





# Paloma Reinoso Otero

Product Manager at Altair













www.gidcomp.org

**Paloma Reinoso Otero** 

Cómo impulsar la transformación digital con Altair IoT









#### About me

- Senior Product Specialist en Altair España (mayo 2022 Actualidad)
- Product Specialist en Altair España (julio 2021 mayo 2022)
- Becaria de IoT en Altair España (septiembre 2020 julio 2021)
- Máster en Ingeniería Industrial por la Universidad Pontificia Comillas Madrid, España.
- Ingeniera Industrial por la Universidad Pontificia Comillas Madrid, España.



### About Altair

1985

Founded & Headquartered in Troy, MI U.S.

13,000+

Customers Globally

\$532M

FY21 Revenue 86

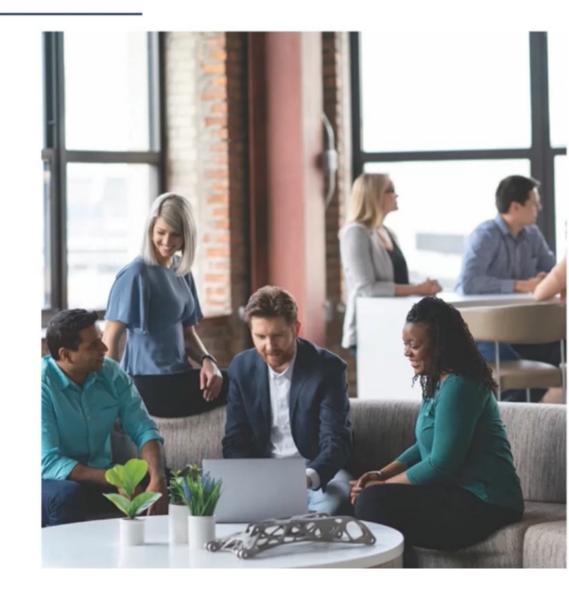
Offices in 25 Countries

3,000+

Engineers, Scientists, and Creative Thinkers

150+

Altair and Partner Software Products

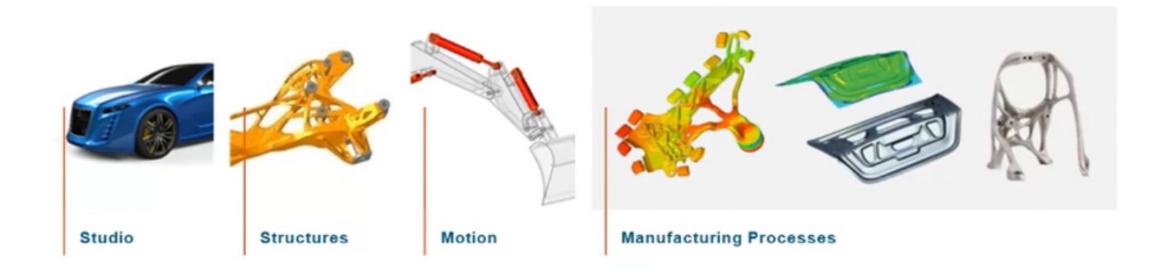


Leverage computational science to drive intelligent decisions for a more connected, safe, and sustainable future.

**△** ALTAIR

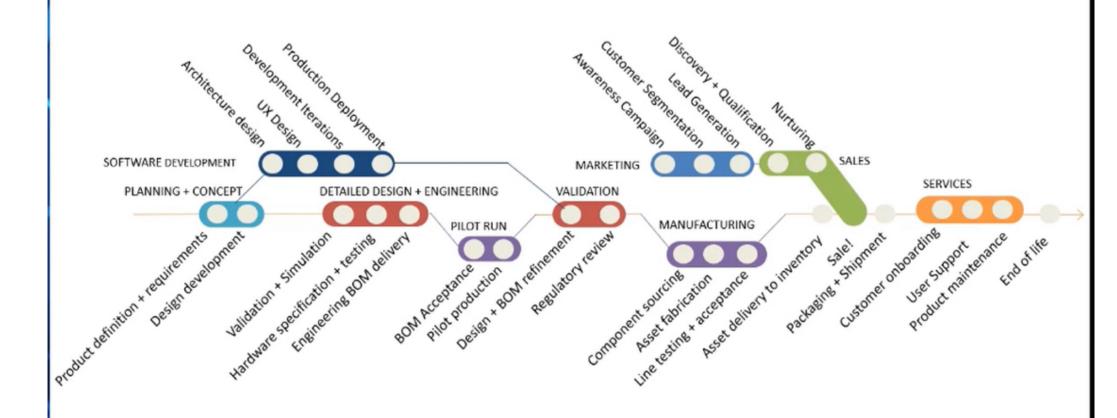


# Deep modeling, visualization, and simulation solvers portfolio



The industry's most powerful and intuitive solution for design engineers to create high performing and manufacturing products.

