

Enterprise Architecture = Architecting the Enterprise?

Gregor Hohpe CTO Office, Google Cloud Chief Architect, Allianz SE



Enterprise Architecture = Architecting the Enterprise?

Architects in the enterprise are often regarded as ivory tower residents who bestow their utopian plans upon project teams in the form of colorful diagrams that bear little to no resemblance to reality. The most suspicious in this group are often the "Enterprise Architects" who are perceived as being furthest from actual technical problems.

However, large-scale IT operation and transformation require transparency across hundreds or thousands of applications running on all sorts of middleware in data centers around the globe. The very enterprise architects are likely the only ones who stand a chance to bring transparency into such an environment and who can direct IT investments in the hundreds of millions of Euros towards modernization and run-cost reduction. This sounds a lot more exciting and valuable than drawing pictures!

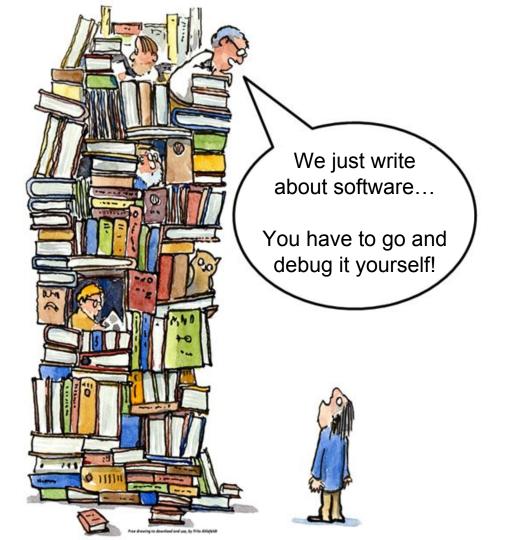
This session takes a serious but light-hearted look at the role of enterprise architects in modern IT organizations.

The

Enterprise

Architect's

Office

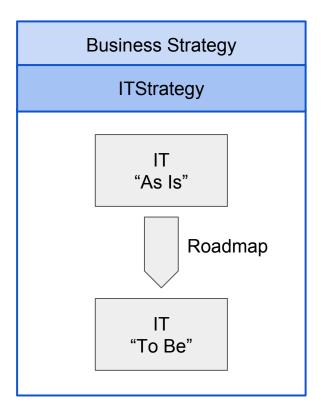


The Enterprise Architect

The Purpose of Enterprise Architecture

The Role of Enterprise Architecture

- 1. Understand the business strategy
- 2. Translate into an IT strategy
- 3. Create transparency
- 4. Define IT target picture
- 5. Define a roadmap
- 6. Harmonize and govern
- 7. Obtain feedback and refine
- 8. Coach and mentor



1) Understand the business and its strategy

- Growth areas
- Profitability
- Geographic expansion
- Geopolital aspects
- Acquisitions and divestitures

"Architecting the business"

- Divisions / business lines
- Group level vs. divisions
- Reporting lines
- Matrix organization
- Hidden org chart / loyalties

"Reverse engineering the organization"

Most business domains are much more interesting and exciting than it may seem, even insurance!

1) Understand the Role of IT

	Cost Center	Asset	Partner	Enabler
Focus on	Cost	Return on Investment	Business Value	Speed & Innovation
Typical CIO Reporting line	CFO	COO	CDO	CEO
Common Strategy	Outsource IT	Harmonize / Rationalize	Insource IT	IT = business
Levers		Economies of Scale		Economies of Speed

2) Translate Business Strategy into IT Strategy

Strategy is...

- ...not reality
- ...defining what you won't do
- ...not the vendor's product road map

"Better products at lower price" is not a strategy, but wishful thinking.

2) Translate Business Strategy into IT Strategy

High	 Coordination Unique business units with a need to know each other's transactions Examples: Merrill Lynch, Toyota Motor Marketing Europe, MetLife Key IT capability: access to shared data, through standard technology interfaces 	 Unification Single business with global process standards and global data access Examples: Delta Air Lines, Dow Chemical, Pepsi Americas Key IT capability: enterprise systems reinforcing standard processes and providing global data access
Low	 Diversification Independent business units with different customers and expertise Examples: Johnson & Johnson, Carlson Companies, GE Key IT capability: provide economies of scale without limiting independence 	 Replication Independent but similar business units Examples: Marriott, CEMEX, ING DIRECT Key IT capability: provide standard infrastructure and application components for global efficiencies

