The Power of Location:
GIS + BIM Enabling Sustainability and Resilience

Marc Goldman
Esri, Inc.

Pratibha Basrao
HDR, Inc.

Linda Foster, PLS, GISP
Ferber Engineering Company, Inc.

Dennis Rodriquez, AIA
Truinity, Inc.

Gautam Shenoy, DBIA
Steinberg Hart

Dr. Anita Soni
Skanska

Darin Welch
HNTB
Panel Discussion
Hypothesis

AEC professionals need Interop between their BIM and GIS tools (and between their people) to solve, plan, design, construct, and manage projects in a sustainable and resilient manner.
Approach

Six Thinking Hats

AEC industry veteran thought leaders dissect the problem into 6 perspectives

WHITE facts
RED feelings
BLACK negative
GREEN creativity
YELLOW benefits
BLUE process

https://www.mindtools.com/pages/article/newTED_07.htm
Six Thinking Hats

An engagement model to elicit critical thinking and problem solving.

Encourage critical thinking with a team
Solve problems organizations face
Platform for discussing ideas with teams

Use a set time interval for each hat as the team generates thoughts for each color.

Allow participants to have a focused discussion of each mode of thinking.
Preparatory Workshops

Multiple sessions discussing the importance of GIS to deliver sustainable and resilient AEC projects
AEC professionals need Interop between their BIM and GIS tools (and between their people) to solve, plan, design, construct, and manage projects in a sustainable and resilient manner.

Collaboration Board – Work in Progress

Multiple sessions discussing the importance of GIS to deliver sustainable and resilient AEC projects
Panel Discussion Format

Pecha Kucha

PechaKucha (Japanese: ペチャくちゃ, chit-chat) is a storytelling format where a presenter shows 20 15 slides for 20 seconds of commentary each (6 minutes and 40 seconds total, 5 minutes total).

At a PechaKucha Night, individuals gather at a venue to share personal presentations about their work.

The PechaKucha format can be used, for example, in business presentations to clients or staff, as well as in education settings.

Inspired by their desire to "talk less, show more," the founders of Klein-Dytham Architecture (KDa) created PechaKucha in February 2003.
Panel Discussion Format

The importance of GIS to deliver sustainable and resilient AEC projects

5-minute presentation
Rapid-fire Q&A
Repeat 6x

White Hat
The white hat is all about the facts. Gather data to understand the issue or problem to solve.

Yellow Hat
The yellow hat emphasizes positivity and optimism. Under this hat, probe for value and benefit.

Black Hat
The black hat emphasizes judgment and difficulties. It critical of the feasibility and approaches to the problem.

Red Hat
The green hat emphasizes creativity. It is a time to express new concepts and perceptions.

Green Hat
The red hat is about feelings, hunches, and intuition. This hat allows you to put forth feelings without judgment.

Blue Hat
The Blue Hat is the overview Hat. With Blue, think of the sky above. Or think of being cool and in control.
The Panel
Marc Goldman

Director of AEC Industry Solutions

Responsible for messaging and marketing strategies for Esri’s related to the built and natural environment.

Leading expert in BIM and its impact on the processes and business of the design and construction industry.

Two decades of using and delivering tech solutions to the industry, Marc has formed, hired, managed, mentored, and inspired technical sales and development teams in both large organizations and start-up environments.

Studied architecture and civil engineering at Tulane University.

Live and work in the suburbs of Denver Colorado where bicycling and skiing when the weather permits.
Pratibha Basrao

Applied Technology Office Director

Leads HDRs geospatial practice that delivers cutting-edge technology solutions to clients and provides competitive advantage to win and execute projects.

Extensive experience providing geographic information system and program technology services in defense, water resources, transportation and environmental sciences industries.

A champion of a network of more than 100 GIS professionals, including data and mapping analysts, application developers, technology consultants and business/operational leaders.

Resilient, agile and client-focused leader, strives to understand emerging technical drivers within each market sector and how to apply them for clients.
Linda Foster, PLS, GISP

Civil Engr, Senior Project Manager of Geospatial

Fifteen years at Ferber Engineering, currently leads the research and development of emerging technologies applied to civil engineering and construction.

Manages an expansive portfolio of projects and clients. Linda holds a Bachelor of Science degree in Geological Engineering from South Dakota School of Mines and Technology and a Master's degree in Geographic Information Systems from Pennsylvania State University.

She is a registered professional land surveyor, certified geographic information systems professional, and FAA certified remote pilot.
Dennis Rodriquez, AIA

BIM Enterprise Implementation and Thought Leader

Dennis is the BIM Services Manager for Triunity Inc. and brings over 28 years of project management and process development experience. He has executed enterprise BIM implementation/integration strategies for large campus owners in the transportation and aviation industry, both nationally and internationally.

As a renowned subject matter expert, Mr. Rodriguez has presented on BIM to FM & GIS at the Airport’s Council International, American Association of Airport Executives, Autodesk University, BIMForum, ESRI International User Conference, SMART Infrastructure Forum and IFMA’s World Workplace. In addition, Mr. Rodriguez was the Keynote Speaker for the 2016 Campus FM Technology Association in Boulder Colorado.
About the speaker

Associate | BIM Director

Gautam is the BIM-VDC Director for Steinberg Hart and has over eighteen years of experience in Design Technology, Project Delivery and multi-disciplinary integration.

He has served as a PA / Technology Manager for the Levi’s Stadium in Santa Clara completed in 2014 and assisted with VDC on the San Diego International Airport - Terminal 2 West Expansion, a Design Build BIM project. Gautam was also the BIM Manager for the Tom Bradley International Terminal Renovation & Expansion at LAX in 2009/2010 which added over a million square feet to the existing terminals.

Gautam specializes in speaking at conferences about interdisciplinary collaboration and coordination on traditional and design-build projects.

He takes immense interest in teaching and believes sharing his knowledge is fundamental to professional development and personal well-being.
About the speaker

Lorem ipsum dolor sit amet

Anita is a Senior BIM Manager at Skanska Infrastructure UK. She has worked in the civil and infrastructure industry for the past 10 years. She has an Engineering Doctorate from UCL in collaboration with Network Rail, where she established processes for the implementation of non-contact technologies such as laser scanning and photogrammetry for monitoring of railway infrastructure.

She currently works on the HS2 Main Works Civil Contract as part of the SCS (Skanska-Costain-STRABAG) Joint Venture as the As-Built BIM Lead. She has a special interest in enhancing the integration of Survey, BIM and GIS during the design, construction and handover phase.
Darin Welch

Associate Vice President, National Geospatial Manager

Darin is the national geospatial manager within HNTB’s Technology Solutions Center, leading a team of talented support staff for many of HNTB’s most significant GIS consulting and asset management projects.

Darin Welch is a technology project manager for HNTB Corporation, where he’s worked for the past 20 years.

As national geospatial manager, he leads a team for the firm’s most significant GIS consulting and asset management projects. During his tenure at HNTB he has spearheaded the development of several asset-management focused applications that include bridge management, corridor planning, capital program prioritization and managing the public engagement process.