



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

3D Cadastres for Sustainable Development

Katie PICKETT and Matthew WOODLIEF, United States

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Key Takeaways

Governments can **implement 3D economic cadastres** to mitigate effects of climate change, ensure sustainable urbanization, and to plan for shifting economic demands.

Valuation for multiple types of real properties leveraging **3D economic cadastres** can support more sustainable and effective land use planning by increasing the number of potential sources of tax revenue.

3D real property valuation can provide a **more holistic and accurate tax base while increasing the overall capital** to positively contribute to more prepared and resilient communities.





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Current Reality



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Introduction

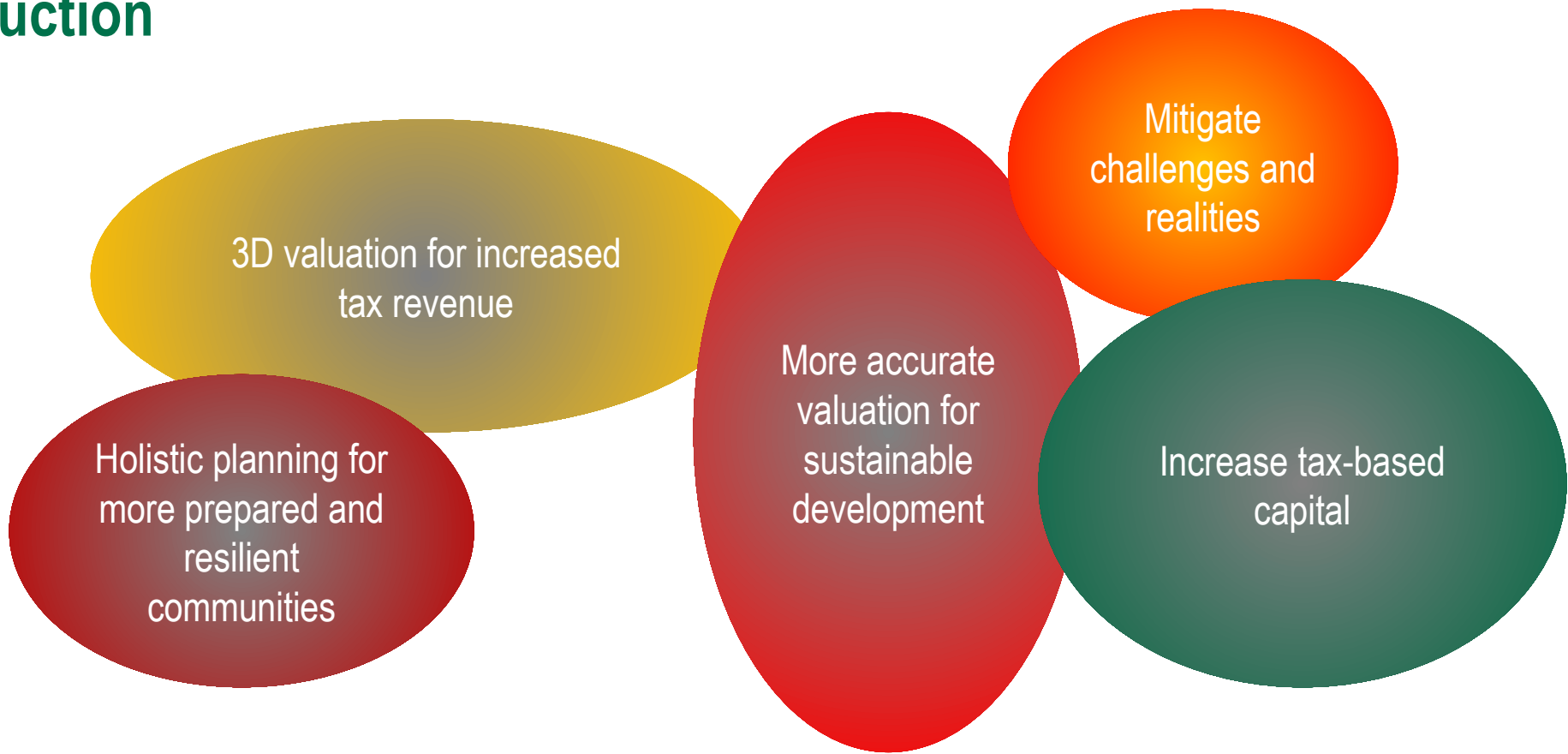




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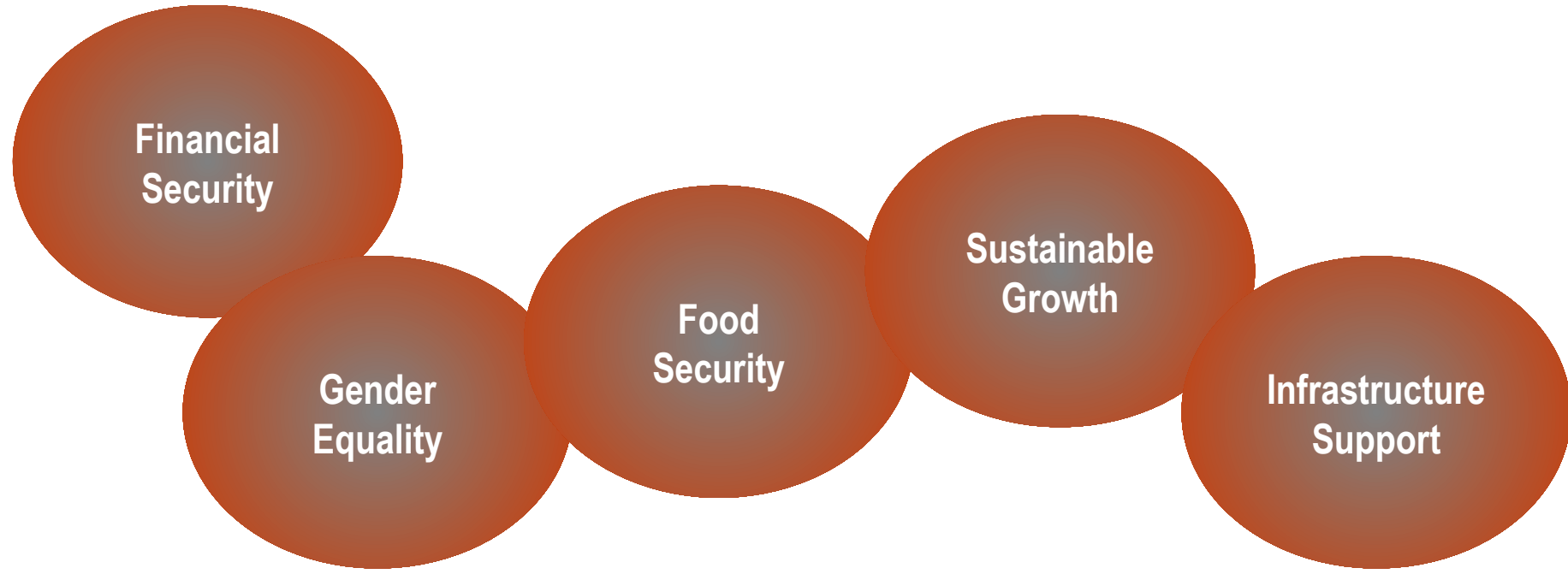
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3D Valuation

Capital and positive financial leverage to increase...



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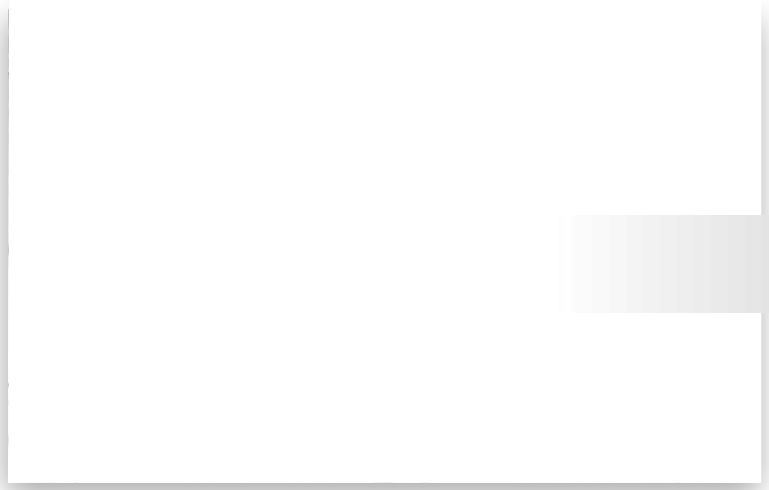
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3D Valuation

Capital and positive financial leverage to increase...