ENTERPRISE

CREATING A FOUNDATION FOR BUSINESS EXECUTION

JEANNE W. ROSS

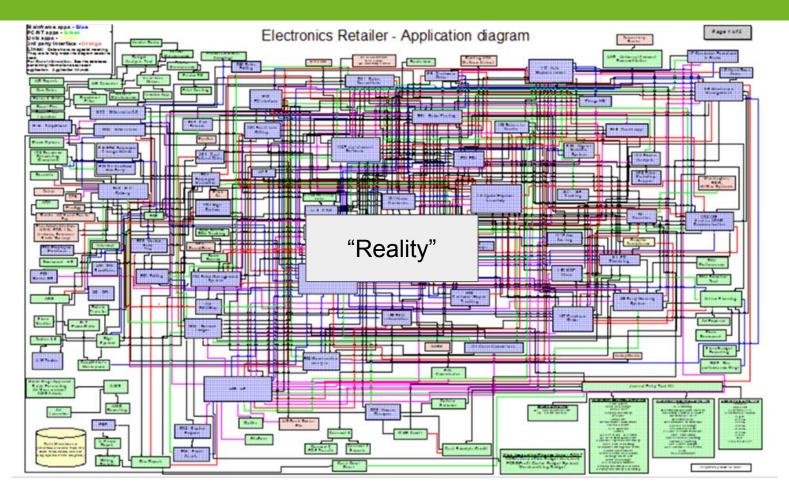
PETER WEILL

DAVID C. ROBERTSON

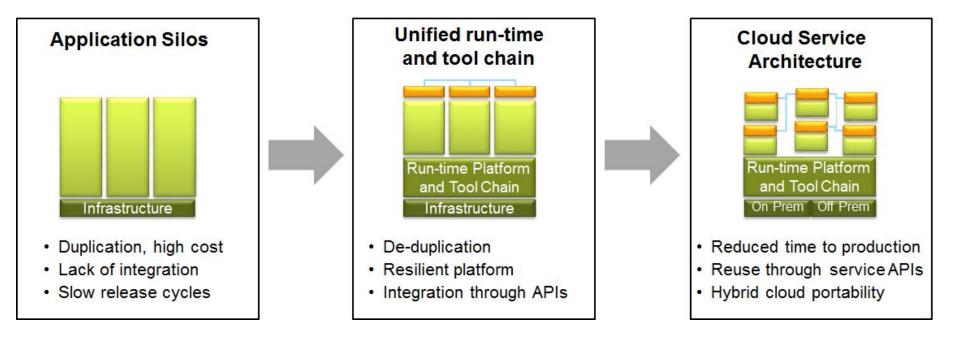
RVARD BUSINESS SCHOOL PRESS

RCHITECTURE AS STRATEGY

3) Create Transparency

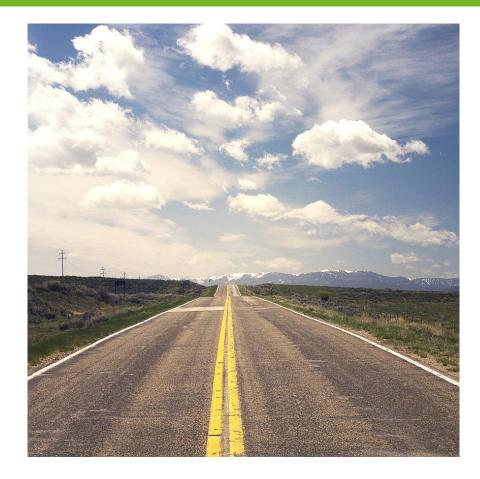


4/5) Define the IT Target Picture & Roadmap

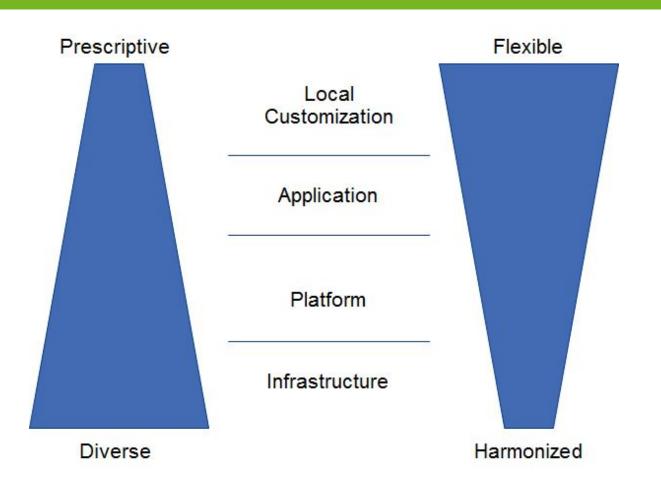


A good target picture is simple and convincing to a diverse audience.

