A Whole-Enterprise Architecture Framework: Construction

1) Define Enterprise Dimensions 2) Assemble Enterprise Model and Align Standards Business Functions Business process frameworks **Business Functions** (service or role) Strategy ERP DevOps Core SysOps CRM Reference architectures **System Components** (enterprise or solution) Performance Business Information Application Resources Security Lifecycle methodologies Service Lifecycle (organization or life history) Strategy Design Transition Operation 3) Derive Assurance Viewpoints 4) Construct Assurance Ecosystem Strategy Function Governance **Function** Governance Sol System Service Management Realization 5) Create Requirement Specification **Template and Methodology** Identify Recurse up and Sol across enterprise Identify Recurse by Iterate on service **Attributes** stakeholders decomposition <specification guidance Sol attributes <Sol attributes> Gather Enterprise derived from attributes> Regs <Sol services <Enterprise layers> Enterprise decomposition> requirements <reqs>

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Assurance

Solution

requirements

requirements

<Assurance

regarding Sol>

<Enterprise

services and

components

decomposition>

viewpoint

services

solution

<Enterprise layers>

lavers/components>

<Solution reference architecture

Recurse by

decomposition

Enter

Transition

system

Gather Solution

Regs

Validate Assurance

Reas

Iterate on change

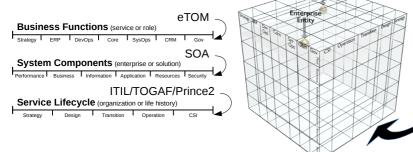
A Whole-Enterprise Architecture Framework: Usage

1) Initialize the model

Select and align standards

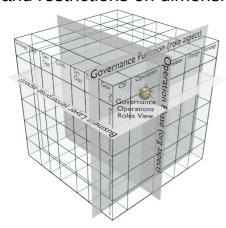
• Define the enterprise and owner as initial

entities of interest (SoI)



3) Generate Views

 Select viewpoints by projections and restrictions on dimensions



5) Merge/reconcile models

- Export participant models
- Import to merged model
- Analyse and reconcile redundancies

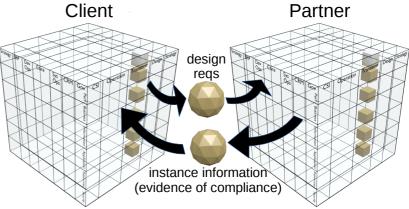
Enterprise A Merged Enterprise Enterprise B

2) Populate the model

- Identify Sol
- Specify attributes
 - Position Sol in model
 - Establish trace links
- Specify requirements
 - Iterate on stakeholders and change management
 - Recurse on decomposition
- Update with instance details

4) Exchange requirements

- Client defines and exports Sol enterprise requirements for partner
 - Attributes referencing alignment-level dimension elements
 - Applicable requirements, standards, design guidance, and success criteria
- Partner exports Sol instance information for client model update and proof of compliance



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