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SUMMIT 2017

MAY 3 - 5, 2017
CHICAGO, IL

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PROGRAM

MAY 3 - 5 | CHICAGO, IL

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WELCOME

Hello, and welcome to the 2017 Summit!

This event is unusually special to us because of what it means to our young company.

Three short years ago, our founders started hosting what can be best described as “meetups for industry folk” around the city of Chicago.

Initially, we’d get a turnout of 10, but as word got out, we slowly grew to bring 50 people together to talk about the changes affecting the built industry.

We realized that we were on to something. For many years, the vast world of infrastructure had been a poorly understood and largely ignored sector of our economy. But that was quickly changing.

Smartphones. Drones. AR wearables streaming data to cloud-based software. Fully autonomous equipment. Zero energy. Modular fabrication. Smarter, sustainable buildings.

It was, and still is, an unprecedented time for the built world. And no one was really sure how to navigate it.

Although we were building a digital community, BuiltWorlds wanted to create a physical place where industry leaders could come together, in person, to understand the new terrain. A place where they could draw threads from this vast ecosystem together to find smart solutions to the challenges of disruption.

The Summit is the result.

With leaders from construction, architecture and design, engineering, real estate, finance, government, technology, and more, it’s an event that aspires to help you make sense of profound disruption *and* connect you with people who can guide you through it.

This week, we have just one request: Get engaged.

Listen closely to our speakers. Ask tough questions. Introduce yourself to someone you’d like to meet. You’re a group of successful, well-connected, and brilliant people, and likely, you can benefit from making a connection.

So, let’s not waste any more time. Thank you for joining us at this year’s Summit. It’s time to jump in.

Sincerely,
The BuiltWorlds Team

**Let’s build better,
together.**

Today, changes are forming based on challenges. Thank you for helping to advance our industry by participating in the BuiltWorlds community.



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| TIME | Wednesday May 3 | LOCATION |
|------------------|--|-----------------------|
| 5:00 p.m. | Reception and Networking | Cibo Matto |
| 6:15 p.m. | Opening Remarks Matt Abeles, Co-Founder, BuiltWorlds Matt Gray, Co-Founder, BuiltWorlds; Co-Chairman, Graycor Inc. | Cibo Matto |
| 6:30 p.m. | Construction, Software, and the Next Generation Stan Pepper, Chairman & CEO, The Pepper Companies | Cibo Matto |
| 7:15 p.m. | Reception and Networking | Cibo Matto |
| TIME | Thursday May 4 | LOCATION |
| 7:15 a.m. | Breakfast | Roof |
| 8:00 - 4:00 p.m. | Exhibit Hall Open | Cibo Matto |
| 8:00 a.m. | Smart and Resilient Cities Aaron Koch, Chief Resiliency Officer, City of Chicago Robert Mankowski, VP, Product Development, Bentley Systems Charlie Catlett, Senior Computer Scientist at Argonne National Laboratory Moderator: Bill Abolt, Vice President, AECOM Cities must meet increasingly challenging environmental, economic, and social demands. Aging infrastructure and re-urbanization lead to new stresses placed on city systems. At the same time, weather-related and other natural events are more common and increasingly damaging. The terms “resilient cities,” “smart cities,” and even “brilliant cities” have, as a result, been introduced to describe ways that those who build and manage cities can address these challenges through new technologies, methods of construction, and policy. | Wilde Ballroom |
| 8:50 a.m. | Data and Energy Utopia Hill, Dir. of Project Management, Procurement & Constuction, Invenergy Brian Lakamp, Founder & CEO, Totem Power Tom Schenk Jr, Chief Data Officer, City of Chicago Moderator: Karen Weigert, Senior Fellow, Global Cities, Chicago Council on Global Affairs An understanding of how cities and buildings can use energy efficiently will support resilient and intelligent cities. The long term cost and sustainability of the means by which energy is produced is also a critical aspect of this equation. During this session, we will explore these questions as well as the unique challenges of constructing new sources of energy and the broader policies that facilitate those investments. | Wilde Ballroom |