5) Define a roadmap

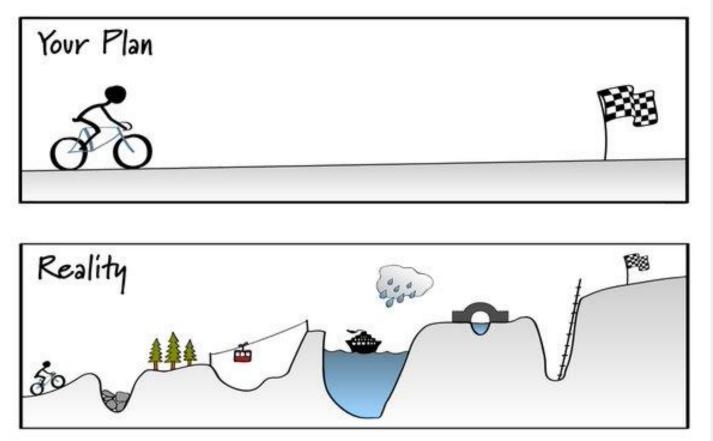


6) Harmonize and govern



- Publish common principles to be considered by projects
- Track projects through direct involvement
- Have a review /
 decision
- Ensure the review board brings value to projects
- Have an escalation path

7) Obtain feedback and refine



- It won't happen the way you planned.
- Stay connected to reality.
- You may not like what you see, but it's a lot better than not knowing.
- There is no "7-step plan" for success. You must course correct.

@onek2go

8) Coach and mentor



- You'll need support
- You won't have enough people with the right skills
- You'll learn a lot by helping other teams
- Teach new concepts and ways of working
- Publish technical strategy papers
- Establish qualification programs

Thinking like an Enterprise Architect

Connections

Abstractions

Decisions

Sometimes it just sticks on you...

Enterprise Architecture? Just a matter of viewpoints!

1. Connections

- a. With the governance processes => understand what your levers are
- Across the architectural layers => strategy, business operating model, application, data, infrastructure. Here Ross comes handy for the highest level
- c. People and company's available knowledge => there is probably a lot around but siloed

2. Abstraction

- a. Models
- b. Each model needs to support multiple viewpoints: business and IT to assure we are talking about the same thing => enterprise ubiquitous language! Connection with DDD!

3. Decisions

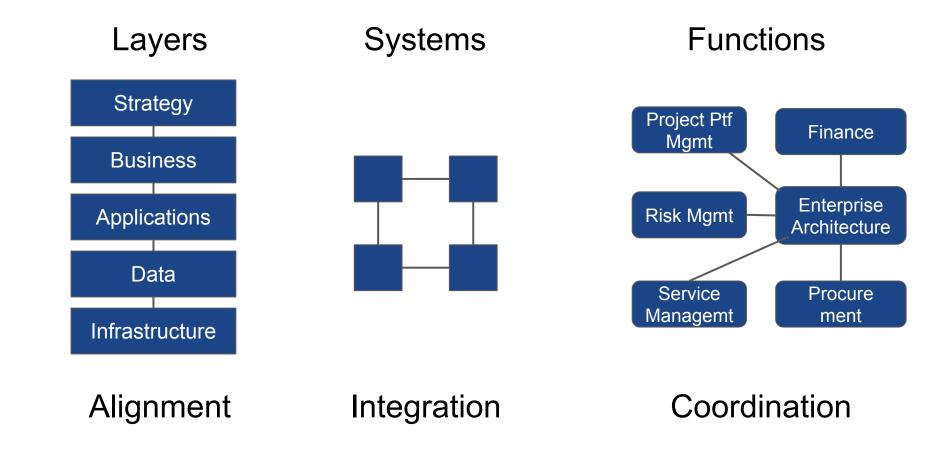
- a. 'learn the art and put it apart' italian expression. Frameworks are a mean not the goal
- b. EA as GPS navigator (pics to support): evaluate implications on your models: cost of change is nothing
- c. Validate the decisions across all layers using your connections: leave the tower to validate the decisions and collect feedback

