



# Smart Cities **MIAMI** 2022



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OF MIAMI

Institute for Data Science and Computing  
School of Architecture



[smartcities.miami.edu](https://smartcities.miami.edu)

# Smart Cities MIAMI 2022

*Welcome* to the 5th annual Smart Cities MIAMI Conference!

To aid in the design and development of more sustainable, liveable, and resilient cities, the **University of Miami** brings cutting-edge research in urban planning, architecture, and engineering in alignment with computational resources and analytical expertise. Smart Cities MIAMI is an extension of these efforts, providing a forum for leaders in academia, industry, and government to closely examine evolving theories and practices in the Smart City field. The topics considered vary in scope and nature within a general theme that is particularly relevant for each year.

The 2022 theme “The Post-Pandemic Smart City: Automation, Decentralization, Virtualization” focuses on technology + innovation.



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# Smart Cities MIAMI 2022

## Day 1 Agenda

Thursday, May 19

Jorge M. Pérez Architecture Center || Stanley and Jewell Glasgow Lecture Hall

- 1:00 Registration Opens
- 1:30 Welcome + Introductions || Dean Rodolphe el-Khoury
- 1:35 KEYNOTE SPEAKER • Skylar Tibbits
- 2:00 PANEL 1: The Post-Pandemic Smart City: Challenges and Opportunities
- 2:45 Break
- 3:00 PANEL 2: From Zoom to XR
- 3:40 Break
- 3:50 PANEL 3: Disrupting the Building Industry
- 4:35 PLENARY SPEAKER • Margaret Brisbane
- 5:00 Closing Remarks || Dean Rodolphe el-Khoury
- 5:05 Networking Reception + Exhibits  
Irvin Korach Gallery (until 6:30 PM)





**Juan Luis Aristizábal**  
FOUNDER + CEO  
Conconcreto, LLC

**Rodolphe el-Khoury**  
DEAN  
School of Architecture

[selfassemblylab.mit.edu](http://selfassemblylab.mit.edu)



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# KEYNOTE

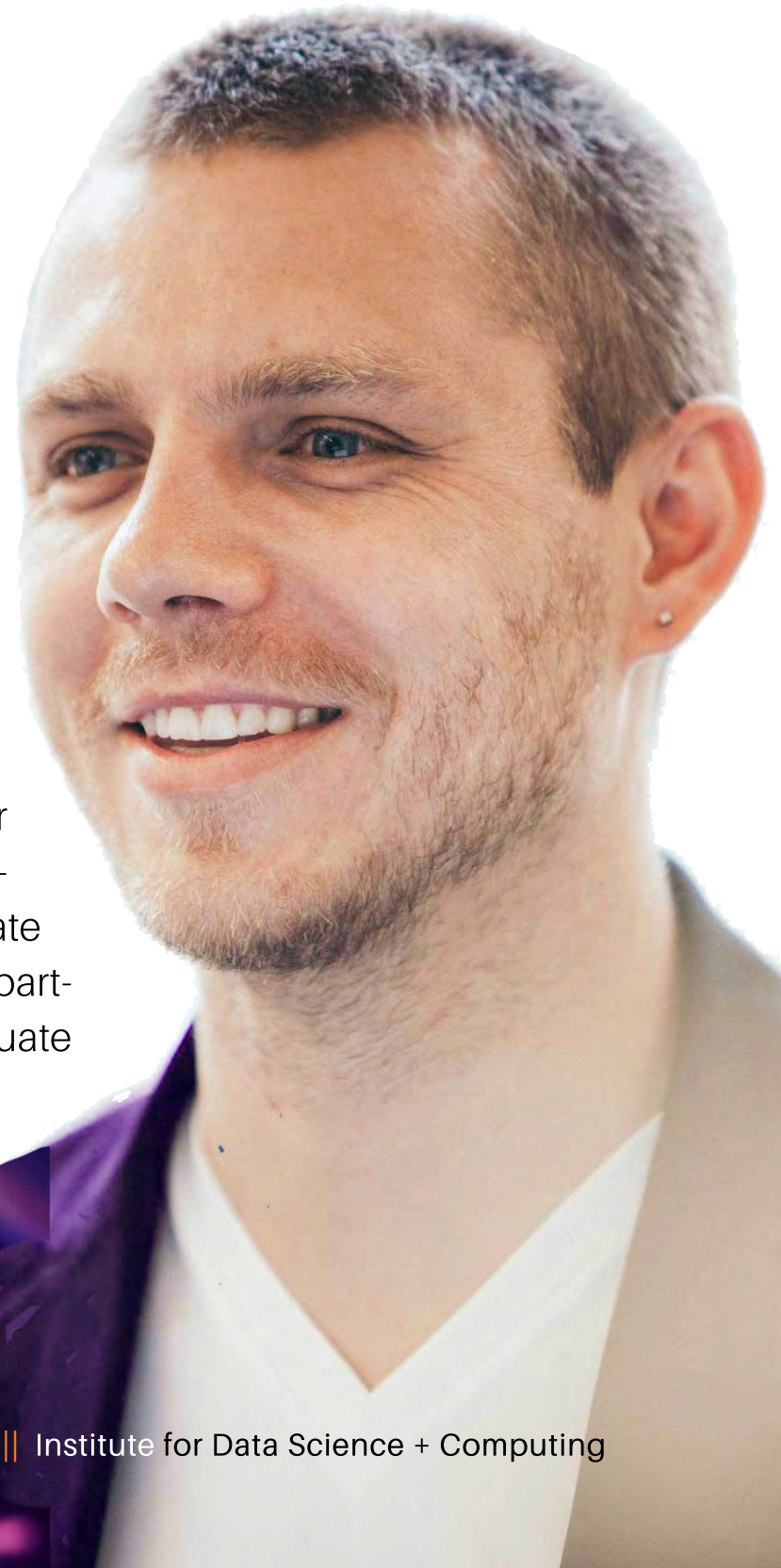
## Skylar Tibbits

Skylar is a co-director and founder of the Self-Assembly Lab housed at the MIT (Massachusetts Institute of Technology) International Design Center. The Self-Assembly Lab focuses on self-assembly and programmable material technologies for novel manufacturing, products, and construction processes. Skylar is an Associate Professor of Design Research in the MIT Department of Architecture where he teaches graduate and undergraduate design studios and coordinate's MIT's Design Minor and Design Major programs.



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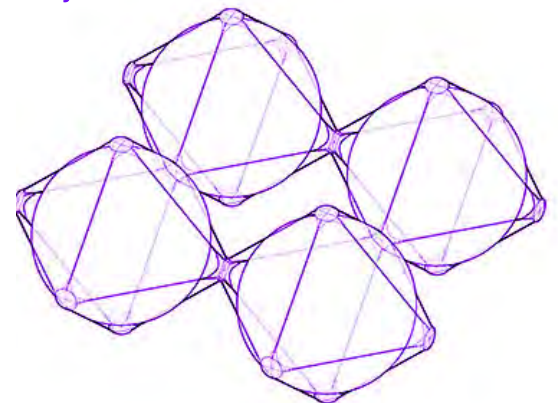
Keynote Speaker • **Skylar Tibbits**

Skylar was named **R&D Magazine** 2015 Innovator of the Year, 2015 **National Geographic** Emerging Explorer, 2014 Inaugural **WIRED** Fellow, 2014 Gifted Citizen, 2013 Fast Company Innovation by Design Award, 2013 Architectural League Prize, The Next Idea Award at **Ars Electronica** 2013, Visionary Innovation Award at the Manufacturing Leadership Summit, 2012 **TED** Senior Fellow, and a Revolutionary Mind in **SEED Magazine's** 2008 Design Issue.