| TIME | Thursday May 4 (continued) | LOCATION |
|------------|---|-----------------------|
| 9:40 a.m. | Architectural Practice in the 21st Century Yama Karim, Principal, Studio Libeskind Tiago Correia, Director - USA, Zaha Hadid Architects Moderator: Walker Thisted, Producer, BuiltWorlds In addition to the problems that future construction might solve, it is important to understand how buildings will do so through the vision of architects and designers, who must consider some of the biggest environmental, social, economic, structural, mechanical, and design challenges facing the built world. What role do visualization techniques play in conveying and convincing others of a future vision? | Wilde Ballroom |
| 10:45 a.m. | Break | |
| 10:55 a.m. | Augmented and Virtual Reality Ryan Salvas, Director of Innovation, Skanska Ken Hepburn, Managing Partner, Next Dimension Technology Partners Lon Grohs, Chief Commercial Officer, Chaos Group Moderator: Tim Bakos, Director of Operations, Perkins+Will Explore the new virtual tools that designers and contractors are using, paying particular attention to how they are integrated with the data used to design and manage the building process. In many cases, such tools are used to drive adoption of a design, iterate design, and verify design during construction. This panel will also include a demonstration of RealWare. | Wilde Ballroom |
| 11:45 a.m. | The Next Generation of Tools Josh Kanner, Founder & CEO, Smartvid.io David Lyman, Co-Founder & CEO, BetterView Kaushal Diwan, Innovation Group Leader, DPR Construction Jacob Olsen, VP Global Field Engineering, Stanley Black & Decker Moderator: Matt Gray, Co-Founder, BuiltWorlds; Co-Chairman, Graycor Inc. What are the new physical tools that are being used during the construction process and how are they integrated with digital systems? We will begin by looking at the evolution of select hand tools and then explore how the next generation of tools — drones, robotics, and artificial intelligence — is changing how buildings are constructed and maintained. | Wilde Ballroom |



| TIME | Thursday May 4 (continued) | LOCATION |
|------------|--|-----------------------|
| 12:30 p.m. | Lunch Presentation of March Madness Final Four startups | Roof |
| 1:30 p.m. | New Materials and Systems Deepak Shivaprasad, Director of Product Management, View Glass Garrett Miller, COO, Digital, Current, powered by GE Farhan Masood, CTO, Sololnsight Ryan Cialdella, Vice President of Research and Development, Ozinga Moderator: Matt Gray, Co-Founder, BuiltWorlds; Co-Chairman, Graycor Inc. We will explore how new building materials and systems are specified by architects and built by contractors. In particular, we will look at examples of both market-ready and upcoming materials and systems, how they are used and constructed by contractors, how they can be sensed and networked in order to better understand their performance, the software that makes all of this possible, and a broader understanding of the resulting building performance. | Wilde Ballroom |
| 2:20 p.m. | Sensors, Cloud, and IoT in New AEC Tech Companies Chad Hollingsworth, President, Triax Technologies Sean Iacobone, CPO and Co-Founder of Pillar Technologies Chris Mayer, Executive VP & Chief Innovation Officer at Suffolk Construction Moderator: Walker Thisted, Producer, BuiltWorlds Increasingly complex buildings and the jobsites that construct them produce a growing amount of data that can be used to manage systems, increase efficiency, improve safety, and support a higher quality of life for end-users. This data is often generated via sensors that are integrated into different systems and distributed throughout the building. We will explore how contractors are setting new standards for innovation, creating programs to deploy new workflows, leveraging sensors and data to improve safety during the construction process, and integrating sensors and smart networks within completed buildings. | Wilde Ballroom |

| TIME | Thursday May 4 (continued) | LOCATION |
|-----------|---|----------------------------------|
| 3:05 p.m. | Break | |
| 3:15 p.m. | Technology and Aviation Infrastructure Ginger Evans, Commissioner of Aviation, City of Chicago Dwight Pullen, SVP & Aviation Center of Excellence Leader, Skanska USA Tim Kelly, Senior Product Manager, Assemble Systems Moderator: Bassem Hamdy, EVP of Marketing and Enterprise Strategy, Procore Infrastructure projects have continued to grow larger, require complex coordination between a wide range of collaborators, and often must negotiate live worksites and pressure for quick completion. New project management software is a critical tool that can be used in this situation. We will look at the current plans to expand Chicago's O'Hare International Airport with the city's Commissioner of Aviation, a contractor who has worked on similar large-scale projects, and software providers who have addressed some of the concerns — such as coordinating models, drawings, and data; managing costs; and avoiding risk — that might arise. | Wilde Ballroom |
| 4:00 p.m. | Break | |
| 4:15 p.m. | Breakout Session Facilitated by Clareo | Wilde Ballroom/Cibo Matto |
| 5:00 p.m. | Break | |
| 5:30 p.m. | Reception and Networking | Cibo Matto |
| 6:00 p.m. | Welcome and March Madness Winner Announcement Andy Jansen, Co-Founder, BuiltWorlds Remarks and announcement of winner of March Madness Final Four | Cibo Matto |
| 6:15 p.m. | Keynote: SENSEable Cities Carlo Ratti, Director, MIT Senseable City Lab; Founding Partner, Carlo Ratti Associati | Cibo Matto |
| 7:00 p.m. | Networking | Cibo Matto |
| 8:00 p.m. | Dine Arouds | |



