

Quality Assurance

Software Test
Engineering

Independent
Verification
and Validation

Performance Testing

ITA Voting

Systems Certification

We Need A Smarter IV&V

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Where Are We Today?

➤ Problems

- Budget Overruns
- Scope Reductions
- Schedule Slippages
- Serious Quality Issues
- Cancelled Projects

➤ **Headlines!!!!**

➤ Causes

- IV&V Involved Too Late In Process
- Contract In Place With Prime Vendor(s)
- Limited IV&V Responsibility
- State Doesn't Manage Risk Effectively
- Others?

Solution

Look to IV&V As -

- A Strategic Partner to Manage Risk
- New Roles and Responsibilities
- Proactive Expertise
- Outsource Key Efforts
 - Expertise
 - Experience
 - Staff Availability

Sample Solutions

- *Readiness Assessment*
 - Are You Ready to Undertake This Project?
 - **Do You Own The Processes?**
 - What Processes?
 - Requirements Management
 - Change, Issue, Defect Management
 - Electronic Project Library
 - Configuration Management
 - Support Tools Housed in State

Sample Solutions

- *RFP, Proposal and Contract Support*
 - RFP
 - Be Precise, Be Specific
 - Clear Definition of Expectations
 - Contractual Precedence
 - Pre-Defined Acceptance Criteria
 - Lots more
 - Proposal: Facilitation, Coordination
 - Contract: Protect the State's Interests

Sample Solutions

➤ *Testing*

- Outsource The QA And QC Efforts
 - Prime Vendor
 - Unit And Low-level System Test
 - Appropriate Pre-Defined Exit Criteria
 - IV&V Vendor
 - System/Integration Test
 - UAT
 - Independent Quality Assessment
- Offsite Testing Support
- Real Independence

Summary

- IV&V As A Strategic Partner
 - Readiness Assessment
 - RFP, Proposal & Contract Support
 - Independent Testing & QA
 - Much, Much More

