

Practical Software and Systems Measurement

Practical Software and Systems Measurement

A foundation for objective project management



***PSM Additional
Implementation Guidance
Workshop
PSM Users Group Conference***

***Department of Defense
U.S. Army***

Practical Software and Systems Measurement

Workshop Title

- ***PSM Additional Implementation Guidance***
- ***Workshop Facilitator***
 - ***Tom Majewski, Distributive Software***
 - ***Tom@distributed.com***

Objectives of the Workshop

- ***Share PSM experience and knowledge***
 - ***Implementation of a measurement process***
- ***Review/Discuss***
 - ***PSM Guide Comments Pt 6: Implementation***
 - ***Distributive Software 3-Phase Implementation Plan***
 - ***Participant Implementation-related Questions and Problems***

Workshop Format

- ***Agenda - Review/Discuss***
 - ***PSM Guide Comments Pt 6: Implementation***
 - ***Distributive Software 3-Phase Implementation Plan***
 - ***Participant Implementation-related Questions and Problems***
- ***Techniques that will be used***
 - ***Knowledge Management***
 - ***Enterprise Resource Planning***

Practical Software and Systems Measurement

Workshop Background

- *PSM history in this area*
- *Industry/Government history in this area*
- *Where we're heading*
- *Issues, questions, and topics*
 - *Answers*
 - *Effective solutions*
 - *Results*

Focus on what we can do now

Intended Output

- ***White Paper***
 - ***Measurement Process Implementation***
 - ***Best Practices and Lessons Learned***
- ***PSM Implementation Plan***
 - ***Template***
 - ***Guidance***

Practical Software and Systems Measurement

Workshop Participants

- ***Margaret Adcock, USN Acq. Reform***
- ***Wael Amin, IT Worx***
- ***Tom Davis, HQ USAF Air Mobility Cmd.***
- ***David Magidson, TACOM/ARDEC***
- ***Andre Marcotte, Lockheed Martin Canada***
- ***Kevin Richards, USAF/STSC***
- ***Aaron Silver, Raytheon***