| TIME | Friday May 5 | LOCATION | TIME | Friday May 5 (continued) | LOCATION |
|-----------|--|-----------------------|-------------------|--|-----------------------|
| 7:15 a.m. | Breakfast | Roof | 9:50 a.m. | BIM and Construction Innovation: Museum of the Future | Wilde Ballroom |
| 8:00 a.m. | <p>Venture Investing David Spielfogel, Co-Founder & Managing Partner, Ekistic Ventures Cheryl Foil, Principal, Venture Group, Kiddar Capital Constance Freedman, Founder & Managing Partner, Moderne Ventures Moderator: Jesse Devitte, Managing Director & Co-Founder, Borealis Ventures</p> <p>Investment capital, technical knowledge, and a conducive political environment are all essential for supporting innovation addressing current inefficiencies in workflows and, in some cases, offering entirely new tools, materials, and services used to construct and maintain the future built environment. In recent years, increasing coordination between these areas has continued to occur in hubs of innovation. These hubs are incubating new companies that are creating products and services that likely would not have arisen from within legacy AEC companies. We will explore recent trends, learn how infrastructure, material, energy, and AEC software investing differ from the broader investment community, and highlight some of the opportunities to look for in the coming year.</p> | Wilde Ballroom | | <p>Alain Waha, Digital Transformation, Buro Happold Jim Quanci, Senior Director, Autodesk Developer Network Moderator: Jennifer Suerth, VP of Technical Services, Pepper Construction</p> <p>The increasingly complex challenges that a building addresses and the technical means of doing so are found in The Museum of the Future. This case study allows us to understand how computational design and modeling, interoperability, the use of BIM, and the integration of advanced building materials and systems help designers and builders achieve unique formal characteristics and deliver successful projects. Beyond this case study, we will discuss trends in integrating design, engineering, and fabrication in cutting-edge projects.</p> | |
| 8:50 a.m. | <p>The Intersection of Real Estate and Construction Technology Aaron Block, Co-Founder and MD, MetaProp NYC Michael Ellch, Vice President of Development, Related Midwest Brian Myerholtz, Partner & Managing Director Chicago, BCG Moderator: Walker Thisted, Prodicer, BuiltWorlds</p> <p>How are new technologies changing the way developers and investors are constructing and maintaining new developments? We will look at how new use-patterns, such as changes in urban mobility or ways of working, are affecting demands on real estate that might lead to new technologies.</p> | Wilde Ballroom | 10:40 a.m. | <p>Next Generation of AEC Leaders Alan Guy, COO, Anvil Builders Kelsey Taylor, Founder, Engage Civil Shane Scranton, CEO & Co-Founder, IrisVR Moderator: Kevin Bredeson, VP VDC, Suffolk Construction</p> <p>Discover how the next generation of leaders are starting new companies and training programs that bring additional employment opportunities to the construction sector and to local and global communities. In particular, we will explore how new and established companies are attracting the best talent to their organizations, communicating career paths within the built world to students, and adapting their workforce to changing market demands. We will also discuss how the next generation of companies are securing new projects, building teams, and scaling their business.</p> | Wilde Ballroom |
| 9:35 a.m. | Break | | 11:30 a.m. | <p>Keynote: Collaboration to Accelerate Innovation Tom Scarangelo, Chairman & CEO, Thornton Tomasetti</p> | Wilde Ballroom |
| | | | 12:15 p.m. | <p>Closing Remarks Matt Abeles, Co-Founder, BuiltWorlds Matt Gray, Co-Founder, BuiltWorlds; Co-Chairman, Graycor Inc.</p> | Wilde Ballroom |
| | | | 12:30 - 2:00 p.m. | Summit Wrap Party | Roof |





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Bill Abolt,
Vice President,
AECOM



Bill is a VP at AECOM who focuses on energy, sustainability, cities, and infrastructure. Previously, he was a VP at Shaw Environmental and Infrastructure, developed and led its Sustainability, Energy and Carbon Management national practice, and directed consulting projects. He has served as Environment Commissioner, Dir. of the Office of Budget and Management, and Chief of Management, Office of the Mayor, for the City of Chicago. Bill has 30+ years of experience managing complex energy, environmental and public issues and programs. He serves as an adjunct instructor in Public Policy and Administration at both Northwestern University and the University of Illinois at Chicago.



Tim Bakos,
Director of Operations,
Perkins+Will



Tim is an architect with 25 years' experience gained from a range of roles, whose impact in small, specialized firms with deep, hands-on technological activity led to larger roles with broad, strategic reach and business and financial accountability at larger, multi-discipline AE, and global, multi-office architecture firms. As Perkins+Will DC's Director of Operations, Tim is responsible for business operations, including technological implementation for design and delivery of projects across all market sectors in the DC office, and connecting DC's efforts with the broader, collaborative efforts firm wide.



