

Defense Logistics as a Chaos Theory...

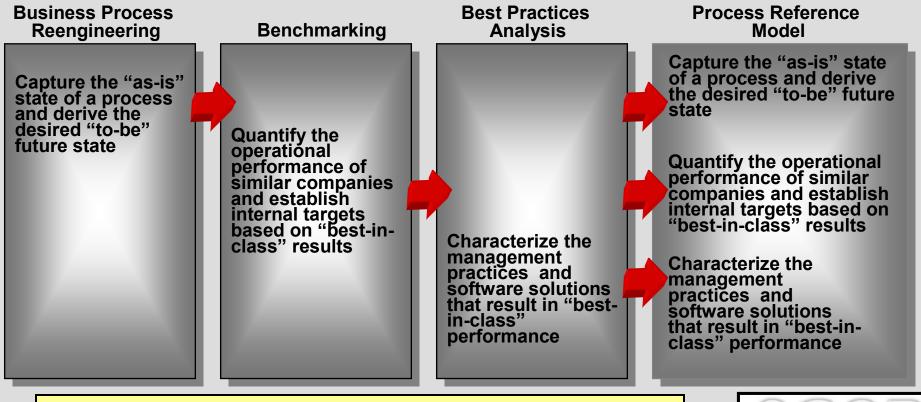
- Chaos Theory is the name science has come up with to describe the very complex way the world works.
 - Much of mathematics is "linear", or related to a line, making equations and figuring out the answer fairly straight forward.
- But there are some things that just can't be explained so easily, like weather patterns, ocean currents, and defense logistics. There are too many things going on to keep track of: It almost seems as if they are random, or "chaotic".
 - Chaos theory is a way describe and predict these types of events.
- As a Chaos Theory, defense logistics process streamlining is next to impossible without reference modeling, as End-to-End Logistics spans the Galaxy!
 - Reference models visualize the "Best of Breed" across the National Technology Industrial Base
 - Reference Models feed off of logistics data: better data, better results
- As a Chaos Theory, defense logistics data analysis requires a common logistics data schema, as data files are so huge and tedious.
 - A common data schema is tantamount to logistics data linkage

Topics of Discussion

- Operations Reference Models what are they?
- A Perspective On Life Cycle Logistics
- What is Industry Using for operations modeling?
 - Supply Chain Operations Reference model
 - Design Chain Operations Reference model
- The Need for Information
 - Common Logistics Data Schema
- Bringing it All Together (a Notional Concept)
- A parting Shot

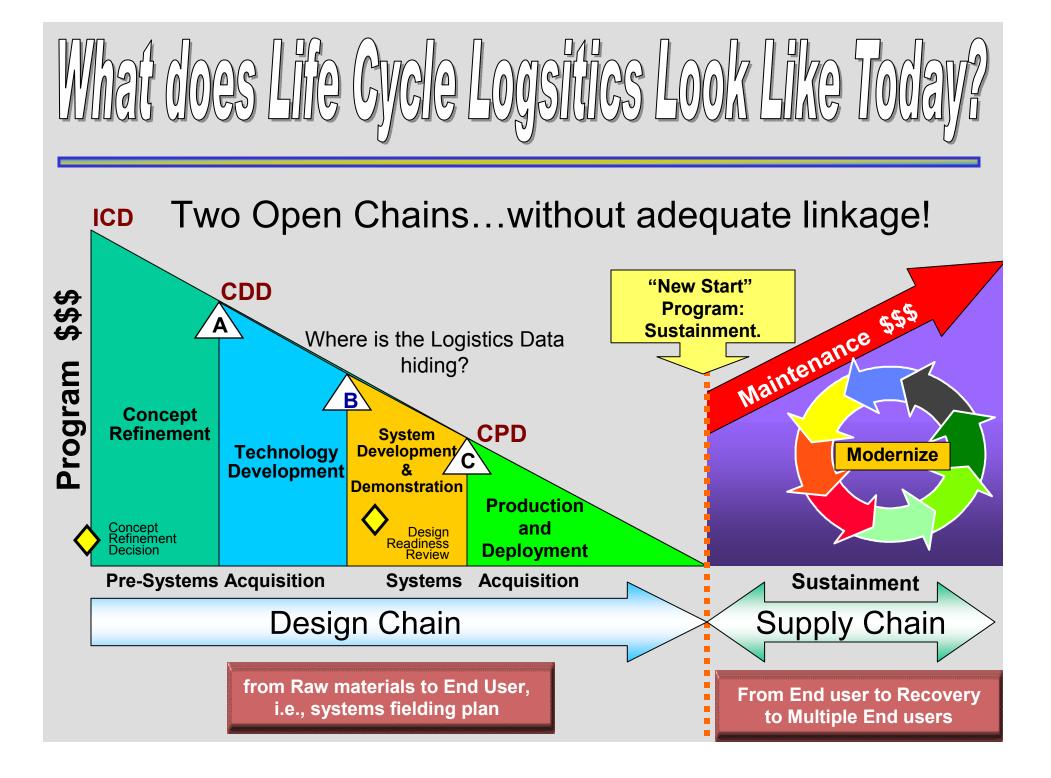
What is a Reference Model?