### Accelerating the Digital Thread



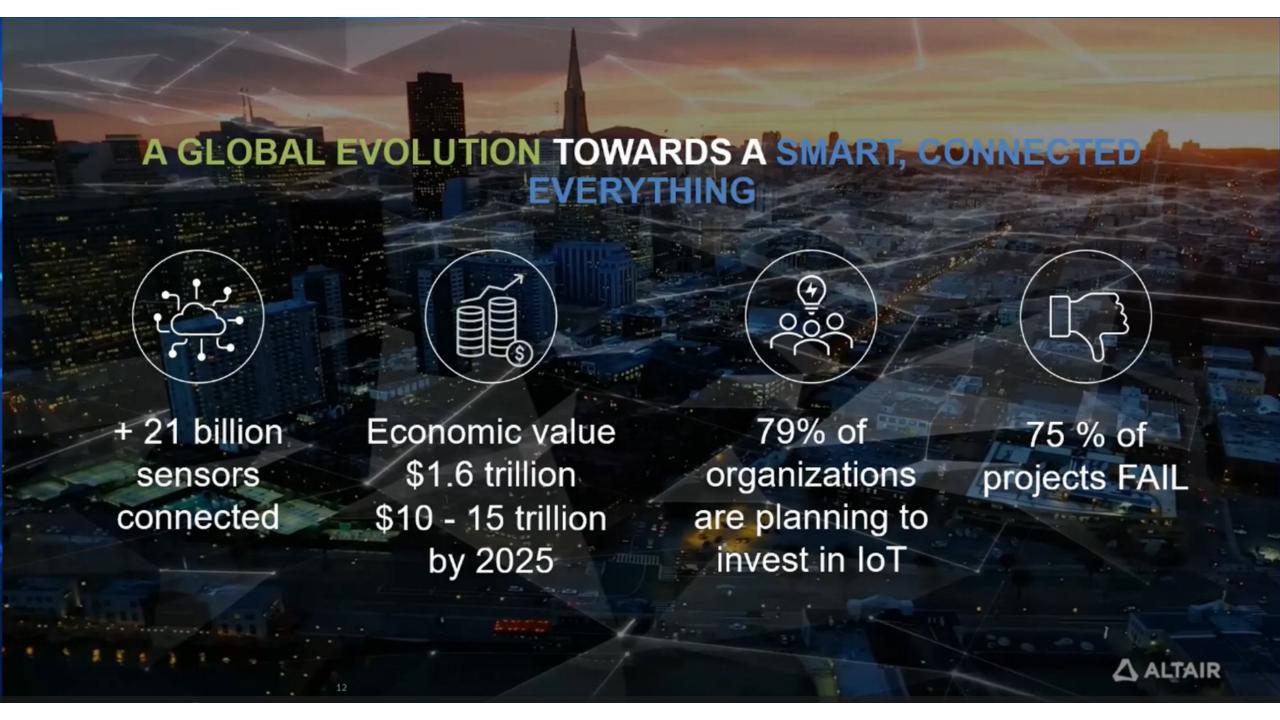
OPERATIONS

**HUMAN RESOURCES** 

FINANCE

**FACILITIES** 

IT / DEVOPS



# Convergence of OEM and IoT software provider













### Altair Digital Twin

An industry-defining, all-in-one, end-to-end digital twin solution that features unmatched simulation compute power, Internet Of Things (IoT) capabilities, and world-class data intelligence tools all under one roof