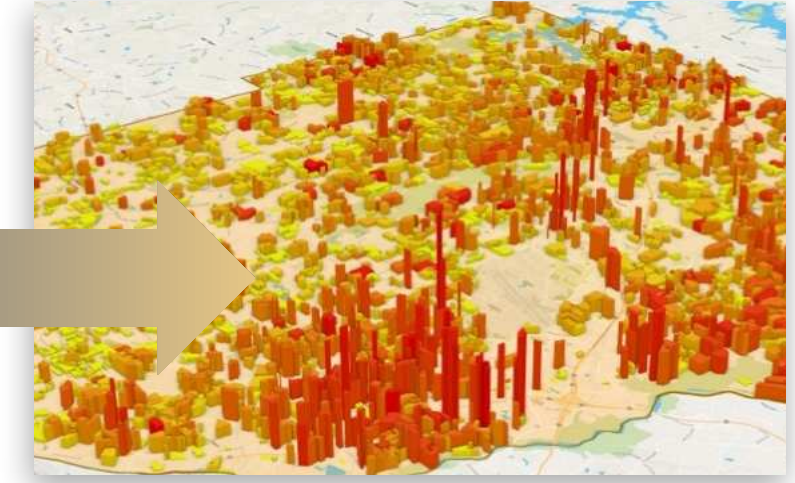
No Tax Map



Standard Tax Map



Average Appraisal Value



Cobb County
Cobb County, Georgia



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3D Data Formats, Technology, & Standards



