

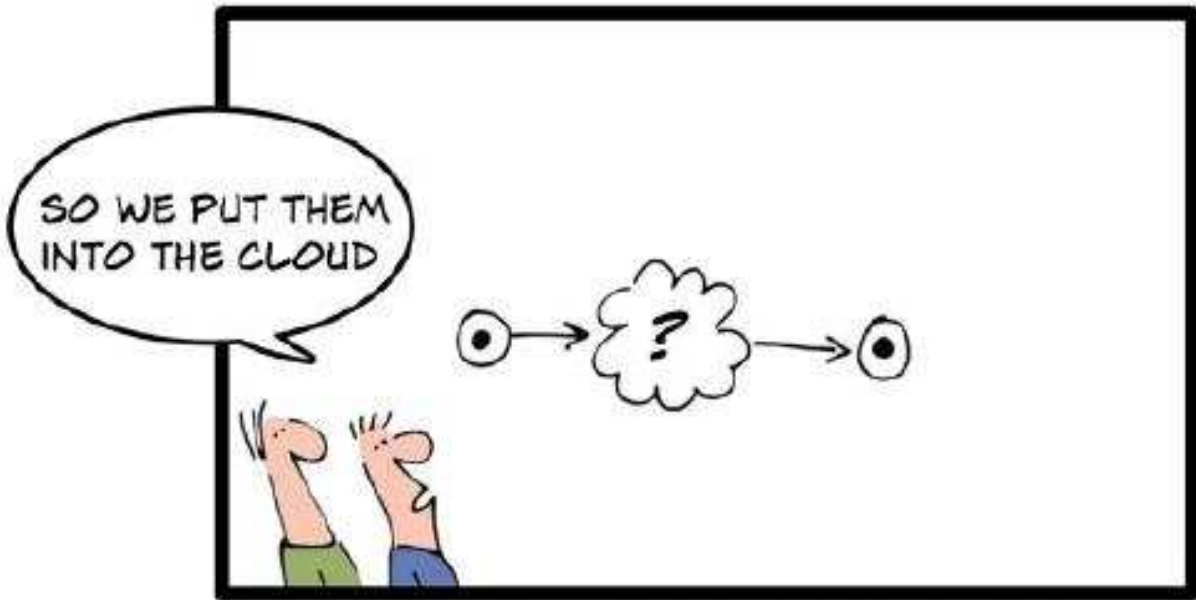
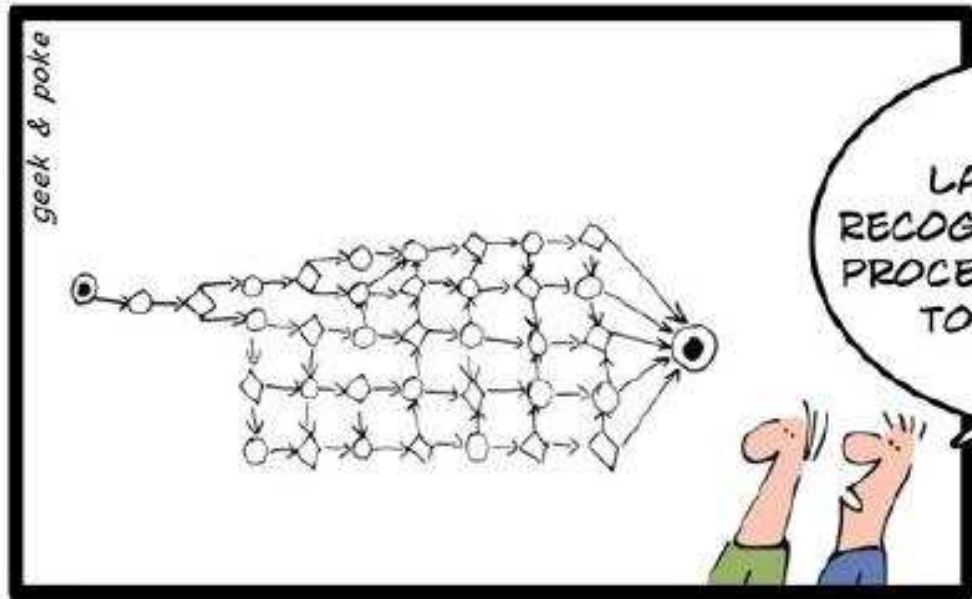
DoDAF 2.0 Benefits and Strategies: For the Defense and Non-Defense Communities