Connections

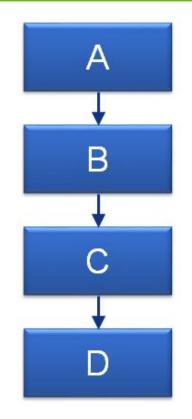


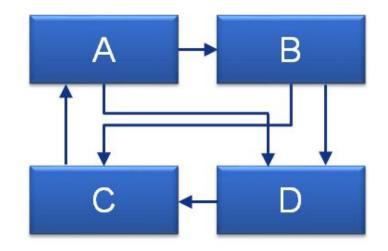
Connections

Connections between:

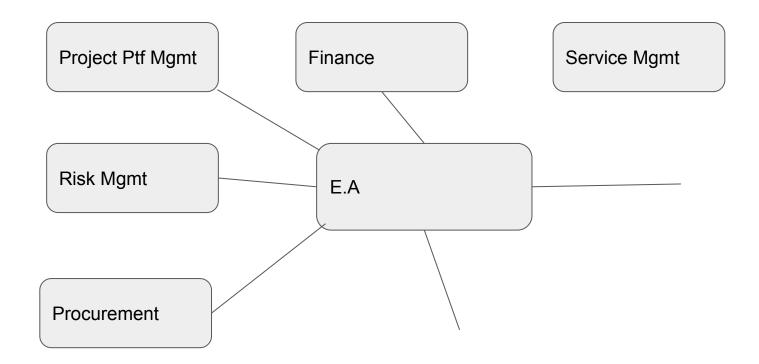


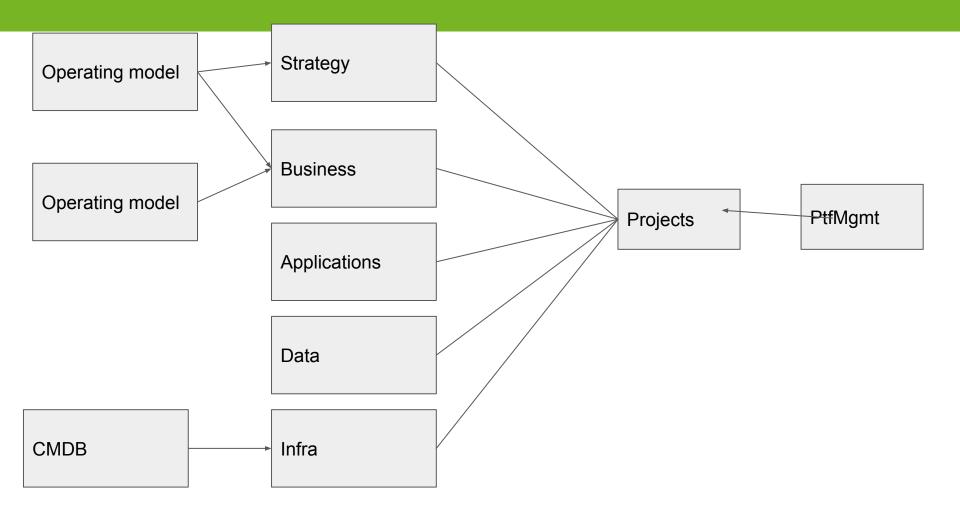
No one cares about your architecture...



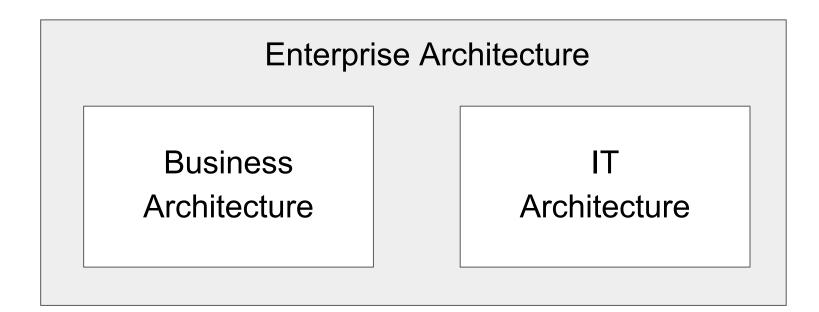


But they do care about the properties your architecture gives the system!