I3S



ANZLIC

the Spatial Information Council

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3D Valuation

Beachside Condo





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3D Valuation

Multi-Level Tenant

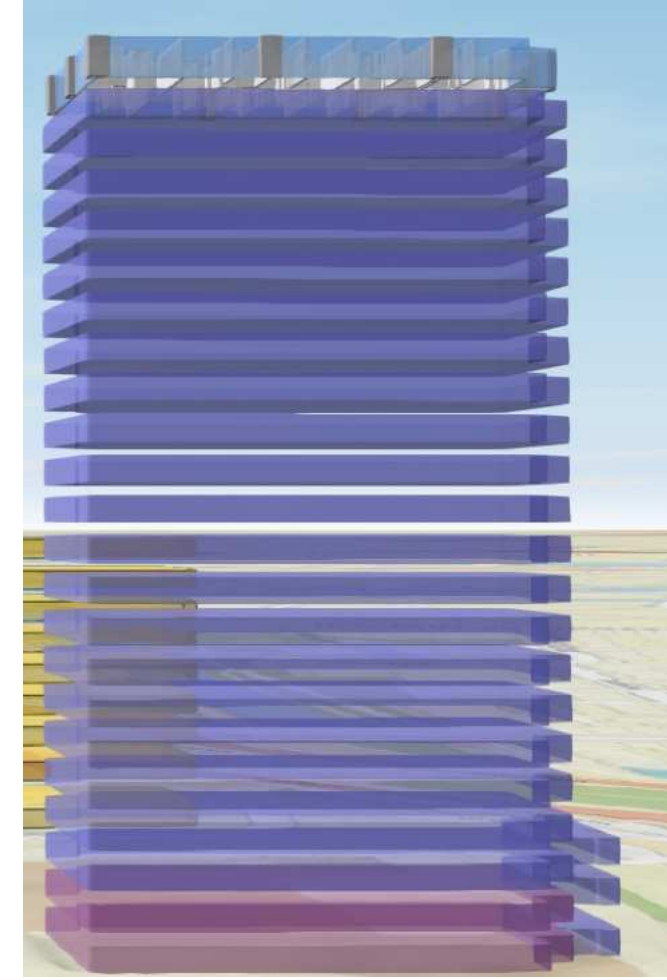
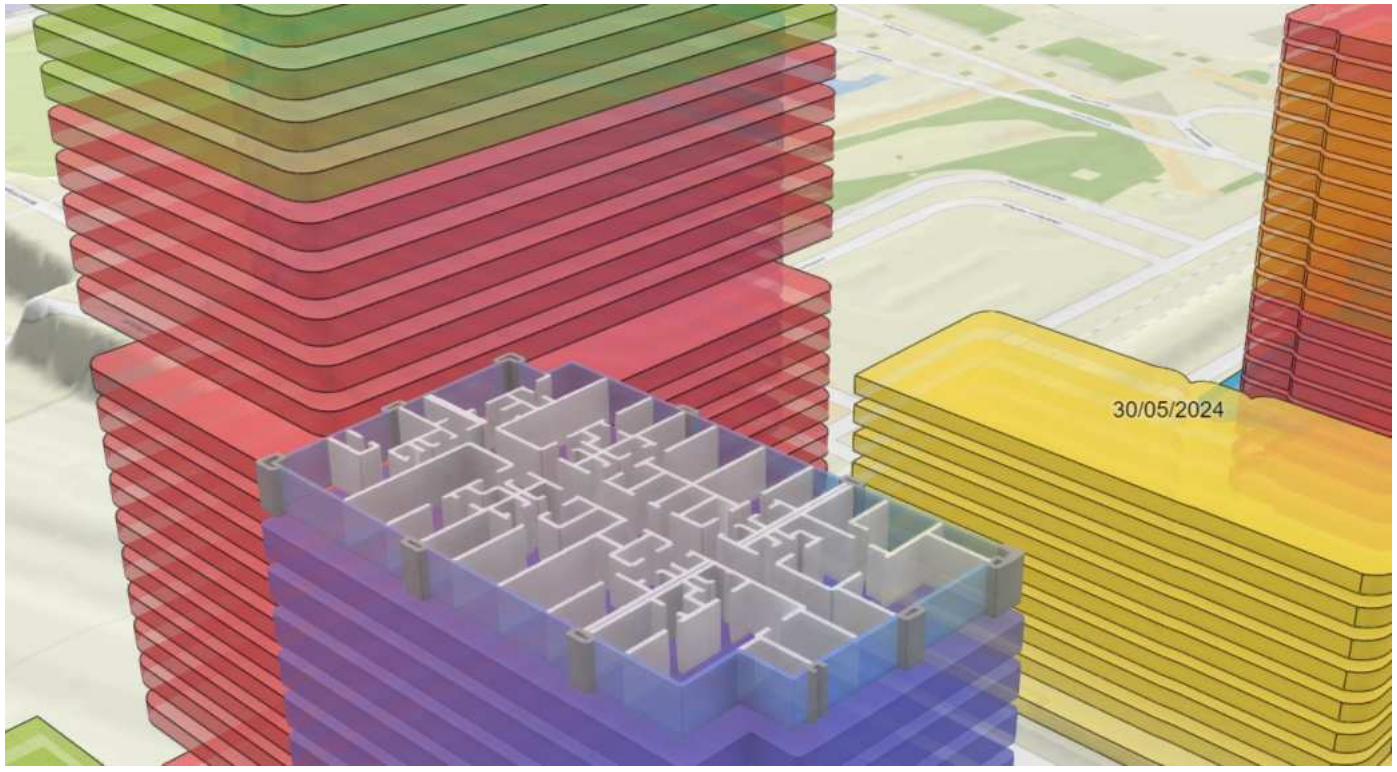




