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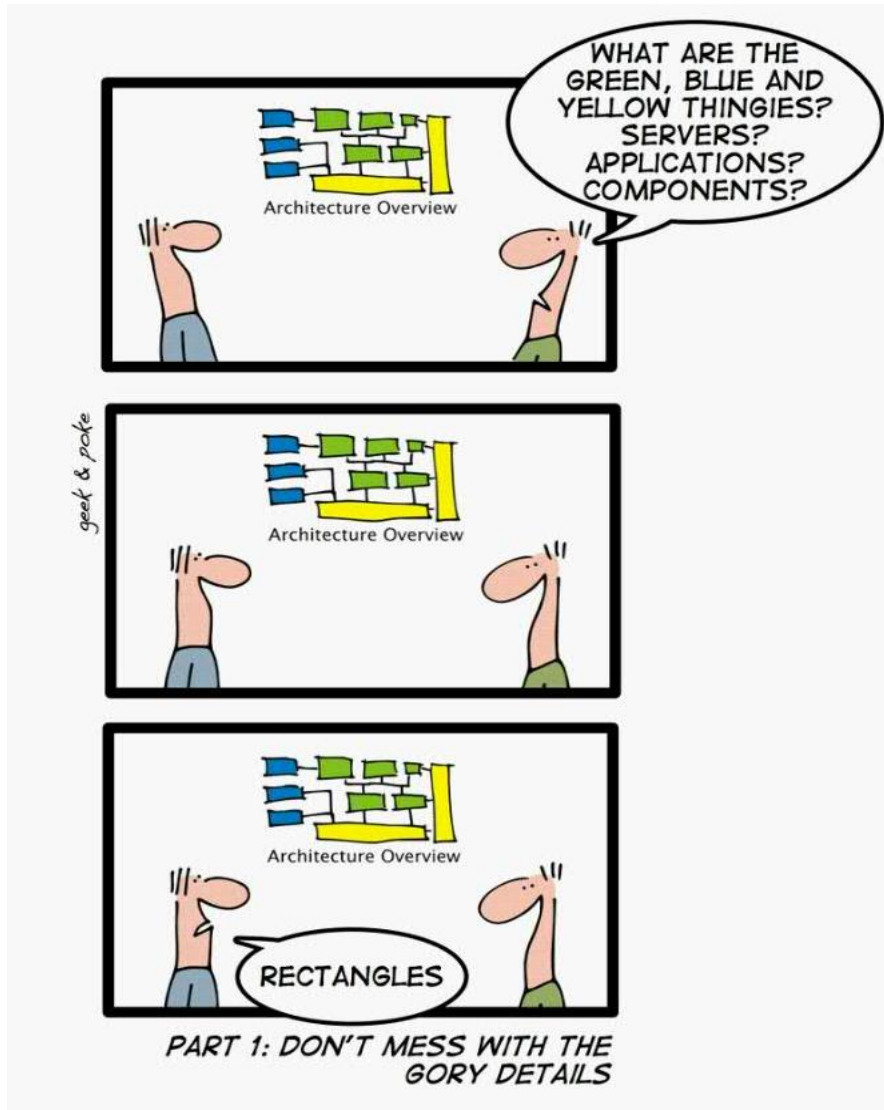
Next NOW!

IBM

Actionable Enterprise Architecture

Nagabhushan S S

Architecture?