**Aaron Block, Co-Founder
and Managing Director,
MetaProp NYC**



Aaron is Co-Founder and Managing Director of real estate tech accelerator MetaProp NYC, which brings together the brightest minds in real estate and technology to help quickly build the industry's most promising young companies. Portfolio companies include Notion, Optii Solutions, Radiator Labs, Rentalutions, and SocialSign.in. Previously, Aaron served as an investor, CEO, and Chairman of Chicago-based BayRu, LLC. Prior to BayRu, Aaron was an executive with commercial real estate services firm Cushman & Wakefield.



Kevin Bredeson,
Vice President, Virtual Design and
Construction, Suffolk Construction



Kevin is the Vice President of Virtual Design and Construction (VDC) at Suffolk Construction, where he oversees the company's standards for VDC modeling on projects nationwide. He works with owners, designers and trade partners from initial project development through turnover. Kevin has 20 years of experience working in the construction industry. Prior to joining Suffolk, Kevin was the Director of Virtual Construction for Pepper Construction's Chicago region and Director of Virtual Design and Construction at Gilbane.



Charlie Catlett,
Senior Computer Scientist at
Argonne National Laboratory



Charlie is a Sr. Computer Scientist at Argonne National Laboratory, a U.S. Department of Energy scientific research laboratory. He is a Senior Fellow at the Computation Institute of the University of Chicago and Argonne, and a Visiting Artist at the School of the Art Institute of Chicago. He served as Argonne's Chief Information Officer from 2007-2011. From 2004 - 2007, he was director of the TeraGrid Initiative. In 1999, he co-founded the Global Grid Forum, serving as its founding chair. He directed the State of Illinois funded I-WIRE optical network project, deploying dark fiber and transport infrastructure to ten institutions in Illinois.



Ryan Cialdella,
Vice President of Research
and Development, Ozinga



Ryan Cialdella is the VP of research and development at Ozinga, where he is responsible for exploring innovative materials and technologies to help Ozinga stay at the forefront of the ready mix industry. Throughout his 14 years at Ozinga, Ryan has held various roles throughout the company's ready mix operation, making him an asset to the company's continued dedication to be an industry leader. Ryan earned his degree in aerospace engineering from the University of Illinois and his MBA from the University of Illinois at Chicago.



Tiago Correia,
Director,
USA — Zaha Hadid Architects



Tiago first joined Zaha Hadid Architects in 2000, working on a wide range of projects from individual buildings to urban masterplans before leaving the practice in 2012 to continue his studies. After completing his MBA, Tiago worked for Tishman Speyer in New York, including rotations in their Debt Finance, Equity Capital Markets, and Development groups as part of the firm's Leadership Development Program. He rejoined ZHA in 2015 to lead our New York office, with a focus on U.S. projects and expanding the practice's presence in North America.



Jesse Devitte,
Co-Founder,
Borealis Ventures



Jesse is a co-founder of Borealis Ventures. He leverages hands-on experience to source and nurture innovative companies applying technology to design, build, and improve our world. He manages the firm's involvement with Builtr Labs, Courbanize, Flux and Newforma. He led Borealis' investments in Envista Software (acquired by Accela), Handmark (acquired by Sprint), IrisMaps (acquired by OmniEarth), Scribe Software (acquired by The Mustang Group), SketchUp (acquired by Google), SpaceClaim (acquired by ANSYS), TinkerCad (acquired by Autodesk), and VICO Software (acquired by Trimble).



Kaushal Diwan,
Innovation Group Leader,
DPR Construction



Kaushal leads DPR Construction's Corporate Innovation Group which helps drive the "Ever Forward" culture at DPR into actions of continuous improvement. Kaushal has led DPR's corporate BIM training program and supported project teams across the nation with technology implementation. Kaushal's 11 years of experience in the industry consists of project technology implementation and cost estimation for complex healthcare, higher education, life science, advanced technology, and commercial building projects.



Michael Ellch,
VP of Development,
Related Midwest



Michael is VP of development at Related Midwest, leading the acquisition and financing for several of the firm's market-rate and luxury properties. Since joining the firm in 2011, Mr. Ellch has played a key role in a number of high-profile projects, including 500 Lake Shore Drive. He led the acquisition of the former ParkView development — a planned hybrid residential tower designed by Robert A.M. Stern. Mr. Ellch was instrumental in assembling the partnership for 1035 W. Van Buren, a planned luxury rental tower in Chicago's fast-growing West Loop neighborhood.