 Process reference models integrate the well-known concepts of business process reengineering, benchmarking, and process measurement into a cross-functional framework



Data is the fuel for reference models





Is There a Reference Model Available?

The Supply-Chain Operations Reference-model (SCOR)

SCOR is a management tool that has been developed by the Supply-Chain Council as the standard diagnostic tool for supply-chain management, enabling users to address, improve, and communicate supply-chain management practices.

≻The SCOR-model:

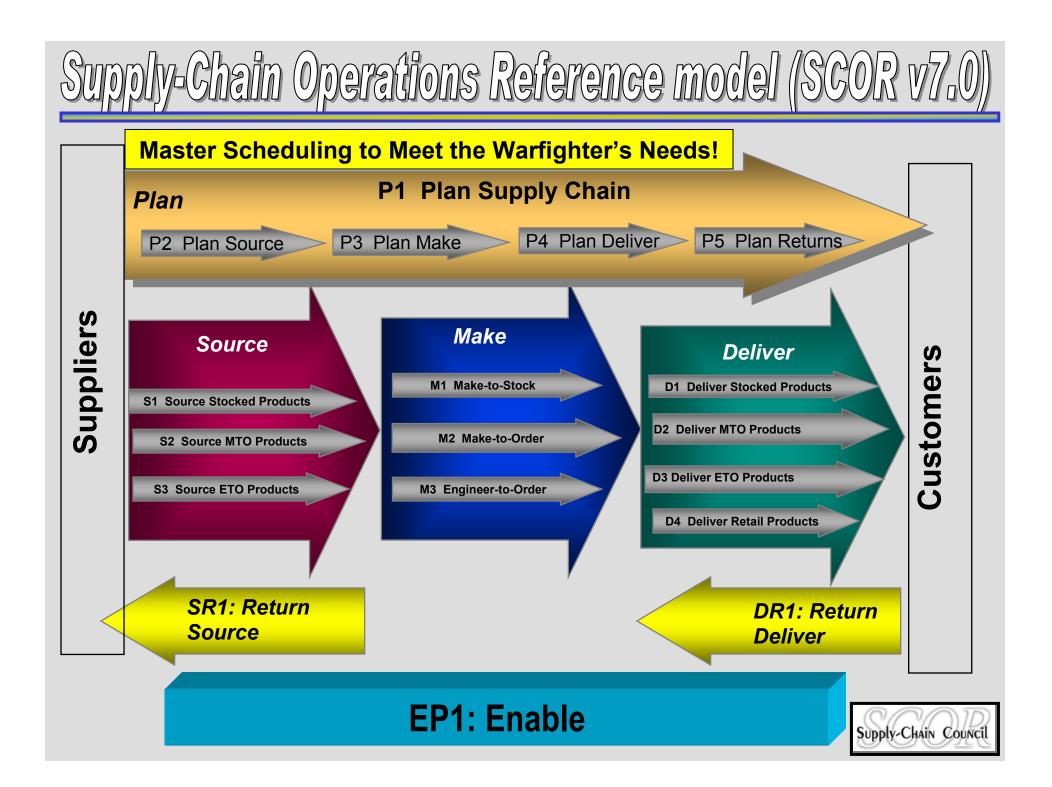
>Describes the business activities associated with all phases of satisfying a demand.