Businesses are facing an unparalleled rate of change

Manage business transformations

Enable business flexibility

React to market shifts

Deliver real customer innovation

Seize business opportunities

Execute with reduced risk and cost

Achieve precision in desired business outcomes

Mergers and Acquisitions

Business Continuity Management

Manage regulatory mandates

Successful businesses use enterprise architecture to their competitive advantage

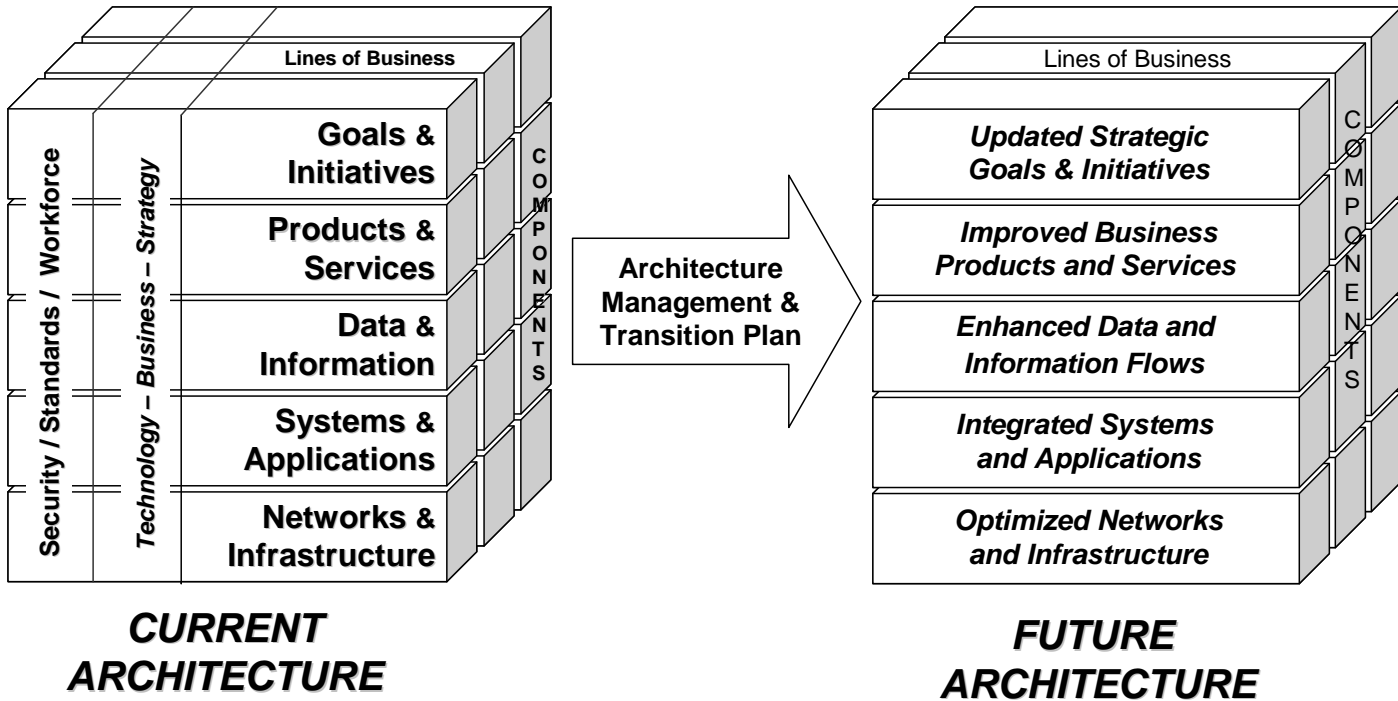# Why Enterprise Architecture Is Key ….

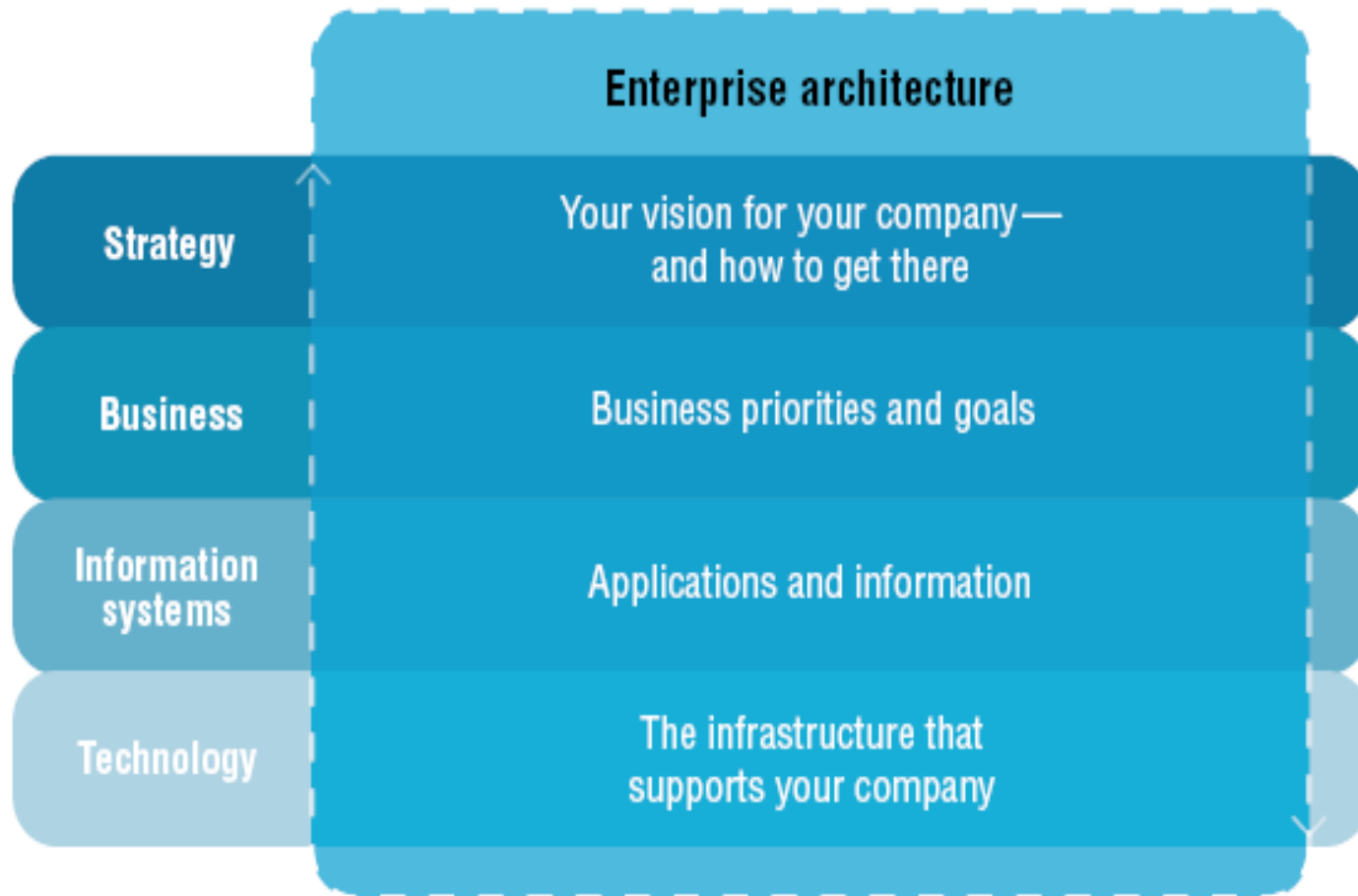- "If you don't know where you're going, *any road will* take you there (to success)"