## Technology stack for Digital Transformation

#### Simulation

#### **Data Analytics**

#### IoT

#### **Physical Based** Simulation

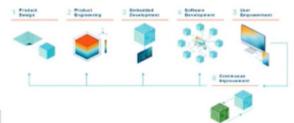


**Data Automation** & Collaboration



Self Service Data Preparation

#### Smart Product development



Multi-disciplinary Systems Simulation



Data Mining & **Predictive Analytics** 





Real time Data

Visualization

Leveraging smart connected ecosystems

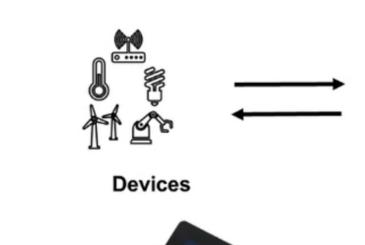


Math-scripting, Data Analysis & Visualization

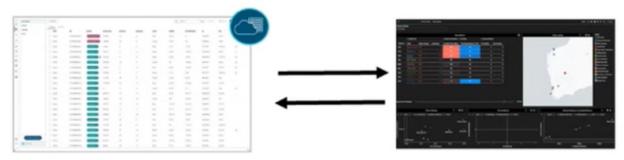




# Dashboard Creator for Asset Monitoring







#### SmartWorks IoT Cloud Backend

- Communication between devices and the application
- Store data from the device
- ·Transform and filter the data
- Set alerts/notifications
- Integrate with ML models
- Develop custom algorithms

#### SmartWorks IoT Real-time Visualization

- Real-time Charts, and Graphs
- Dozens of Data Connectors
- Device Control

# Dashboard Creator for Asset Monitoring



We could set up the interfaces to connect structural integrity models with SmartWorks IoT, right out of the box.

This empowers operators to leverage the powerful models originally used to design their plant, feeding into them the live operational data from the plant throughout its life to gather critical insights and make decisions.

Dr. Adam Towse, Head of Discipline (Simulation and Assessments), Assystem









Cloud Backend

- SmartWorks IoT Edge Compute Platform
  - Protocol Normalization
  - Data transformation
  - Hardware monitoring
  - Remote access
  - Cloud Connectivity
  - OS updates









Real-time Visualization











HORIZONES

# Reinventing Wind Power Generation

#### Challenge

Find a solution that avoids the current problems of wind turbines and achieves all the advantages of solar energy. By developing a new line of investigation for innovative wind technology, design a prototype that brings the best of both technologies.

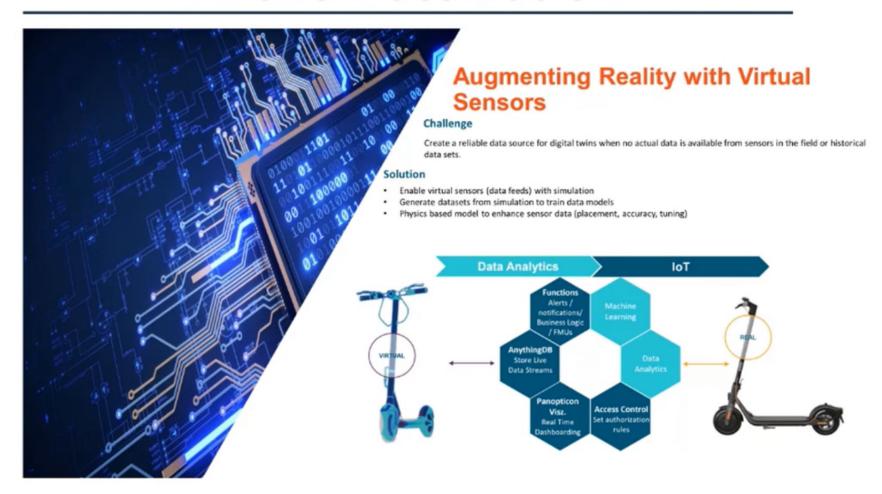
#### Solution

The collaboration between Vortex Bladeless and Altair started with a technical project to simulate the device's aerodynamic behavior.

- Performed a fluid-structure interaction study with Altair® CFD™
- Used Altair® OptiStruct® to build models that let engineers predict the movement of Vortex Bladeless at different wind intensities.
- Using Altair® Flux®, the teams ran simulations studying the amount of electromagnetic flux traveling through the alternator's center coil.
- · Altair® SimSolid® to study the fatigue
- Altair® SmartWorks™ IoT provided the tools to enable the communication between the device and the cloud via MQTT to be able to develop the Digital Twin of the Vortex.