➤ Utilizes process building blocks.

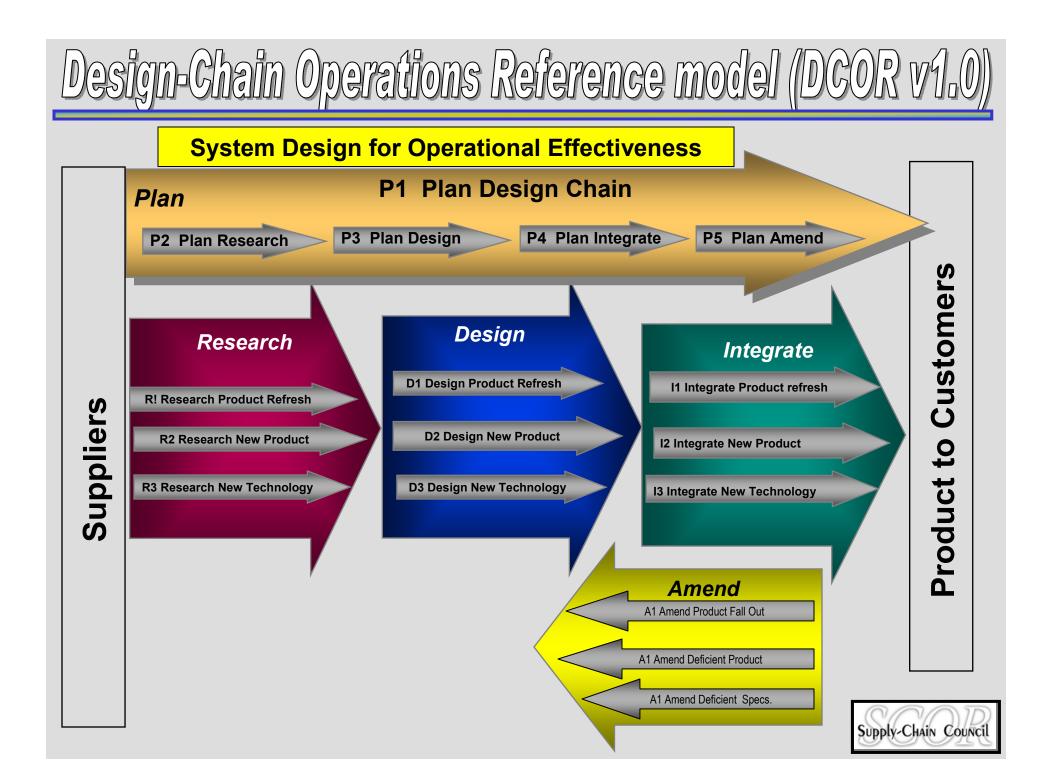
Identifies metrics.

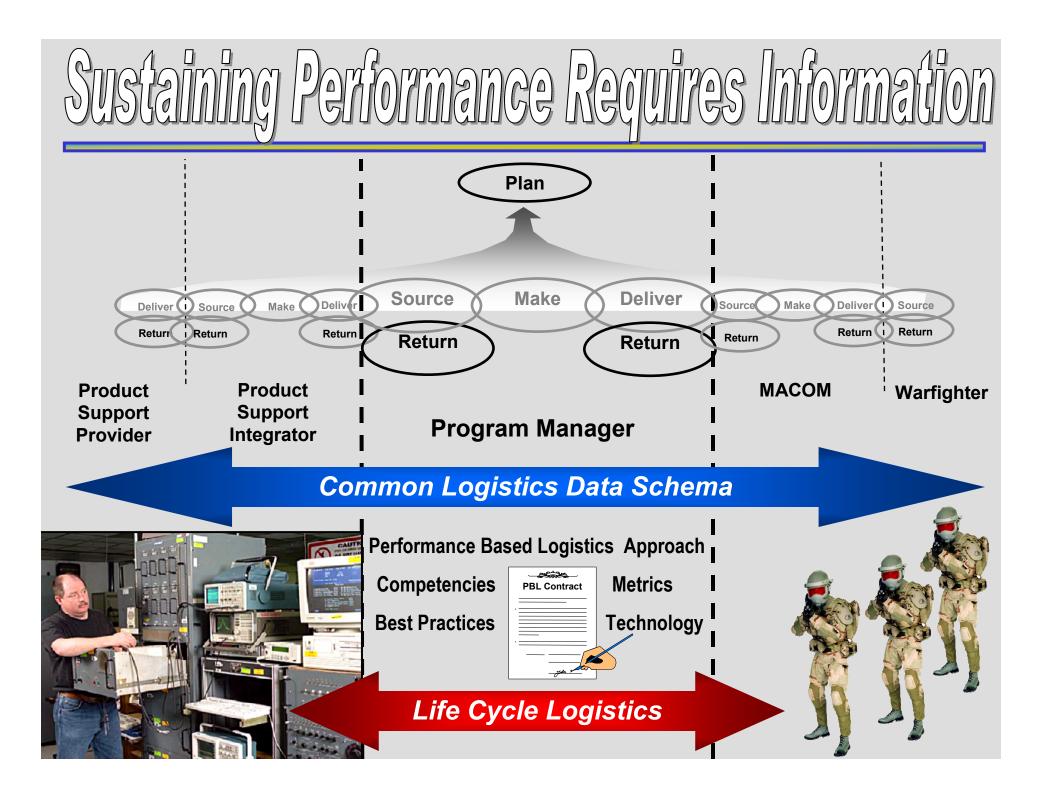
- Uses a common set of definitions.
- Links virtually any supply chain within Government and Industry.