The Concept of Enterprise Architecture - Defined

<u>Enterprise Architecture:</u> The analysis and documentation of an enterprise in its current and future states from a strategy, business, and technology perspective.   **EA = (S + B + T)G**
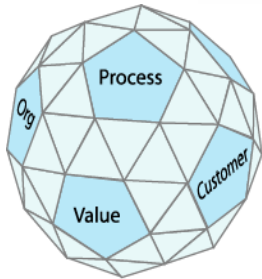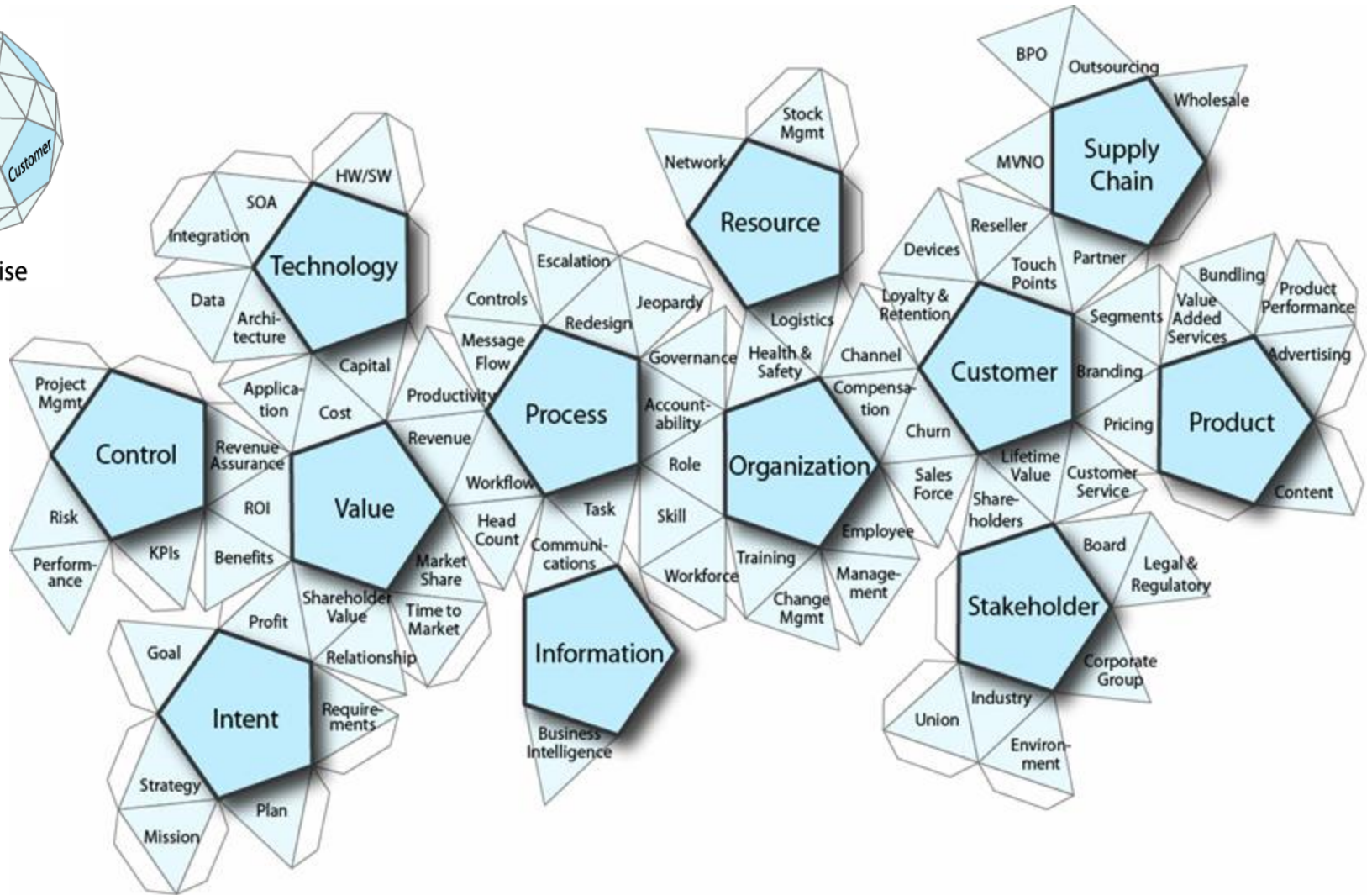
An Introduction to Enterprise Architecture © 2005