Previously, he worked at a number of renowned design offices including: Zaha Hadid Architects, Asymptote Architecture, and Point b Design. He has designed and built large-scale installations at galleries around the world, and has published extensively in outlets such as **The New York Times**, **Wired**, **Nature**, and **Fast Company**, as well as various

peer-reviewed journals and books. Skylar has a Professional Degree in Architecture with a minor in experimental computation from Philadelphia University. Continuing his education at MIT, he received a Master of Science in Design Computation and a Master of Science in Computer Science under the guidance of Patrick Winston, Terry Knight, Erik Demaine, and Neil Gershenfeld.

Initiated in 2007, Skylar Tibbits is also the founder and principal of a multidisciplinary design practice, SJET LLC. > [sjet.us](http://sjet.us)





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**Destination:**  
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# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



MODERATOR  
Ingrid Vasiliu-Fleites



Laercio Albuquerque  
CISCO LATAM



Eumar Dias de Assis  
MICROSOFT



David L. Kelly  
MIAMI HERBERT  
BUSINESS SCHOOL



Daniel Messinger  
UM EARLY PLAY +  
DEVELOPMENT LAB



# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



**MODERATOR • CEO**

**Ingrid Vasilu-Fleites** || Softhread.com

Softhread is an information technology company that uses Chios™—a patent-pending, blockchain-and-AI-enabled platform that preserves confidentiality and optimizes network security while enhancing operational efficiency. Ingrid currently serves as the Chief of Clinical Compliance and Quality Assurance at the UM Department of Psychiatry and Behavioral Sciences and as Director of the Clinical Research Trials Program. She is a Deep Tech, Web 3.0, and Precision Health executive, an innovator, investor, strategist, ethicist, globalist, and futurist. Ingrid also serves as an SDG (sustainable development goals) Advocate, Board Advisor, TV/Media Consultant, and Author.



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# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



**PANELIST • VICE PRESIDENT**

**Laercio Albuquerque** || Cisco Latin America

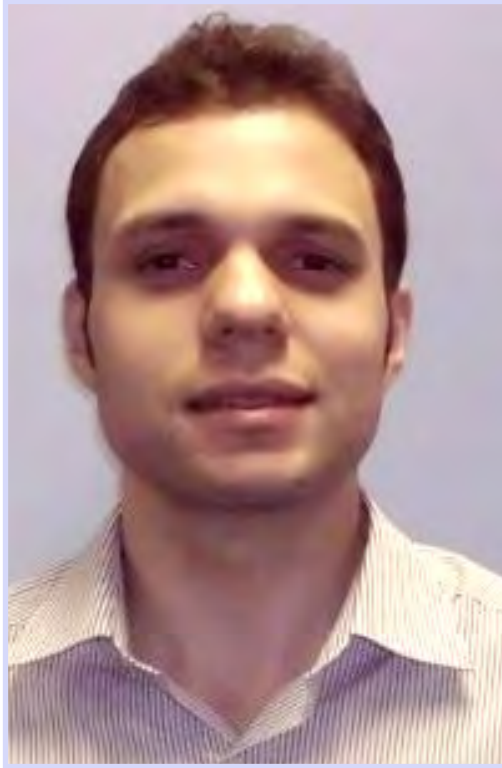
Laercio leads the strategy to foster innovation and digitization across the region. Supported by a local team and the Cisco Partner Ecosystem, he delivers positive outcomes for customers, government, and society, helping to solve problems, improve productivity, and empower a more inclusive world through the use of technology. He has a degree in Systems Engineering and Management Analysis by Faculdades Associadas de São Paulo (FASP), and has an Executive MBA from Insper. Laercio started his career as an office-boy at BCN when he was just 14 years old, followed by jobs at Duratex, Pirelli, and CA Technologies. Under his leadership, Cisco has been recognized as the best company to work for in many countries. such as Mexico, Peru, Argentina, and Costa Rica.



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# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



**PANELIST • MANAGING TECHNICAL DIRECTOR**

**Eumar Dias de Assis** || Microsoft

Eumar is a managing technical director at Microsoft leading a team focused on the Internet of Things (IOT). His team works with partners and customers to build innovative solutions on the Microsoft Cloud. Eumar has

worked with software development for 18 years; he has been with Microsoft for 10 years and is also a startup owner. Outside work, Eumar is a lifelong learner and Martial artist, currently a graduate student at Harvard University and a Jiu-Jitsu black belt. Eumar is passionate about giving back to the community and inspiring minorities to pursue a career in technology.



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# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



**PANELIST • PROFESSOR OF ECONOMICS**

**David L. Kelly** || Miami Herbert Business School

Co-chair of the Sustainable Business Research Cluster and Academic Director of the Master of Science in Sustainable Business at UM's Miami Herbert Business School, David previously served as chair of the Economics Department (2005-2008), and held positions at the University of California at Santa Barbara, and Carnegie Mellon. He has published widely on optimal climate change policy, design of environmental regulation, adaptation to climate change, economic growth and the environment, and the economics of natural disasters. His research has been funded by NSF, DOE, and other Federal agencies. David is an award-winning teacher at the undergraduate, Master's, and Ph.D. levels.



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# Smart Cities MIAMI 2022 PANEL 1

Day 1 • The Post-Pandemic Smart City: Challenges + Opportunities



**PANELIST • DIRECTOR**

**Daniel Messinger** || UM Early Play + Development Lab

Daniel is a Professor at the University of Miami in the departments of Psychology, Pediatrics, and Electrical and Computer Engineering, as well as the Linda Ray Intervention Center Research Director. He is also the

Director of Social Systems Informatics program at the UM Institute for Data Science + Computing. Daniel is an interdisciplinary developmental psychologist, and the author of over 120 scientific publications appearing in journals such as Science Reports, Developmental Science, and Molecular Autism. He uses big behavioral data to understand social, language, and emotional development. His research has been continuously funded by the federal government for 20 years.



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SMART CITY

More information: visit [www.coralgables.com/IT](http://www.coralgables.com/IT) and [www.coralgables.com/SmartCity](http://www.coralgables.com/SmartCity)

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[www.CoralGables.com](http://www.CoralGables.com)



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# Smart Cities MIAMI 2022 PANEL 2

Day 1 • From Zoom to Extended Reality (XR)



MODERATOR  
Nick Tsinoremas



Kim Grinfeder  
UM INTERACTIVE MEDIA



Denise Mendez  
MICROSOFT



Ruth Ron  
UM SCHOOL OF  
ARCHITECTURE



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# Smart Cities MIAMI 2022 PANEL 2

Day 1 • From Zoom to Extended Reality (XR)



**MODERATOR • FOUNDING DIRECTOR**

**Nick Tsinoremas** || UM IDSC

Nick is the Vice Provost for Research Computing and Data, and the Founding Director of the Institute for Data Science + Computing (IDSC). He holds faculty appointments in the School of Medicine and College of Arts & Sciences. He received his B.A. in Chemistry from the University of Athens, and his Ph.D. in Biochemistry & Molecular Biology from the University of Leeds. Before joining UM, Nick was Head of Informatics and Chemoinformatics at The Scripps Research Institute—Florida. Prior to that, he was Director of Computational Genomics & Genomic Discovery at Rosetta/Merck where he worked to discover, prioritize, and define new drug targets and novel therapeutics. Prior to Merck he led a team at DoubleTwist Inc. that developed the first annotation of the Human Genome.



