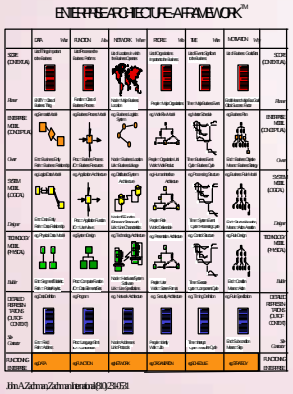
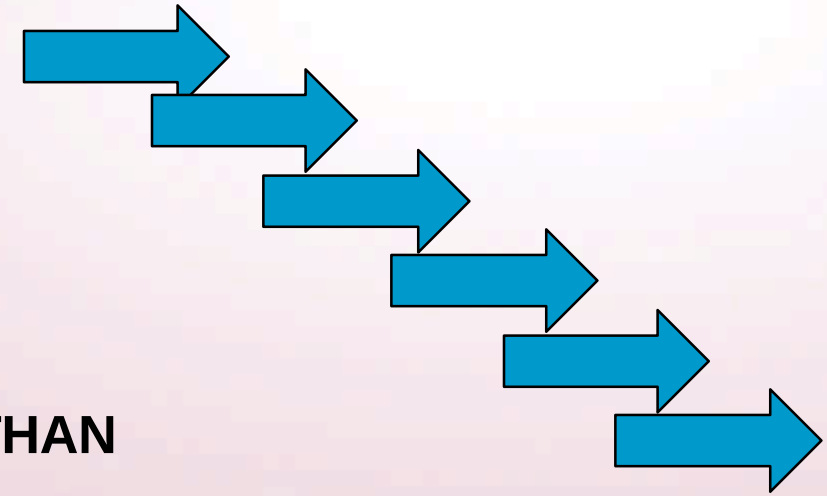
WHERETO FROM ZACHMAN

Architecture Practitioners' conference

April 2004





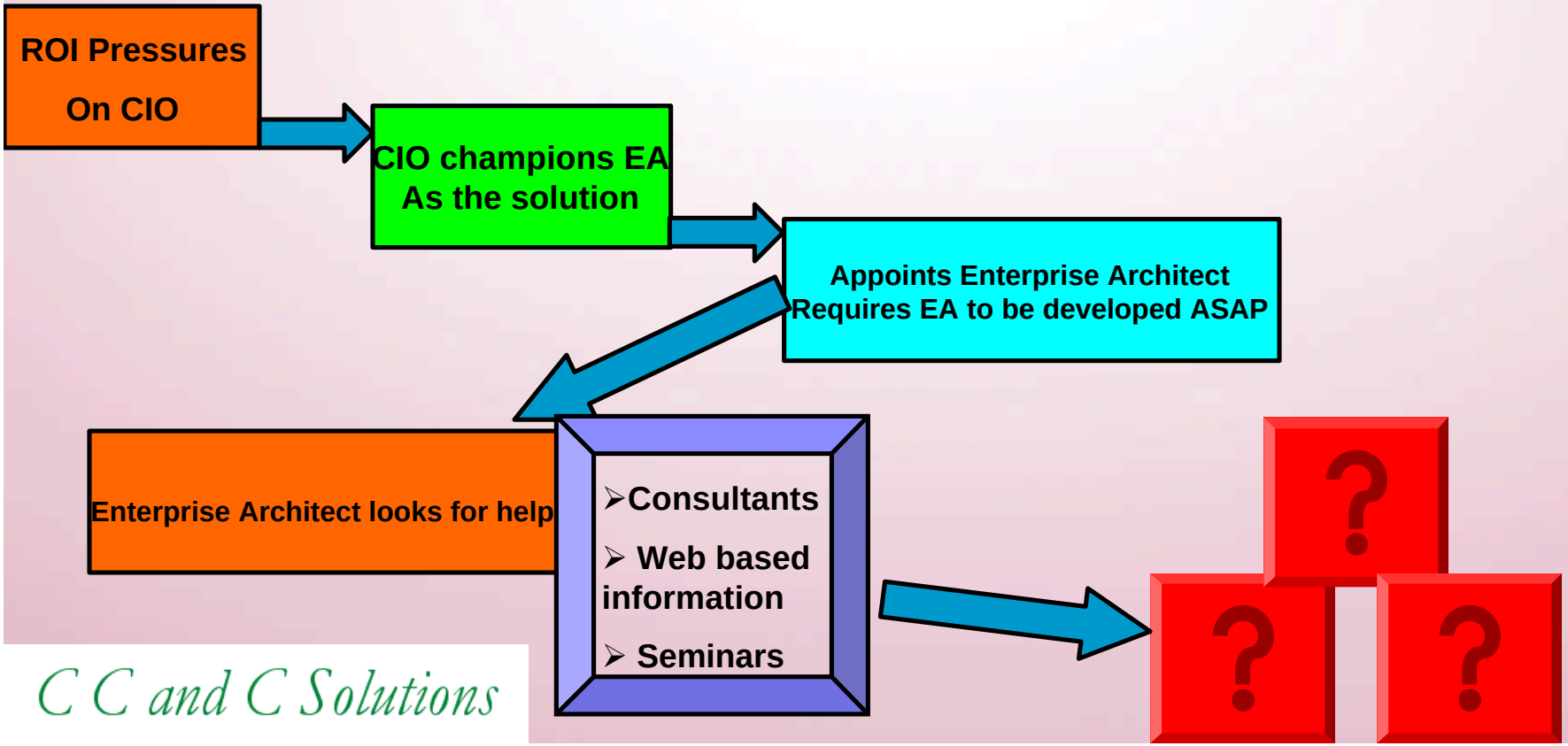
VISH VISWANATHAN

Managing Consultant- CCANDC Solutions

Regional Partner- The Open Group (Australia/ New Zealand /ASEAN)