Ginger Evans,
Commissioner,
Chicago Department of Aviation



As the Chicago Department of Aviation (CDA) Commissioner, Ginger manages one of the world's busiest airport systems comprised of O'Hare and Midway International Airports. Evans has 30 years of aviation experience. She joined the CDA in June 2015 after serving as Vice President of Engineering for the Metropolitan Washington Airports Authority in Washington, D.C. Prior to her role as VP at MWAA, Evans worked in private consulting on major aviation projects in Europe, the Middle East, and Latin America, as well as rail projects in New York and Washington. Prior to this, she served as Director of Aviation for Denver International Airport.



Cheryl Foil,
Principal, Venture Group,
Kiddar Capital



At Kiddar, Cheryl invests in built world tech startups, wielding her experience to bridge the construction and tech industries. With smart cities on the rise, Cheryl hopes to make the world a more connected place through investment. Since joining, she has set up a specific investment fund through the firm to raise capital for startups in highly regulated industries through 1776, an incubator in Washington, D.C. Her focus on Seed, Series A & B rounds in real estate, hospitality, construction, and smart cities startups will help launch a new generation of innovative ideas.



Constance Freedman,
Founder and Managing
Partner, Moderne Ventures



Constance is the Founder and Managing Partner of Moderne Ventures and the Moderne Accelerator, an early-stage investment fund and accelerator program focused on investing in technology companies in and around real estate, mortgage, finance, insurance, and home services. Constance has invested in more than 40 technology companies and helped bring them to market by partnering with over 300 executives and corporations. Prior to launching Moderne Ventures, Constance was the head of Strategic Investments at the National Association of Realtors.



Lon Grohs,
CCO,
Chaos Group



Visualization futurist and artist, Lon oversees customer strategy as Chaos Group CCO and is the founder of Chaos Group Labs, a collaborative research and development hub exploring the next generation of rendering technology and virtual reality. Lon was Principal and Creative Director at Neoscape, leading projects with architecture firms Foster+Partners, Zaha Hadid Architects, SOM, Gensler, Perkins + Will, HOK, and KPF. He taught at Boston Architectural College, studied at the Ecole d'Architecture de Versailles, and holds a degree in Architecture from the University of Illinois at Urbana-Champaign.



Alan Guy,
COO,
Anvil Builders



As Chief Operating Officer and Co-Founder, Alan provides strategic, hands-on involvement and has been instrumental in driving company growth (463 percent revenue growth year-over-year). He is directly responsible for budgeting, strategic planning, estimating, P&L, contract negotiations, and overall operations for large-scale public and private infrastructure projects throughout the West Coast, including underground and above-ground construction. He is also on the board of the Construction Millennials of America.



Bassem Hamdy,
EVP of Marketing and
Enterprise Strategy, Procore



Bassem is the EVP of Marketing and Enterprise Strategy at Procore, where he focuses on improving the company's position in the industry by leading product and segment initiatives through a mixture of business process improvements and marketing. Bassem brings 16+ years of experience in the construction software industry and actively attends industry events as a thought leader and speaker. Bassem is an innovative leader, constantly pushing boundaries and producing creative solutions. Bassem received his BComm. from McMaster University in Canada.



Ken Hepburn,
VP Marketing,
Realwear, Inc. Partners



Ken is Managing Partner at Next Dimension Technology Partners, and is leveraging Wearables, Augmented Reality, BIM, Smart Tools and IOT to deliver measurable benefits to an organization's P&L. Previously, Ken was Executive Director of Strategic Alliances at DAQRI, a company specializing in advanced wearable human computer interface products and technologies. Ken focuses on forging groundbreaking partnerships with trade groups and unions and is passionate about revitalizing workforce opportunities in the trades through emerging technologies.



Utopia Hill,
Director of Project Management
and Construction, Invenergy



Utopia is the Director of Project Management and Construction at Invenergy, where she oversees the construction of utility scale renewable energy projects. She has more than a decade of experience in the energy industry including engineering, procurement, and supply chain management. She has worked on over 7500 MW of renewables projects, including wind, solar, and battery storage with budgets in excess of \$1 billion. Prior to joining Invenergy in 2005, she worked for GE Aircraft Engines. Utopia has a BS in Aerospace Engineering from the University of Illinois.



Chad Hollingsworth,
President,
Triax Technologies, Inc.



Chad is President of Triax Technologies, Inc. Prior to joining the start-up world and founding Triax, he worked as an Equity Product Specialist at Bloomberg LP. Chad holds a Bachelor of Science in Business Management with a concentration in Entrepreneurship from Babson College.