Practical Software and Systems Measurement

Restatement of Objectives



Practical Software and Systems Measurement

Summary

- ***TBD, Workshop Results***

Conclusions, Recommendations, and Results

- ***TBD, Workshop Results***

Practical Software and Systems Measurement

Next Steps/Action Items

- ***TBD, Workshop Results***



Practical Software and Systems Measurement

Backup Slides

Enterprise Architecture

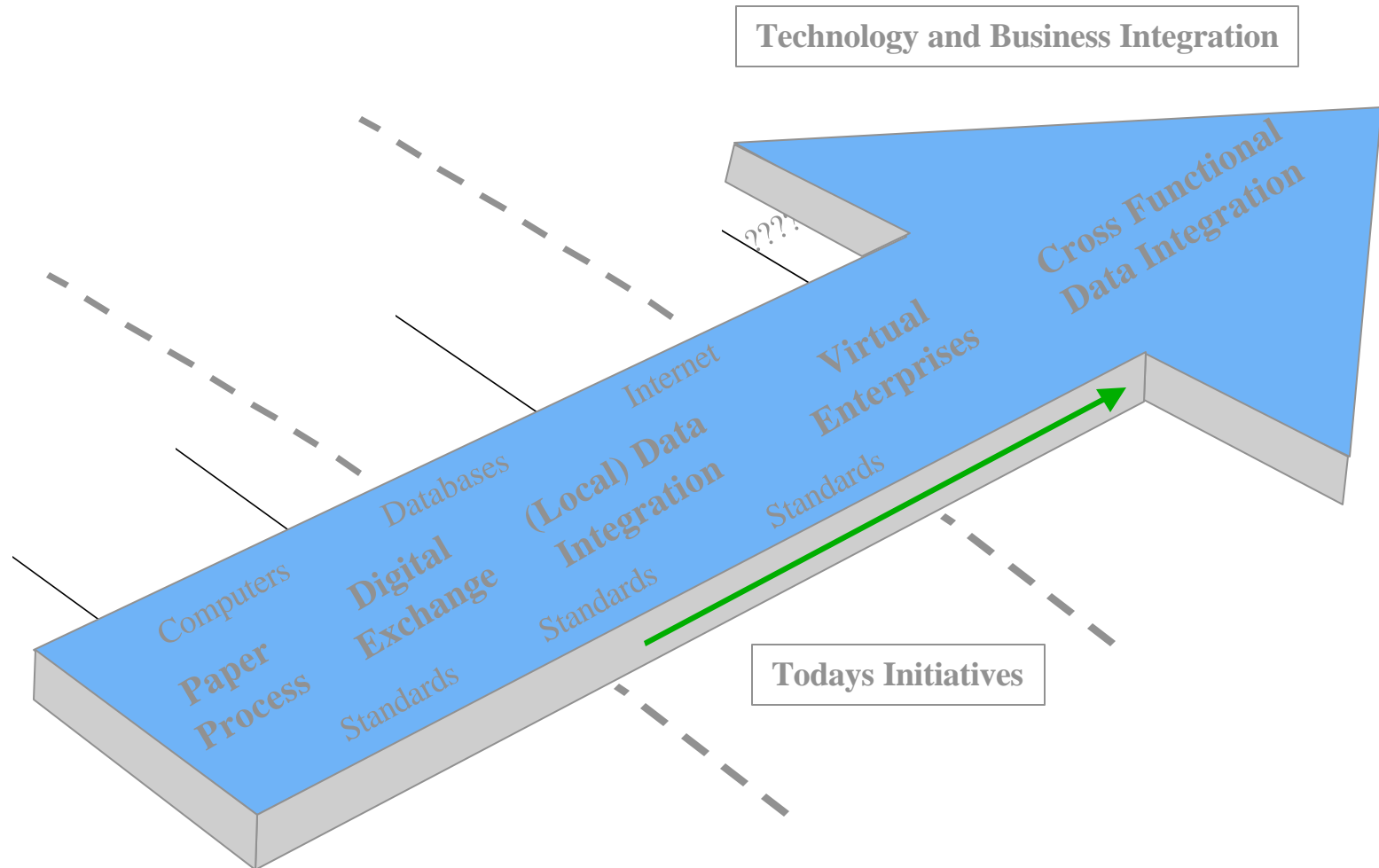
- ***Operational Architecture (OA)*** is the total aggregation of missions, functions, tasks, information requirements, and business rules
- ***Technical Architecture*** is the “building codes” upon which systems are based
- ***Systems Architecture*** is the physical implementation of the OA, the layout and relationship of systems and communications

IDE Requirements

- *A well developed operational architecture*
- *An up-to-date and constantly evolving technical architecture*
- *A fully implemented communications infrastructure*
- *A systems architecture which provides:*
 - *An interface to legacy systems*
 - *Scalability*
 - *A shared data environment*
 - *Protection of data*
 - *Platform independence*
 - *A common desktop environment*
 - *Concurrent work processing*
 - *Digital exchange of all data*

