

Driving Standardization

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Why Standardize?



- Need for commonality
- What drives standardization?
 - Technical vs. Marketplace Drivers
- Advantages of commonality and technical feasibility can be at odds with marketplace timing
 - Major stakeholders may have no desire or motivation to standardize until the marketplace demands it
- Genuine standardization will occur when all of these conditions are met

A Case Study: HPC Basic Profile



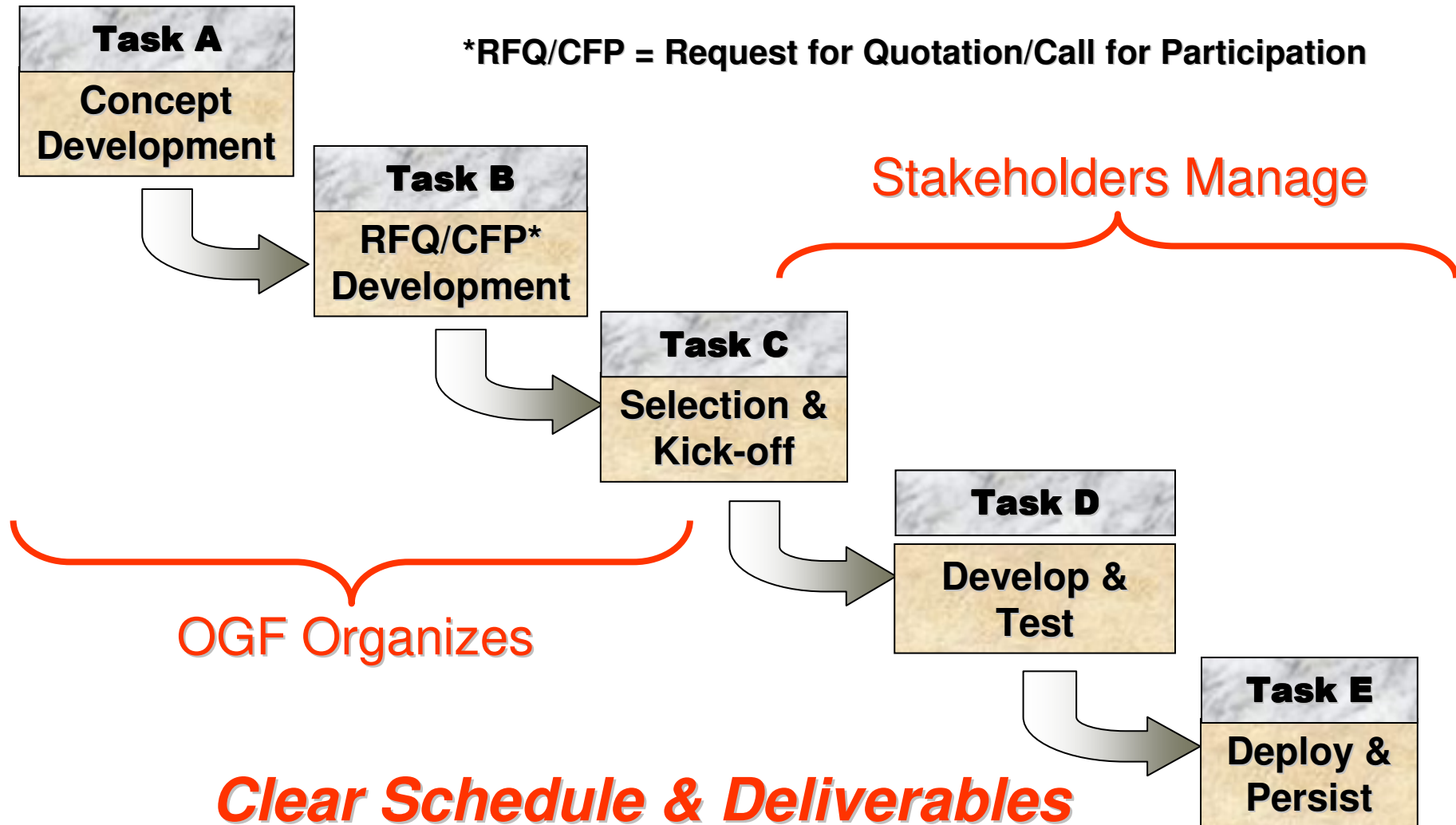
- 2006
 - Key stakeholders decided to demonstrate interoperability between their existing job submission infrastructures
- November 2006 (SC06)
 - Prototype implementations demonstrated
- 28-August-2007
 - HPC Basic Profile, Version 1.0
 - <http://www.ogf.org/documents/GFD.114.pdf>
- November 2007 (SC07)
 - Interoperability demonstrated by Altair, MS, Platform, OMII-UK, UVa, EGEE, OMII-Europe
- 21-February-2008
 - Interoperability Experiences with HPCBP, Version 1.0
<http://www.ogf.org/documents/GFD.124.pdf>
- *Commercial adoption plans by Platform, MS & Altair*

How to “Bottle” this Process??