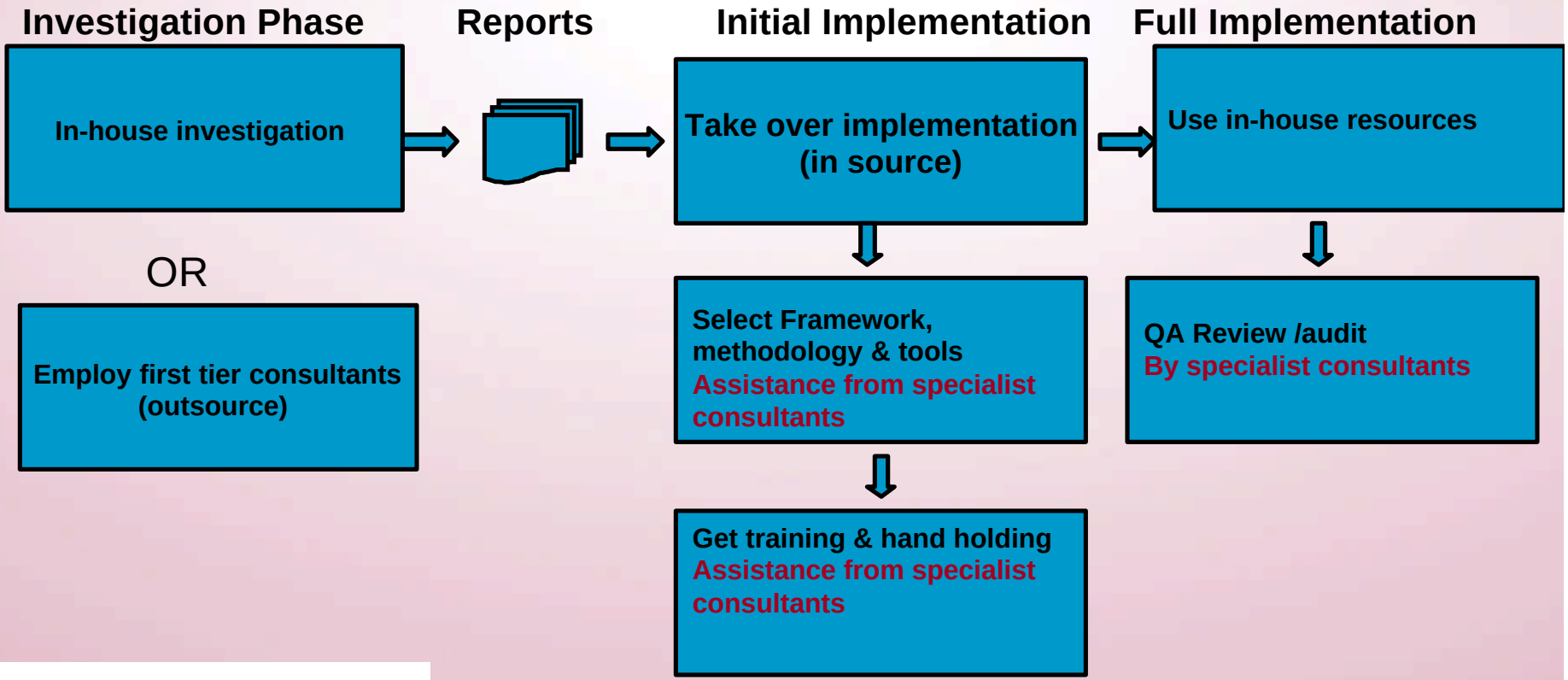
Vice Chair-Asia/Pacific, Architecture Forum

CURRENT STATE OF PLAY OF EA IN AUSTRALASIA



C C and C Solutions

TYPICAL EA PROJECT START UP PROCESS



A WELL KNOWN HIGH LEVEL FRAMEWORK……

➢**ZACHMAN FRAMEWORK**

- **De-facto standard for classifying the Enterprise architectural artifacts**
- **Logical structure for analysing and presenting artifacts from a management perspective**
- **Draws parallels from the well understood Engineering or Construction paradigm**
- **Widely recognised as a management tool for checking architectural completeness and maturity**
- **No processes for implementation**
- **Difficult to implement in total**
- **No ready examples or checklists**
- **Extent of coverage of the cells unclear**

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A DISCIPLINED PROCESS…….

➢**TOGAF**

- **Focuses on implementation cycle (ADM) and processes**
- **Has a foundation architecture as a part of “Enterprise continuum”**
- **Rich in the technical architecture area**
- **Resource base provides a lot of reference materials**
- **Supported by a set of certification processes**
- **Being positioned as the benchmark for EA best practice**

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and AN EASY-TO-USE TOOL ……

- **SYSTEM ARCHITECT**

- **Certified formally as TOGAF support tool / Ongoing commitment for future versions**
- **Comprehensive support for Zachman Framework**
- **Can be customised and extended to facilitate a hybrid approach**
- **Has a variety of built-in EA related models and artifacts**
- **Easy to learn**

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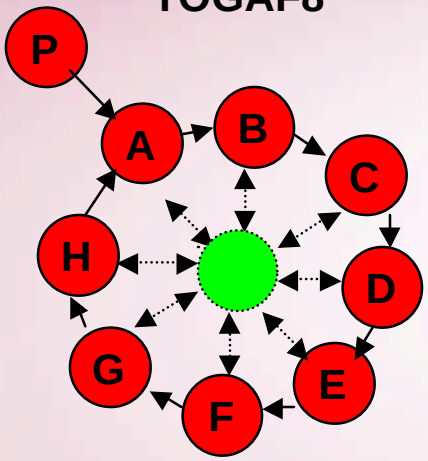
Practical Enterprise Architecture implementation using a hybrid approach