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# Smart Cities MIAMI 2022 PANEL 2

Day 1 • From Zoom to Extended Reality (XR)



**PANELIST • DIRECTOR**

**Kim Grinfeder** || UM Interactive Media

Kim is Department Chair/Associate Professor of the UM Interactive Media program; Director, XR Initiative, UM School of Communication; and Director, Creative Computing program, UM IDSC. His production skill set wavers between design, film, and code, with a strong focus on user experience. As an entrepreneur, Kim has successfully established and sold two companies. He holds a Master's degree in Interactive Telecommunications from NYU, and a B.A. in History from UM. His work often explores new media tech across the spectrum including immersive storytelling, interactive installations, UI Design, branching narratives, and emerging communication technologies. His current research and creative work interests are in producing 360° films, immersive storytelling, and non-linear narratives.



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# Smart Cities MIAMI 2022 PANEL 2

Day 1 • From Zoom to Extended Reality (XR)



**PANELIST • PRINCIPAL SOFTWARE ENGINEER**

**Denise Mendez** || Microsoft

Denise is currently a Principal Software Engineer in Microsoft's Mixed Reality group making science fiction real by building ground truth systems for data science and telemetry to support Environmental Understanding runtimes for the HoloLens and digital twins. From her years with Motorola she built manufacturing systems to ship millions of smartphones. She worked at Magic Leap, the largest privately funded startup in history, and helped launch their first Spatial Computing headset, owns a small business teaching the art of ceramics, and has ambitions to create a revolution in education by bringing Mixed Reality holograms into South Florida schools.



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# Smart Cities MIAMI 2022 PANEL 2

Day 1 • From Zoom to Extended Reality (XR)



**PANELIST • LECTURER**

**Ruth Ron** || UM School of Architecture

Ruth is an architect whose work explores multiple aspects of digital design, focusing on the borders between architecture and technology, form and media. Ruth received a Bachelor of Architecture degree

from Technion-Israel Institute of Technology, a Master's Degree in Advanced Architectural Design from Columbia University, and a Master's Degree in Interactive Telecommunication from NYU. She worked for cutting-edge architectural firms in New York, including Asymptote and LOT-EK, and taught at Arizona State and the University of Florida. She exhibited her work in New York, Seattle, Boston, Jerusalem, Florence, Paris, and Tel-Aviv.



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



MODERATOR  
Max Jarosz



Gregory Coleman  
CW KELLER + ASSOC.



George Franco  
MOSS + ASSOC.



Olivia Ramos  
DEEP BLOCKS



Matt Trimble  
BRANCH TECHNOLOGY



Luisel Zayas  
FORMATERIA



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**MODERATOR • DIRECTOR OF FABRICATION + LECTURER**

**Maxwell Jarosz** || UM School of Architecture

Max oversees the fabrication facilities and operations at the SoA Miller Fab Lab. He teaches courses on robotics, digital fabrication techniques, and emerging technology in the field of Architecture. Max also serves on

the Digital Fabrication and Technology committee, D.E.I. committee, and the Construction Technology sub-committee. He has been included in variety of publications such as Architect Magazine and MAS Context, and has presented at conferences including the 2019 AIA Conference. Max holds a Master of Architecture from MIT, and is a licensed architect in Massachusetts and Florida. Additionally, he holds an MBA from UM. Prior to joining UM, he was a project architect and worked at internationally recognized architecture firms in Boston and New York.



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**PANELIST • LEAD ENGINEER**

**Gregory Coleman** || C.W. Keller & Associates, Inc.

C.W. Keller & Associates is an engineering and fabrication firm specializing in custom woodwork. Taking on projects nationwide from decorative wood interiors to custom concrete forms, they are a collaborative team

of designers, engineers, and craftsmen. Trained as a mechanical engineer, Greg is interested in the automation and analysis techniques required to make complex projects a reality. As architectural software and designs continue to progress, custom fabrication teams are continuously developing tools and workflows that deliver extraordinary projects cost effectively.



School of Architecture || Institute for Data Science + Computing

# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**PANELIST • DIRECTOR OF BUILDING TECHNOLOGY**

**George Franco** || Moss & Associates, Inc.

George is the founder and CEO of TRIVA, Inc. A company specialized in productivity and risk management technologies using the latest innovations. After spending over a decade working in the construction industry

with billions of dollars of project management experience and gained expertise in the development and implementation of innovative technology solutions, George knows the real risks and challenges that the industry is facing and the vast opportunities available for improving a massive sector of the economy and workers lives. George has a deep belief that technology should be respectful, purposeful, and be able to connect and empower people. George is a lifelong learner and has studied at prestigious institutions including MIT and Stanford.



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**PANELIST • FOUNDER + CEO**

**Olivia Ramos** || Deep Blocks

Olivia is spearheading Deep Blocks' effort to leverage machine learning to streamline the entire process of real estate analysis. She applies her market expertise to turn a process of 3-6 weeks into 15-20 minutes. Olivia

was accepted to Singularity University's Global Solutions Program where she discovered that her wholistic knowledge of developing buildings would be better fit for an AI System. Olivia was also the only female participant in the DARPA Innovation house, where she designed Big Data navigation software. She has also worked under Real Estate Developers, Architects, Brokers, and Contractors and holds a Master of Architecture from Columbia, a Master of Real Estate Development from UM, and a Bachelor's in Architecture from the University of Florida.



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**PANELIST • DIRECTOR OF PRODUCT DEVELOPMENT**

**Matt Trimble** || Branch Technology

Matt has a diverse range of experience working and consulting in the fields of architecture, engineering, and construction for organizations that include Neil M. Denari Architects, Behnisch, Behnisch and Partner, Preston Scott Cohen Inc., dECOi, IDEO, and Nike. Trimble was the Founder and principal of Radlab, an experimental design and fabrication firm based in Boston. He has previously taught seminars, workshops, and studios for both graduate and undergraduate students at the Rhode Island School of Design, the Universidad Francisco Marroquín in Guatemala City, the Boston Architectural College, the Wentworth Institute of Technology, and MIT. Matt has received a range of grants and awards for design research in robotics, computational design, and experimental construction.



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# Smart Cities MIAMI 2022 PANEL 3

Day 1 • Disrupting the Building Industry



**PANELIST • LEAD ENGINEER**

**Luisel Zayas** || FORMATERIA

Luisel received a Bachelor of Environmental Design from the University of Puerto Rico. He holds a Master's of Architecture from MIT, where he developed Robotic Form-work systems as part of his thesis research, receiving The Bill Mitchell Fund ++ Award and the Arthur Rotch Prize. He has built large-scale installations in cities around the world, and worked in multiple firms, more recently as a project manager and NADLab director at NADAAA. In 2018-19, he co-led an MIT IAP workshop in PR as a visiting lecturer, and served as a visiting lecturer at RISD where he taught digital fabrication courses. In 2020, Luisel founded FORMATERIA (an atypical design studio focused on experimental and geometrically complex construction methodologies) and he began first robotics lab in Puerto Rico.



