



Engineering as a Service

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AEC Summit

Engineering as a Service

Defined as:

Extending your business via the Cloud throughout the Infrastructure Life Cycle

Goals:

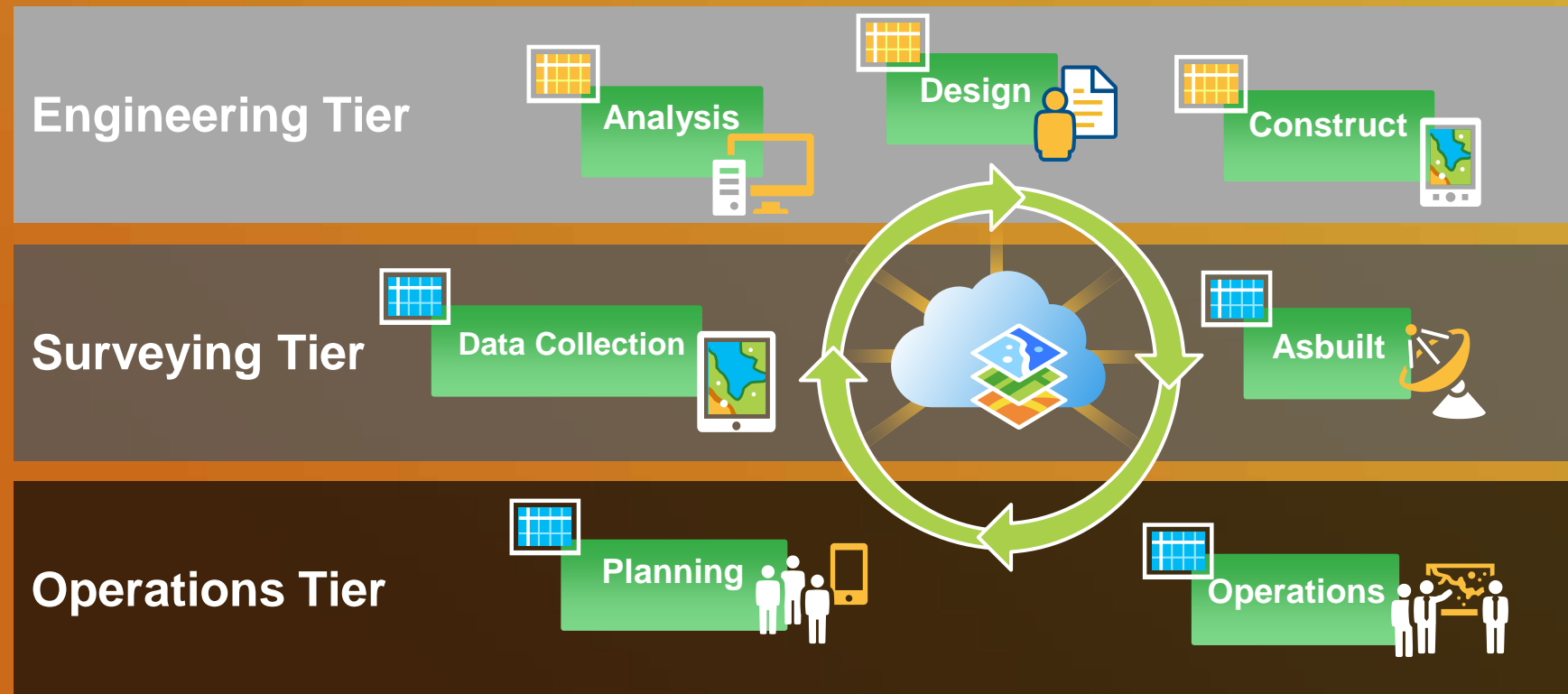
- Expedite the data gathering process during planning
- Increase design efficiency through enhanced collaboration
- Reduce construction change orders
- Provide the necessary operational information for decision makers
- Communicate more effectively with your clients and communities