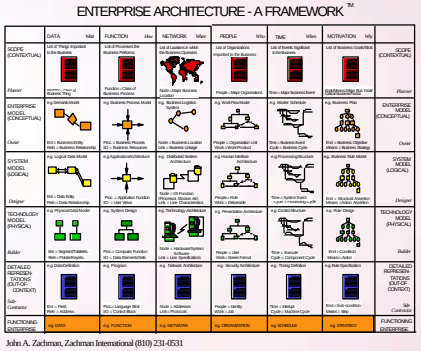
TOGAF8



VALUE ADDS

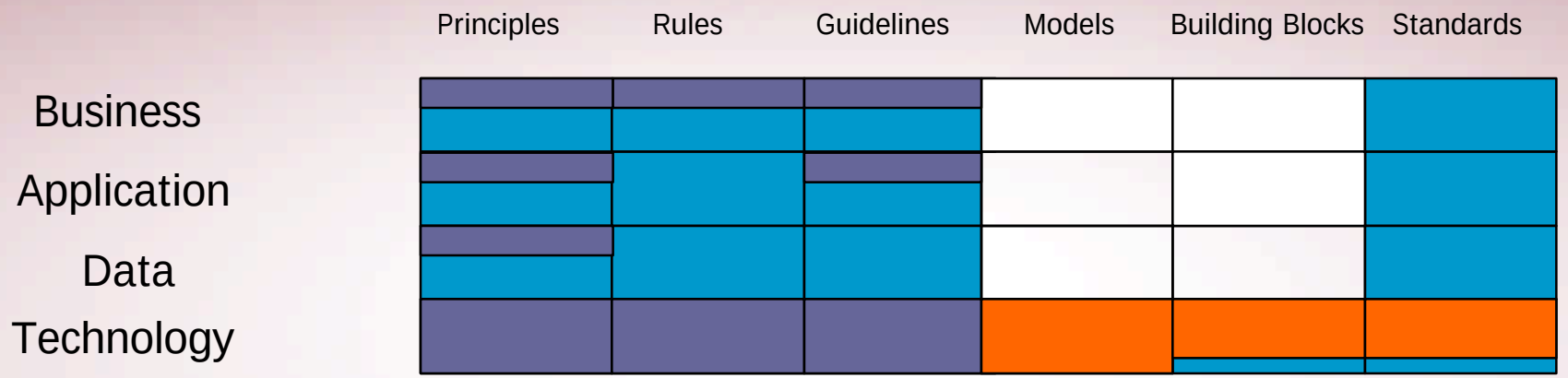
- Step by Step process
- Templates / checklists
- Customised features
- Training & professional services