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3D Valuation

Sub-Surface Mineral Rights

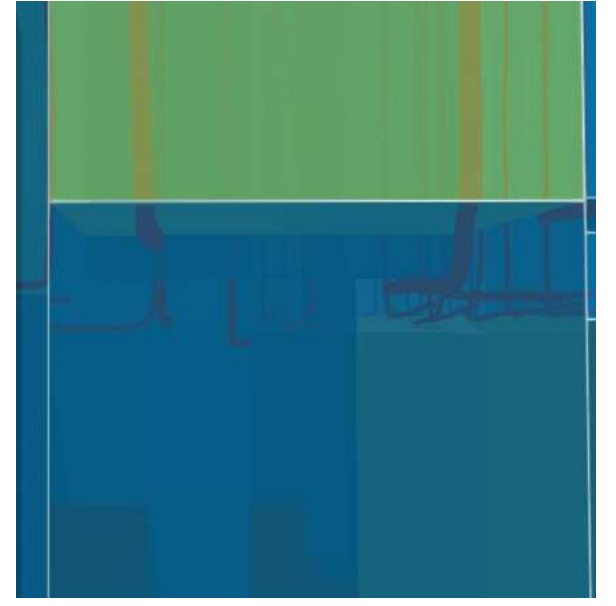
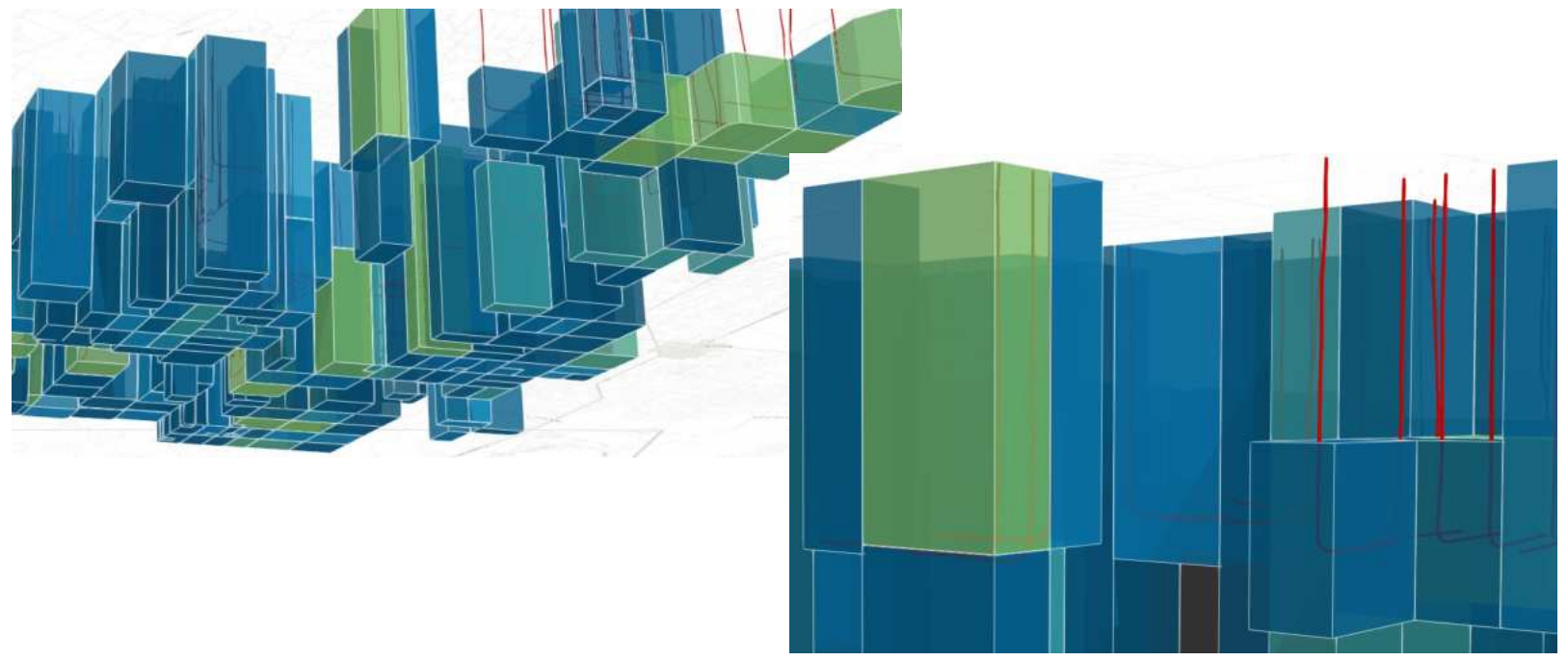




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3D Rural and Urban Planning

Proposed Project Information Report



Rezoning
Evaluation



Urban Plan
Visualization



Proposed Building
Evaluation



3D Basemaps



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GIS Technology as an Enabler