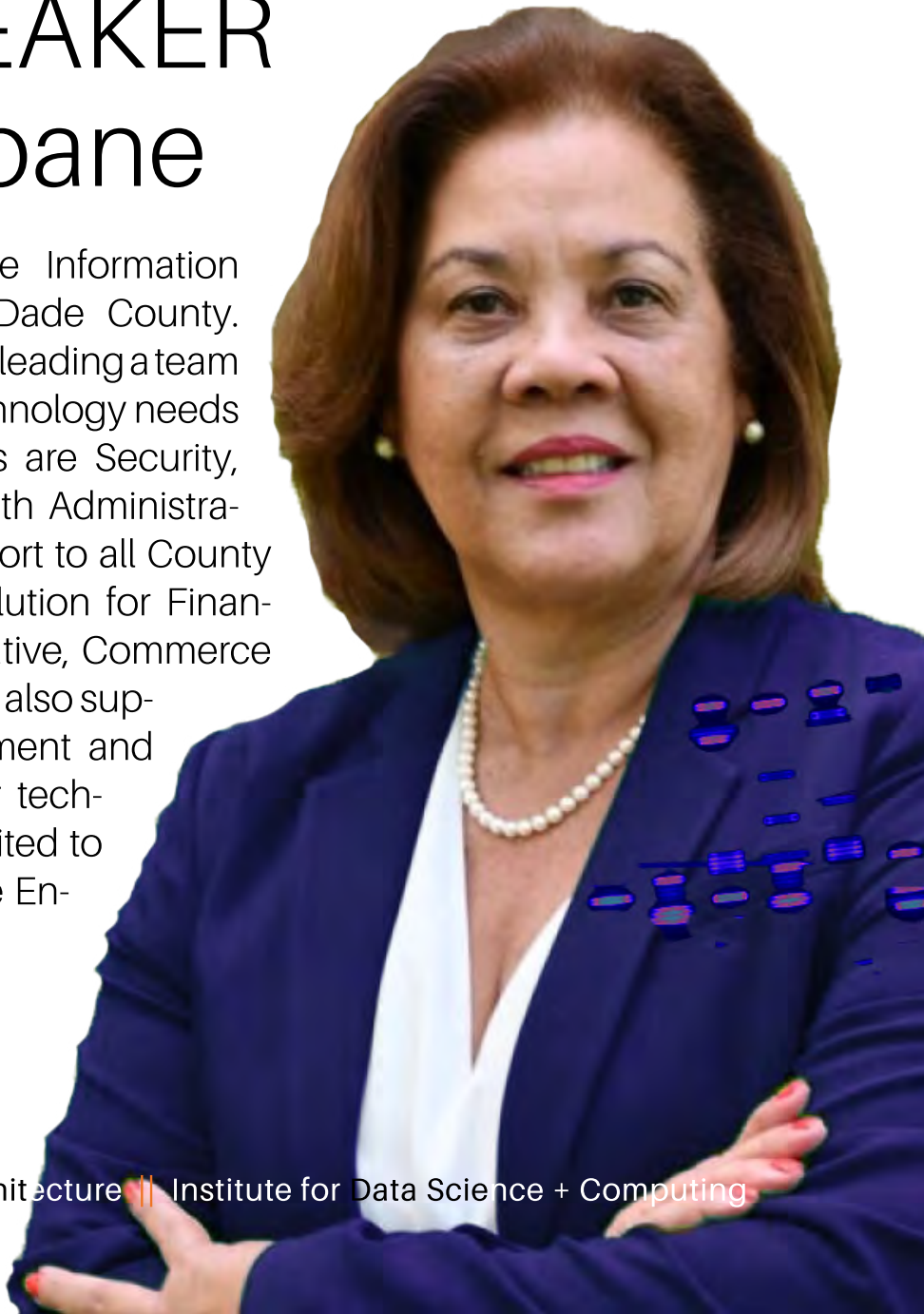
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# PLENARY SPEAKER

## Margaret Brisbane

Margaret is the CIO/Director of the Information Technology Department for Miami-Dade County. In her current role she is responsible for leading a team of IT professionals in servicing the technology needs of the County. The primary IT pillars are Security, Platforms, and Applications, along with Administrative support. The team provides support to all County Departments including enterprise solution for Financial, Payroll, HR, Public Safety, Legislative, Commerce and the PeopleSoft systems. The team also supports document and asset management and geospatial systems, as well as major technology projects, including but not limited to Criminal Justice, Permitting and Code Enforcement, Radio, and INFORMS.



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# Smart Cities MIAMI 2022

Plenary Speaker • Margaret Brisbane

Prior to joining the County, Margaret served as Director of Service Delivery for Burger King. During her 20-year career, she led the Telecommunications Center of Excellence for various Diageo brands, and worked on restaurant systems support as well as Point-of-Sales system implementation for various domestic and international locations.

Currently, Margaret is a member of the Technology Committee for both the Greater Chamber of Commerce and the Beacon Council. She served as co-chair for the Community Services Committee for the FIU Alumni Circle, and is a co-chair for the annual United Way Women's Leadership breakfast. She is the Chair of the IT Women Virtual Mentoring Program, and a mentor to one of the scholarship recipients. She established a mentoring program between the County's IT department and a local high school IT

Academy, currently in its 10th year. She has participated on the eMerge Executive Committee and leads the effort for the County's booth at the annual conference.

Margaret holds a Bachelor of Arts degree, majoring in International Marketing from FIU and a Master of Business Administration with Honors from Nova Southeastern University. She also received a certificate in Executive Leadership from Harvard University. She received the Torch award from FIU and was named Female Technology Leader of the Year by the Greater Miami Chamber of Commerce. She recently received the "Ones to Watch" award from the CIO Executive Council.





# Smart Cities MIAMI 2022

## NETWORKING RECEPTION

Irvin Korach Gallery || 5:00-6:30 PM

Meet the Speakers & the Exhibitors . . .



# Smart Cities MIAMI 2022 EXHIBITS

Irvin Korach Gallery || 5:00-6:30 PM

- Concreto
- Health Hub
- Coral Gables Smart Districts Infrastructure
- ePermitHub.com
- GiGiThePlanner.com
- Geospatial Data Special Collections
- GlassHouse Systems Air Quality as a Service
- Master of Science in Data Science



## Conconcreto

**Alejandra Pardo de Francisco**

**Laura Pinzon**

Conconcreto, LLC

> [conconcreto.com](https://conconcreto.com)

With offices in Miami, Conconcreto LLC is an international company that is expanding its design and construction services portfolio to the US, promoting integration, innovation, and sustainability to achieve digitalization in the construction industry. Its corporate office, Conconcreto (based in Colombia), has been providing infrastructure, construction, architecture, engineering, asset management, and operations, as well as residential services, for over 60 years.