Lines of Business

Security / Standards / Workforce

Technology – Business – Strategy

Current Architecture	
Goals & Initiatives	C O M P O N E N T S
Products & Services	
Data & Information	
Systems & Applications	
Networks & Infrastructure	

Architecture Management & Transition Plan

Lines of Business

Future Architecture	
Updated Strategic Goals & Initiatives	C O M P O N E N T S
Improved Business Products and Services	
Enhanced Data and Information Flows	
Integrated Systems and Applications	
Optimized Networks and Infrastructure	

CURRENT ARCHITECTURE

FUTURE ARCHITECTURE

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Enterprise Architecture domains

Holistic View of the Enterprise

IBM's Actionable Enterprise Architecture Solution

Performance Monitoring and Measurement

Enterprise Architecture

(Business-IT Alignment, Enterprise Transformation)

Transformation Plan and Initiatives

Portfolio Management

(Cost/Risk/Benefit Analysis, Value Based Selection, Roadmap Alignment)
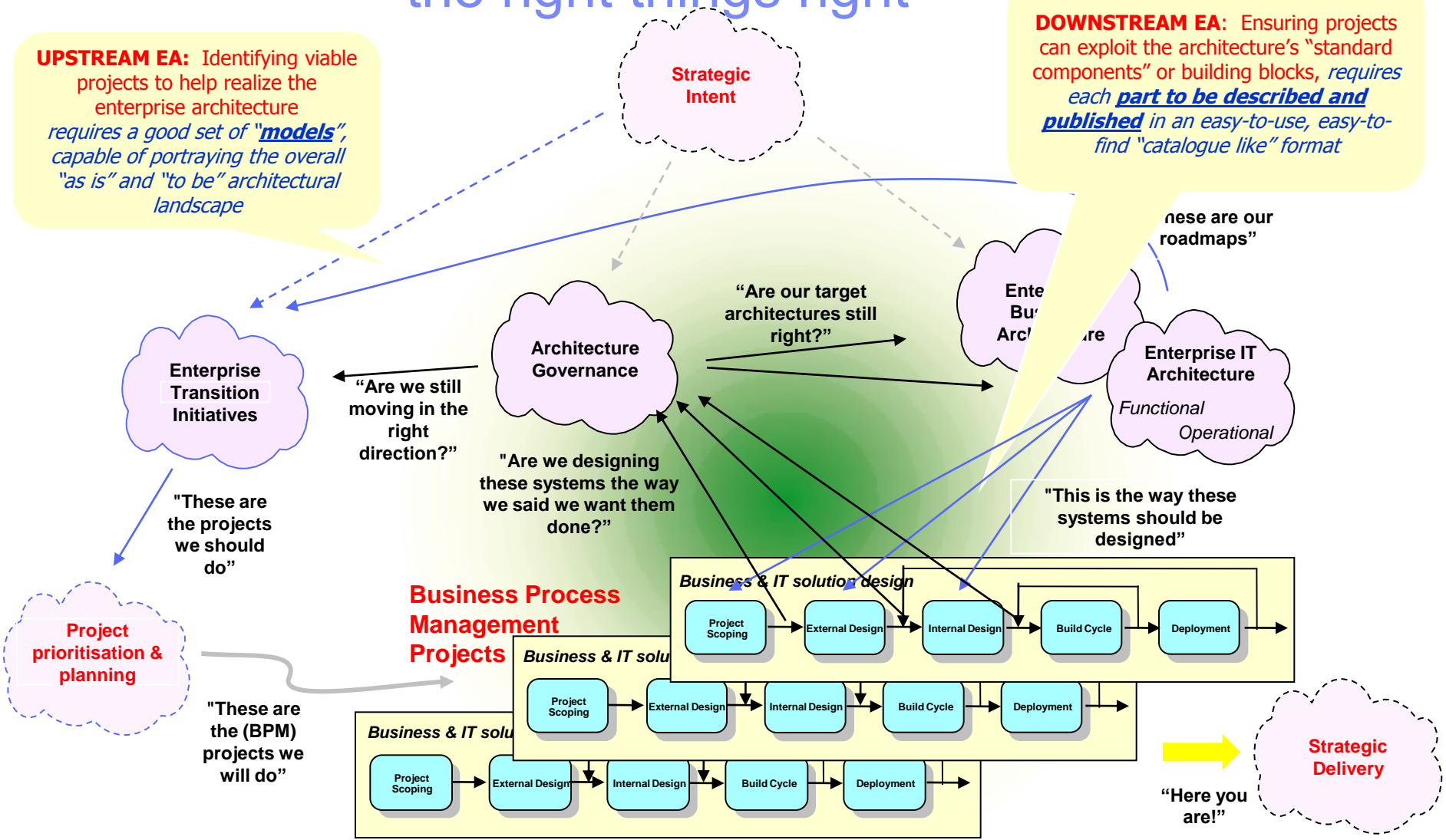
Prioritized Projects for Execution

Project Management and Execution

(Scope Management, Time Management, Budget Management, Solution Design and Delivery)

Enterprise Architecture enables organizations to "do the right things right"

UPSTREAM EA: Identifying viable projects to help realize the enterprise architecture *requires a good set of "**models**", capable of portraying the overall "as is" and "to be" architectural landscape*

DOWNSTREAM EA: Ensuring projects can exploit the architecture's "standard components" or building blocks, *requires each **part to be described and published** in an easy-to-use, easy-to-find "catalogue like" format*

Strategic Intent

"...hese are our roadmaps"

Enterprise Transition Initiatives

"Are we still moving in the right direction?"

Architecture Governance

"Are our target architectures still right?"

Ente... Bus... Arch...ture

Enterprise IT Architecture

Functional

Operational

"Are we designing these systems the way we said we want them done?"

"This is the way these systems should be designed"

These are the projects we should do"

Project prioritisation & planning

"These are the (BPM) projects we will do"

Business Process Management Projects

Business & IT solution design

| Project Scoping | External Design | Internal Design | Build Cycle | Deployment |

Business & IT solu...

| Project Scoping | External Design | Internal Design | Build Cycle | Deployment |

Business & IT solu...

| Project Scoping | External Design | Internal Design | Build Cycle | Deployment |