ZACHMAN FRAMEWORK



POPKIN SOFTWARE

Architectural Development Planning



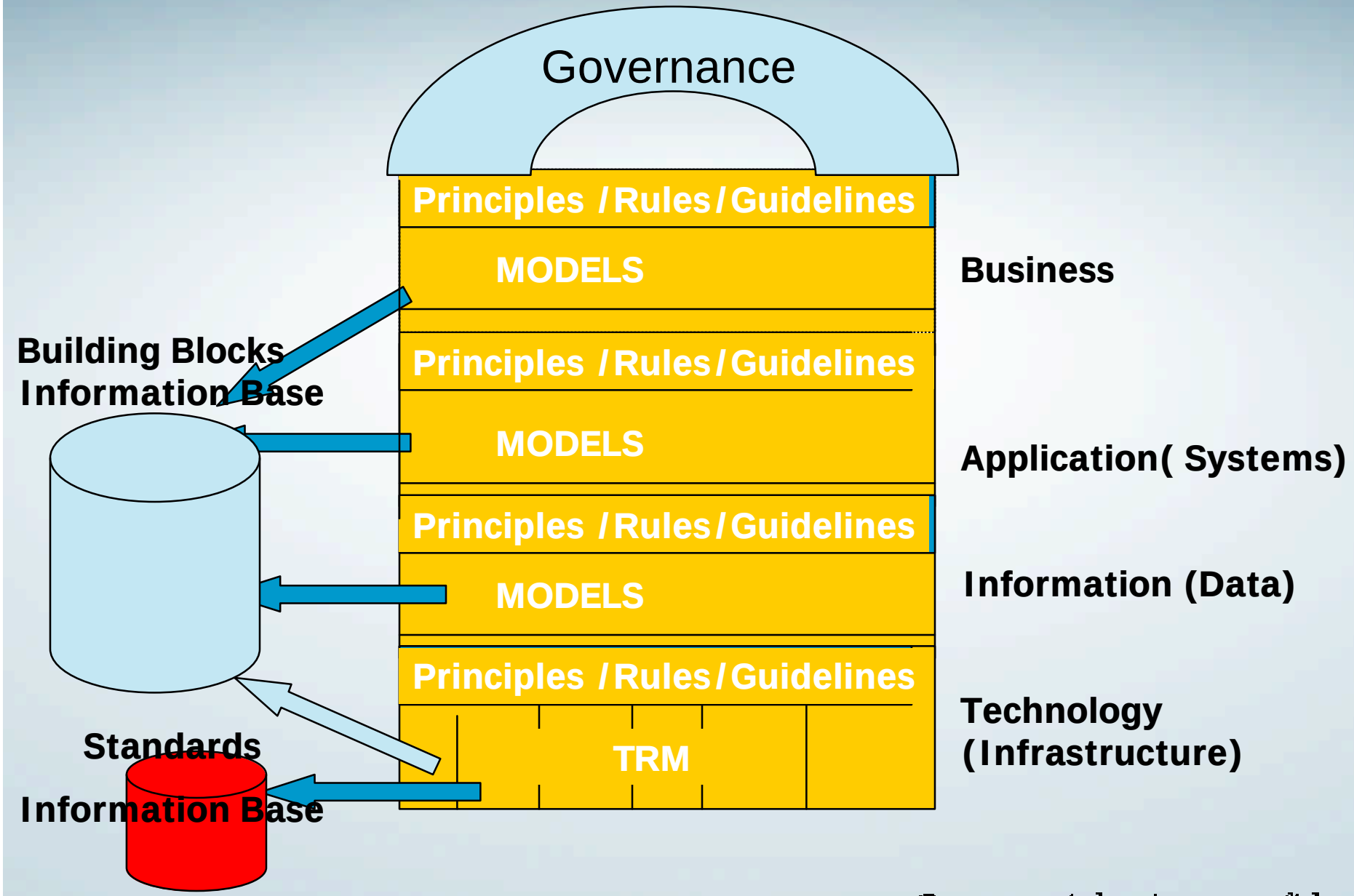
EA Version 1.0

EA Version 2.0

EA Version 3.0

EA Version 4.0

The Enterprise Architecture "Shell"



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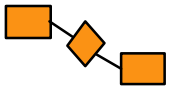
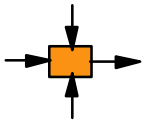
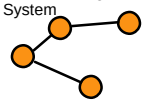
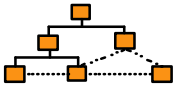
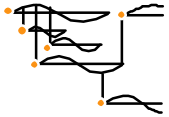
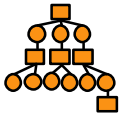
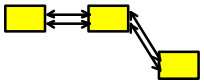
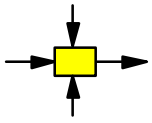
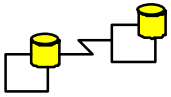
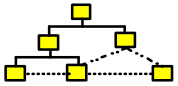
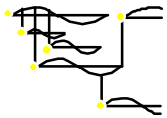
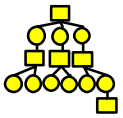
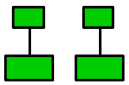
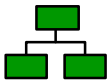
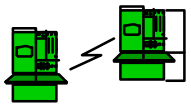
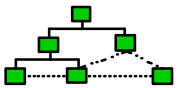
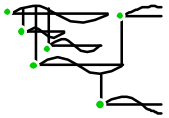
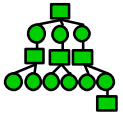
SIMPLIFIED COVERAGE OF ALL FOUR EA LAYERS

	DATA *What*	FUNCTION *How*	NETWORK *Where*	PEOPLE *Who*	TIME *When*	MOTIVATION *Why*	
SCOPE (CONTEXTUAL) *Planner*	List of Things Important to the Business ENTITY = Class of Business Thing	List of Processes the Business Performs Function = Class of Business Process	List of Locations in which the Business Operates Node = Major Business Location	List of Organizations Important to the Business People = Major Organizations	List of Events Significant to the Business Time = Major Business Event	List of Business Goals/Strat Ends/Means=Major Bus. Goal/ Critical Success Factor	SCOPE (CONTEXTUAL) *Planner*
ENTERPRISE MODEL (CONCEPTUAL) *Owner*	e.g. Semantic Model  Ent = Business Entity Reln = Business Relationship	e.g. Business Process Model  Proc. = Business Process I/O = Business Resources	e.g. Business Logistics System  Node = Business Location Link = Business Linkage	e.g. Work Flow Model  People = Organization Unit Work = Work Product	e.g. Master Schedule  Time = Business Event Cycle = Business Cycle	e.g. Business Plan  End = Business Objective Means = Business Strategy	ENTERPRISE MODEL (CONCEPTUAL) *Owner*
SYSTEM MODEL (LOGICAL) *Designer*	e.g. Logical Data Model  Ent = Data Entity Reln = Data Relationship	e.g. Application Architecture  Proc .= Application Function I/O = User Views	e.g. Distributed System Architecture  Node = I/S Function (Processor, Storage, etc) Link = Line Characteristics	e.g. Human Interface Architecture  People = Role Work = Deliverable	e.g. Processing Structure  Time = System Event Cycle = Processing Cycle	e.g., Business Rule Model  End = Structural Assertion Means =Action Assertion	SYSTEM MODEL (LOGICAL) *Designer*
TECHNOLOGY MODEL (PHYSICAL) *Builder*	e.g. Physical Data Model  Ent = Segment/Table/etc. Reln = Pointer/Key/etc.	e.g. System Design  Proc.= Computer Function I/O = Data Elements/Sets	e.g. Technology Architecture  Node = Hardware/System Software Link = Line Specifications	e.g. Presentation Architecture  People = User Work = Screen Format	e.g. Control Structure  Time = Execute Cycle = Component Cycle	e.g. Rule Design  End = Condition Means = Action	TECHNOLOGY MODEL (PHYSICAL) *Builder*
DETAILED REPRESEN-TATIONS (OUT-OF-CONTEXT) *Sub-Contractor*	e.g. Data Definition Ent = Field Reln = Address	e.g. Program Proc.= Language Stmt I/O = Control Block	e.g. Network Architecture Node = Addresses Link = Protocols	e.g. Security Architecture People = Identity Work = Job	e.g. Timing Definition Time = Interrupt Cycle = Machine Cycle	e.g. Rule Specification End = Sub-condition Means = Step	DETAILED REPRESEN-TATIONS (OUT-OF CONTEXT) *Sub-Contractor*
FUNCTIONING ENTERPRISE	e.g. DATA	e.g. FUNCTION	e.g. NETWORK	e.g. ORGANIZATION	e.g. SCHEDULE	e.g. STRATEGY	FUNCTIONING ENTERPRISE