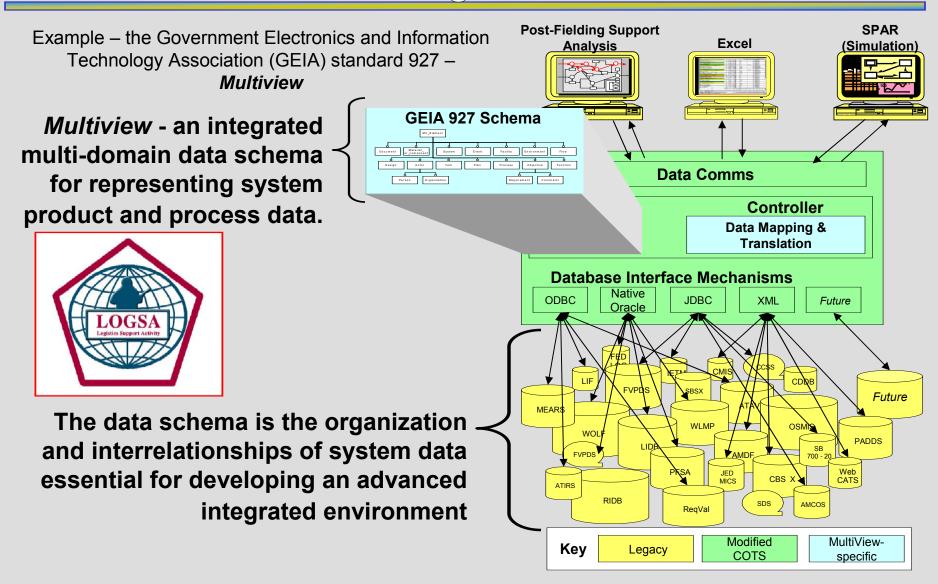


	PLAN SUPPLY P3: MAKE P4: DEL		IRN
S1: Source Stocked Product Best Practice: Joint Service Agreements	M1: Make-to-Stock Best Practice: Benchmarking Six Sigma	D1: Deliver Stocked Product Best practice: Electronic Catalogs Quick Response	
S2: Source Make-to- order Product Best Practice: Statistical Process Control	M2: Make-to-order Best Practice: Capacity Planning	D2: Deliver Make-to- order Product Metrics: Fill Rates	OMERS
S3 : Source Engineer- to-order Metrics : Product Acquisition Costs	M3: Engineer-to-Order Best Practice: Demand-pull manufacturing	D3: Deliver Engineer- to-order product Metrics: Order Management	CUST
SR1 : Source return defe product Metrics : Cycle t	N. L.P. C. Sont Co. HELCO. LECTA COMPLEX LIPIC Control Co. PH C. 1	.: Deliver return defective duct Metrics : Cycle time	