Infrastructure Life Cycle

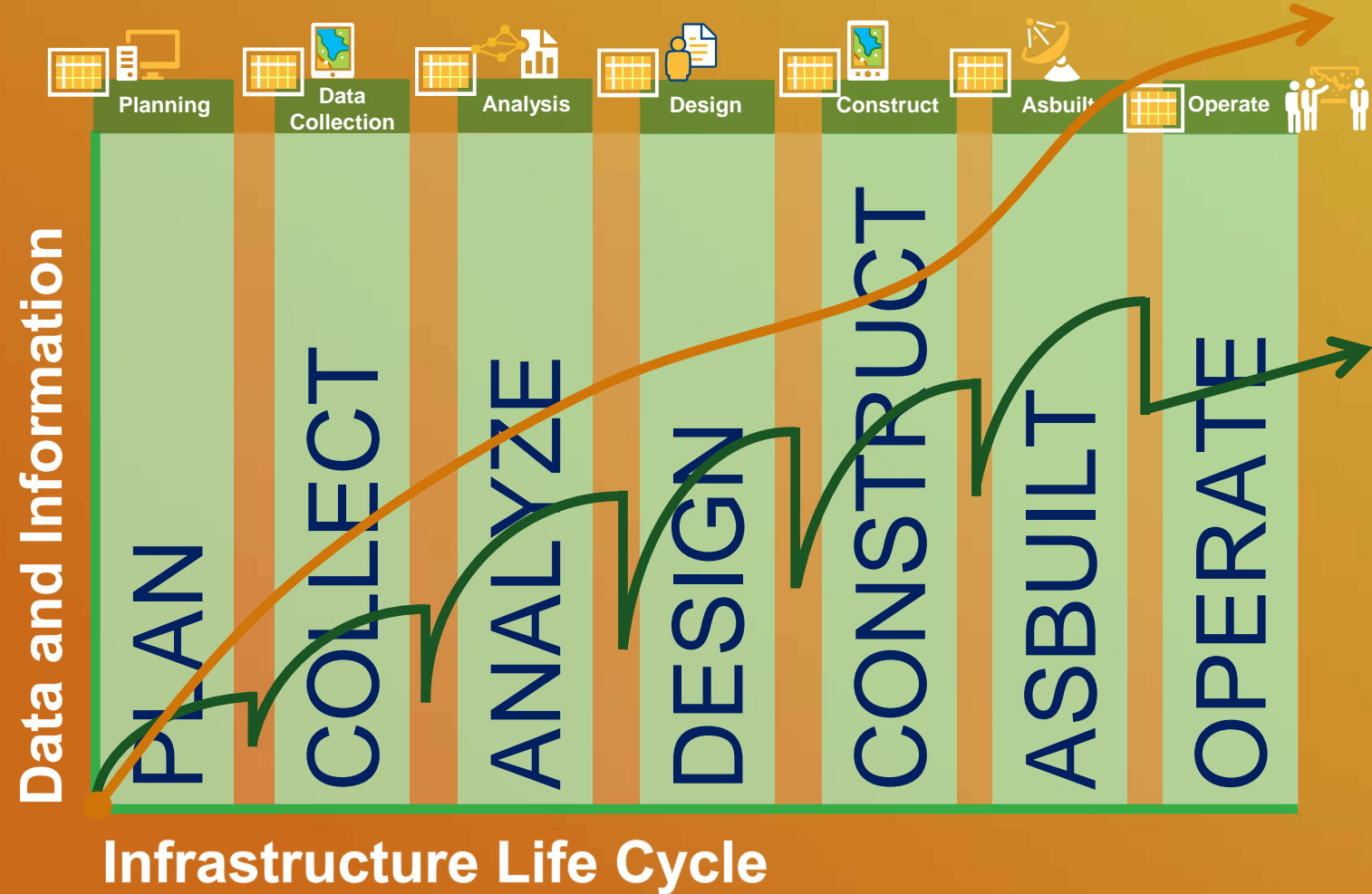


... The ArcGIS Platform supports the entire infrastructure life cycle

Infrastructure Life Cycle

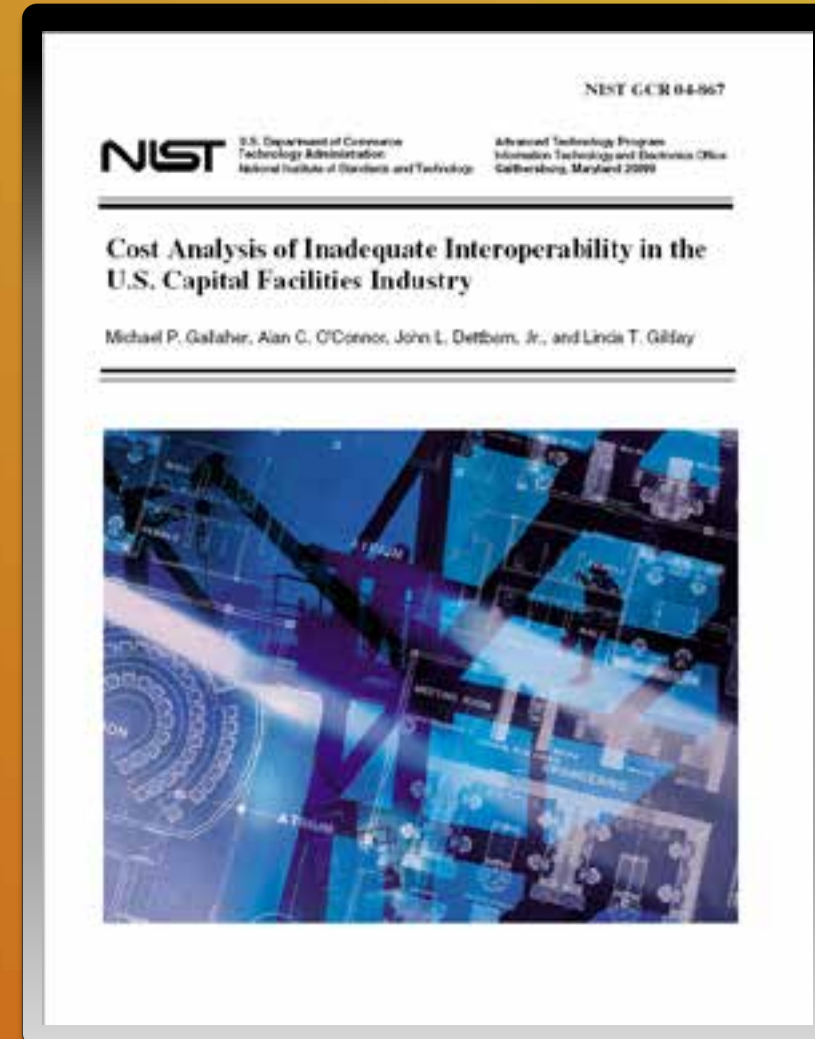


Organization-wide Data Management



Data Accuracy and Management

- **40-60% of Engineers Time** locating and validating information
- **20-50% Reduction in Project Delivery Time** with effective data and information communication
- **30% of Project Costs** is poor communication between systems
- **Save up to 14% of O&M Costs** with effective data management from the early project stages



The Forum for High Accuracy

July 12-15, 2014

Manchester Grand Hyatt

San Diego, CA

$$f(x, \beta) = \sum \beta_j \phi_j(x)$$

[Register to Attend >](#)

Welcome to the Future of AEC

You can take high accuracy to all levels of the infrastructure life cycle. Plan, design, build, and operate using the best data and maps possible. We show you how to achieve efficiency as well as consistency while you work to meet standards, prevent problems, and improve processes. It can be done. This is where you learn how to do it.



