

Password link in your Welcome email when you joined



Login



Enter your Username and Password

Username:

Password:

Remember Me

[LOGIN](#)

[? Forgot your password?](#)

For security reasons, please [log out](#) and exit your web browser when you are done accessing services that require authentication!



We welcome our members to our workspace.

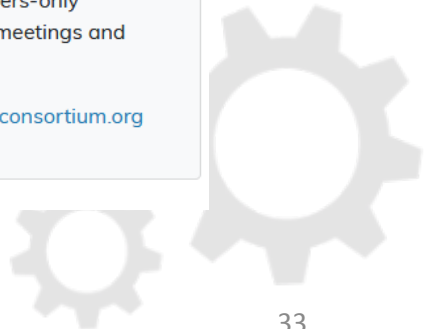
Login is restricted to Industrial Internet Consortium Members.

If your company is an Industrial Internet Consortium™ member but you forgot your password or don't have one, click [here](#) to find out what it is or get a new one. If you don't know whether your company is a member or not, click [here](#) to find out.

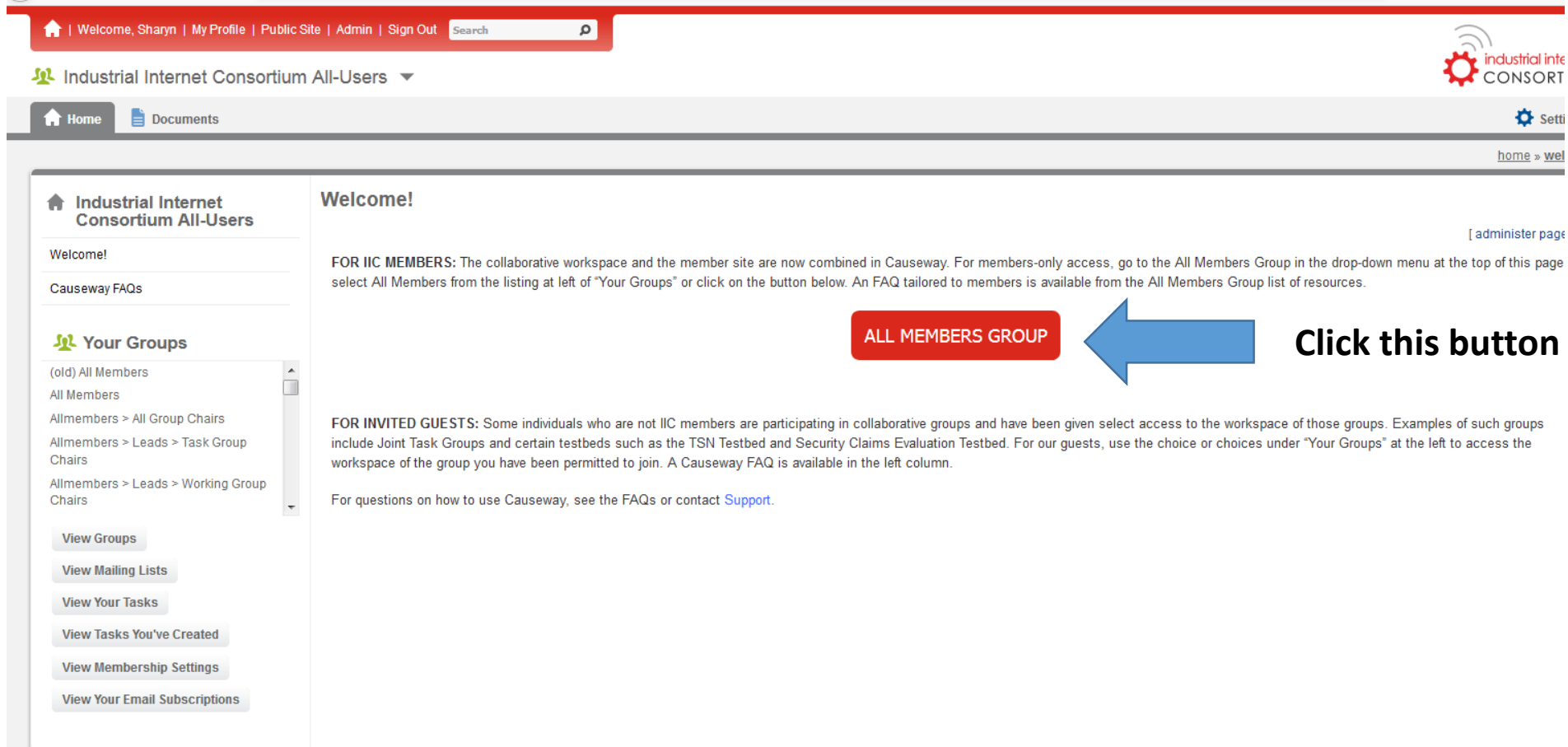
If your company is a member and you would like a username and password, please submit this [form](#). For information about joining IIC and the membership levels available to your company click [here](#).

