

# NBIM Testing Team

Presentation to NBIM Executive Committee,  
March 2006

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# NBIM Testing Team

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- Previous NBIM EXCOM Meeting
  - Briefing on BIM/CAD/GIS portion of OWS-4 Testbed
  - Discussion of testing NBIM draft in OWS-4
  - Consider joint NBIM-IAI-OGC testbed
- Recommended approach
  - Use OGC OWS-4 as baseline
  - Work to make OWS-4 collaborative with NBIM members for testing.

# Cost Estimate

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- The key thing to fund for testing is the test participants. In the February EXCOM meeting we discussed a joint testbed where the NBIM requirements can be added to the OGC Web Services Testbed, Phase 4 (OWS-4). This would allow the pooling of funds from several organizations into a testing process that will produce results before the end of the year.
- Assuming a collaborative testbed approach of OGC and other NBIM members, and assuming the sponsorship I anticipate from OGC members in OWS-4: we could produce tangible results with NBIM member funding of ~\$200K. The variation is tied to the number of participants and the deliverables (implementations, tests, reports).



# The OGC Interoperability Program

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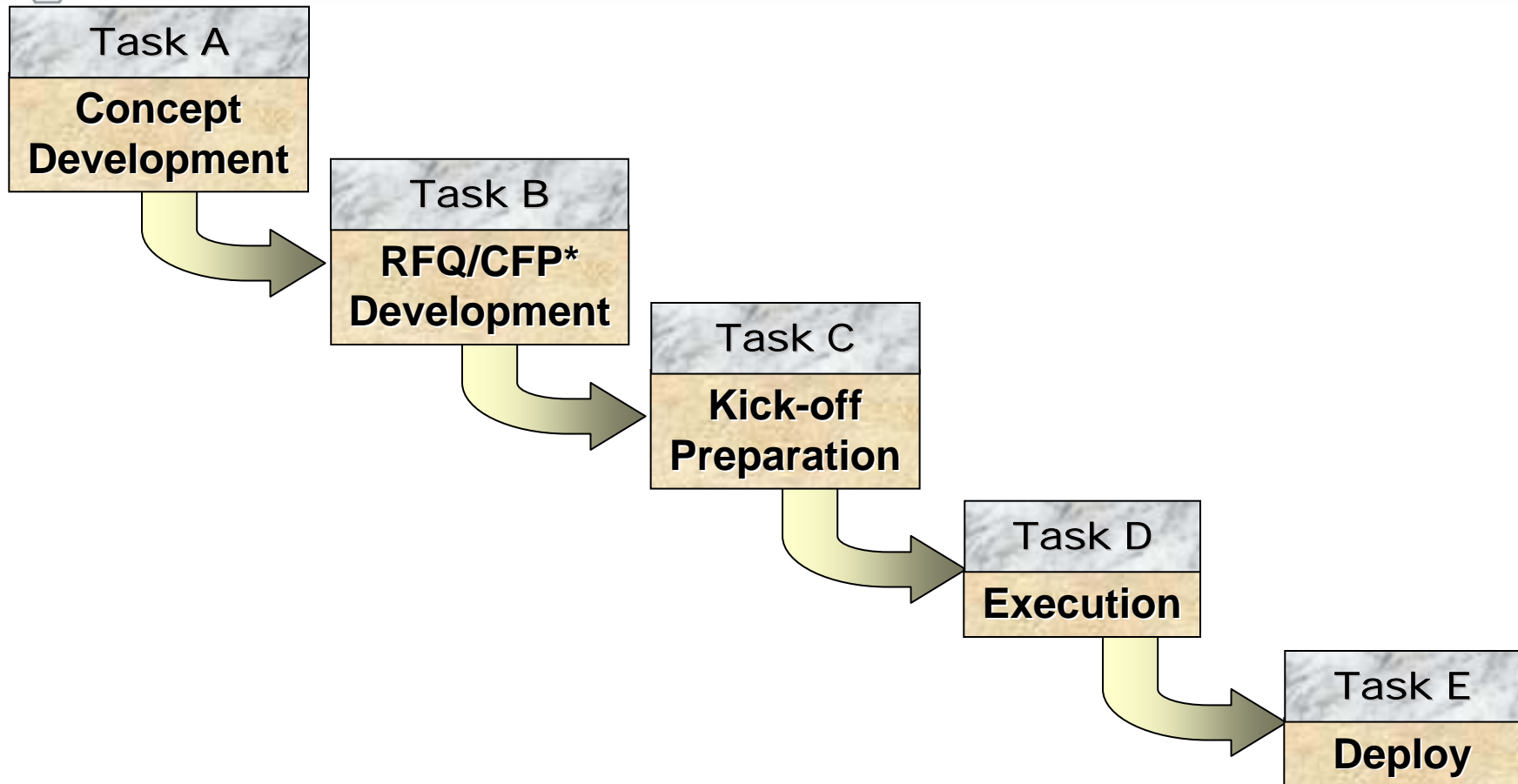
- Global, innovative, collaborative, hands-on engineering and testing program to draft and test specifications for consideration by OGC Technical Committee