Practical Software and Systems Measurement

IDE Evolution



Practical Software and Systems Measurement

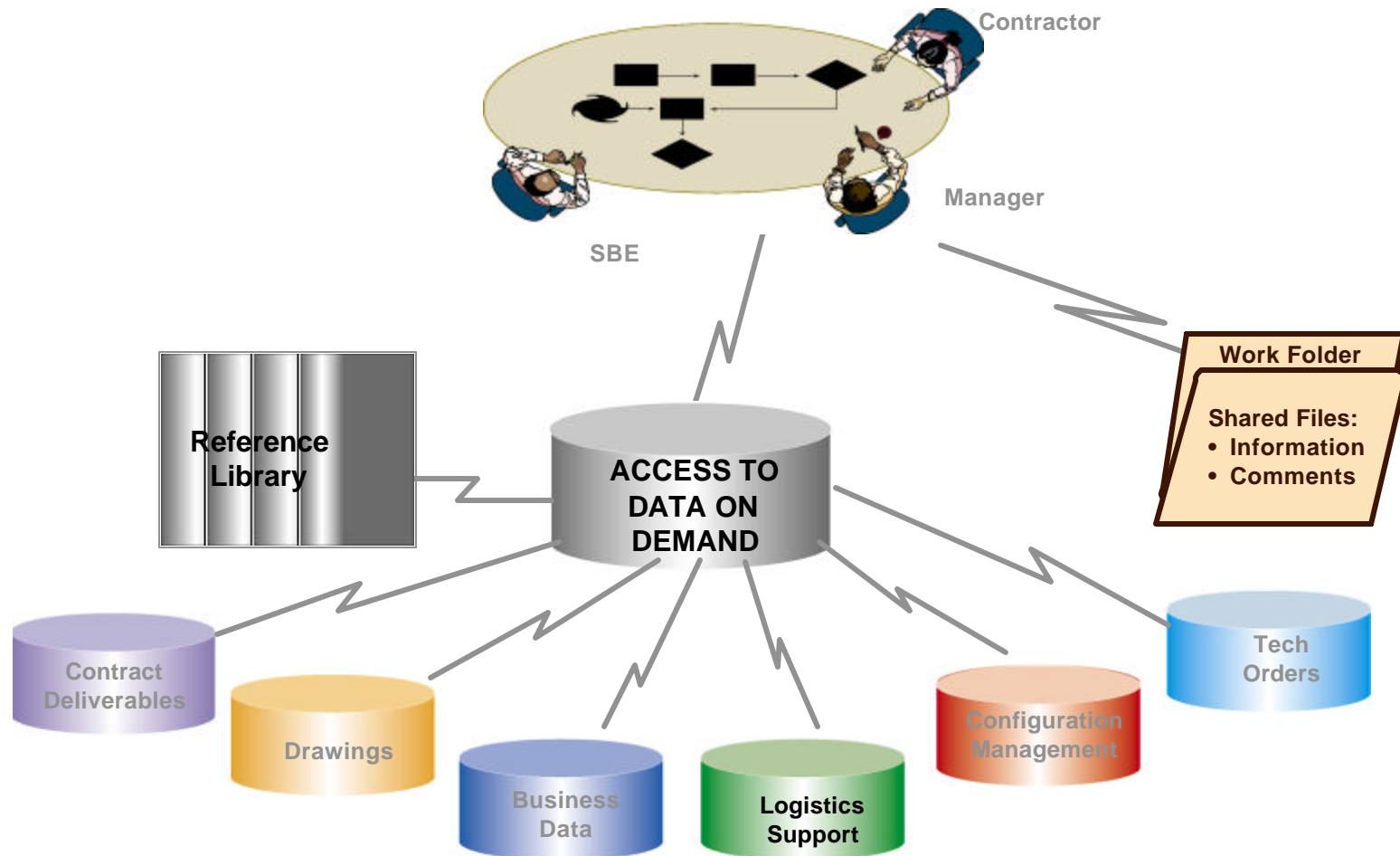
What is IDE?

- ***Data Structure***
 - ***Logically Linked***
 - ***Physically Distributed***
- ***Shared Data***
- ***One or more systems***
- ***Technical & business information***
- ***Readily accessible***
- ***Real-time environment***
- ***Available to all participants in system life cycle process***