John A. Zachman, Zachman International (810) 231-0531

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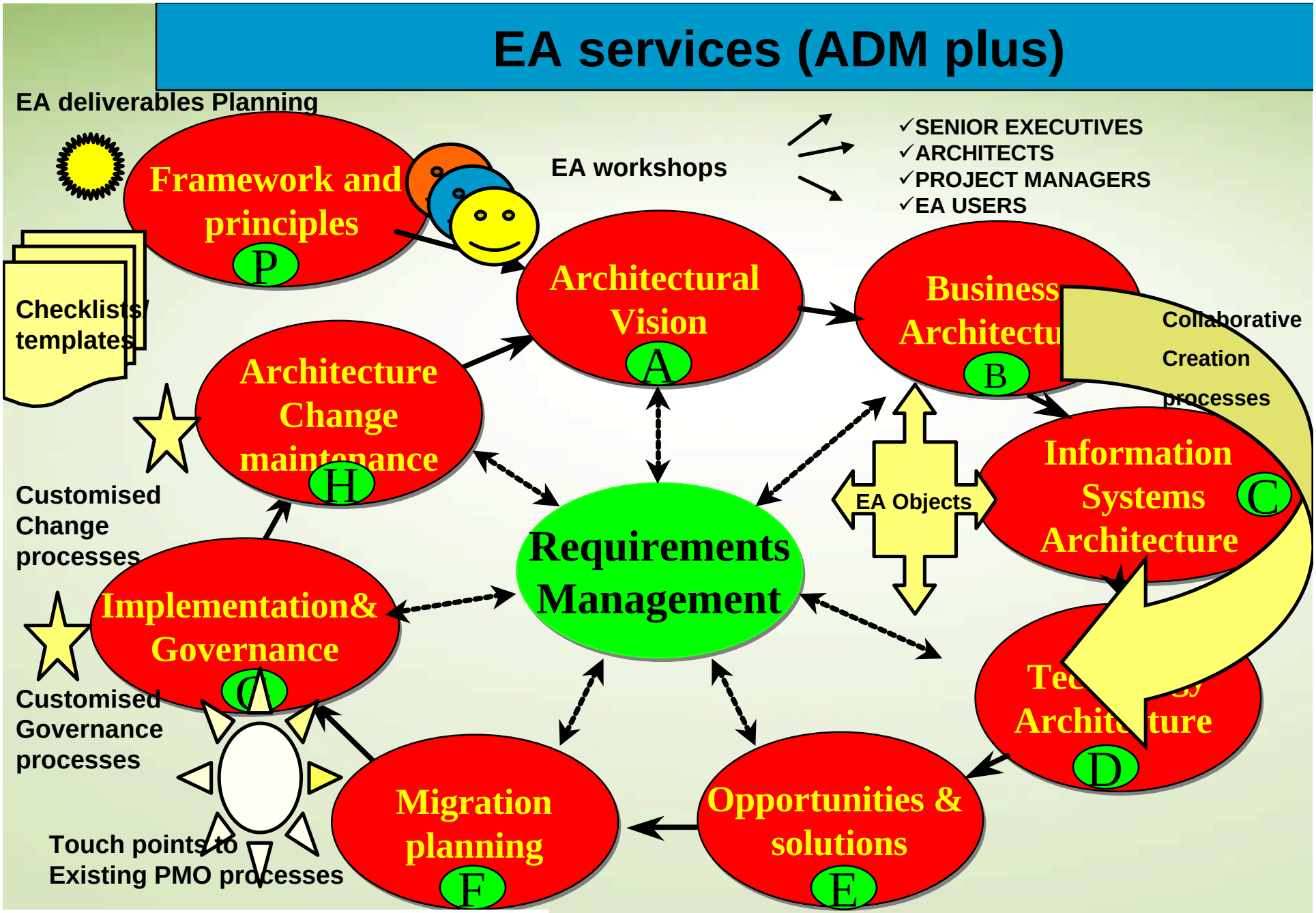
Business Application

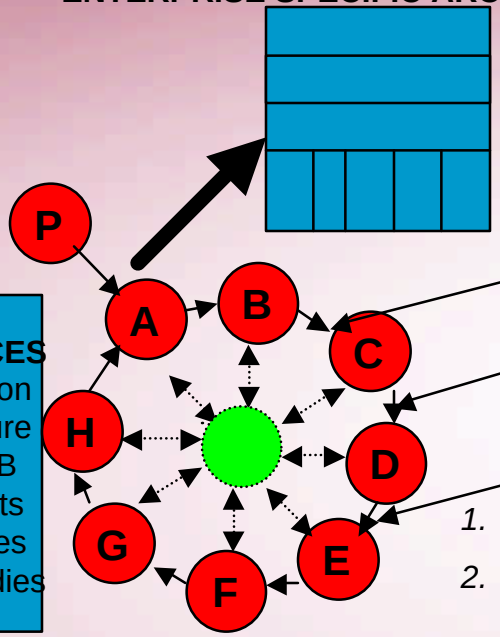
Planning/Vision Data Technology

EA services (ADM plus)