*“Technology Incubator”*

- Results

- Industrial experience base established
  - Web Mapping Testbed, 1999
  - OGC Web Services testbeds
  - Several Pilot projects
  - Interoperability Experiments
- Surge in OGC Specification Program developments and Outreach Program based on Interoperability Program
- Business proposition: ~3 to 1 ROI on sponsor investment

# Testbed Approach



\*RFQ/CFP = Request for Quotation/Call for Participation

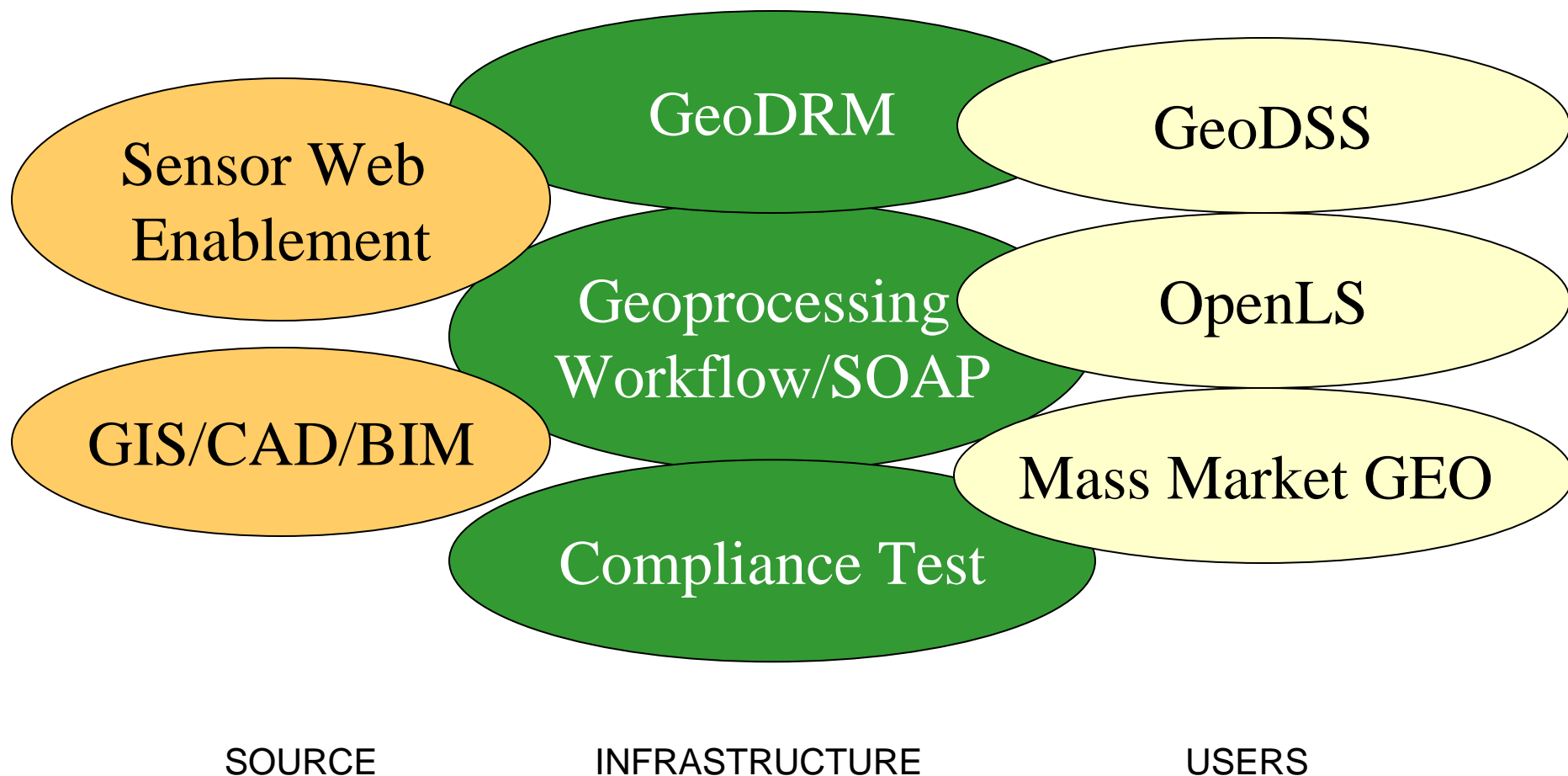
## OWS-4 Initial schedule

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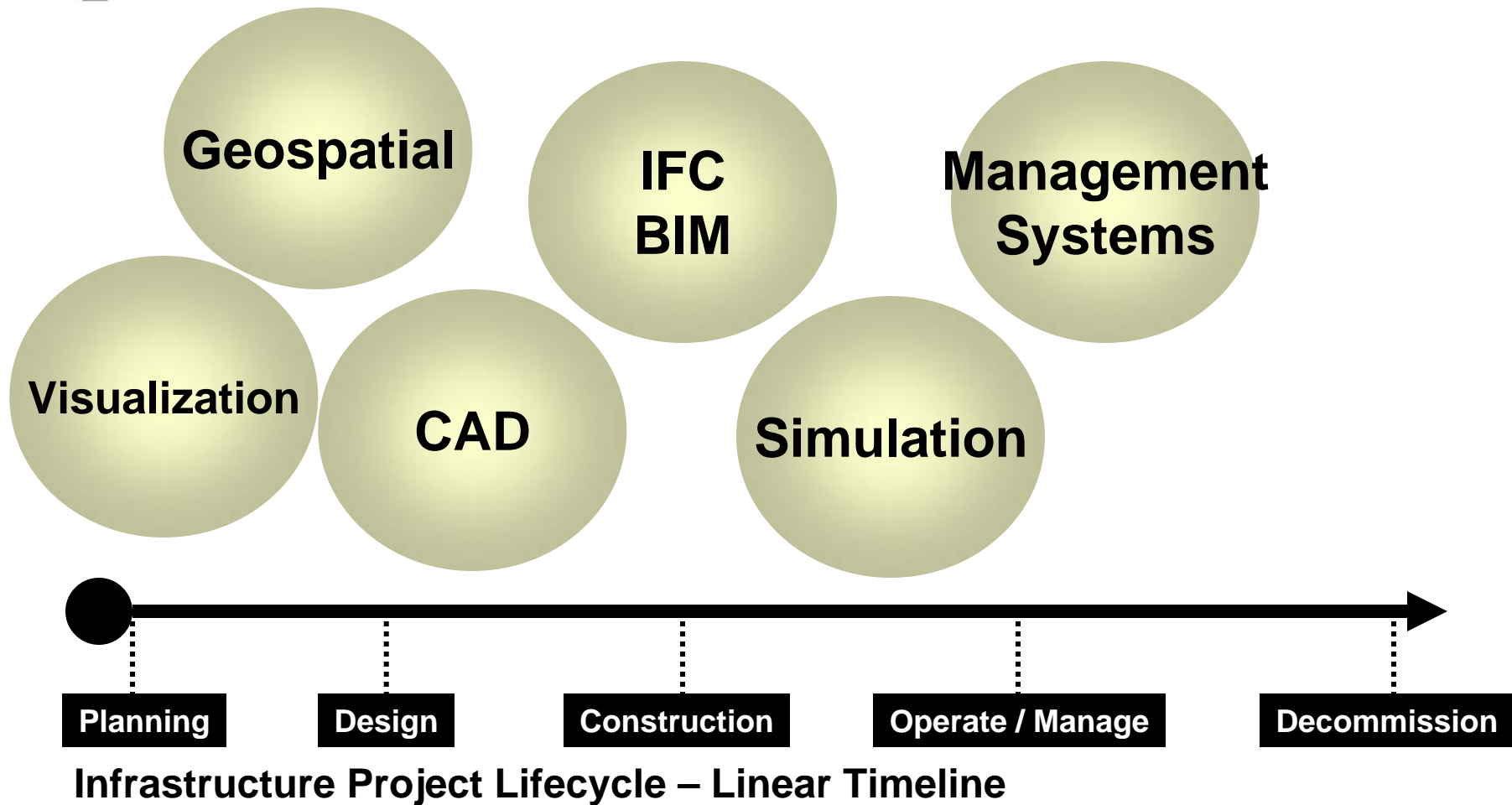


|                             |                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------|
| October                     | OWS-3 IPRs identify next steps                                                   |
| Nov/Dec                     | TC WGs requirements identification                                               |
| January                     | Call For Sponsors, Sponsor meetings                                              |
| February                    | Begin RFQ                                                                        |
| March                       | Sponsor Requirements Identification<br>(TC Huntsville)<br>Review and Release RFQ |
| Six Month development cycle |                                                                                  |
| October                     | Demo                                                                             |

# OWS-4 Potential Threads



# CAD/GIS Interoperability





# OWS-4 CAD/GIS - Concepts

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- CAD/GIS/BIM Interoperability
  - Interoperability across building and infrastructure lifecycle
  - Service oriented architecture for CAD/GIS/BIM
- Information models and encodings
  - **CityGML**: GML3 Application Profile for virtual 3D City Models
  - **IFC**: UML models for “things” occurring in the built environment
  - **TransXML**: schemas for exchange of transportation data
- Object modeling
  - CAD space assessment
  - 4-D for construction
- Use cases (update with CAD/GIS WG progress)
  - Navigation from GIS to CAD to GIS
  - Indoor Coordinates
  - 3-D visualization: W3DS and WTS