Various data formats for more holistic valuation

Flexibility of schema creation such as LADM

Supplement in-person assessment with GIS analysis tools

GIS as the technical foundation for more accurate 3D valuation

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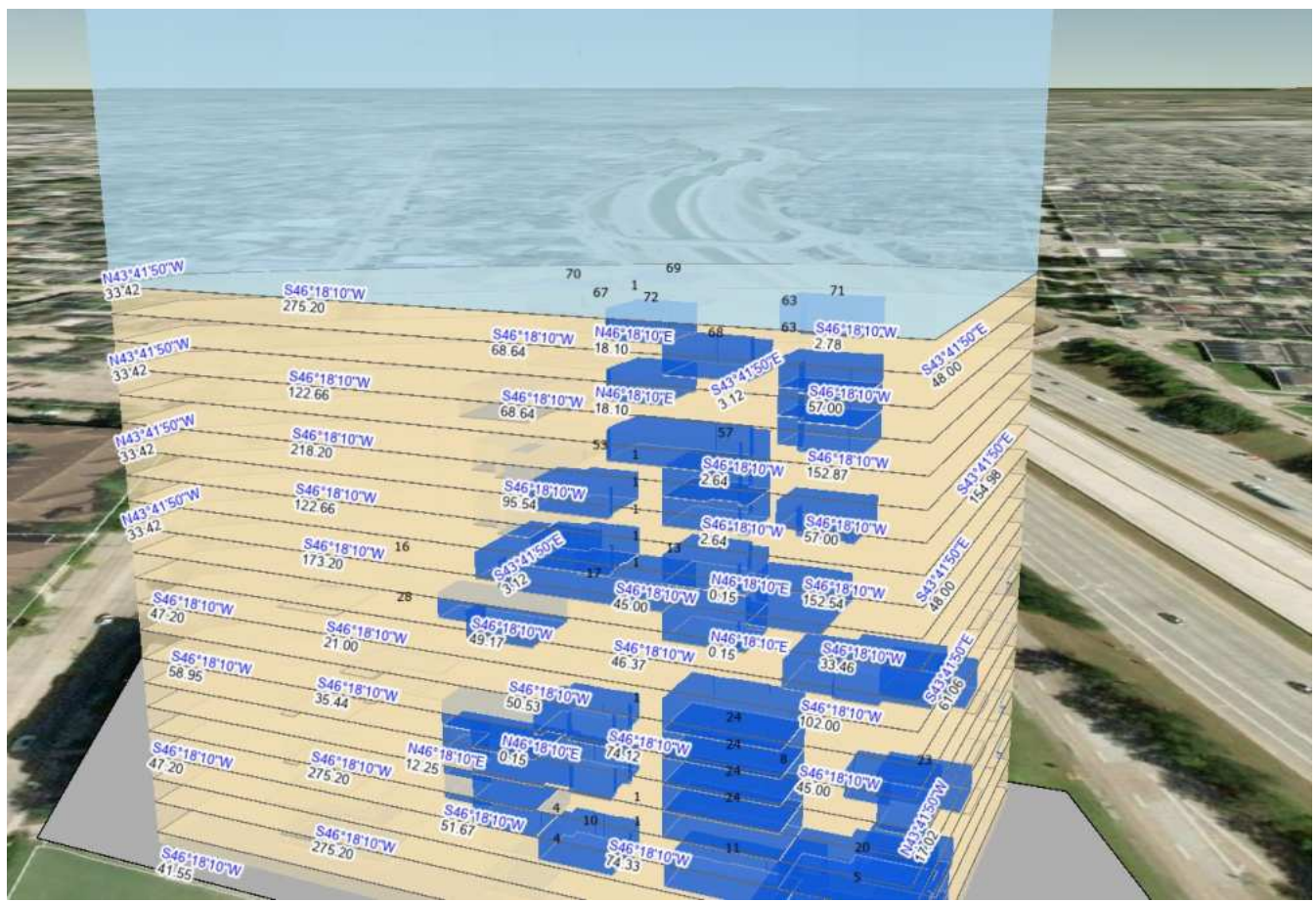
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GIS Technology as an Enabler