**Data...Anywhere, Anytime, to Anyone
who is Required to Access it.**

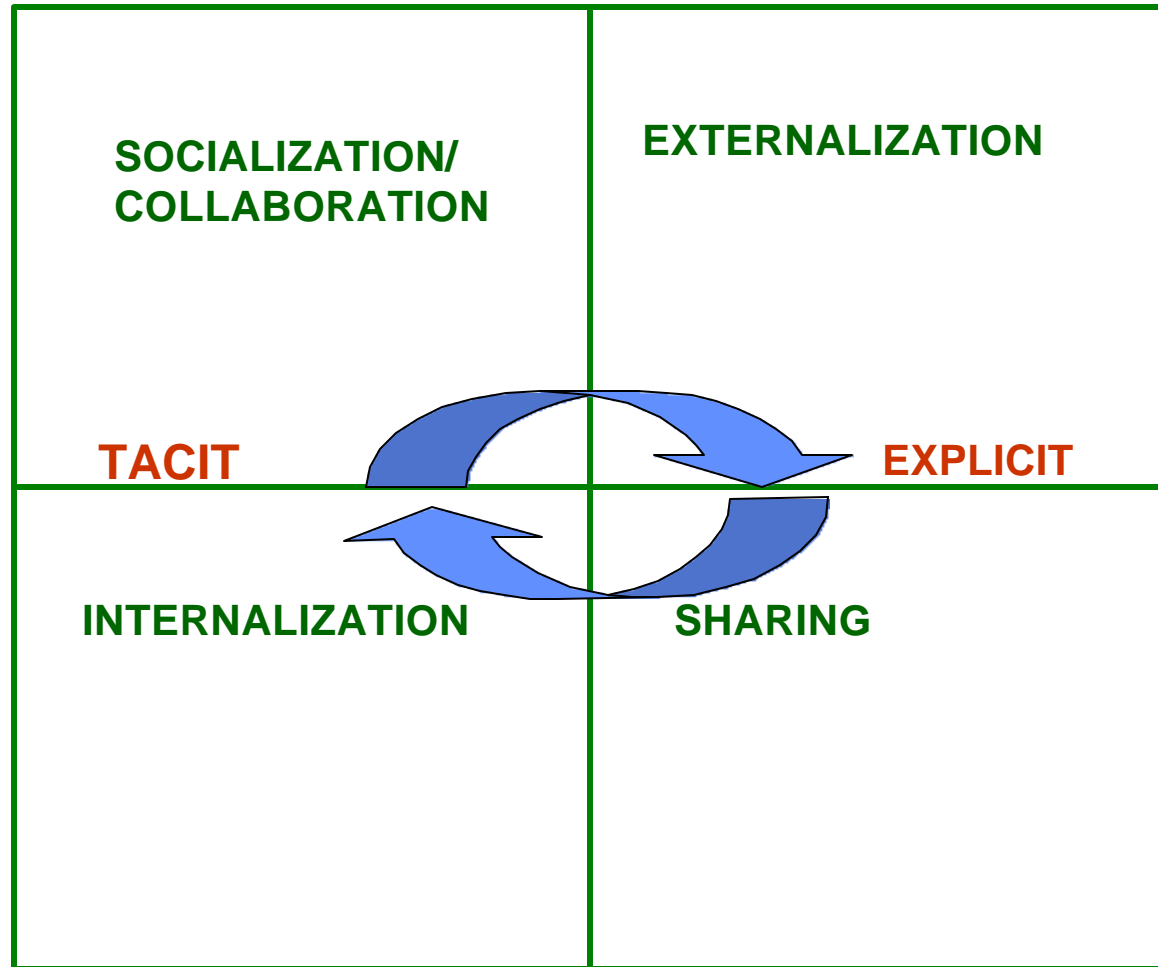
Practical Software and Systems Measurement

