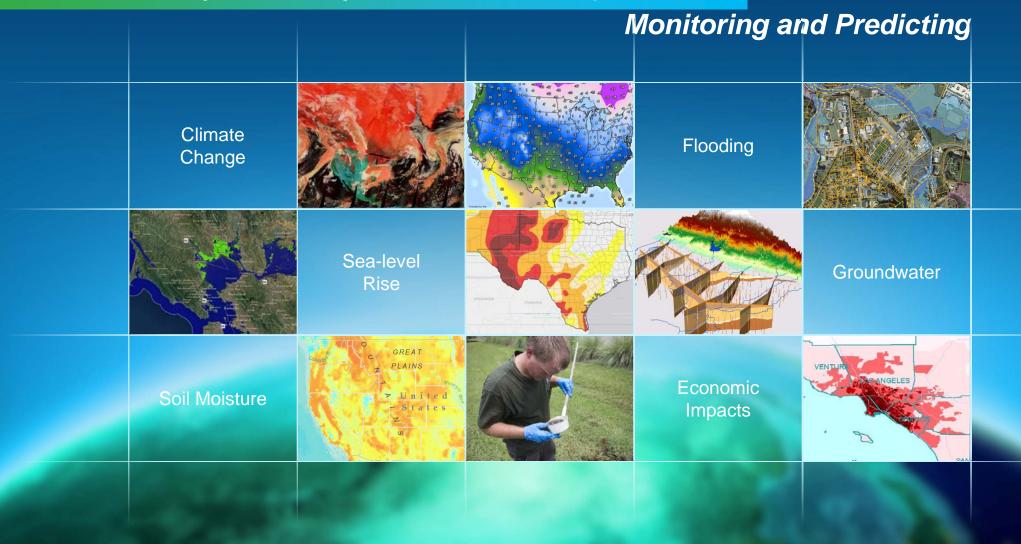
# Sustainable | Resilient | Smart Cities

Mark Cygan | Esri

Transforming How We Understand and Manage Our Future



# Planning and Designing Urban Design Green Building Healthy Food Mitigating Accessibility Risk Solar **Potential**

# Managing and Taking Action



# **Collaborating and Communicating**





Improving Analysis and Decision Making

TTT

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III III

GeodesignMobile GIS3D GIS

## **Geodesign is the process**

for informed design & wise decision making



The science of geography + Purposeful design + Evaluation + Decision + Implementation