Prakash C Rao


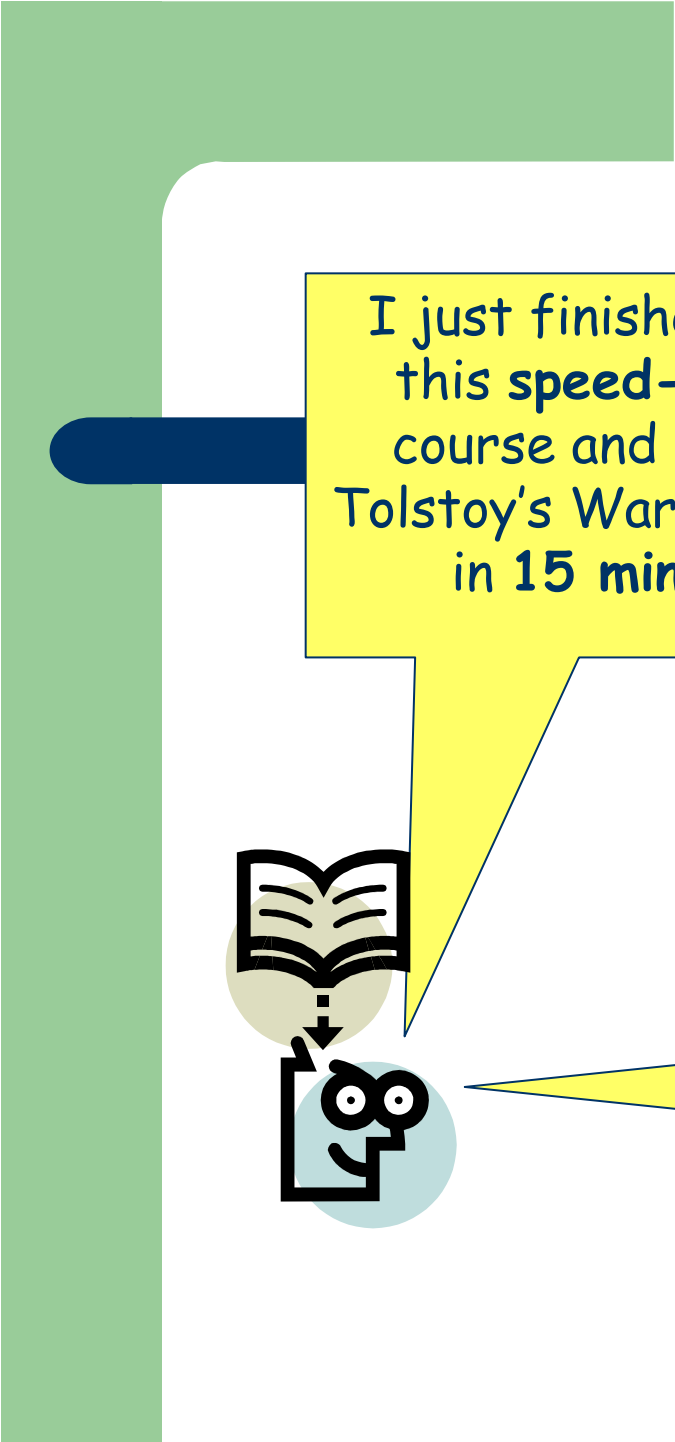
Vice President/Chief Architect
Metadata Management Corporation Ltd.

Faculty: FEAC Institute, Alexandria VA

Cloudy Future!



LET THE CLOUDS MAKE YOUR LIFE EASIER



I just finished taking
this **speed-reading**
course and finished
Tolstoy's War and Peace
in **15 minutes!!**

Wow! What's the story?



Uh .. Its about **Russia.**

DoDAF Origins

(C4ISR through DoDAF 1.0)



An Integrated Model Set for:

- Situation Assessment
- Common Operating Picture
- Chain of Command
- Interoperability
- Information Exchange
- Information Storage

DoDAF - Direct Applicability

- **Search and Rescue Operations**
 - US Coast Guard and other Uniformed Services
- **Interdiction at the border or in coastal waters**
 - Customs and Border Protection
 - US Coast Guard and other Uniformed Services
- **Firefighting Operations - Wildfires**
 - FEMA
 - Air National Guard
- **Environmental Cleanup**
 - EPA
- **Law Enforcement Operations**
 - FBI
- **Intelligence Gathering and Analysis**
 - Intelligence Community

DoDAF 2.0 goes further...