Sean Iacobone,
CPO and Co-Founder,
Pillar Technologies



Sean is the CPO and Co-Founder of Pillar Technologies, a high growth company focused on building the connected construction site. In this role, he is leading the creation of a singular platform that delivers data-driven insights that help companies make more informed decisions, avoid project setbacks, and build more efficiently. Sean holds a Bachelor of Science in Electromechanical Engineering from Wentworth Institute of Technology.



Josh Kanner,
Founder and CEO,
Smartvid.io



Josh is an experienced entrepreneur with a proven track record in fast-growing enterprise software companies. Most recently, he was co-founder of Vela Systems, a pioneer in the use of web and tablet workflows for construction and capital projects. There, he led the company's product, marketing, and business development functions. Prior to founding Vela Systems, Josh was responsible for product management and strategy at Emptoris (now part of IBM), a web-based strategic sourcing software company.



Yama Karim,
Principal,
Studio Libeskind



Before joining Studio Libeskind in 2003, Yama had collaborated with Daniel Libeskind for several years in the late 1990s in Berlin. He has since brought extraordinary experience to the Studio, having served first as a senior designer at Polshek Partnership (now Ennead Architects), where he worked on the Brown Fine Arts Center at Smith College and the Sarah Lawrence College Monica A. and Charles A. Heibold Jr. Visual Arts Center, among others. He also worked at Reiser + Umemoto in New York, where he served on the team for the Yokohama Port Terminal in Yokohama, Japan.



Tim Kelly,
Product Manager,
Assemble Systems



Tim is the Product Manager at Assemble Systems, responsible for working closely with customers to develop the product strategy and roadmap. Tim has a wealth of experience within the construction industry, having spent the past seven years innovating with BIM in design and construction from the general contractor and construction management perspective. Tim earned his BS in Construction Science from Texas A&M University and previously served as BIM Manager at Satterfield & Pontikes Construction.



**Aaron Koch, Chief Resilience
Officer of City of Chicago
Office of the Mayor**



Aaron serves as the Chief Resilience Officer for the City of Chicago under Mayor Rahm Emanuel. In this role, he is leading the creation of Chicago's resilience strategy through the City's participation in the Rockefeller Foundation's 100 Resilient Cities program. Prior to joining the Mayor's Office, Aaron served as the Deputy Commissioner for Sustainability in Chicago's Department of Water Management. Before moving to Chicago, Aaron served as a Senior Policy Advisor in the New York City Mayor's Office of Long-Term Planning and Sustainability under Mayor Michael Bloomberg.



**Brian Lakamp,
Founder and CEO,
Totem Power Partners**



Brian is the Founder and CEO of Totem Power, a startup tackling the connected cities and distributed energy through product and design innovation. Previously, as President of Technology and Digital Ventures at iHeartMedia, Brian was key to the mass digitization of radio, growing iHeartRadio to more than 65 million listeners, making it the fastest growing digital music platform in history. At Sony Pictures, Brian developed MovieLink, one of Hollywood's first Internet movie services. Brian graduated from UCLA with degrees in Mathematics and Business Economics.



**David Lyman,
Co-Founder and CEO,
BetterView**



David is Co-Founder and CEO of BetterView, a drone-based property inspection platform based in Silicon Valley. BetterView has inspected more than 5,000 rooftops across more than 1,700 properties using drones for dozens of insurance companies since its inception in late 2014. Prior to BetterView, David built social media tools for small businesses and enterprise workflow and data analysis software for the oil and gas industry. David holds a BSE in Computer and Telecommunications Engineering from the University of Pennsylvania.



**Robert Mankowski,
VP, Product Development,
Bentley Systems**



Robert leads the development team responsible for Bentley's AssetWise capabilities and services. AssetWise connects people, processes, and technology with a common data environment to enable infrastructure owner operators to plan and implement asset performance and reliability strategies. Robert has 20+ years of experience in software development and is a co-inventor of seven patented technologies. He joined Bentley Systems in 2004 as part of Bentley's acquisition of Haestad Methods, an object-oriented hydraulic analysis software firm, where he served CTO.



**Farhan Masood,
CTO,
SoloInsight**



Farhan has 20+ years of experience in building enterprise perimeter and cybersecurity products, in addition to writing biometric/identification algorithms around IoT, 3D facial and iris recognition, retina and palm vein verification, mobile proximity, blockchain tokens, software defined RFID, military-grade secure QR Codes, and beacons. He was awarded the Genius Visa by the U.S. Government for:

- Security tech innovation (IAM) (Biometrics) (PACS) (Cybersecurity)
- Internet of Things (IoT) & "people"
- Shaping the future of access control and making buildings smart



**Chris Mayer,
Executive Vice President &
Chief Innovation Officer, Suffolk**



Chris is the EVP and Chief Innovation Officer at Suffolk Construction where he oversees innovation initiatives, managing their execution, and measuring their results to achieve safer and more affordable building. Chris heads Suffolk's Innovation Committee, which is focused on identifying new innovations and testing them for feasibility. Prior to Suffolk, Chris was a consultant in the digital media and online education industries, was Publisher of the Boston Globe newspaper and websites for four years, and worked at the news organization for nearly 30 years.