### Just one goal, Create value with technology.

#### **Through 5 different specific strategies:**

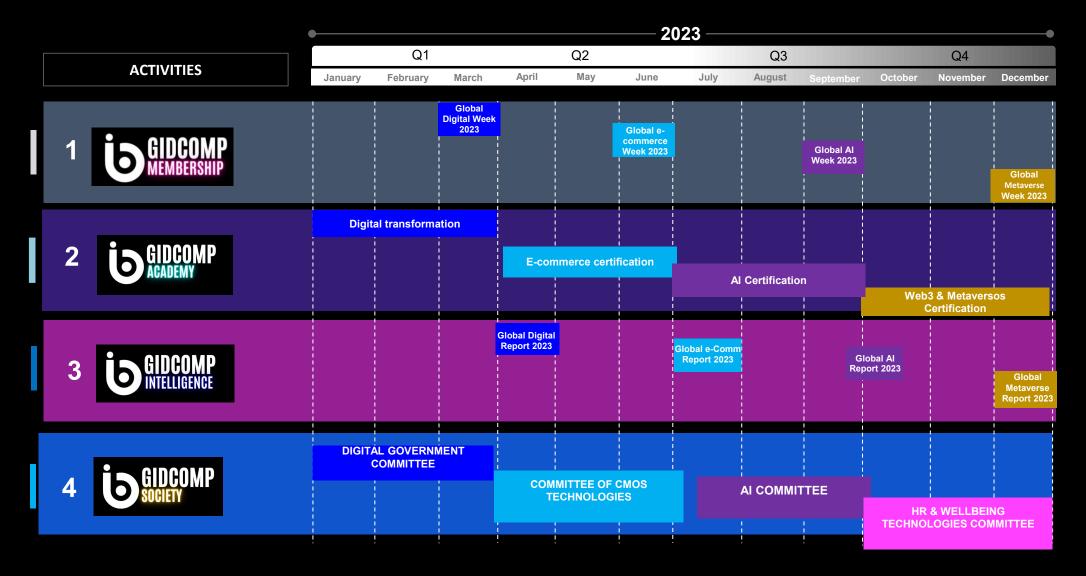
- Spreading and encouraging the use of technologies to increase the efficiency of organizations from all over the world
- 2 Connecting organizations and executives to create more value, sell more in an omnichannel, and geopolitically fragmented world.
- Work together with authorities and institutions to remove barriers to technologies and trade
- Bring experts, knowledge and cases to communities or regions with little access to technological knowledge and digitalization to make opportunities inclusive.
- Establish Committees by type of technology to share uses, applications, as well as groups that want to interact, collaborate and test new applications in the practical field.



### Some brands that are part of our international ecosystem



### **Calendar GIDCOMP 2023**







The GIDCOMP with its purpose of contributing to reduce the global digital divide holds several international festivals inviting senior leaders to share and inspire people to create value and generate experiences in Web 3.0 with new technologies

# 1 Immersive Festivals



### Free inmersive festivals by streaming in english and spanish









#### International experts

Día 1. Smart Cities

Día 2. Public Policies

Día 3. e- Commerce

Día 4. Disruptive Business

Día 5. Wellness Technologies

**Marzo 27 al 31** 

#### Internanional experts

Día 1. Marketplaces

Día 2. Digital Commerce

Día 3. Omnichannel

Día 4. Metacommerce

Día 5. Customer Experience

Jun 26 al 30

#### International experts

Día 1. Robotics & Al

Día 2. IOT

Día 3. Automation

Día 4. Al Performance

Dia 5. Machine Learning

Sept 11 al 15

#### International experts

Día 1. Immersive Technologies

Día 2. Omnichannel

Día 3. NFTs & Blockchain

Día 4. 3D & Web 3.0

Día 5. Artificial Intelligence

Diciembre 4 al 8



The Academy Division seeks to bring international experts in practice together to share their pragmatic and tactical execution lenses in leading global companies.

The main mission is for executives to develop the skills in practice in order to increase the efficiency and sales of brands.

#### GIDCOMP ACADEMY HELPS PROFESSIONALS BECOME MORE COMPETITIVE

#### CERTIFICATION IN: DIGITAL TRANSFORMATION

The digital transformation certification seeks to help decision makers to digitize business. In order to develop skills to add value and differentiation through innovation in brands.