- Alignment with FEA and OMB per Clinger Cohen
- Addressing the DoD as an Enterprise and not as a collection of Operations
- Addressing Strategic and Project/Program Viewpoints
- Continues to support integrated modeling operations

DoDAF 2.0 Enterprise Vantage Point

- **DoD and component services as a provider of Readiness..**
 - DIEA- The DoD Information Enterprise
 - Defense Enterprise Architecture – The DoD Enterprise
 - Component Services Enterprise Architectures – USAF, Navy, Army
- **Joint Staff as supported of Joint Warfighting Operations**
 - E.g. Special Operations
- **Capability Segment Architectures**
 - E.g. Human Resources/Manpower

The Grand Buffet - 8 Viewpoints & 50+ Models – All Integrated!

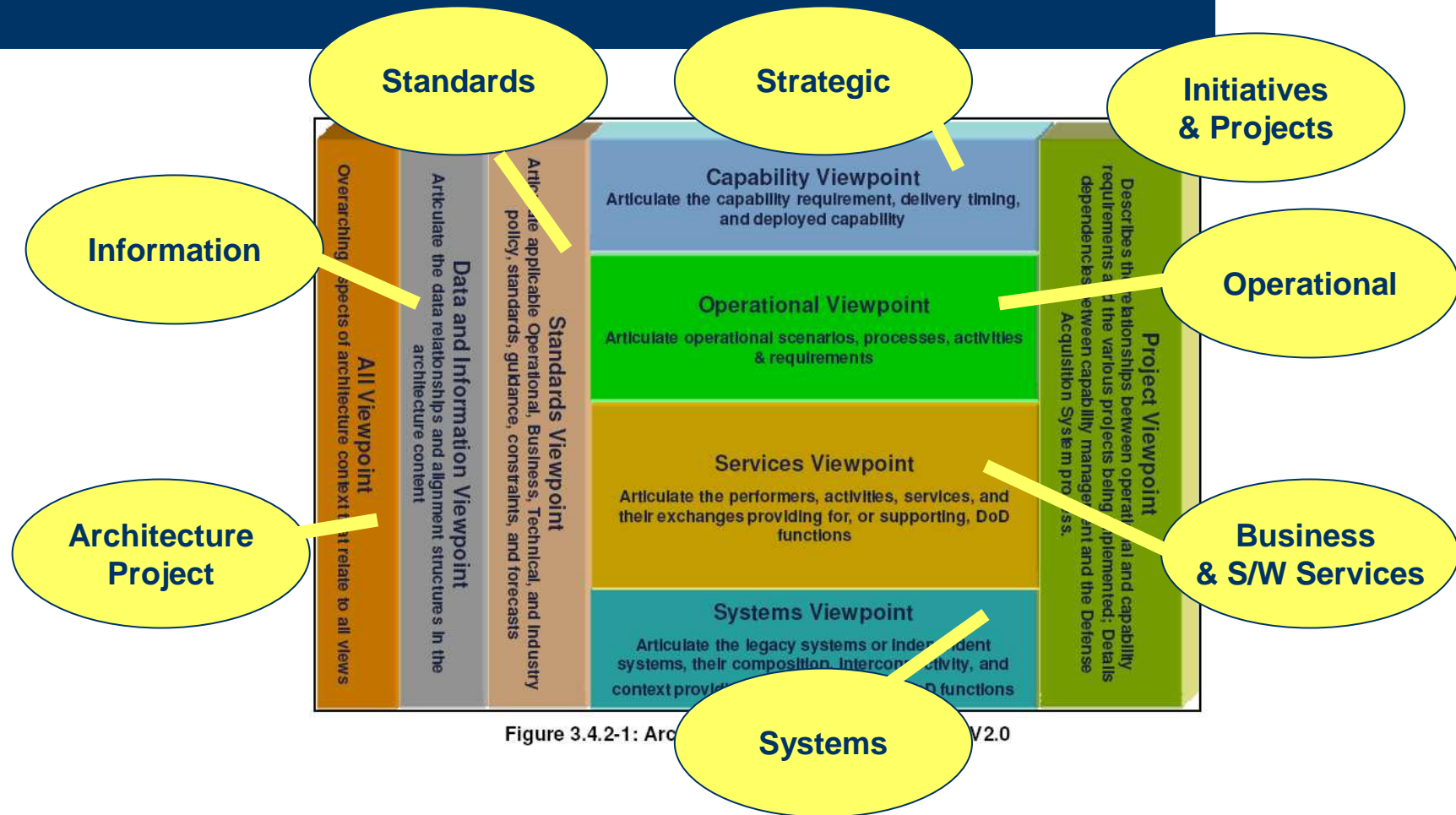


Figure 3.4.2-1: Architecture Viewpoints V2.0

Some Major Benefits...

- Integrated architecture Framework
- Promotes Inter-Enterprise architecture federation
- Models at multiple levels of abstraction
 - Strategic
 - Operational
 - Tactical
 - Infrastructural

More Benefits...

- Models both Business and Software Services
- Models Initiatives and Developmental Efforts
- Provides late binding and generalizability of requirements through “Capability”

Applying the DoDAF: A few principles

- Everything should be made as simple as possible, but not simpler – *Albert Einstein*
- Give me six hours to chop down a tree, and I will spend the first four sharpening the axe – *Abraham Lincoln*
- The time to repair the roof is when the sun is shining – *John F. Kennedy*
- If we are to perceive all the implications of the new, we must risk, at least temporarily, ambiguity and disorder – *J.J. Gordon*

More principles ...

- The length of this document defends it well against the risk of it being read. – *Winston Churchill*
- To see far is one thing, going there is another. – *Constantin Brancusi*
- Turnaround is transformation that's tragically late.- *Gary Hamel*
- Incomprehensible jargon is the hallmark of a profession. – *Kingman Brewster*
- Change before you have to. – *Jack Welch*