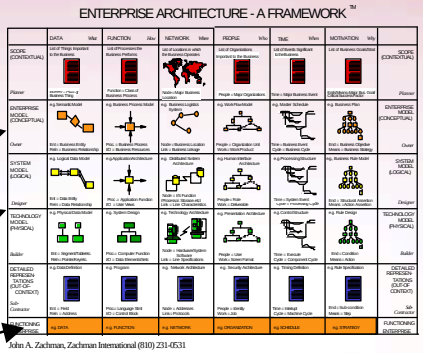
PRACTICAL EA DEVELOPMENT PROCESS

ENTERPRISE SPECIFIC ARCHITECTURE



TOGAF RESOURCES
-Foundation Architecture
-TRM /SIB
-Checklists
-Templates
-Case studies
Etc.,

ZACHMAN FRAMEWORK



Steps towards Enterprise Architecture

1. *TOGAF Phase P plus: Creation of the "EA shell" & initial management agreement*
2. *Snapshot study of current "architecture" & Concerns analysis to highlight the need for EA*
3. *Customise ADM / Customise Zachman cell checklists*
4. *Training of Architects and other key stake holders*
5. *TOGAF Phase A*
6. *TOGAF phases B/C/D: Complete Version 1 of Reference Models*
7. *Identify ,Create and store Building Blocks (ABB/SBB)*
8. *Refer to relevant Zachman cells for completeness at the end of each phase*
9. *TOGAF ADM Phases E/F: Provide touch points to existing processes*
10. *Complete processes for phases G/H*

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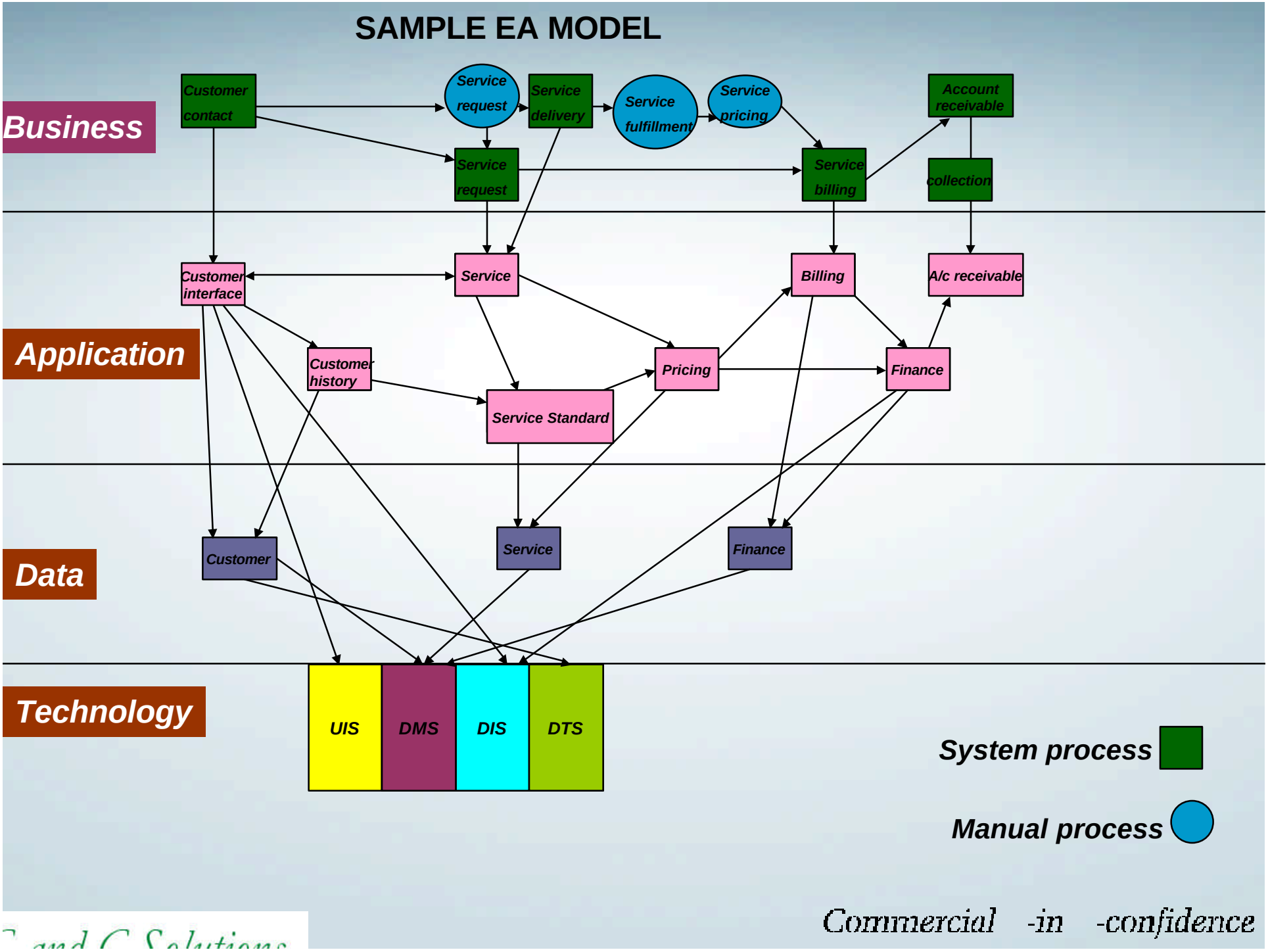
SAMPLE EA MODEL



