

Notes from workshop

Name:

- PRISM – private investigation satellite module

Functionality

- Subscription for imagery (\$cost per minute) – provided as service
 - App for i-phone, PALM-PRE
 - Available via internet
- Available to law enforcement, private investigators, and others with money

Commercial Imagery Satellite

- Visual range
- Spacecraft (on-orbit container)
- Launch – vehicle and facility and control functions
- Control – ground control – C&C of vehicle
- Ground terminals (receive and handle data, user interface)
- On-board pre-processing
- Analysis functions (on ground)
- Sensors – payload
- Geo-synchronous
- Test segment
- Controlled re-entry for disposal

To Do:

- Architecture (product)
 - Components
- Functional description

May use a prime integrator, or may act as prime integrator

Constraints:

- Fixed budgets - \$300
 - Design to cost (PESHE – program environmental safety health evaluation)
- Use lots of COTS
- Covers all States – CONUS
- 10 year life
- Proof of concept
- Launch window – 3 years

- Security and encryption

Phase 1a:

- Figure out basics
- Pick prime integrator
- Acquisition strategy
- Timeline
- Needs statement (input)
- WBS
- Cost estimates (for both project office and system)

Work products

- Project management plan
- ICE (for each segment, overall, project office)
- RM plan
- SE plan
- T&E strategy
- Acquisition strategy
- Acquisition plan (for each segment)
- Needs statement
- Logistics plan?
- WBS for acquisition office
- Charter (SOW for acquisition office)
- Peer review plan

Phase 1b:

- Building architecture and functional descriptions
- Top-level requirements
- WBS (update)
- Develop cost estimates by segment

Work products

- Technical requirements document
- System specification
- System architecture (operational view)
- ConOps
- WBS for system (minimum of level 3)
- Draft Integrated Master Schedule (IMS) and Integrated Master Plan (IMP)

Phase 1c:

- Project office activities – RFP developed and released

- PO – update system cost estimates

Work products

- SOW / SOO
- Selection / Evaluation Criteria
- CDRL
- Funding profile
- Supplier performance management plan
 - Information needs and measures

Issues:

- Staffing plan – SMEs, skills, turnover
- Budget vs. estimate
- Requirements: definition, stability, scope
 - Technology Readiness Level – maturity
- Supply chain issues - vendor availability / capability
- Process capability, PMO maturity
- Facilities / Infrastructure
- Political environment
- Market environment
- Prime integrator – when?
- Info need change due to authority
- Volatility
- LCC completeness / BOE
- Early estimation / don't have full scope
- "Right" expertise
- Sustainability (ilities)
- Prototype => Operational
- Marketing, Socialization
- "Trust"
- Confidence of Estimates
- Contingency Plan(s)
- Exit Strategy
- Interfaces
- Insurance

Lessons we want them to get:

- Left-shift identification of issues
- Awareness of uncertainty / risk – understand how to handle it
- Understand benefit of cost estimating and need to update estimates as things change

- Understanding of capability of program offices and what they should address
- Measurement allows better informed decision-making

History

- Mature PMO
- Domain expertise
- New: real-time, geo-synchronous
- Some limited historical data

Next steps:

- All to look for sample architecture diagrams – July 09
- All to look for sample information needs – measures – indicators – July 09
- Early FY10 – review materials and begin development
- Draft by April 2010 - send for review
- Workshop at UG2010 to finalize

Participants:

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