The Industrial Internet Consortium welcomes any company or organization to join our consortium, access members-only documents, join discussions, attend face-to-face meetings and more.

For more information please send email to info@iiconsortium.org



IIC Member Website



Home | Welcome, Sharyn | My Profile | Public Site | Admin | Sign Out Search

Industrial Internet Consortium All-Users

Home Documents Settings

Industrial Internet Consortium All-Users

Welcome!

Causeway FAQs

Your Groups

- (old) All Members
- All Members
- Allmembers > All Group Chairs
- Allmembers > Leads > Task Group Chairs
- Allmembers > Leads > Working Group Chairs

View Groups

View Mailing Lists

View Your Tasks

View Tasks You've Created

View Membership Settings

View Your Email Subscriptions

Welcome!

[administer page]

FOR IIC MEMBERS: The collaborative workspace and the member site are now combined in Causeway. For members-only access, go to the All Members Group in the drop-down menu at the top of this page select All Members from the listing at left of "Your Groups" or click on the button below. An FAQ tailored to members is available from the All Members Group list of resources.


ALL MEMBERS GROUP ← Click this button

FOR INVITED GUESTS: Some individuals who are not IIC members are participating in collaborative groups and have been given select access to the workspace of those groups. Examples of such groups include Joint Task Groups and certain testbeds such as the TSN Testbed and Security Claims Evaluation Testbed. For our guests, use the choice or choices under "Your Groups" at the left to access the workspace of the group you have been permitted to join. A Causeway FAQ is available in the left column.

For questions on how to use Causeway, see the FAQs or contact [Support](#).

All Members Group - Site Homepage

Home | Welcome, Sharyn | My Profile | Public Site | Admin | Sign Out

 All Members

Home Documents Discussions

All Members Welcome to the IIC Engagement Area

Welcome to the IIC Engagement Area

About

Resources

Quarterly Meetings

Testbed Resources

IIC/Platform Industrie 4.0 Joint Task Groups

New Causeway User FAQ

Your Groups

- (old) All Members
- All Members
- Allmembers > All Group Chairs
- Allmembers > Leads > Task Group Chairs
- Allmembers > Leads > Working Group Chairs

[View Groups](#)

[View Mailing Lists](#)

[View Your Publications](#)

Content Restricted to IIC Members Not for External Publication

WHAT'S NEW
This section contains important announcements of value and interest to the entire IIC membership.

- [Learning to Use Causeway](#)
- [Upcoming Member Events](#)
- [Quarterly Progress Reports](#)
- [Bi-Weekly Membership Notes](#)

GETTING INVOLVED
Welcome to the IIC. This page is a supplementary resource to our [New Member Orientation](#), intended to assist new members in getting familiarized with IIC's:


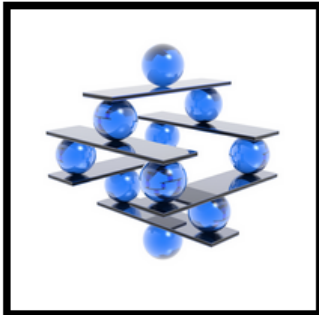


- [Mission](#)
- [Structure](#)
- [Regular Activities](#)

WORKING/TASK GROUP ACTIVITIES
Keep up with the current activities of IIC Working Groups and Task Groups. Regular updates on ongoing projects and deliverables.