#### CERTIFICATION IN: E-COMMERCE AND OMNICHANNEL

The certification in e-commerce & Omnichanality seeks to help decision makers to digitize businesses. In order to develop skills to add value and differentiation through innovation in brands.

# AI CERTIFICATION APPLIED TO MARKETING AND BUSINESS

The certification in AI for marketing and sales areas seeks to help decision makers maximize results, optimize budgets, predict customer behavior, study, define and segment users, predict audiences and improve operational efficiency.

### CERTIFICATION IN: WEB 3 AND METAVERSES

This certification seeks to provide the tools for executives to take their organizations to web3 and metaverses. Immersive technologies will allow superior experiences both at the retail level with augmented and mixed reality and on the web3 with virtual stores and specialized metaverses.

#### See agenda

#### **UPCOMING START DATES:**

**Beginning** 

JANUARY 14, 2024

**Closing of admissions** 

**DECEMBER 15, 2023** 

#### See agenda

#### **UPCOMING START DATES:**

**Beginning** 

APRIL 16

**Closing of admissions** 

MARCH 20

#### See agenda

#### **UPCOMING START DATES:**

**Beginning** 

**AUGUST 15** 

**Closing of admissions** 

JULY 30

#### See agenda

#### **UPCOMING START DATES:**

**Beginning** 

OCTOBER 01

Closing of admissions

SEPTEMBER 3RD





Global Metaverse
Report 2022
Release for November
2022

Global Digital Report 2023

Release for February 2023

Meta
Commerce 2023
Release for June 2023

Digital poles 2023

**Release for November 2023** 

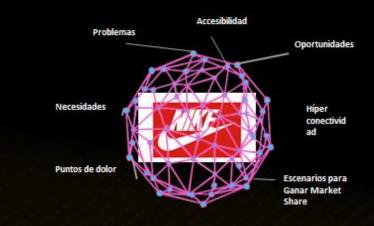
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3



Research, prototypes, tests, reports and Digital Laboratory





#### Current Portfoilio

- 1. Tenis
- 2. Ropa
- . Accesorios

#### Tailored Portfolio (medium term)

- 1. NIKELAND
- Clothing with technological applications.
- applications.
  3. Monitoring Accessories

Example: Non-exhaustive Business Unit NIKE.

#### ILLUSTRATIVE EXAMPLES

#### Market fit. Short term

- Incorporate technological applications
- Prioritization in terms of sales impact

#### Market fit. Medium term

- Be the first to incorporate technologies
- Prioritization in terms of sales impact

### Technology adoption diagnostics





### Reasons to join GIDCOMP:

4



- **1** To receive information on Business Intelligence and Technology trends
- To leverage existing technology (leap Frog)
- 3 To generate networking / community
- 4 To have visibility of applications in the use of technologies
- 5 To inform me and keep abreast of the latest news
- To receive support or consultancy
- To train my team in the face of new market challenges
- **8** To generate relationship with Authorities
- Access to +300 Experts from more than 52 countries and presentations of their models at our festivals





#### Accompanied by senior international leaders who lead the committees

**Smart Cities,** Sustentabilidad & Industria 4.0, Public Policy, egovernment &Ciberseguridad

Blockchain and NFT. Digital Economy, **Artificial Intelligence** 

**Data Science & Big** data, RH & Well-being Technologies, **Education Technology** 

**Metaverses, inmmersives** Technologies (RA, 3D, RM, RV), Experiences **Omnicanal & Digital** Commerce

Social enterprises, Sustainability, Social Digital Business, Social responsibility

**Governments, Int. Agencies** 

CTOs, CDOs, CIOs

CRHOs, COOs, CHOs.

CEOs, CMOs. CSOs.

CSR, ONGs,

Macro

**Application of technologies** 

Micro

#### Affiliates will live an international Figital experience

Meetings are held weekly as follows: E.g. Metaverse Committee

Canal	Hours	Assistants	City	Physical host
Metaverse	1.5 hours	10		
physical	30 min	4	CDMX	Sura
		2	Bogotá	Coats
		4	Madrid	Let me Park

- **ANNUAL OBJECTIVES OF THE COMMITTEES:**
- Publish trends by technology.
- Collaborations with media.
- Working papers.
- Video Cases and documentaries.
- International networking.
- Coordination of Roadshows.
- Support to associations, international organizations, governments, chambers, universities with the digital knowledge bank and global network of experts
- Recognition of executives and exposure of brands that collaborate in the integration of knowledge.