Enterprise Architecture is the Glue between Business

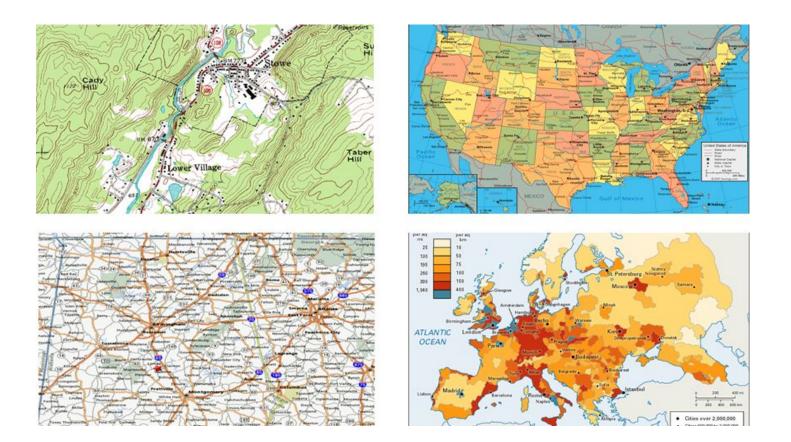


Abstraction

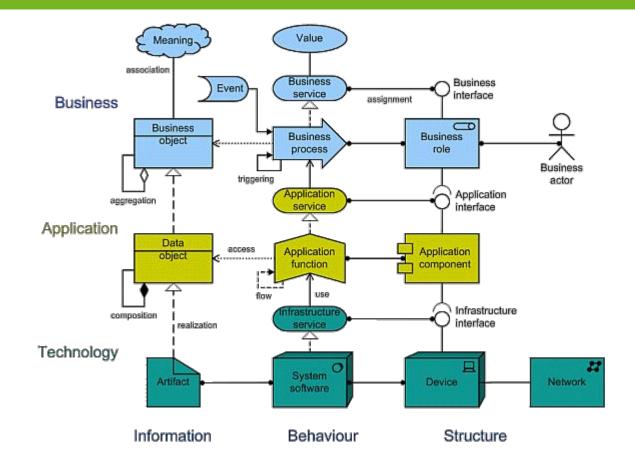
Abstraction

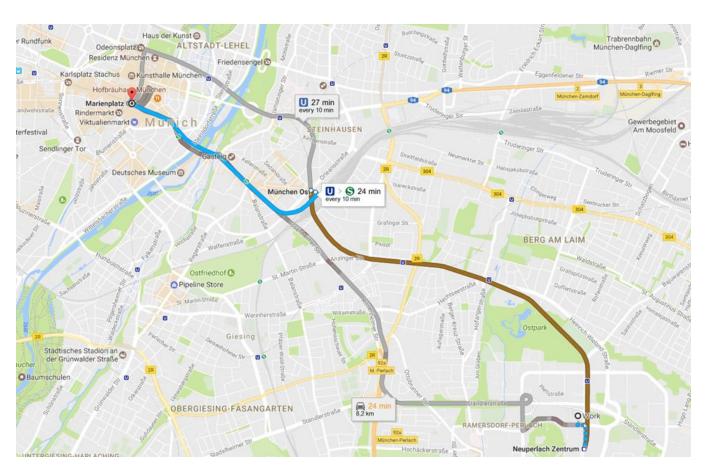
Abstraction = bringing out the essence to make better decisions

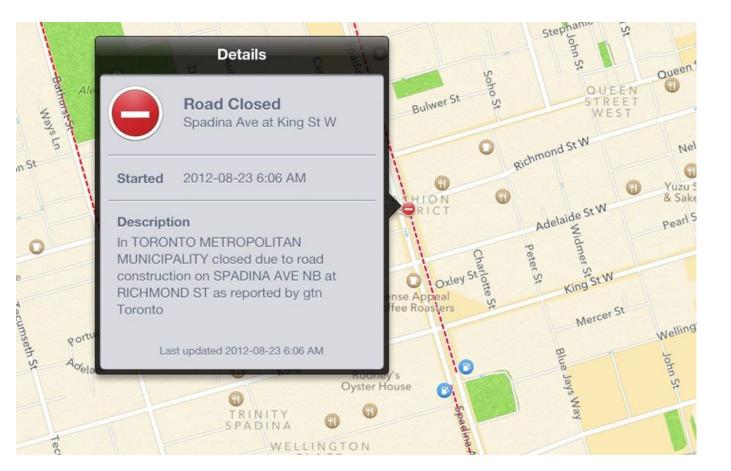
To find the right representation, you need to know what question you are looking to answer.