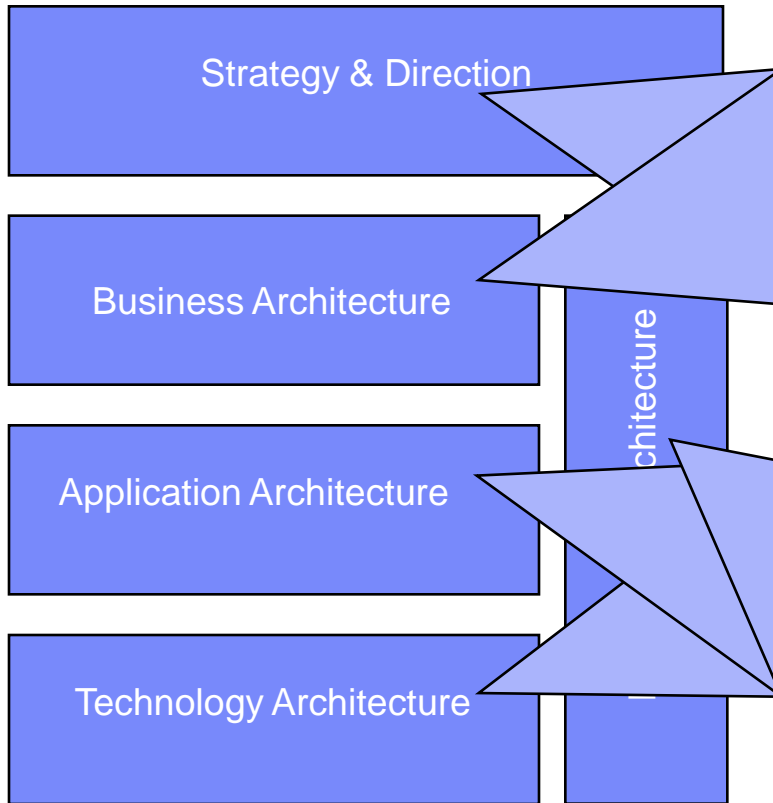**Strategic Delivery**

"Here you are!"

Rational System Architect tool

▸ A **repository** based enterprise modeling capability

▸ collaborative **capture** & **modeling*** of the enterprise architecture

▸ ***Imports*** *assets & **exports** share EA information for re-use and publication*

▸ Support **frameworks** & reference models out-of-the box

▸ Supports architectures of :

- enterprise strategy & initiatives

- business processes, organization (dept/people)

- information flows

- Applications

- Data, hardware, network & infrastructure elements

- … and their interdependencies

▸ SA's modeling capability spans the enterprise, from high level enterprise strategy to supporting infrastructure and everything in between.

▸ Produce **Meaningful Views, impact analysis reports** -Gain **Valuable Insight**

Supports Complete Architecture Frameworks

Strategy & Direction

Business Architecture

Application Architecture

Technology Architecture

▪Organisation Models

▪Business Structure

▪Functional Models

▪Process Models

Areas

- Harvesting (auto discovery)
- Multiple Method Support
- Multi-user repository
- Extensible Metamodel
- Multi-Framework
- Standards based modeling
- Impact Analysis/Traceability
- Analytics/Heatmaps/Simulations
- Reporting
- Web Publishing
- Model Comparison
- Extended Team Support
- Govern and Control
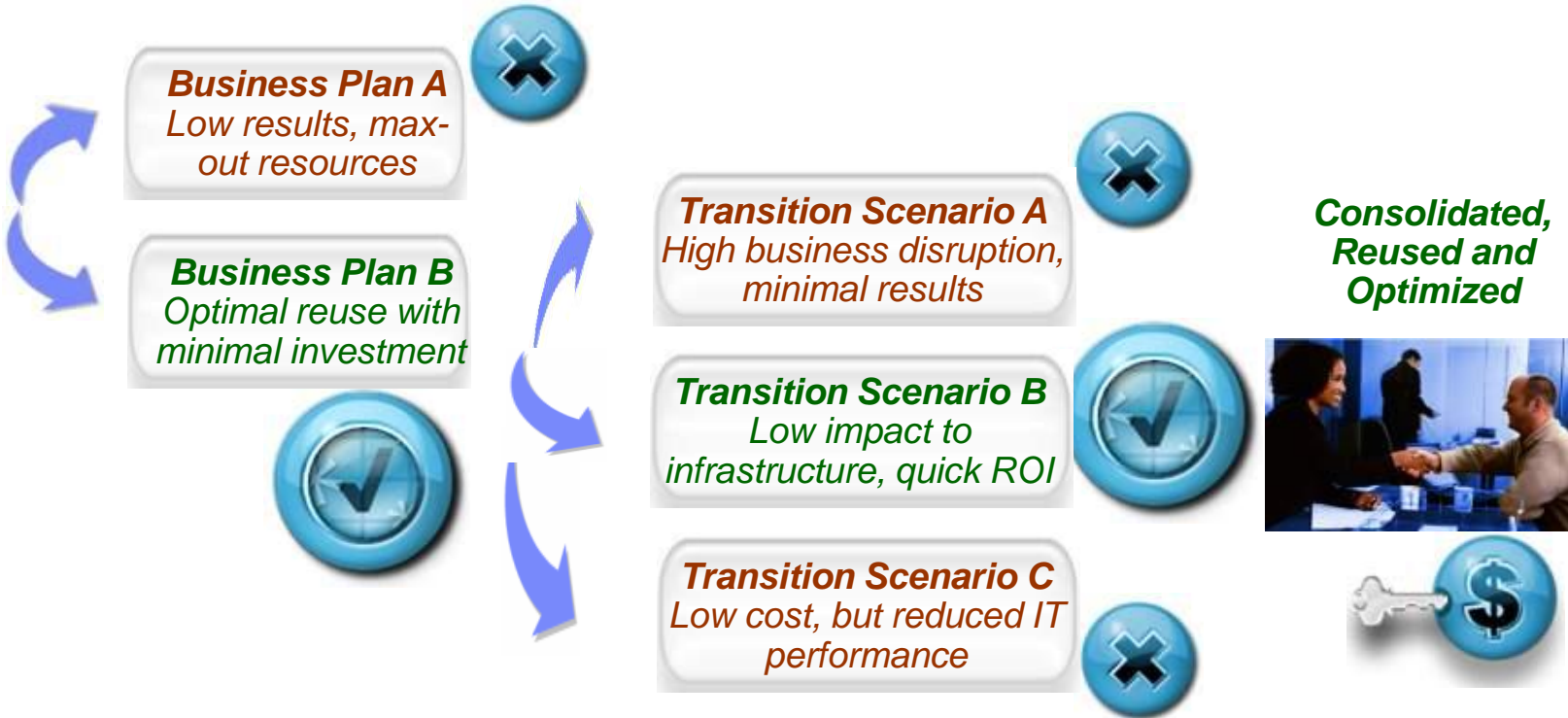- Tool interoperability (EA Ecosystem)
- Reference Models