Social responsibility activities of access to the public, via streaming and technological platforms with co-organizing brands.





# VICE PRESIDENTES DIGITAL GOVERNMENT

#### Committee 1

#### **Objective:**

The Digital Government committee of GIDCOMP aims to share best practices, analyze trends, create articles and reports to different stakeholders.

#### **Technological themes:**





ROBERTO HERNÁNDEZ FORMER CEO LATAM OCDE PUBLIC POLICY GIDCOMP VP



HÉCTOR CARDENAS
CEO THE ERGO GROUP
E-GOVERNMENT COMMITTEE VP



JUAN CARLOS REYES
CEO ANTI FRAUDE
CIBERSECURITY GIDCOMP VP



LUIS GODOY
FORMER CEO DE INTELIGENCIA
ECO GLOBAL
PUBLIC POLICY GIDCOMP VP





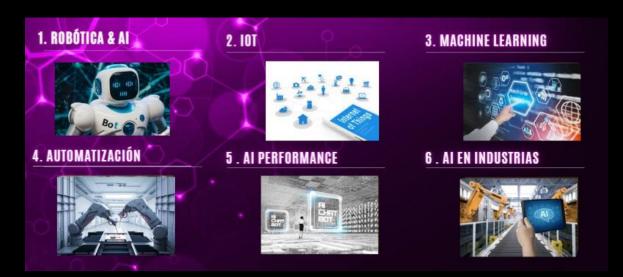
#### **VICE PRESIDENTS ARTIFICIAL INTELLIGENCE & DISRUPTIVE TECHNOLOGIES**

#### Committee 2

#### Objective:

The Artificial Intelligence & Disruptive Technologies committee of GIDCOMP aims to share best practices, analyze trends, create articles and reports to different stakeholders.

#### **Technological themes:**





**FERNANDO CARRIO 020 MARKETING EXECUTIVE** AI GIDCOMP VP



MIRIAM ESPICHÁN **ANALISTA DE MARKETING & CONTENIDOS DISRUPTIVE TECHNOLOGIES GIDCOMP VP** 



**MARISOL CAPETILLO CEO OF VERSE TECHNOLOGY INDUSTRY 4.0 GIDCOMP VP** 



RAMÓN MARTÍNEZ **CEO DE HIRXLAB** TECNOLOGÍAS DISRUPTIVAS GIDCOMP VP



#### **VICE PRESIDENTES HR & WELLBEING TECHNOLOGIES**

Committee 3

#### **Objective:**

The HR & Wellbeing Technologies committee of GIDCOMP aims to share best practices, analyze trends, create articles and reports to different stakeholders.

#### **Technological themes:.**





MONTSERRAT CAZORLA **GLOBAL LEAD ATTRACTION & RETENTION CHG-MERIDIAN** HR TECHNOLOGY GIDCOMP VP



**SUSANA NILA FUTURE EMPLOYABILITY EXPERT FOW 2050 GIDCOMP VP** 



**JULIÁN VARAS** CEO OF C1DO1 **ED TECH GIDCOMP VP** 



**EMILIO SERRA DATA & ANALYTICS ONE SR. MANAGER DANONE BIG DATA & DATA SCIENCE GIDCOMP VP** 





#### **VICE PRESIDENTES DIGITAL COMMERCE**

#### Committee 4

#### **Objective:**

The Digital Commerce committee of GIDCOMP aims to share best practices, analyze technological trends, create articles and reports to different stakeholders.

#### **Technological themes:**





**FERNANDO CANO METAVERSE GENERAL DIRECTOR GRUPO HAVAS MEDIA BRAND & METAVERSE GIDCOMP VP** 



RANDY CRUZ **CITI MANAGER RAPPI DIGITAL COMMERCE GIDCOMP VP** 



JENIFER SAMANIEGO VIRTUAL REALITY HEAD CLUB **CATHOLIC UNIVERSITY OF LOJA REALIDAD VIRTUAL GIDCOMP VP** 



**EDITORIAL DIRECTOR AT FORBES CENTRAL AMERICA** 



#### **VICE PRESIDENTES ONGs & RSC**

Committee 5

#### **Objective:**

The NGO & CSR committee of GIDCOMP aims to share best technological practices, analyze trends, create articles and reports to different stakeholders.