[Read More](#)

New members: Review tabs at left - About, Resources, Quarterly Meetings, New Causeway User

Click "View Groups" to join Groups





View Groups Join a Group!



> Business Strategy Task Group

The group's purpose is to identify and analyze at a high level all of the key issues that the enterprise will need to address to fully exploit Industrial IoT concepts for commercial (and other) gain.

Join Group 

You can join this workgroup.

Join



> Ecosystem Task Group

The group helps IIC members leverage the IIC and its ecosystem for business benefit and seeks to understand the value chains in the emerging Industrial IoT. It will clarify market opportunities and technology use cases.

Stan Schneider
Real-Time Innovations
Bassam Zarkout
IGnPower

You are a member of this group.

Leave

Edit Settings



> System Lifecycle and Interoperability Challenges

• A forum to identify and discuss solutions for challenges • About Interoperability (diversity of technologies / devices / protocols / interfaces), • About lifecycle management (upgrade, evolve and scale-up).

Jacques Durand
Fujitsu

You can join this workgroup.

Join



> Use Cases Task Group

The Task Group will collect, evaluate, and where applicable, accept use cases for IIoT solutions across all verticals represented in the IIC.

Jim Morrish
Company for Individuals

You can join this workgroup.

Join



> Verticals Taxonomy

The group created deliverable defining a list of "industrial verticals" for use as a common reference by the IIC membership.

Jacques Durand
Fujitsu
Fumi Iikura
Fujitsu
Robert Martin
MITRE

You can join this workgroup.

Join





Example WG/TG Dashboard – Digital Twin Task Group

Home | Welcome, Sharyn | My Profile | Public Site | Admin | Sign Out

Digital Twin Interoperability Task Group

Dashboard | News | Documents | Discussions | Wiki | Calendar | Voting | Tasks

home » digital twin interoperability t

Interop-tg Welcome

Welcome to the Digital Twin Interoperability Task Group

Please visit our [Wiki Page](#) above for the easy navigation of the group and all the current activities

You can also contact the chairs for the Task Group if you have any questions

- Dr. Somayeh Malakuti (ABB) email: somayeh.malakuti@de.abb.com
- Pieter van Schalkwyk (XMPPro) email: pvs@xmpro.com

Interop-tg News

No articles to view.

[Add Article](#)

Interop-tg Documents

1

- [Digital Twin Interoperability White Paper](#) Rev 1 [Download](#) Apr 2, 2019
- [DigitalTwinInteroperability2019-03-19](#) Rev 1 [Download](#) Mar 28, 2019
- [DigitalTwinInteroperability2019-03-19](#) Rev 1 [Download](#) Mar 28, 2019

[Upload Document](#)

Interop-tg Discussions

- [Event "Digital Twin Interoperability TG \(Asia\)"...](#)
Terrance Milligan - Industrial Internet Consortium
- [New event "Digital Twin Interoperability TG" was...](#)
Terrance Milligan - Industrial Internet Consortium
- [Canceled: Digital Twin Interoperability TG](#)
Terrance Milligan - Industrial Internet Consortium

[Post a Message](#) [View Archives](#)

Interop-tg Wiki

- [Wiki_all_groups_directory](#) Apr 23, 2019
directory of wiki entry pages for all groups
- [IVI-IIC JTG main page](#) Apr 23, 2019
Main wiki page for IVI-IIC JTG
- [Content Restricted to IIC Members Not for External Publication](#) Apr 23, 2019
External publication cases collection

Interop-tg Calendar

- [Digital Twin Interoperability TG](#) Apr 30, 2019 12:00 PM

Interop-tg Voting

No ballots to view.





I need help. Whom do I contact?

- **Technology or security-related questions:**
Stephen Mellor, Chief Technology Officer (mellor@iiconsortium.org)
- **Testbed inquiries:**
Howard Kradjel, Vice President, Industry Programs (kradjel@iiconsortium.org)
- **Marketing inquiries:**
Kathy Walsh, Vice President, Marketing (walsh@iiconsortium.org)
- **Membership Services:**
Diane Ebrahimian, Director of Member Engagement (diane@omg.org)
- **Help with Causeway navigation:**
Harriet Costa (costa@iiconsortium.org)

info@iiconsortium.org