Strategies for Applying DoDAF

A few examples

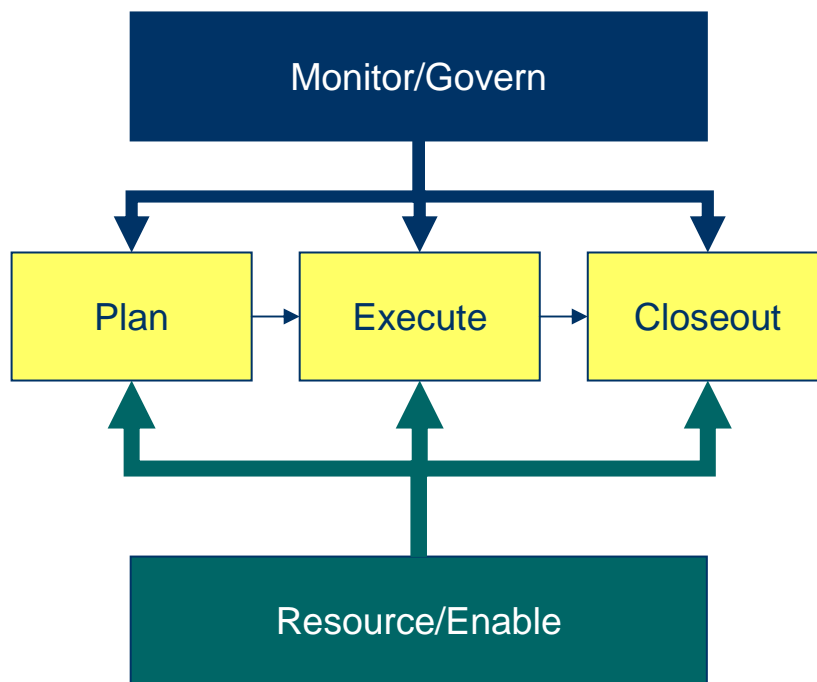


Understand the fundamental nature of your business – Prime Dimension

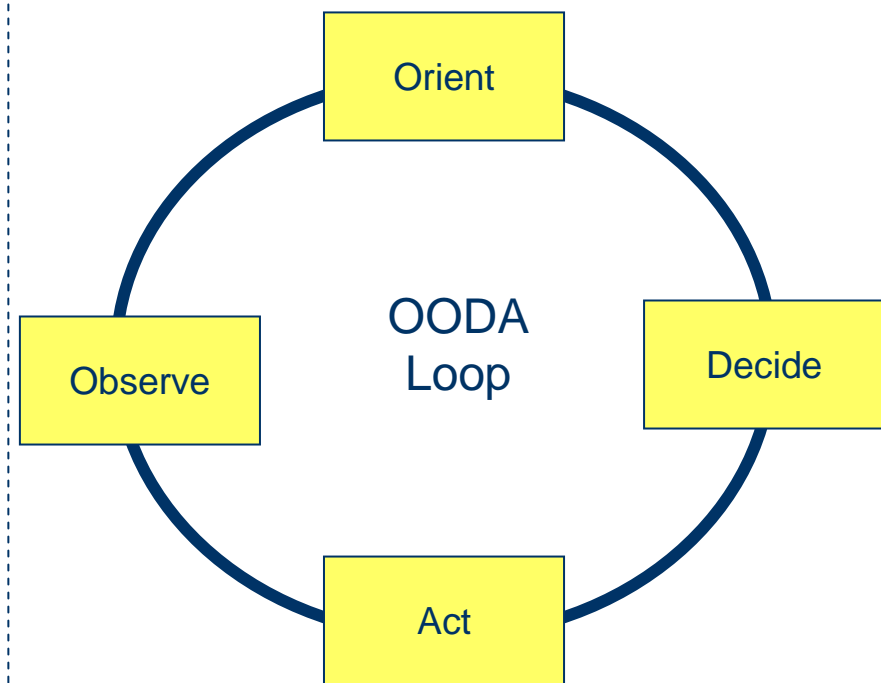
- Process Driven vs. Operations Driven or a combination of both
- Location Driven
- Motivation Driven
- Event Driven
- Information Driven
- The stage of evolution of the enterprise
 - Years in Business
 - Stability in operating environment
 - Ops Tempo
 - Motivation Structure

Process Driven vs. Operations Driven

Process and Plan Driven



"Operations Driven"



Location Driven (Logistics Bound)

- Sensitivity to Terrain (High Ground)
- Sensitivity to Transport Equipment
- Sensitivity to Fuel/Energy Price
- Payload constraints
- Hazmat Considerations
- Big/Bulk Load Considerations

Location Driven Enterprises

- Warfighting Teams
- USPS, FedEx and Air Cargo Carriers
- Amtrak
- Airlines
- Consumer Banks

Motivation Driven (People Intensive Enterprises)

- Profit vs. Non Profit Enterprises
- Startup vs. Mature Employee Base
- Degree of Automation
- Degree of Oversight
- Leadership Initiatives

Event Driven Enterprises

- Airline Incident – NTSB
- Environmental Incident – FEMA
- Terrorist Incident – FBI
- Christmas – Toymakers
- COMDEX – Consumer Electronics
- SecDEF Architecture Work – DoD EA Conference

Information Driven Enterprises

- NOAA – Weather and other information
- FAA – National Airspace
- SEC – Filings