#### **Technological themes:**





**KELLY DUQUE DIRECTOR OF PROJECTS AND PUBLIC** RELATIONS ONGs & CSR GIDCOMP VP



**JULISSA JIMENEZ DIRECTORA DE LMD POLITICAS SOCIALES GIDCOMP VP** 



JOSÉ QUESADA FOUNDER WORLD COMPLIANCE **FORUM TECH & COMPLIANCE GIDCOMP VP** 



MONICA LÓPEZ **CO-MARKETING MANAGER IN HP MEJORES PRÁCTICAS DE RSC GIDCOMP VP** 

Contact us here



#### **VICE PRESIDENTES ONGs & RSC**

Committee 5

#### **Objective:**

The NGO & CSR committee of GIDCOMP aims to share best technological practices, analyze trends, create articles and reports to different stakeholders.

#### **Technological themes:**





**KELLY DUQUE DIRECTOR OF PROJECTS AND PUBLIC** RELATIONS ONGs & CSR GIDCOMP VP



**JULISSA JIMENEZ DIRECTORA DE LMD POLITICAS SOCIALES GIDCOMP VP** 



JOSÉ QUESADA FOUNDER WORLD COMPLIANCE **FORUM TECH & COMPLIANCE GIDCOMP VP** 



MONICA LÓPEZ **CO-MARKETING MANAGER IN HP MEJORES PRÁCTICAS DE RSC GIDCOMP VP** 

Contact us here



# Reasons to become a member of GIDCOMP:

- To receive information on Business Intelligence and Technology trends
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- To generate networking / community
- To have visibility of applications in the use of technologies
- 5 To inform me and keep abreast of the latest news
- 6 To receive support or consultancy
- 7 To train my team in the face of new market challenges
- To generate relationship with Authorities
- Access to +300 Mentors from 52 countries and presentations of their models at the Global Digital Week & Global Metaverse Forum.



	GIDCOMP FREE	GIDCOMP SOCIETY
TECHNOLOGY TRENDS		
Newsletter technology cases	х	X
Free transmission of our festivals	X	X
Short version of the studies	х	x
NETWORKING, ALLIANCES AND BRAND EXPOSURE		
Participation and collaboration in Disruptive Technologies Committees		X
Provide Master Classes, success stories and initiatives of your brand.		X
Participate in international studies and reports.		x
30% discount on Certifications		X
Approach to Investors to fund technological projects and Startups		X
Unlimited introductions to over 1,000 brands part of the GIDCOMP ecosystem		x
Space for a commercial presentation at our festivals		X
2-minute video space within the agenda of our festivals		x
List of speakers, people part of the GIDCOMP ecosystem		х
Put your brand on technology providers		x
PRICE	FREE	500 -4,000 USD
		Annual by size*

#### \*GIDCOMP SOCIETY ANNUAL INVESTMENT

Organization size	Number of collaborators	Investment in USD	Executives
Very large	More than a thousand	5,000	5
Big	501 -1,000	4,000	4
Median	251 a 500	3,000	3
Small	6- 250	2,000	2
Micro	1 -5	1,000	1

#### does not cause VAT / tax deductible

Important:

All values are expressed in U.S. Dollars (USD)

Company name: Fundación Consultores Sin Fronteras A.C.

RFC: FCS190805FH9

Bank: BBVA

Account Number: 0113640205

**Clabe Account Number: 012180001136402052** 

Swift code for international payments: BCMRMXMMPYM

Mail: be.digital@gidcomp.org







#### How to become a member?

Send us an email to be.competitive@gidcomp.org or a WhatsApp at: +52 56 1463 3902 GIDCOMP seeks to bring together and relate organizations linked to the international technological ecosystem to promote and develop digital capabilities in any location in the world.

Membership begins with the date of crediting payment to the bank account.

Valid 12 months from the date of payment.

Renewals begin to run from the expiration date of the current membership.

www.gidcomp.org be.competitive@gidcomp.org

