



# NBIM Testing Team

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# NBIM Testing Team

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- Role of NBIM Testing Team
- Current team membership
- Approaches to interoperability testing
- Cost model for testing



# Refinement of Initial Tasking of 1-1-2006

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- Testing is critical to the success of standards development efforts
  - Must have products implemented by multiple vendors
  - Demonstrate to potential users that the standard is sound
- Testing team tasks includes the following
  - Testing Process Guide - procedures for the testbed
  - Vendor Awareness - selection and seed funding for vendors
  - Identify Tests - specification refinement, demonstration scenario
  - Conduct Tests - client/server and demo integration testing
- Build on existing standards testing effort

# Current team membership

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- Percivall, George - OGC - Chair [gpercivall@opengeospatial.org](mailto:gpercivall@opengeospatial.org)
- Reed, Kent - NIST - Co-chair [kent.reed@nist.gov](mailto:kent.reed@nist.gov)
- Akin, Omer - CMU [oa04@andrew.cmu.edu](mailto:oa04@andrew.cmu.edu)
- Kimbrell, Bill - Woolpert [bill.kimbrell@woolpert.com](mailto:bill.kimbrell@woolpert.com)
- Marston, Hunter - AutoDesk [hunter.marston@autodesk.com](mailto:hunter.marston@autodesk.com)
- Ulrich, Tim - HOK [tim.ulrich@hok.com](mailto:tim.ulrich@hok.com)

Need to increase membership and hold first meeting



# Approaches to interoperability testing

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- IAI
  - BuildingSmart demo
  - Several excellent BIM's in place
  - IAI-NA may be planning a version for demonstrated in 2006.
- FIATECH
- OSCRE
- OGC Interoperability Program (IP)
  - Global, innovative, collaborative, hands-on engineering and testing program designed to define, document, and test draft specifications
  - Coordinate with OWS-4 Testbed focus on CAD/GIS/BIM integration

# Cost model for NBIM testing



- Scoping team - BIM Functional Views
  1. Client/Owner Business Drivers, Needs, Goals (green)
  2. BIM Planning Model & Scenario Based Planning (blue & green)
  3. Project Scope Model & Automated Design (blue)
  4. Project Decision Models & Automated Design (green & blue)
  5. Project Construction Coordination Model (blue)
- Cost estimate NBIM Testbed (based on OGC-IP)
  - Assumption: Testbed thread for each Functional View
  - Assumption: 4 servers and 2 clients for each view
    - total 30 implementations
  - Assumption: 1 testing report per view, 1 change request to NBIM data model per view; 4 service specs and 1 architecture report for testbed
    - total 15 reports
  - Assumption: Demo in DC with minimal participant travel
  - First SWAG: TBD