- Build Critical Mass of Key Stakeholders to Agree on:
 - Clear Goals
 - “Time-Box” the Process (clear schedule)
 - Properly Provision the Effort

A General Process Model



Return on Investment



- What is the “carrot” to build the critical mass of stakeholders?
 - **ROI**
- Investment
 - Time, Money & People
 - Both Monetary and In-Kind (labor & materials)
- Stakeholders benefit from *collaboration*
 - *Get more than they put in*
 - Get early influence in specification development, early skills building, visibility, and opportunity for early market deployment of standards

Questions:

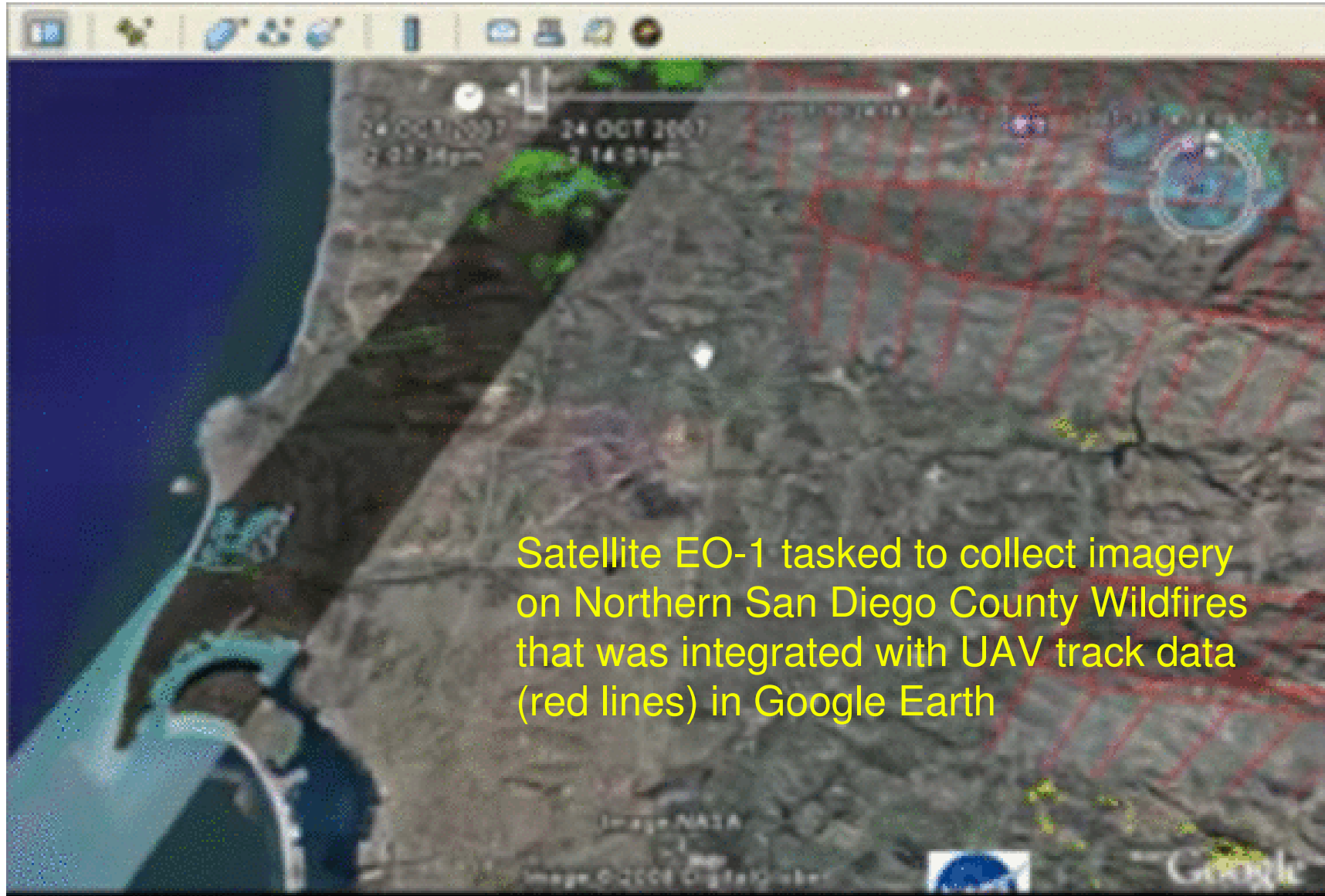
- Is this a desirable “business model” for OGF?
- Can we “turn the crank” to make this happen on a routine basis?
- Can we find those key projects, build critical mass, and effectively execute?

A Case Study: OWS



- The Open Geospatial Consortium (OGC) Web Services (OWS) Testbed is a (roughly) annual effort whereby sponsors can define focused, near-term projects to achieve key technical developments
- OWS-5 Statistics:
 - Multiple technical “threads” around important topics
 - 7 Sponsors, 35 participants
 - 52 Components, 24 reports, 13 demonstrations
 - \$1.2M sponsorship, \$4M in-kind contributions
 - 3.3x ROI
- *OWS-6 is in the planning stage*
 - *Key opportunity for the grid and geospatial communities to engage on critical topics*

OWS-5 Example: NASA Sensor Web Demo



Satellite EO-1 tasked to collect imagery on Northern San Diego County Wildfires that was integrated with UAV track data (red lines) in Google Earth

Conclusion



- Issues:
 - Building critical mass of key stakeholders
 - Clearly identifying schedule, goals, and responsibilities
 - Properly provisioning the effort
- This process could actually be used to drive
 - Best practices
 - Standards
 - Interoperability testing
- Could also be used to drive "concertation"
- Possible "business model" for OGF!
- Contact me: lee@aero.org