Smart Cities MIAMI 2022 EXHIBITS



## Health Hub

**Donnie Garcia-Navarro**

RESEARCH ASSOCIATE, UM SoA Rad Lab

**Olha Knymystia**, RESEARCH ASSISTANT  
UM SoA Rad Lab

> [rad-um.com](http://rad-um.com)

The Health Hub connects the clinic, hospital, or pharmacy with the home as the new primary site of health care. It turns your living space into an interactive, mixed-reality experience that connects to your physician in seconds and encapsulates monitoring, treating, communicating, and data analysis. The project is a collaboration between the UM School of Architecture Responsive Architecture and Design Lab (RAD-UM), the College of Arts + Sciences, the Dr. John T. MacDonald Foundation Biomedical Nanotechnology Institute—Bionium, the Miller School of Medicine, and UM IDSC.

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## City of Coral Gables Smart Districts Infrastructure

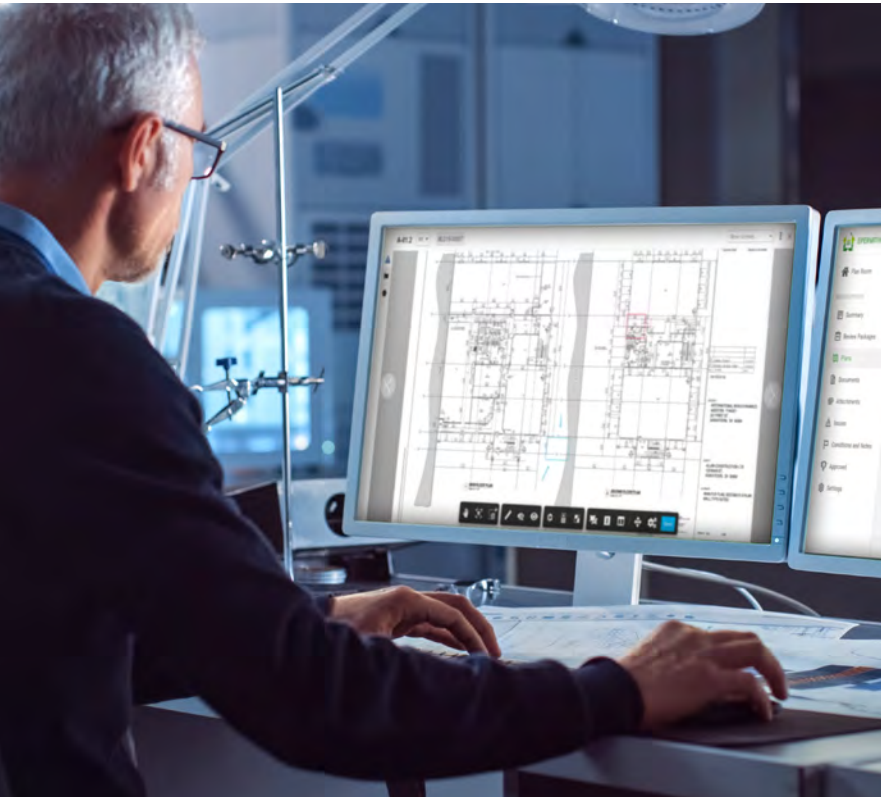
**Raimundo Rodulfo**, CIO  
City of Coral Gables IT Smart Initiatives  
**Chris Cowen || Mark Herbert || Alex  
Gamundi || Sean Meadows || Gisela  
Rodriguez || Peterson Pierre-Louis**

> [coralgables.com](https://coralgables.com)

The City of Coral Gables promotes the development of smart city technologies that foster innovation by bringing together people, businesses, organizations, objects, and systems. The City's digital transformation creates continuous improvement to customer service and the quality of life for all. The Coral Gables smart city plan includes a new Smart City Hub public platform, Data Marketplace, Application Store, Transparency Portals, Crime Intelligence Center, Data Platforms, Internet of Things, and a robust and resilient technology infrastructure with high-speed communications.

For more information, visit > [coralgables.com/IT](https://coralgables.com/IT) and > [coralgables.com/smartcity](https://coralgables.com/smartcity).

# Smart Cities MIAMI 2022 EXHIBITS



## ePermitHub

**Maykel Martin**, PRESIDENT  
ePermitHub

> [epermithub.com](https://epermithub.com)

**ePermitHub** is a certified Autodesk developer partner and the creator of the Digital Plan Room. The Digital Plan Room is an Integrated Regulatory Electronic Plan Review solution built to bridge the gap between regulatory processes and construction professionals, resulting in faster plan reviews with increased efficiency and improved communication. Traditional regulatory plan review solutions can be one-sided and account for only the regulatory requirements, creating disjointed processes that can result in significant project delays. ePermitHub, understanding the need to deliver a complete solution, is the first technology vendor to partner with Autodesk to offer the first Integrated Regulatory Electronic Plan Review solution, resulting in a mutually beneficial solution for both government and the construction industry.

Smart Cities MIAMI 2022 EXHIBITS





# Geospatial Data Special Collections

**Chris Mader**, DIRECTOR  
UM IDSC Systems + Data Engineering  
**Tim Norris**, DATA SCIENTIST  
University of Miami Libraries  
UM IDSC Systems + Data Engineering

> [idsc.miami.edu/projects](https://idsc.miami.edu/projects)

We are developing GDSC to be a highly curated set of collections of geospatial data with coverage in south Florida and the Global South of the western hemisphere. It forms part of the University of Miami's goals to serve as a repository of information for local communities as well as geographies included in president Frenk's hemispheric initiative. While GDSC will focus on serving academic communities as a center to both publish and consume geospatial data, much of the collections will be available for public (e.g., municipal, state) or private sector consumption.

Smart Cities MIAMI 2022 EXHIBITS



## Gigi The Planner

**Gisla Augustin**, FOUNDER + CEO  
Gigi The Planner, LLC

> [gigitheplanner.com](https://gigitheplanner.com)

GiGi The Planner, LLC's mission is to increase the number of black planners in America. The vision for this organization was birthed in the summer of 2017 to motivate and teach future black urban planners. Black planners make up a very small percentage of the professionals in the urban planning field, and it is our aim to change that. As a result, one of the goals of the organization is to expose, engage, and empower youth of African descent to pursue a degree in urban planning. Another goal is to mentor black college students who are pursuing degrees in urban planning, and to assist them with making the transition from college to the workforce, as well as assist new planning professionals who are looking to advance their careers.

Smart Cities MIAMI 2022 EXHIBITS



## GlassHouse Systems Air Quality as a Service

**John Callisto**, VP SALES  
GlassHouse Systems

**Brian Freed**, COO  
Phizzle

[ghsystems.com](https://ghsystems.com) > [phizzle.com](https://phizzle.com)



Air Quality Monitoring (AQaaS) Insight without Overhead:

GlassHouse Systems' Air Quality Monitoring solutions powered by Phizzle provide real-time insight into air quality for classrooms or indoor environments with a fully automated managed service that minimizes the need for manual processes.