Group information for more accurate planning
Unique folders & workspaces for current- and future-state analysis

Example consolidation exercise

Company A
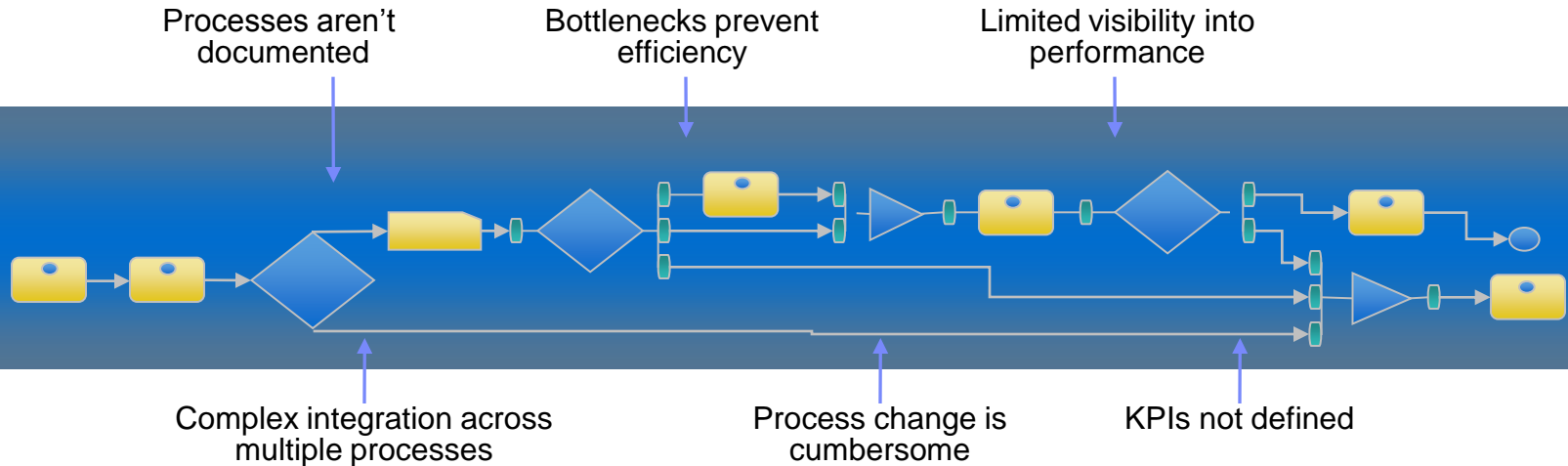*Redundant, Inefficient, High Cost*

Business Plan A
Low results, max-out resources

Business Plan B
Optimal reuse with minimal investment

Transition Scenario A
High business disruption, minimal results

Transition Scenario B
Low impact to infrastructure, quick ROI

Transition Scenario C
Low cost, but reduced IT performance

Consolidated, Reused and Optimized

- *Mergers*
- *Acquisitions*
- *Consolidation*
- *Cost-Cutting*

- *Divestures*
- *Outsourcing*

Business Process Modeling and Analysis

BPA solves common business challenges . . .