**Garrett Miller,
Chief Operating Officer, Digital,
Current, powered by GE**



Garrett serves as the Chief Operating Officer for Current Digital, powered by GE. Current, a new IOT company within GE's, integrates LED, solar, and digital technologies with GE's industrial strength Predix operating system. These combined technologies create a digital platform that delivers both efficiency via energy management and productivity through hundreds of partner apps tailored to Current customers' businesses. Before working at GE, Garrett held a variety of leadership positions within startup and Global 500 companies in roles that spanned both product and sales.



**Brian Myerholtz,
Partner & Managing Director,
The Boston Consulting Group**



Brian is a Partner and Managing Director with BCG, where he is a core member of the industrial goods and operations and practice areas. Brian has worked primarily with manufacturers of engineered machinery and building products on operational, strategic, and corporate development topics. His recent work has focused on using technology to reduce cost, shorten build times, improve quality and safety, and enable aftermarket parts and service support. Brian was a Tuck Scholar at the Tuck School of Business at Dartmouth and holds a BS in Mechanical Engineering from Cornell University.



**Jake Olsen,
Vice President of Field Engineering,
DEWALT**



Jake is the VP of Field Engineering at DEWALT. Jake has more than 15 years of experience in the construction field from engineering consulting to construction product design & manufacturing. Jake built and led teams in both U.S. and Asia, where he spent 5 years building a company that was sold to Stanley Black & Decker. In his current role, he leads a team of engineers at DEWALT that work with designers and contractors from the office to fabrication shop and jobsite to improve safety and efficiency through education and by developing innovative products and industry-specific technology solutions.



Stan Pepper,
Chairman and CEO,
The Pepper Companies, Inc.



Stan returned to his family's construction business after 13 years on the technology side of the industry. Stan was named chairman and CEO of The Pepper Companies, a Chicago-based holding company of Pepper Construction Group. Most recently, he was CEO of StratusVue, a construction software business. Pepper Construction was the sixth-largest Chicago-area construction company in 2013, with local revenue of \$438 million.



Dwight H. Pullen, Jr.
SVP & Aviation Center of
Excellence Leader, Skanska USA



Dwight is a transportation executive focused on airport infrastructure at one of the largest construction and development companies in the country, with expertise in construction, civil infrastructure, public-private partnerships and commercial development initiatives. Dwight serves as the Senior VP and National Director of the Aviation Center of Excellence for Skanska USA Building Inc. He is responsible for establishing Skanska as the industry leader in new standards of innovation, efficiency and best management practices.



Jim Quanci,
Senior Director, Autodesk
Developer Network



With more than 30 years of engineering and design experience, Jim has spent the past 25 years developing relationships for Autodesk with leading technology partners around the world. He oversees an international network of 4,000+ software partners — ISVs, consultants, and Autodesk customers — who customize, complement and extend Autodesk cloud, mobile and desktop technologies. He is currently leading creation of a new cloud-based ecosystem of partners leveraging Autodesk's Forge web services platform. Prior to Autodesk, Jim worked at Sun Microsystems and General Electric.



**Carlo Ratti, Director, MIT
Senseable City Lab; Founding
Partner, Carlo Ratti Associati**



An architect and engineer by training, Carlo practices in Italy and teaches at MIT, where he directs the Senseable City Lab. Ratti has co-authored more than 250 publications and holds several patents. His work has been exhibited in several venues worldwide, including the Venice Biennale, New York's MoMA, London's Science Museum, and Barcelona's Design Museum. Two of his projects — the Digital Water Pavilion and the Copenhagen Wheel — were hailed by Time Magazine as "Best Inventions of the Year."



Ryan Salvas,
Director of Innovation,
Skanska



Ryan serves as the Director of Innovation at Skanska USA Commercial Development. Ryan has a diverse background with 15+ years of experience as a technologist, entrepreneur, designer, and educator working with universities, designers, and technology startups. These diverse experiences allow him a unique perspective on innovative technologies in the design and construction space. Most recently, he worked with nano-materials startup Ubiquitous Energy, helping them to secure a successful series B round of funding.



