



NORTHROP GRUMMAN

Deriving Business Value with Enterprise Architecture

Introductory Remarks
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Enterprise Architecture Today



- Multiple Enterprise Architecture Frameworks have been derived from the early Zachman Model.
- Many EA “successes” in the public and private sectors have applied these frameworks.
- EA has been embraced internationally.

EA is Permeating the Business World

Enterprise Architecture Today



- Normal EA engagements yield positive results, but mistakes can be made.
- EA introduces a culture and disciplines that were previously overlooked or lacking.
- There are many examples of where and how EA has impacted the organization/business.

Look Beyond the actual EA

Enterprise Architecture Today



- What value has been derived from the execution of a successful EA?
- What happens after an organization has...
 - Provided EA training and familiarization
 - Defined a taxonomy for metadata
 - Built an EA repository
 - Instituted a governance process
- How has EA made a difference?

Where's the Beef?

EA Value At Northrop Grumman



- Internally building Enterprise Architecture
- Educating and Communicating about EA principles
- Successfully assisted a number of customers in achieving functional EA including:
 - Department of Interior
 - National Geospatial Agency
 - Vaught Aircraft, Inc
 - San Diego County
 - Center for Disease Control
- Internally Instituted Architecture-Centric Engineering Practice

Making EA work for the Enterprise

NGC's Five Operating Sectors Apply Enterprise Architecture Techniques

Aerospace Systems



Large Scale Systems Integration

C⁴ISR

Unmanned Systems

Airborne Ground Surveillance / C2

Naval BMC2

Global / Theater Strike Systems

Electronic Combat Operations

ISR Satellite Systems

Missile Defense Satellite Systems

MILSATCOM Systems

Enterprise Architecture

Environmental & Space Science Satellite Systems

Directed Energy Systems

6 Strategic Space Systems

Electronic Systems



Radar Systems

C⁴ISR

Electronic Warfare

Naval & Marine Systems

Enterprise Architecture

Navigation & Guidance

Military Space

Government Systems

Information Systems



Command & Control Systems

Network Communications

Intelligence, Surveillance & Reconnaissance Systems

Enterprise Systems and Security

IT/Network Outsourcing

Intelligence

Federal, State/Local & Commercial

Enterprise Architecture

Homeland Security & Health

Shipbuilding



Naval Systems Integrator

Surface Combatants

Expeditionary Warfare Ships

Auxiliary Ships

Marine Composite Technology

Coast Guard Cutters

Commercial Ships

Nuclear Aircraft Carriers

Nuclear Submarines

Fleet Maintenance

Aircraft Carrier Overhaul & Refueling

Enterprise Architecture

Technical Services



Systems Support

Base and Infrastructure Support

Enterprise Architecture

Range Operations

Maintenance Support

Training and Simulations

Technical and Operational Support

Live, Virtual and Constructive Domains

Life Cycle Optimization

Performance Based Logistics

Modifications, Repair and Overhaul (MRO)

Supply Chain Management

Lead Support Integrator (LSI)

Today our Panel Addresses The Value of Their EA Successes



- Rob Thomas, Enterprise Transformation Strategy Executive, Accenture
- Melvin Greer, Senior Fellow, Lockheed-Martin
- Tim Hunnicutt, Senior Associate, Booz Allen Hamilton

Making EA work for the Enterprise