Processes aren't documented

Bottlenecks prevent efficiency

Limited visibility into performance

Complex integration across multiple processes

Process change is cumbersome

KPIs not defined

Software		
Integration	Modeling	Monitoring
Forms	Rules Engine	Workflow

Expertise and Assets		
Models	Process Knowledge	Metrics
Policies	Business Logic	Methodology

Multiple views to all the Stakeholders
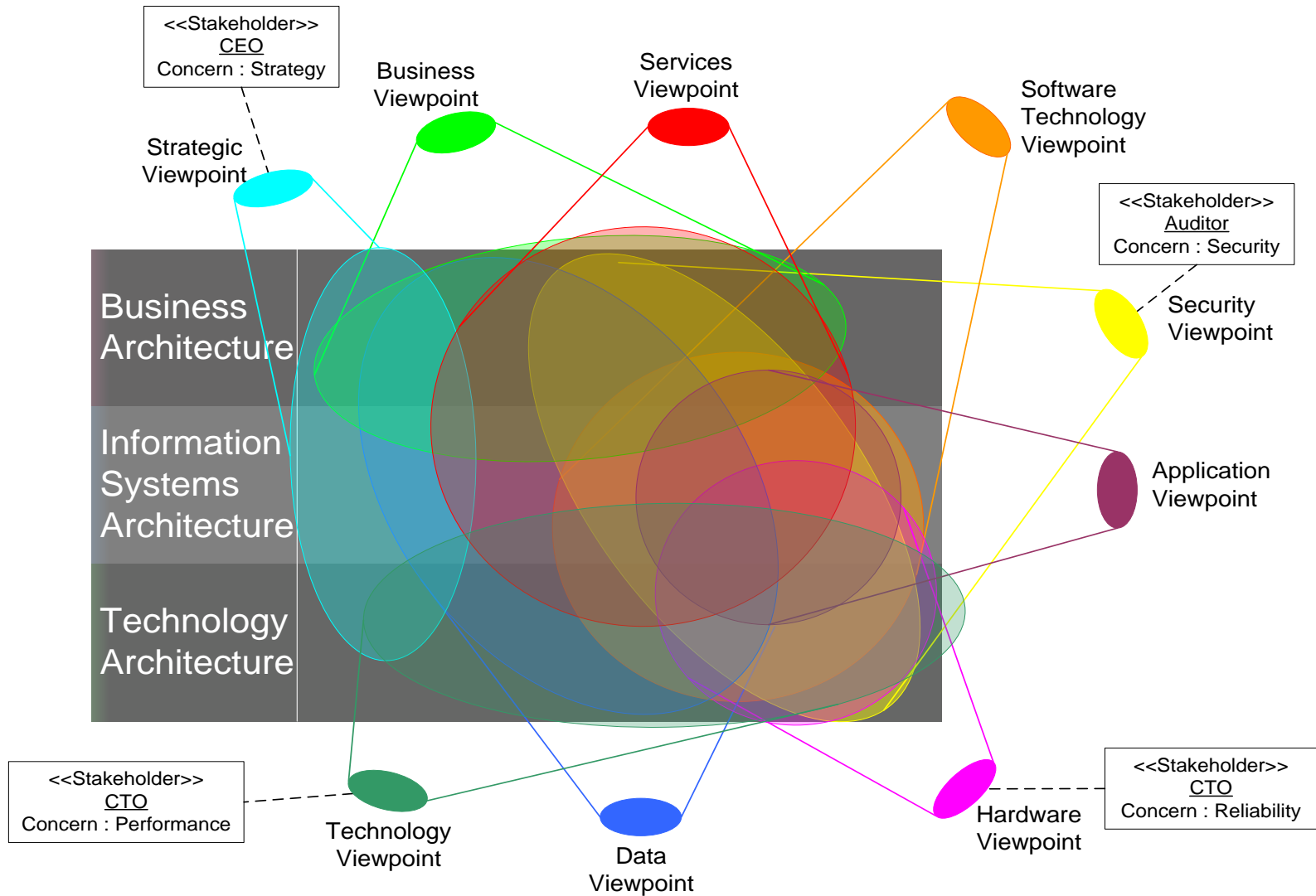
Enterprise Architecture Values

- Establish <u>governance</u> by assuring IT investments and projects are always aligned with business strategy

- Create an <u>agile organization</u>, that can quickly adapt to change, by staying a step ahead of business challenges (compliance, competition, shifting market trends etc)

- Establish a <u>"Blueprint" of your Enterprise</u> to be provide/reveal & manage information necessary for streamlining decision-making

- <u>Plan & Maximize projects of solution implementation</u> and demonstrate ROI in manageable segments

- Leverage EA to set a <u>successful Business (e.g. Strategy Maps) & IT direction (e.g. Technology Roadmap)</u>

- Reach out to the extended teams to <u>maintain consistent information</u> which are up to date, supported and sustained over time