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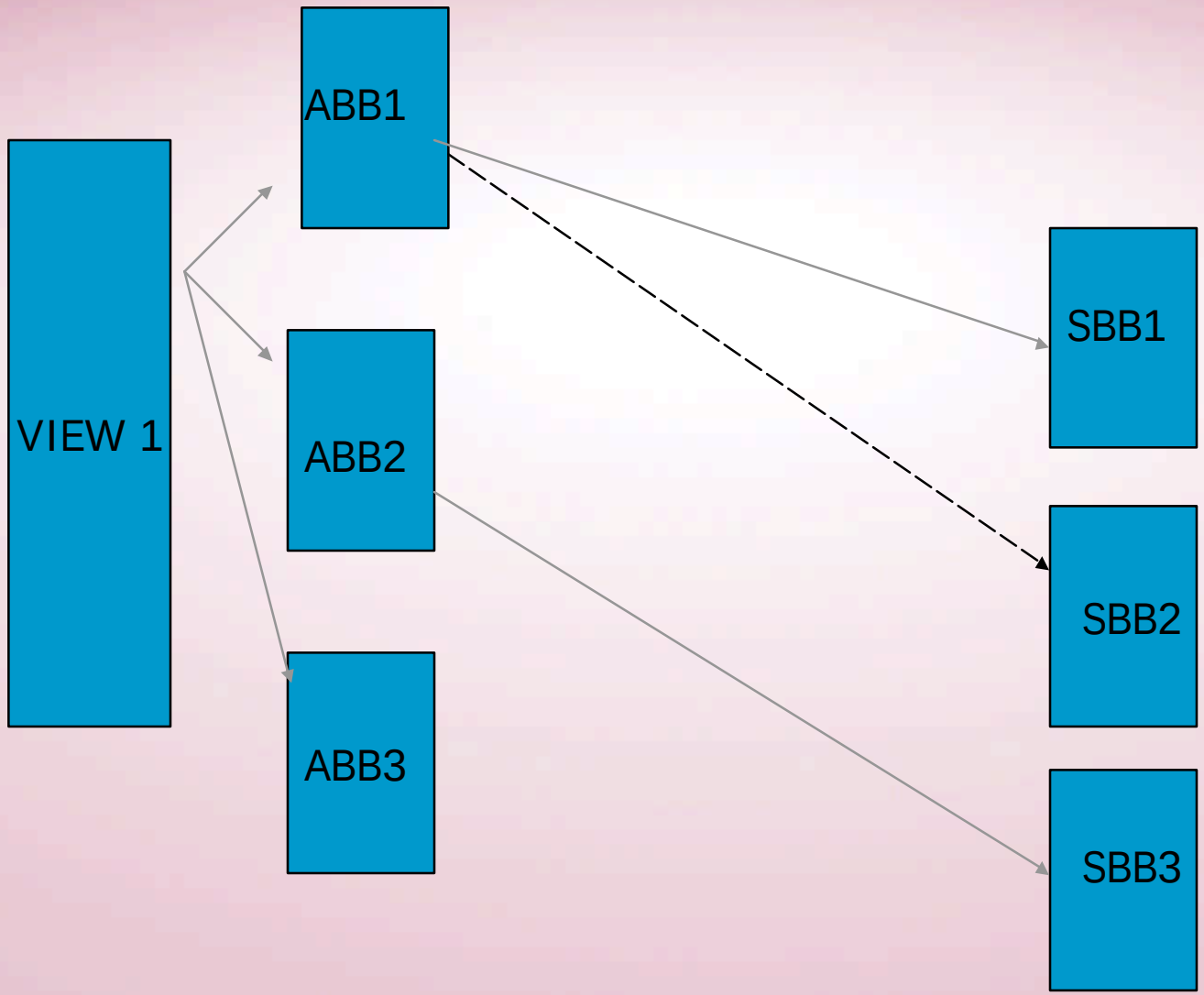
ARCHITECTURE BUILDING BLOCKS & SOLUTION BUILDING BLOCKS



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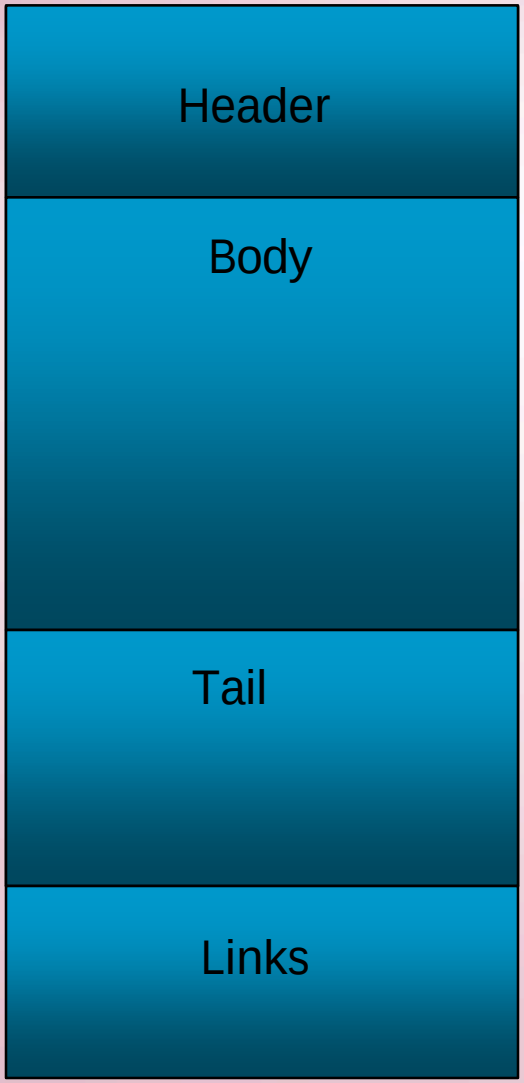
SAMPLE ARCHITECTURE BUILDING BLOCK FORMAT (Technology Architecture domain)