# Rough Schedule

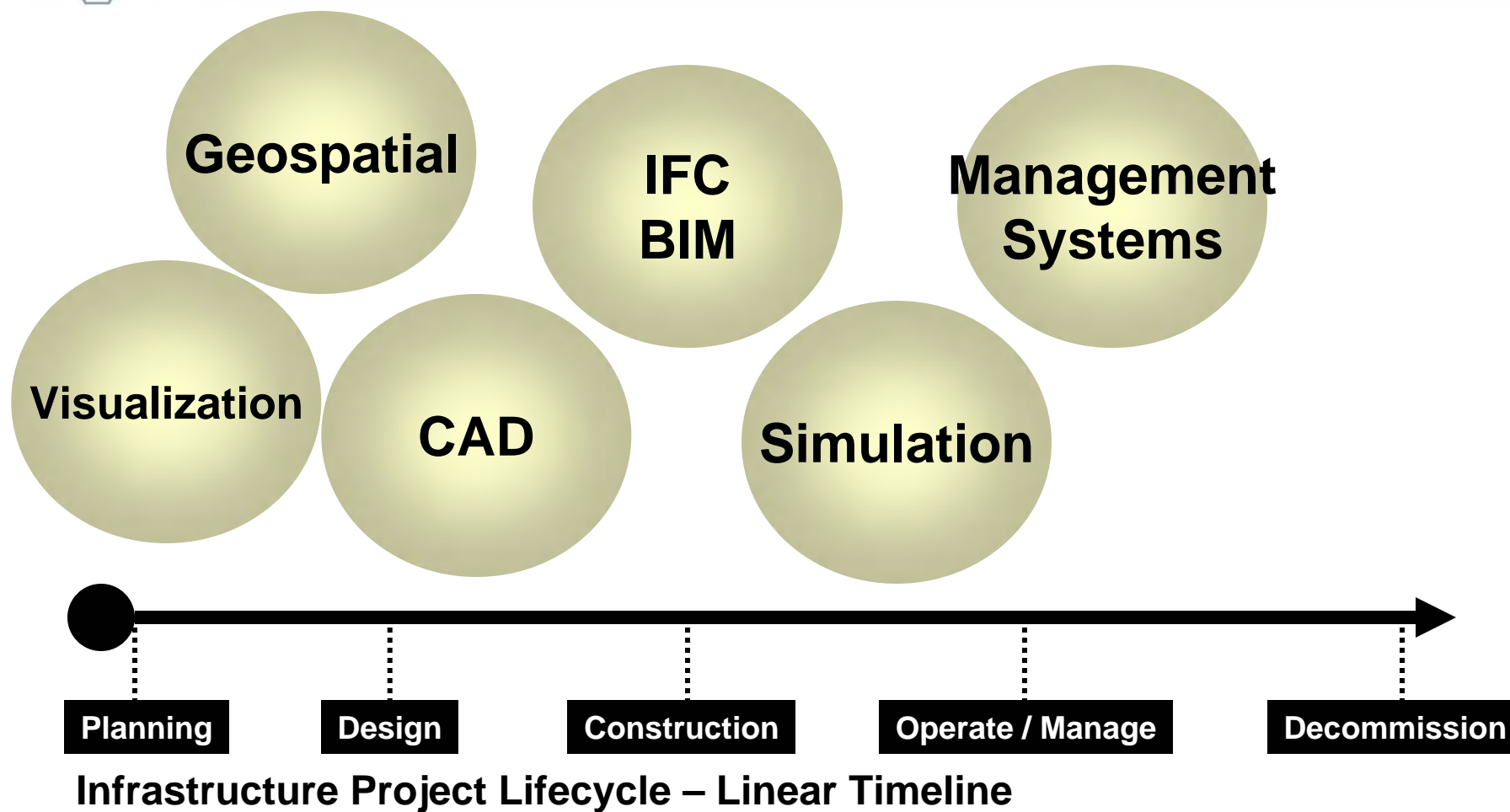
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- Requirement: “product” by the end of the year (Deke).
  - Product defined to be: testing complete; reports complete
- Rough milestones:
  - Mar Sponsor requirements
  - April RFQ released
  - May Participant Selection
  - May Kickoff meeting
  - June Interface Specification development
  - August Technical Interoperability Experiments (TIEs)
  - October Integration testing
  - November Demonstration
  - December Reports complete



# Backup slides

# OGC CAD/GIS Interoperability





# OWS-4 CAD/GIS - Concepts

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- CAD/GIS/BIM Interoperability framework
  - interoperability across the lifecycle of building and infrastructure investment: planning, design, construction, operation, and decommissioning.
- Information models and encodings
  - IFC: UML models for “things” occurring in the built environment
  - CityGML: A GML3 Application Profile for virtual 3D City Models
  - TransXML
- Service oriented architecture for CAD/GIS/BIM
  - BIM: ‘on demand’ generation of any required documents from an integrated and consistent model of the building project
- Navigation from GIS to CAD to GIS
  - Indoor Coordinates
- 3-D visualization: W3DS and WTS

# OWS-4 Initial schedule

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- October - OWS-3 IPRs identify next steps
- Nov - TC WGs requirements identification
- Nov/Dec - Contact sponsors, Call For Sponsors
- Jan - Sponsor meetings,
- Feb - Begin RFQ
- Mar - Release RFQ
  - (Mar - TC Huntsville)
- Six Month development cycle
- Oct - Demo