Understanding

Precedes

Action

# **Geodesign is Mobile**

Easy access to tools for designing with anyone, anywhere, anytime



#### **Browser-based**

# UN Global Disaster Resilience App Challenge

# **Citizen / Public-Facing**



## **Scientific / Professional**

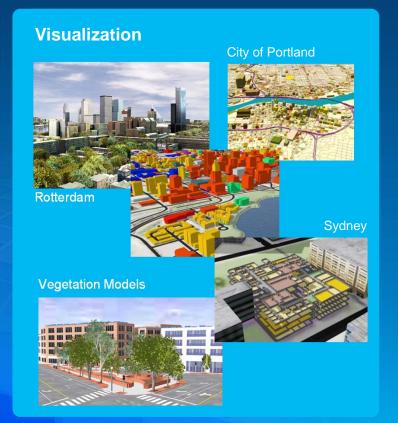


# The Future of Geodesign...

Solving 3D problems in... 3D

Urban & Landscape Design



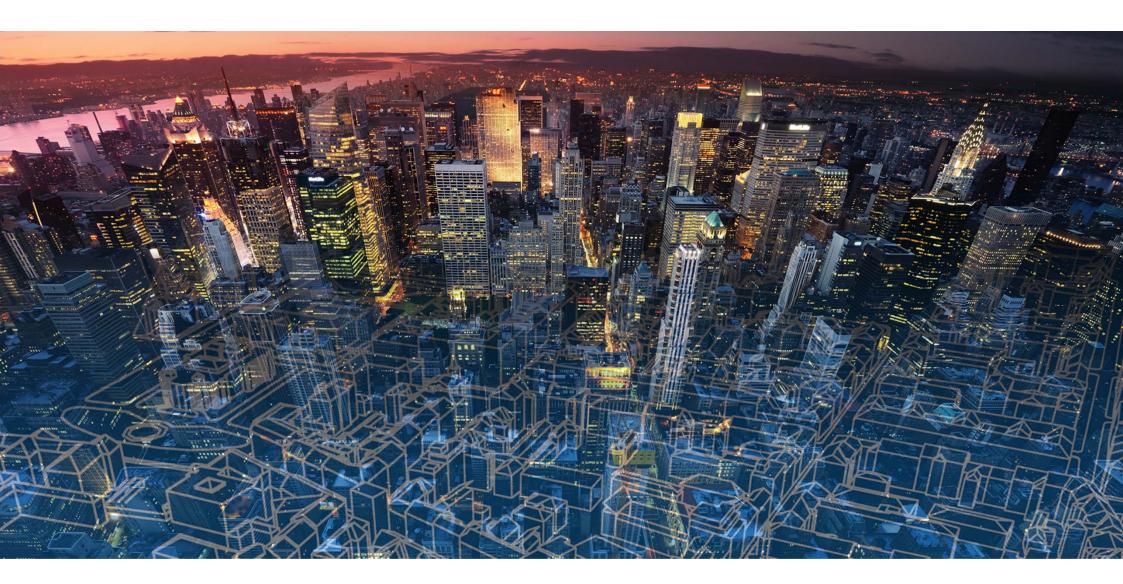


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#### 3D on the Web



. . Empowering how we design In 3D

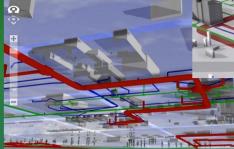




Better Decision Making

# Geodesign

#### Infrastructure

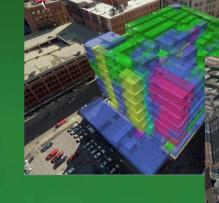




#### Switzerland

**Urban Visualization** 

#### Buildings



#### Campus Management



National Institutes of Health

# **Recent Geodesign Examples**

#### Reconstruction



Tohoku City, Japan. SmarterBetterCities.

Urban Network Analysis Toolbox For ArcGIS



City Form Lab, MIT, Massachusetts

Healthy Communities

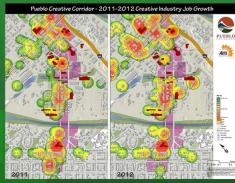


The Planning Center DC&E,



Forest Lawn Creek, Canada. O2 Planning + Design King Abdullah Economic City, Saudi Arabia Skidmore, Owings, and Merrill

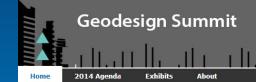
#### **Economic Development**



Pueblo County, Colorado

# **Geodesign Summits**

# Geodesign Summit, Redlands, CA January 22-23, 2015





Esri Headquarters, Redlands, California Quick Links

January 22-23, 2015

2014 Videos 2014 Proceedings Ask a Question Directions and Local Attractions

#### Save the Date in 2015!

in a variety of applications from city planning to disaster response to building beautiful and better functioning landscapes and infrastructure. Next year, we hope to hear from you and discover how you're making a difference in your community with Geodesign.

Making an Impact



#GeodesignSummitEU

#### Geodesign for Resiliency

Architects, designers, geographers, and city planners face new challenges as our world continues to change in unprecedented ways. Natural disasters can occur in areas historically devoid of them, and rapidly increasing urban populations create new challenges for distributing resources and serving the citizenship. The Geodesign Summit Europe will explore how geodesign professionals can incorporate GIS into their discipline to build safer, smarter, and more resilient communities.

# Geodesign Summit Europe, Delft, Netherlands September 11-12, 2014

Join us for the 2015 Geodesign Summit, January 22-23. In 2014 we focused on using Geodesign

Watch the 2014 videos here.

Learn More about Geodesign Projects that are

## Mark Cygan

Industry Manager, Map, Chart, Data Production and SDI, Esri



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mcygan@esri.com

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