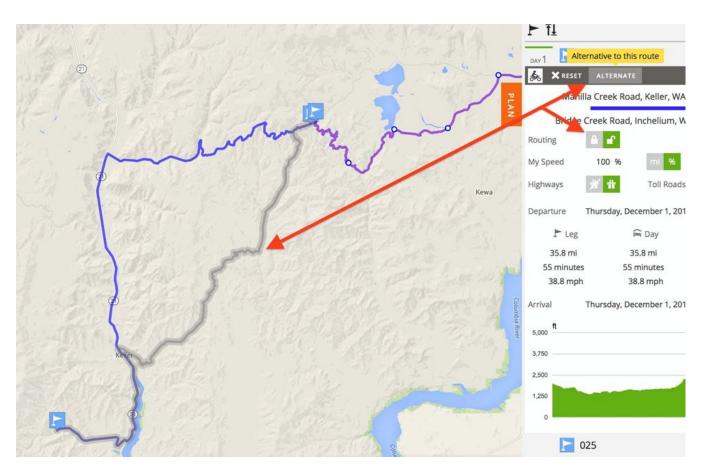


An Enterprise Architecture Model









Decisions

SKYLINE TRAIL

Loughry Woods Tr. Summit Rock Castle Rock Parking Indian Rock Sanborn Trail

SARATOGA GAP TRAIL

Charcoal Road Long Ridge Table Mountain Page Mill Road 1.9 mi 2.2 mi 3.7 mi 7.6 mi

1.6 mi

2.2 mi

3.1 mi

3.2 mi

4.9 mi

Decisions

Focus on concrete problems to solve

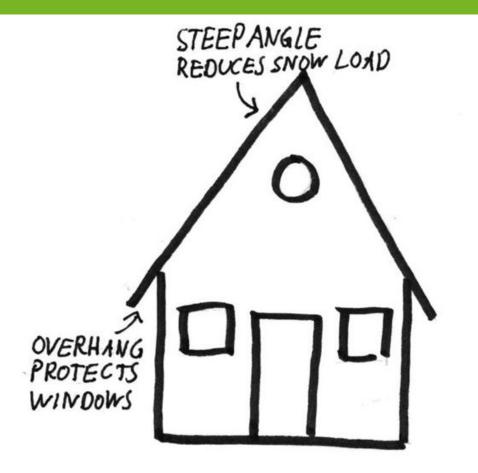
- Focus on measurable outcomes
- Divide and Conquer
- Frameworks are a useful tool, but not the goal

Is this architecture?

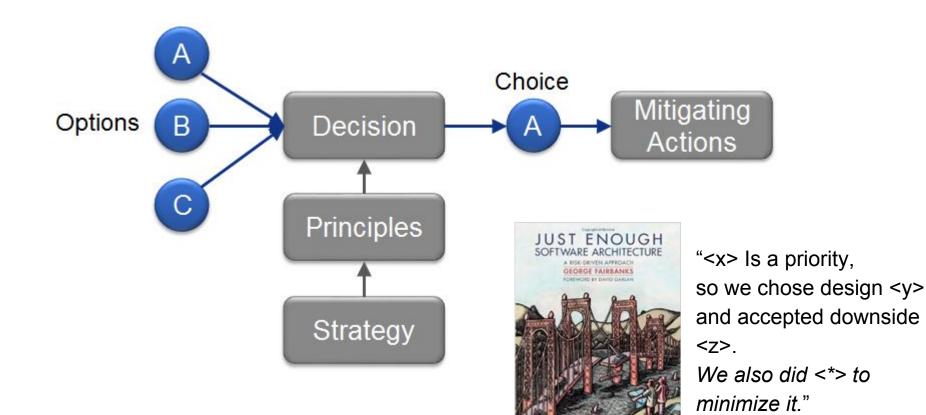


Would you have paid an architect for this?

What about now?



Decision Discipline



Progressively build your enterprise view...accept fuzzy areas



Enterprise Architecture is not black magic. Much of it is common sense. Most people get lost in the complexity and scope of it or become enamored with frameworks. There's enormous demand for enterprise architects who achieve measurable results.





37 Things One Architect Knows About IT Transformation

A Chief Architect's Journey

Gregor Hohpe

@ghohpe

www.EnterpriseIntegrationPatterns.com www.linkedin.com/in/ghohpe

leanpub.com/37things/c/goto2017

Remember to rate this session!