**Phizzle**

Smart Cities MIAMI 2022 EXHIBITS



# Master of Science in Data Science

**Maryann Tatum Tobin**, ASSOCIATE  
DEAN FOR PROFESSIONAL EDUCATION  
UM College of Arts + Sciences

**Lina I. Lopez**, ASSOCIATE DIRECTOR OF  
PROGRAMS UM Office of Interdisciplin-  
ary and Professional Studies

> [msdatascience.as.miami.edu](https://msdatascience.as.miami.edu)

The University of Miami's Master of Science in Data Science allows students to apply data science techniques to a variety of interests. The program has statistics and machine learning at its core, allowing students to learn practical techniques in data science, explore solutions to domain-specific problems, and experience real-world data science applications through internships. Concentrations in Smart Cities, Technical Data Science, Data Visualization, Marine and Atmospheric Sciences, Marketing, and Educational Measurement and Statistics are offered.

Smart Cities MIAMI 2022 EXHIBITS

# The Underline

[theunderline.org](http://theunderline.org)



**Explore the first phase of The Underline: Brickell Backyard featuring urban biking and walking paths, flex basketball and soccer court, outdoor gym, nature and butterfly gardens, gathering spaces to eat, play, discover and relax. Phase 2 opening in 2023.**



**Day 2 Sponsor**

[concreto.com](http://concreto.com)

# Smart Cities MIAMI 2022

## Day 2 Agenda

Friday, May 20

Jorge M. Pérez Architecture Center || Stanley and Jewell Glasgow Lecture Hall  
(Closed Session immediately follows 12:20-3:00 PM • Irvin Korach Gallery)

8:30 **Registration Opens**

Light Breakfast

9:00 **Welcome + Introductions**

Dean Rudy el-Khoury || Glasgow Auditorium

9:05 **PANEL 1** Smart Construction for Smart Cities

10:05 **PANEL 2** Multimodal Simulation for Smart Infrastructure

11:05 **Break**

11:15 **PANEL 3** How Digitization can Promote Sustainability in One of the Least Eco-Friendly Sectors

12:15 **Morning Session Ends**

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12:20 *Closed Session Begins* || Irvin Korach Gallery

3:00 *Closed Session Ends*



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# Smart Cities MIAMI 2022 PANEL 1

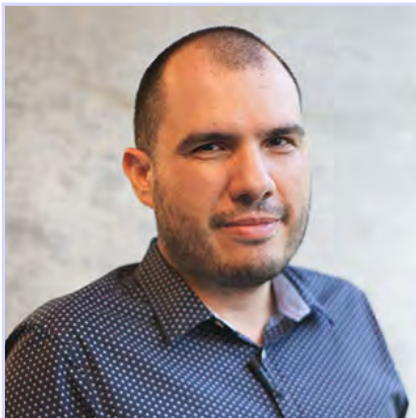
Day 2 • Smart Construction for Smart Cities



MODERATOR  
Ines Muñoz



Julio Palma  
AUTODESK, INC.



Cesar Rodriguez  
CONCRETO



Jaime Rosales D.  
AUTODESK, INC.

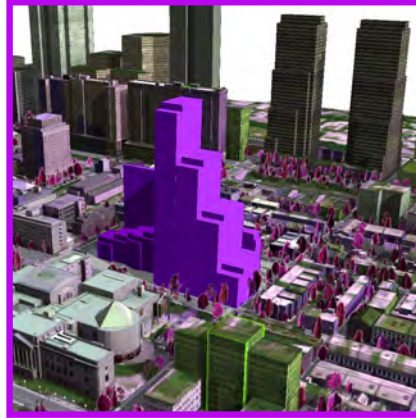


Andres Rojas  
BIMBAU



# Smart Cities MIAMI 2022 PANEL 1

## Day 2 • Smart Construction for Smart Cities



**MODERATOR • GRADUATE**

**Ines Muñoz** || UM SoA Construction Management

Ines Muñoz de Cote is from Mexico City. She graduated from Miami University of Ohio with a degree in Mechanical Engineering, and then moved to Miami to pursue her Master's degree in Construction Management.

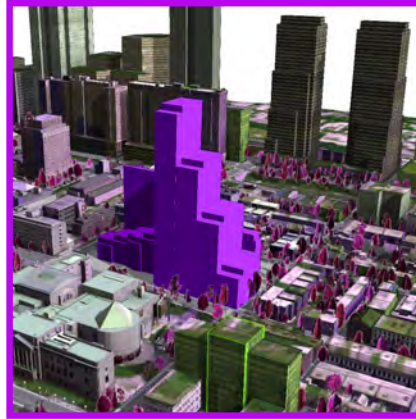
She graduated from the University of Miami School of Architecture in the summer of 2021, and is currently working at Coastal Construction—one of the largest general contractors in South Florida.



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# Smart Cities MIAMI 2022 PANEL 1

## Day 2 • Smart Construction for Smart Cities



**PANELIST • SENIOR TECHNICAL SALES SPECIALIST**

**Julio Palma** || Autodesk, Inc.

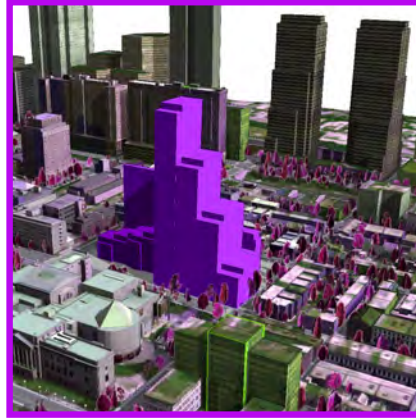
Julio is a Civil Engineer with 13 years of professional experience; he belongs to the group of Autodesk technical sales specialists for the Latin American region. He works closely with AEC companies (design/engineering firms, GC's/subcontractors, owners, and government agencies), advising them on implementing BIM methodology and mandates, efficient and connected workflows, and the digitization of construction sites. Julio supports the Autodesk GOAL program to evangelize companies on sustainability workflows through technology to achieve sustainable development goals while doing business and ensuring a positive impact on the environment and communities.



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# Smart Cities MIAMI 2022 PANEL 1

Day 2 • Smart Construction for Smart Cities



**PANELIST • BIM DIRECTOR**

**Cesar Rodriguez** || Concreto

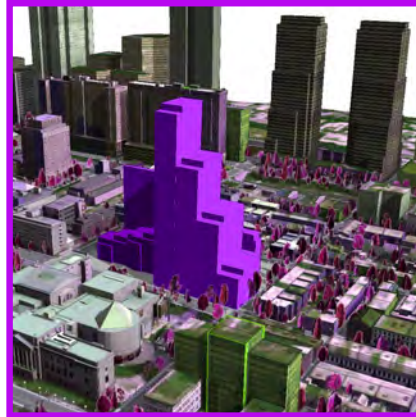
Cesar is the Building Information Modeling (BIM) Director at Concreto. He is an architect with a specialization in interior architecture. Cesar has a Master's degree in building information modeling. He specializes in project management, leadership, and direction. He has more than twenty years of experience in office design, great scale construction, and as an independent professional.