Tom Scarangelo,
P.E. Chairman and CEO,
Thornton Tomasetti



Tom leads the strategic direction of the firm while being highly engaged with clients, projects and staff development. He has 35+ years of experience in structural engineering on a wide variety of building types, from long-span sports and entertainment arenas to high-rise commercial and mixed-use buildings. Tom led Thornton Tomasetti into the forefront of project delivery and engineering technologies for building analysis, design, and construction. Since becoming chairman in 2008, he has overseen the strategic plan for growth and innovation in areas such as BIM and IPD. He was instrumental in developing TTWiN, the firm's innovation accelerator, and CORE, its internal technology incubator.



Tom Schenk Jr.,
Chief Data Officer,
City of Chicago



Tom is a researcher and author in a number of fields, including data science, open data, data visualization, and education research and policy. He is currently the Chief Data Officer at the City of Chicago, which includes leadership of the strategic use of data to improve the efficiency of city operations and quality of life for residents. Tom has led the expansion of Chicago's open data portal, implementation of predictive analytics to optimize city services, and the City's database and business intelligence teams. Tom has also co-founded and is currently the chair of the Civic Analytics Network at Harvard.



Shane Scranton,
CEO and Co-Founder,
IrisVR



Shane is the CEO and co-founder of IrisVR, a software company building VR and AR applications for AECO. Shane and his team have worked with many of the largest companies in the U.S. and abroad to implement VR in their offices and on the job site. Using IrisVR technology, firms can generate VR experiences in seconds based on their existing BIM/VDC workflows.



Deepak Shivaprasad,
Director of Product Management,
View Glass



Deepak is a passionate leader with 18 years of experience driving business and marketing transformations and technology and product growth. He has successfully led cross-functional teams to create go-to-market strategies that achieve competitive advantages and surge bottom-line growth. His specialties include: Customer lifecycle, go-to-market strategies, strategic partnerships, strategic planning and budgeting, global team and talent management, and situational leadership.



David Spielfogel,
Co-Founder and Managing Partner,
Ekistic Ventures



David is a co-founder and managing partner of Ekistic Ventures, a group of urban problem solvers who are actively cultivating a portfolio of disruptive companies that bring new solutions to critical problems. He brings nearly 20 years of experience at the highest levels of local government, political campaigns, and philanthropy with a focus on setting short- and long-term strategies to guide ideas to implementation. Until early 2016, David served as Senior Adviser to Mayor Rahm Emanuel. Previously, David served as Chief of Staff at the MacArthur Foundation, as deputy policy director for Barack Obama's senate campaign, and in the Clinton White House.



Jennifer Suerth, LEED® AP- :
Vice President — Technical
Services, Pepper Construction



As VP of technical services at Pepper, Jen provides strategic direction for the company with regard to BIM, laser scanning, augmented reality, and other technical services. She serves as a key advisor to project teams on constructability and implementation strategies through the early stages of project design and development and provides leadership on construction, fabrication, and facility management. Jen has more than 12 years of experience in architecture, engineering, and construction. She is a leader in the Chicago virtual construction community and speaks frequently and runs workshops.



Kelsey Taylor,
Founder,
Engage Civil



As the entrepreneurial head of a civil engineering company, Kelsey is at the intersection of developing a company and site development. In 2014, Kelsey leveraged his 15-year portfolio of work as the civil engineer of record for projects such as Exelon City Solar (the nation's largest urban solar power plant) and the University of Chicago Lab School's Shapiro Hall. Focused as much on the culture of purposeful endeavor and relationships as on great work, Engage strives to weave itself into the rich tapestry of Chicago's past and future development.



Alain Waha,
Global head of BIM and Digital
Design, BuroHappold



Alain holds the role of global head of BIM and digital design for BuroHappold, alongside other advisory positions with PWC and digital startups. After a career in aerospace and automotive, Alain transferred to the construction industry in 2008. Initially as the CEO of a 500-strong firm providing CAD services, he created his first BIM team and started offering digital transformation services. His experience of BIM transformation and digital implementation spans the AEC value chain. His work includes VDC in the Middle-East, design project in Europe, and supply chain enablement in the U.S.



Karen Weigert,
Senior Fellow, Global Cities,
Chicago Council on Global Affairs



Prior to her position as Senior Fellow, Global Cities, Karen served as chief sustainability officer for the City of Chicago. In that role, Weigert guided the city's sustainability strategy and implementation, bringing innovative, practical solutions throughout the work of the city. Prior to her appointment she served as senior vice president of ShoreBank where she built a national consumer group that generated deposits to support environmental sustainability and community development in low to moderate income urban neighborhoods. Prior to ShoreBank, she worked at McKinsey, Goldman Sachs, and produced the documentary film Carbon Nation.

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