- Federal Trade Commission
- NBC
- Washington Post

Select the appropriate Viewpoints

- Strategic Viewpoint
 - Capabilities
 - Goals, Vision, Objectives
 - Initiatives
- Operational Viewpoint
 - Performers
 - Processes and Activities
 - Locations
 - Constraints
 - Performance Measures

More Viewpoints...

- Services Viewpoint
 - Outsourced Business Services
 - Software Services and Architectures
 - Providers/Consumers
 - Service Level Agreements
 - Service Measures
- Systems Viewpoint
 - Systems
 - Locations
 - Networks and Communications
 - Platforms and Standards

Build the Right Models

- “Spare” Architecting
 - Especially for Startups or young enterprises
- Fit for Purpose Views
 - Composite single page views
- Audience Appropriate Representations
 - Control Detail
 - Control clutter
 - Layout for appeal and communications

Summary

- DoDAF 2.0 goes beyond operations to describe
 - Strategy and Initiatives
 - Capability and higher level requirements
 - Information as separate from IT constraints
 - Business and Software Services
- And relate all of these in an integrated manner

Summary ...

- Can be useful for:
 - Common strategic picture
 - Common operating picture
 - Common service and systems picture
 - Common standards and interoperability picture
- For any type of enterprise
 - Motivation Driven
 - Location Driven
 - Operation/Process Driven
 - Event Driven
 - Information Driven
 - Responsibility Driven

Tom Toles