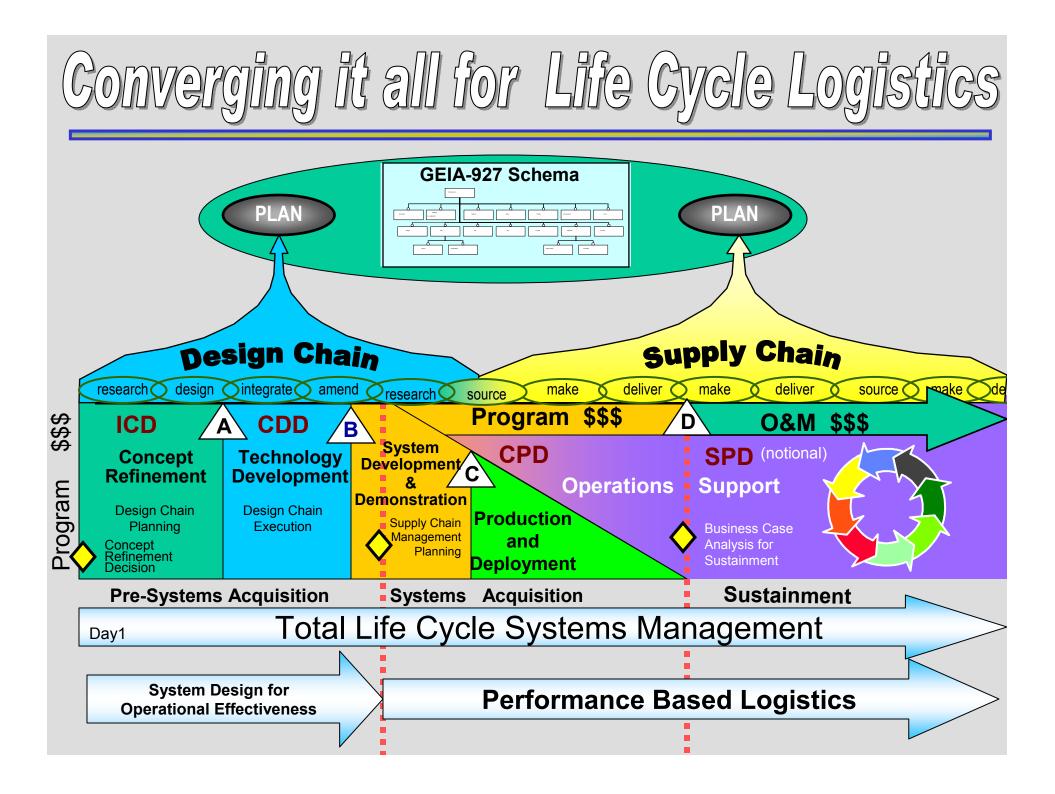




What is Common Logistics Data Schema?



USAMC LOGSA--Supporting Warfighters Globally



ONE LAST SHOT: just an opinion....

- A Milestone "D", with exit criteria and a Sustaining Performance Document (notional) could be the conduit between Acquisition and Sustainment.
 - Presently, the biggest life cycle event has no criteria
 - Cost, Schedule, Performance, & Supportability under one focal point across the Life Cycle
- Sustainment currently relies too heavily on forensics to determine plan of action
 - Need to map the requirements from Technology Development to operations & support
 - Move beyond "respond and fix"
 - Needs to become a value added service
- Presently "Data Rich and Information Poor"
 - A Common Data Schema would interact all facets of logistics and engineering
 - The "tie that binds" between engineers and logisticians!

For further information and discussion:



John Sells 570-895-7585 John.sells@us.army.mil







Thanks!

•Louis A. Kratz, Assistant Deputy Under Secretary of Defense (Logistics Plans and Programs)

•Edward T. Bair, Program Executive Officer, Intelligence, Electronic Warfare & Sensors

•Randy Fowler, Director, Center for Logistics and Sustainment Curriculum Development, Defense Acquisition University

•Jerry Cothran, Program Director, Performance Based Logistics, Defense Acquisition University

•Jerry Beck, Senior Program Analyst, Office of the Assistant Deputy Under Secretary of Defense (Logistics Plans & Programs)

•Joe Burak, Senior Supply Chain Analyst, Chairman -Supply Chain Council, Aerospace & Defense Special Interest Group

•Veronica Allen, Associate Director, operations