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# Smart Cities MIAMI 2022 PANEL 1

Day 2 • Smart Construction for Smart Cities



**PANELIST • FORGE SENIOR DEVELOPER ADVOCATE**

**Jaime Rosales D.** || Autodesk, Inc.

Jaime is dynamic, accomplished, and highly regarded for his 10+ years of progressive experience in Software Development, Customer Engagement, and Relationship Building for industry leaders. He has a proven

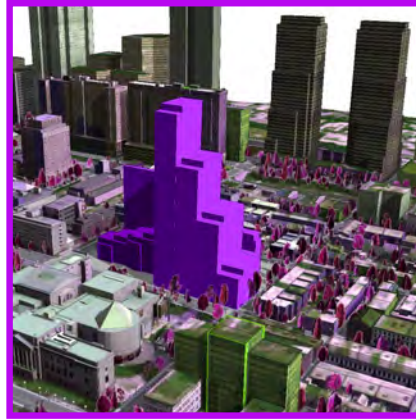
track record of communicating the value and application of company products and services to meet unique client requirements and drive sales in competitive markets. He is respected as a proactive, detail-oriented leader and collaborator who guides team members in achieving reliable on-time, under-budget project completion. His qualifications include a Scrum Master Certification from Scrum Alliance and Autodesk Cloud Engineering Bootcamp Certification from Hack Reactor.



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# Smart Cities MIAMI 2022 PANEL 1

## Day 2 • Smart Construction for Smart Cities



**PANELIST • CHIEF TECHNOLOGY OFFICER**

**Andres Rojas** || BIMBAU

Andres is a Senior Software Engineer with over 15 years of experience building tech-based products for multiple markets like Asia, Europe, and the Americas. Andres specializes in Product Development for

Startups, Growth Hacking, and Tech Team Building for compelling Startups. Worked with First Rock Capital for five years as Head of Engineering, helping Startups overcome technical challenges and Product/Market fit challenges.



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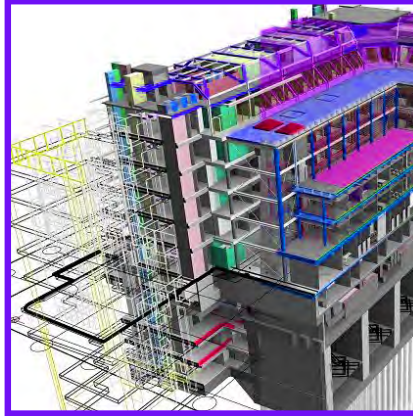


# Smart Cities MIAMI 2022 PANEL 2

Day 2 • Disrupting the Building Industry



MODERATOR  
Catalina Cabral-Framinan



Daniel Cremades  
CONCRETO

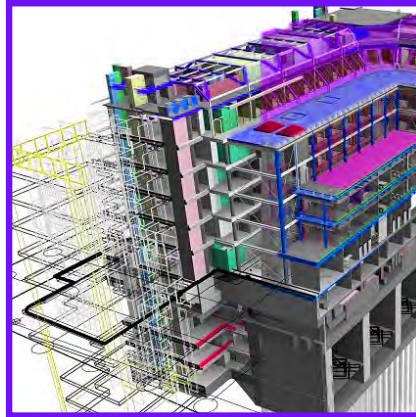


Edmundo Herrera  
AUTODESK, INC.



# Smart Cities MIAMI 2022 PANEL 2

Day 2 • Disrupting the Building Industry



**MODERATOR • STUDENT**

**Catalina Cabral-Framinan** || School of Architecture

Catalina is a rising third year architecture student at the University of Miami School of Architecture on a dual degree track for a Bachelor of Architecture and a BA in History. She holds a deep interest in digital fabrication

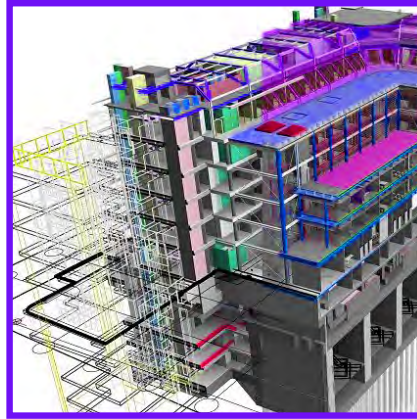
and methods of digitizing construction, and is a lab assistant at the USoA Fabrication Lab and a research assistant at the ConConcreto Research Unit.



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# Smart Cities MIAMI 2022 PANEL 2

Day 2 • Disrupting the Building Industry



**PANELIST • MANAGING DIRECTOR**

**Daniel Cremades** || Conconcreto

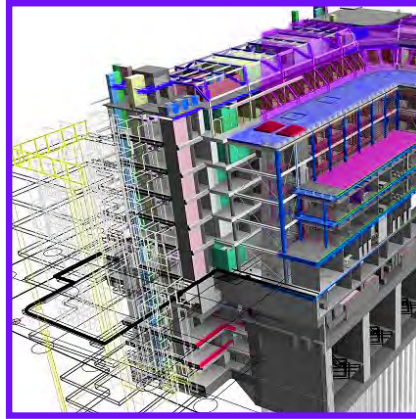
Daniel is a Civil Engineer with 15+ years of experience leading major international projects in Europe, ex-URSS, and LatinAmerica countries. He is now based in Miami as the USA Country Manager of Conconcreto, a top-notch Latin-American construction company (with more than 2,800 direct jobs) focused on infrastructure, engineering, and innovation, with \$1B in long-term-own asset investments. A high-performance leader, Daniel is committed to solving projects and dealing with organizational challenges. He has successfully led large business launches for several companies in more than ten countries over three continents.



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# Smart Cities MIAMI 2022 PANEL 2

Day 2 • Disrupting the Building Industry



**PANELIST • BIM/SENIOR TRANSPORTATION ENGINEER**

**Edmundo Herrera** || Autodesk, Inc.

Edmundo is a Civil Engineer licensed in the State of Florida working for Autodesk as an Infrastructure Technical Specialist Engineer for major, mid-market, Federal accounts and Departments of Transportation in the

US. He works on Autodesk's civil engineering applications, including Civil 3D, InRoads (Structural Modeling & Traffic, Mobility Simulations), Inventor (Structural Modeling Parts Creation), Revit Structural (Rebar Layout, Creation & Scheduling), Navisworks (Structures Construction Simulation, Rebar Clashing), and Recap providing specialized engineering functionality and improving customer's workflows. Edmundo is responsible for demonstrating, teaching, and deploying bridge solutions to customers in the US and Europe.



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& COMPUTING



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# Smart Cities MIAMI 2022 PANEL 3

Day 2 • How Digitization can Promote Sustainability  
in one of the Least Eco-Friendly Sectors



MODERATOR  
Reid Yenor



Juan Luis Aristizábal  
CONCRETO



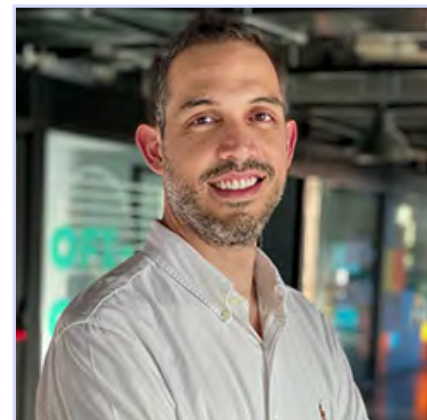
Jane Decker  
CITY OF DORAL



Philip Lund-Nielsen  
COBOD INTERNATIONAL



Shawna Meyer  
ATELIER MEY



Juan Saldarriaga  
BIMBAU



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Day 2 • Disrupting the Building Industry



**MODERATOR • STUDENT**

**Reid Yenor** || School of Architecture

Reid is a Spring 2022 graduate from the University of Miami undergraduate School of Architecture. Currently working with Miami-based design firm Atelier Mey on developing the agenda of mass timber building

strategies for South Florida.



