Acquisition and the CMMI<sup>SM</sup> - An Update

A Presentation to the
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and User Group
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Track 6 – CMMI Extensions

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System Engineering in Evolutionary Acquisition is a team effort involving:

- The Sustainers
- The Users
- The Sponsors
- The Testers
- The Contractors
- The Acquirers

Additionally, there are also:

- Additional Needs
System Engineering in Evolutionary Acquisition needs…
Why are the contractors …

the only team member required to have System Engineering processes?
This is a familiar industry tune...
The rest of the players need system engineering processes too...
And an integrated set of processes for the team …

Would be even better
At the first CMMI Conference in 2001...

I recommended a process sharing concept for CMMI
At the second CMMI Conference in 2002...

Jack Ferguson and M. Lynn Penn showed us their new math*

\[
\begin{array}{c}
4 \\
\times 1 \\
\end{array} \neq 4
\]

Case 4 - Mature Developer and Immature Acquirer

*New CMM Math
Jack Ferguson – SEI and M. Lynn Penn - Lockheed Martin M&DS
CMMI Conference 14 November, 2002
In March 2003, DoD Issued a memo stating…

“Section 804 of the Bob Stump National Defense Authorization Act for Fiscal Year 2003 requires the establishment of software acquisition process improvement programs by Military Departments and those Defense Acquisition Agencies that manage Major Defense Acquisition Programs (MDAPs) with a substantial software component…”
In February 2004, The CMMI-AM is published...
Over this period of time…

We have matured our System Engineering process approach for the Air Force Electronics Systems Center
We are building a set of Government System Engineering Core processes based on the CMMI
We expect our contractors to have mature System Engineering processes based on the CMMI

Integrated Product and Process Development

Capability Maturity Model - Integrated
Post award we expect an integration of System Engineering processes based on the CMMI and IPPD.
Over the System Life Cycle We Should Assess the Process Maturity of the Project Team