Houston, Texas, United States



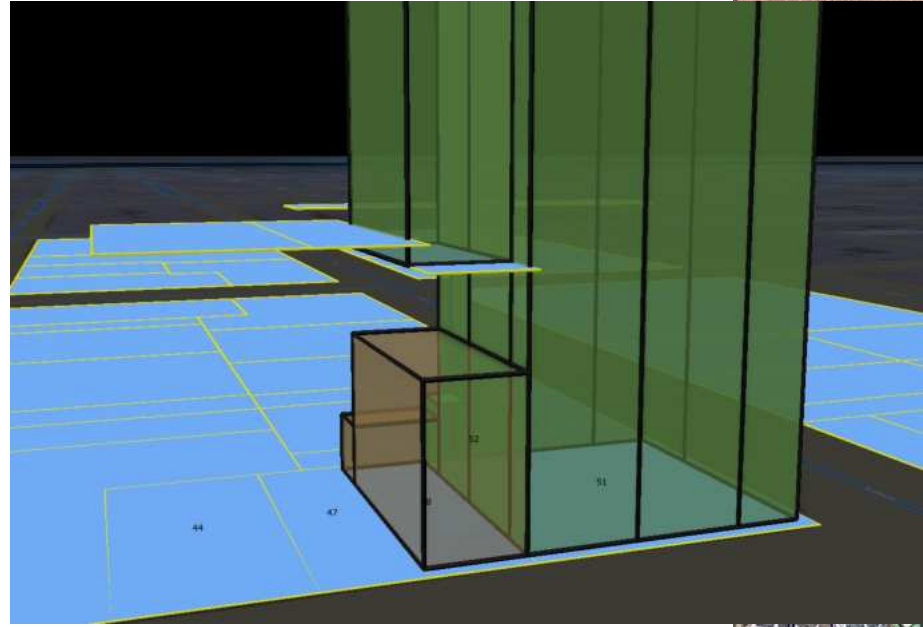
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GIS Technology as an Enabler



New York City, New York, United States



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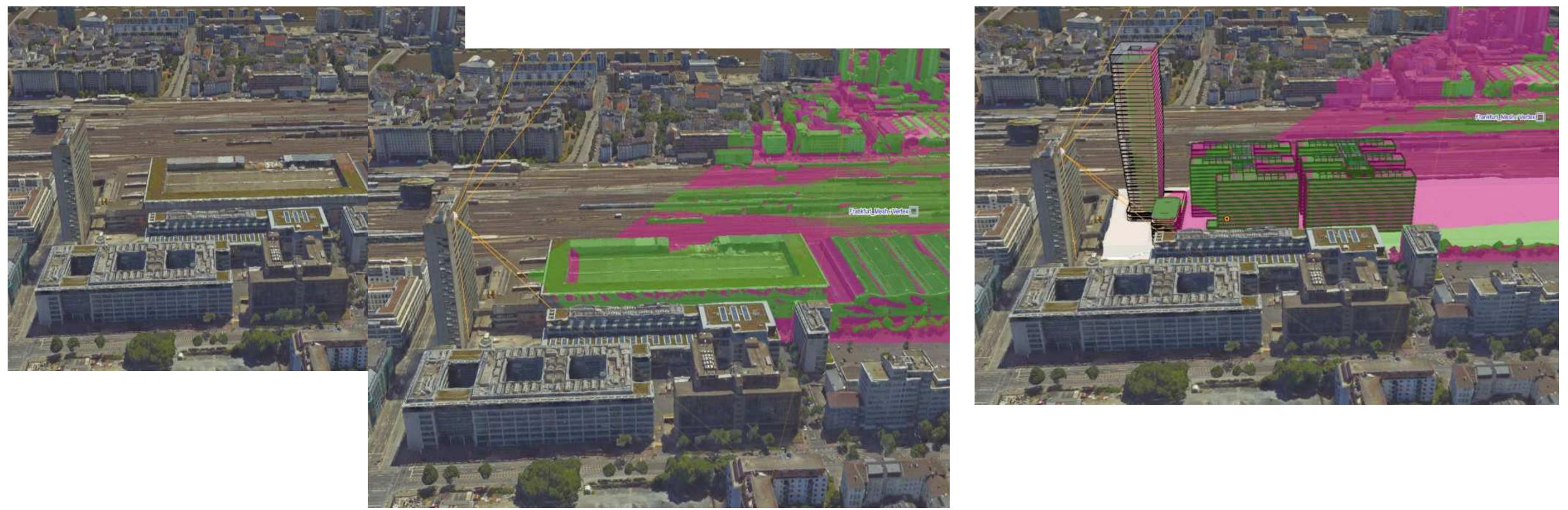




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Lasting Thoughts

3D economic cadastres can provide **better and more accurate valuation and urban and rural planning**

More precise real property valuation **can increase a government's tax-based capital**

Accuracy matters for increased and sustainable property tax revenue

3D cadastres allow governments to plan for a **more sustainable future by increasing the number of potential sources of tax revenue**

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Thank you!

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SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

Commission #7

Cadastre and Land Management

Commission #9

Valuation and the Management of Real Estate

Serving Society for the Benefit of People and Planet



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