School of Architecture || Institute for Data Science + Computing



# Smart Cities MIAMI 2022 PANEL 3

Day 2 • Disrupting the Building Industry



**PANELIST • CEO + FOUNDER**

**Juan Luis Aristizábal** || Conconcreto

For more than 20 years, Juan Luis has been the CEO of Conconcreto, a leading construction and project management company, with more than 2,800 direct jobs, focused on infrastructure, engineering, and innovation, and with \$1B in long-term-own asset investments. Juan Luis is a Civil Engineer focused on building a more sustainable future by transforming the industry with technology. He led Conconcreto through an IPO and a partnership with one of the world's biggest construction companies. He's currently entering the startup world leading BIMBAU, a platform that improves productivity in the construction sector and spreads the importance of the BIM methodology to transform the industry.



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Day 2 • Disrupting the Building Industry



**PANELIST • BUILDING DEPARTMENT MANAGER**

**Jane Lanahan Decker** || City of Doral

Jane is currently the Building Department Director for the City of Doral, one of the fastest growing cities in Florida according to Time magazine. She joined Doral in 2012 and found a love and passion for public service

and the ability to bridge the gap between AEC professionals and the municipality in which they build. Jane is a licensed code official and floodplain manager. She is the Immediate Past President of the local chapter of the South Florida Building Officials Association. Jane was also recently appointed by Florida Governor Ron DeSantis to the Building code Administrators & Inspectors Board (BCAIB). In 2019, she completed a Graduate Certificate in Public Administration and is a 2022 Candidate for the Emerging Leaders Development Program with ICMA.



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**PANELIST • CO-FOUNDER**

**Philip Lund-Nielsen** || COBOD International

Philip is Co-founder of COBOD International, the global leader in 3D construction printers, with investors GE Renewable Energy and PERI Group. After building up experience as a management consultant with

McKinsey & Co., he re-joined COBOD in 2021 to assume his current role as Head of the Americas. Philip will move to the US in 2022 to establish COBOD's satellite offices for sales, service, and manufacturing.



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**PANELIST • FOUNDING PRINCIPAL**

**Shawna Meyer** || Atelier May

Shawna Meyer is a founding principal of Atelier Mey architecture practice and a faculty member at the UM School of Architecture. The work of Atelier Mey acknowledges an obligation to confront the

blasé attitude towards architectural decision making, responsible for shaping the natural and built environments. Shawna's work in practice, teaching, and research exists at the confluence of social, cultural, economic, and environmental forces. The overarching trajectory of Shawna's career has been in pursuit of architectural attunement through the lens of energetics, matter, and the craft in their assembly. Her work at the UM SoA Littoral Urbanism Lab [LU\_Lab] explores design as an act of questioning-without perceived bias.



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Day 2 • Disrupting the Building Industry



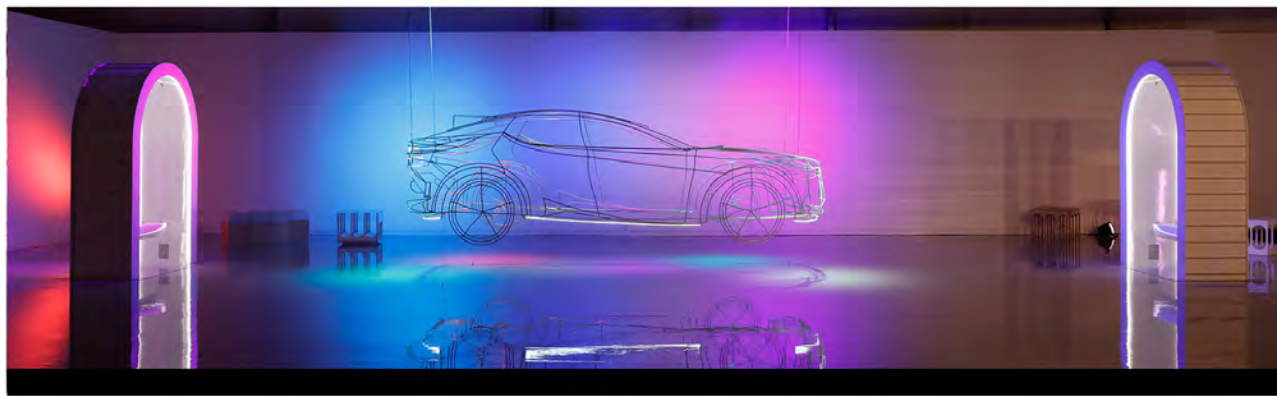
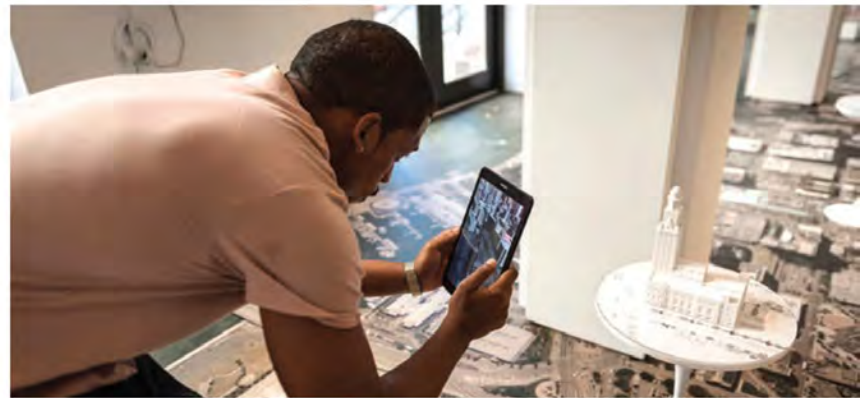
**PANELIST • CEO + FOUNDER**

**Juan Saldarriaga** || BIMBAU

Juan is a Civil Engineer with a title of program management. He has an MBA from Hult International Business School, Cambridge. For his MBA, he focused on disruptive business, innovation, and entrepreneurship. Currently he is the CEO of BIMBAU, a platform that improves productivity in the construction sector, and spreads the importance of the BIM methodology to transform the construction industry worldwide.



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PARK SHARE:  
a parking system of shared, rentable parking spots automatically coordinated by data that is configurable for the individual, government and

# RAD Lab

The RAD Lab provides resources and expertise for project-based research on the spatial ramifications of embedded technology and ubiquitous computing.

The research is premised on the notion that every building or landscape component can be equipped with computational power. Projects at RAD develop models for such digitally enhanced environments to better handle persistent and emerging challenges in the areas of healthcare, building technology, and sustainability. The projects are set up for multi-disciplinary collaboration, and for potential development in partnership with industry.

Computing is migrating from dedicated static appliances to mobile devices, to objects of everyday life and physical environments, thanks to increasingly proliferating microchips and ever-expanding information networks. The spatial nature

of ubiquitous computing directly implicates and empowers architecture, landscape, and urban design.

RAD capitalizes on this potential, bringing research to bear on the built environment from a variety of fields that exploit the spatial consequences of distributed computing: responsive and interactive systems, augmented reality, embedded/situated technology, ambient intelligence, mobile computing, and locative media.





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