- Name
- Architecture Domain
- Owner
- SME

Principles /Rules/ Guidelines

- Strategy
- Implementation plan
- Interim
- Retiring (Legacy)
- Current

- V/L
- Date of creation / change
- Change history

- Links to SBB (s) and any other detailed information / models

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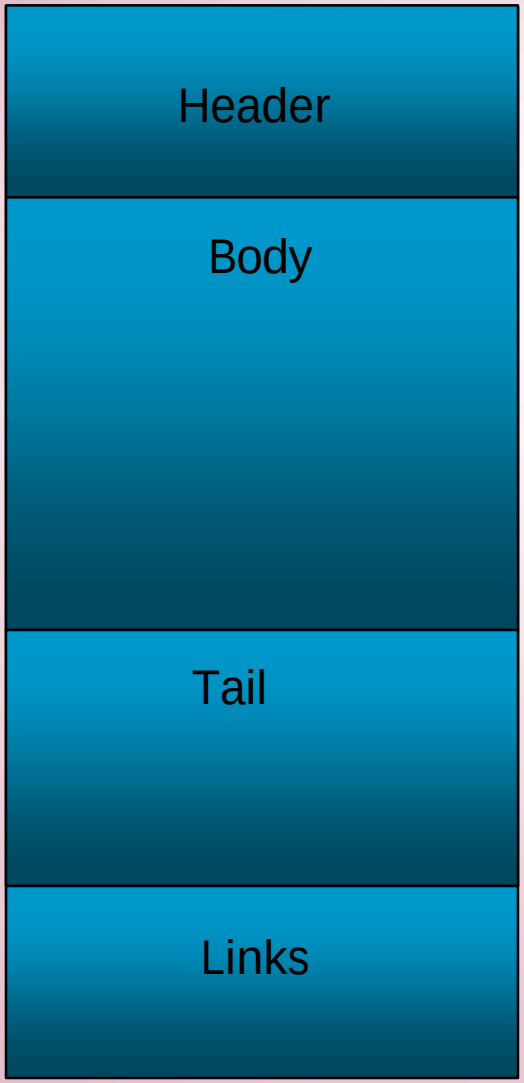
SAMPLE SOLUTION BUILDING BLOCK FORMAT (Technology Architecture domain)



- Name
- Solution Domain
- Owner
- SME

- Rules/ Guidelines/standards
- Rationale for inclusion
- Implementation plan

- V/L
- Date of creation / change
- Change history

- Links to any other detailed information / technical data

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VALUE ADDED SERVICES FROM CCAND C SOLUTIONS…

- **Training :**
  - One day TOGAF appreciation course (group / customised)
  - 4/5 days TOGAF practical implementation course (group/ customised)
  - Other Special training / personalised training services

- **Architecture (general):**
  - Linking into vertical architectures
  - Linking into ITIL/OMG/Zachman / other architectures and processes
  - Linking into existing / strategic vendor architectures

- **Modeling / tools:**
  - Tool (s) selection / Tolls embedding
  - ABB / SBB structures & rules
  - Data modeling
  - BBIB repository systems

- **Processes:**
  - Process maps for creation/ governance/change management
  - Process maps to suit outsourcing contracts / SLA's
  - Processes & content of RFIs / RFPs for selecting tools, methodologies or service providers

- **Resourcing :**
  - Short term / permanent resources for implementation

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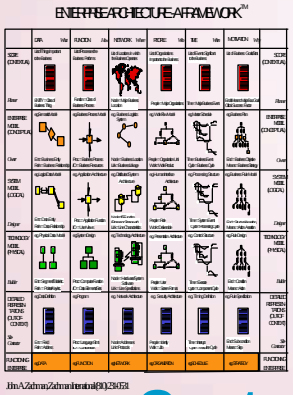
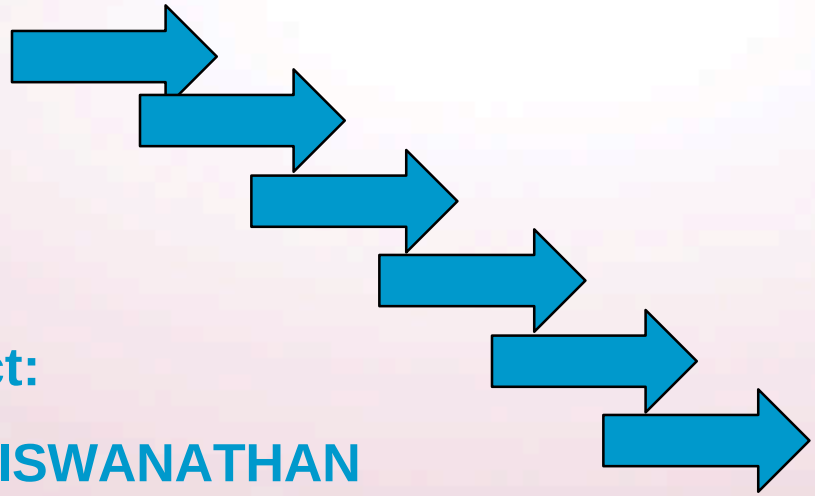
WHERETO FROM ZACHMAN

Architecture Practitioners' conference

April 2004





Contact:

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61 2 94109855 / 61 412293336