Representative IDE



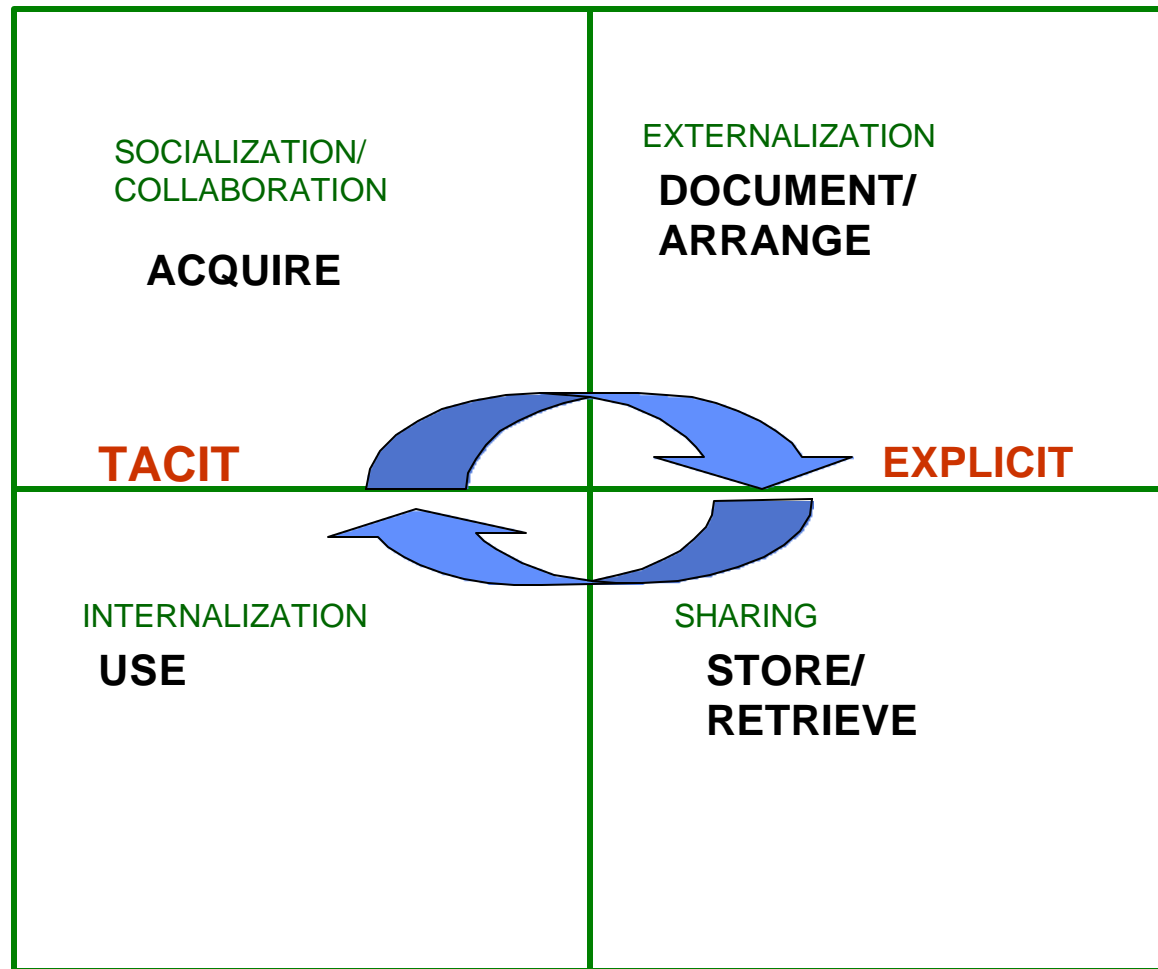
Legacy system integration is a key

Practical Software and Systems Measurement



KNOWLEDGE CYCLE (Nonaka)

Practical Software and Systems Measurement



INFORMATION MANAGEMENT (Casey)

Practical Software and Systems Measurement

Telephones

VTC/PicTel

Netmeeting

White
Boards

Group
Support
Systems

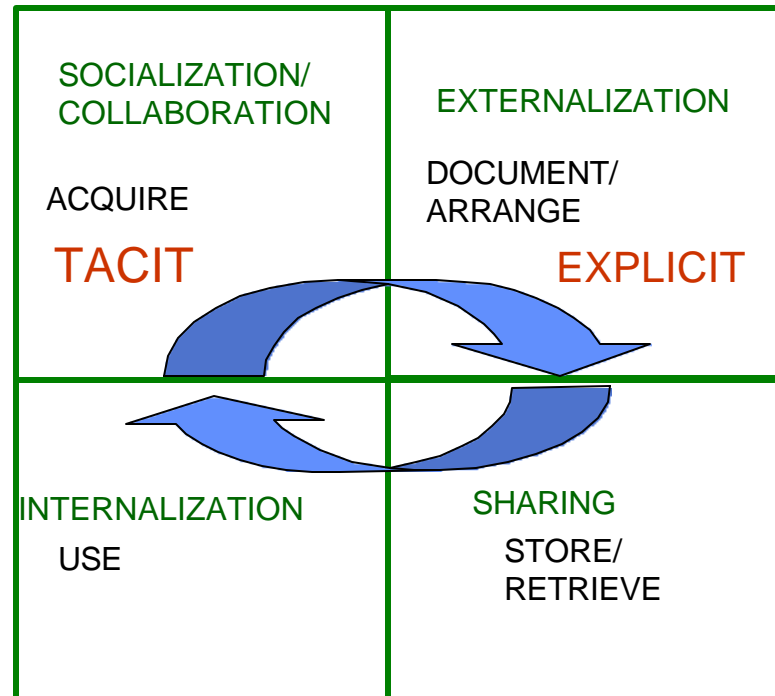
CBT

Distance
Learning

DSS

EIS

Tech
Transition



**INFORMATION TECHNOLOGY
(Casey)**

E-Mail

Structuring
Tools

Expert
Systems

Research
Notebook

Imaging

Search
Engines

Workflow

Digital
Libraries

Document
& Records
Mgmt

Databases