Keynote on UAS in America

Don't miss Keynote Speaker Billy Gilliland, president of General Atomics Systems



Technical Sessions

Take your data quality to new heights. Learn new technical skills to bring back to



Quick Links

- [2013 Proceedings](#)
- [Agenda](#)
- [Ask a Question](#)
- [San Diego Shortlist](#)

Download the App



The 4 myths that GIS is not Accurate

Data storage

- 10+ years ago à double precision storage

Curves

- 5+ years ago à arcs, not projected

Data collection

- 2+ years ago à survey grade partner solutions

Epochs

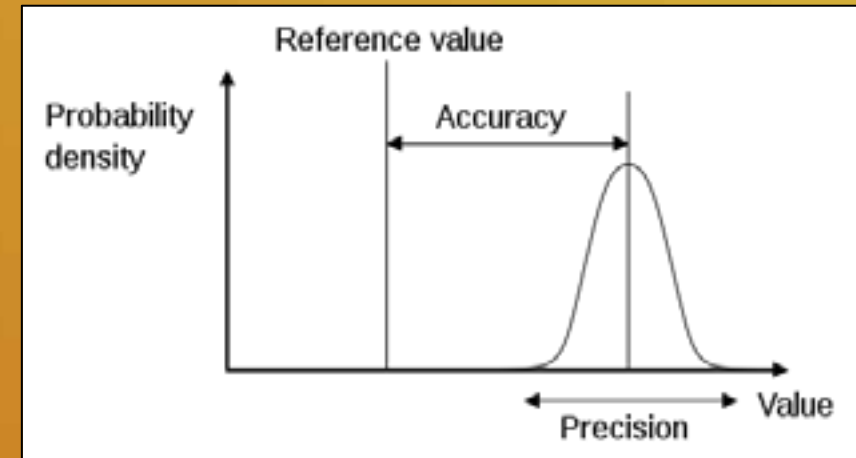
- Static, yes. Dynamic à working on it...

High Accuracy

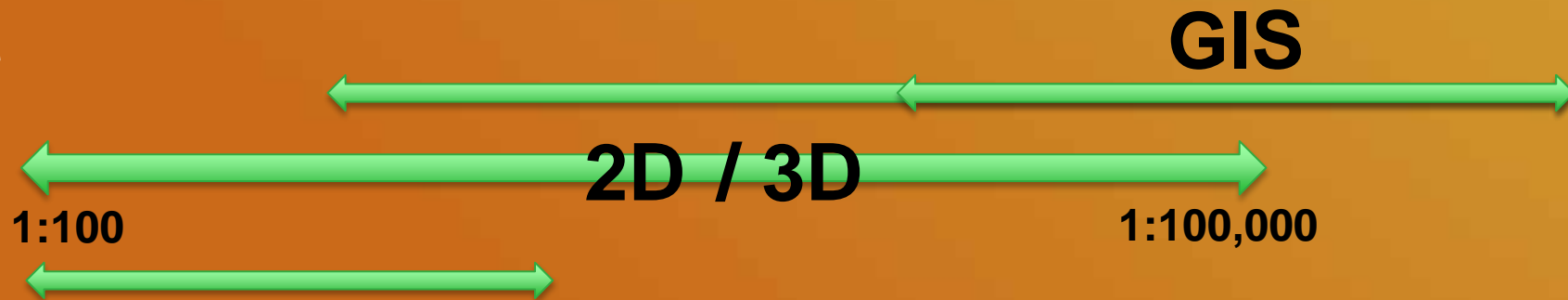
Accuracy vs Precision vs Tolerance

Absolute vs Relative

Page Space vs Real Space



Scale



Time

AEC Summit

PLAN

- Routing / logistics, datums, integration, people – DATA and the Cloud

DESIGN

- Urban design, DTMs, validation, geodesy – DATA and the Cloud

BUILD

- Construction management – DATA and the Cloud

OPERATE

- Asset management, condition, mobile, integration – DATA and the Cloud

. . . Engineering as a Service throughout the entire infrastructure life cycle





Understanding our world.