

The Emerging Role of the Enterprise Architect

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THE *Open* GROUP
Making standards work®

The next information revolution

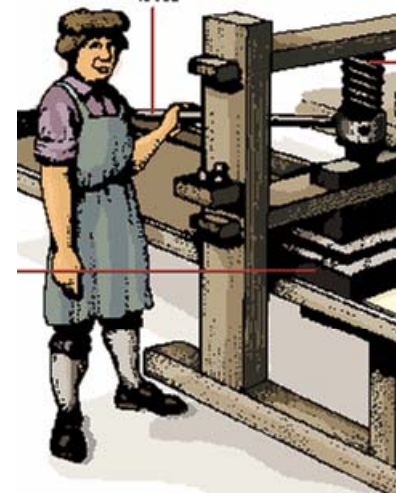
- ❑ “So far, for 50 years, the information revolution has centered on data ...
 - their collection, storage, transmission, analysis, and presentation
- ❑ It has centered on the "T" in IT
- ❑ The next information revolution asks,
 - What is the MEANING of information, and what is its PURPOSE?”

Source: The next information revolution by Peter F. Drucker, 1999

The 5th Information Revolution?

1. Invention of writing in Mesopotamia, 5000 to 6000 years ago
2. First written book in China – around 1300 B.C.
3. Invention of the printing press – 1450 to 1455
4. Information Technology – circa 1950
5. Enterprise Architecture – circa 2000

Impact – by the year 1500



> 10,000 Unemployed

1,000 across Europe

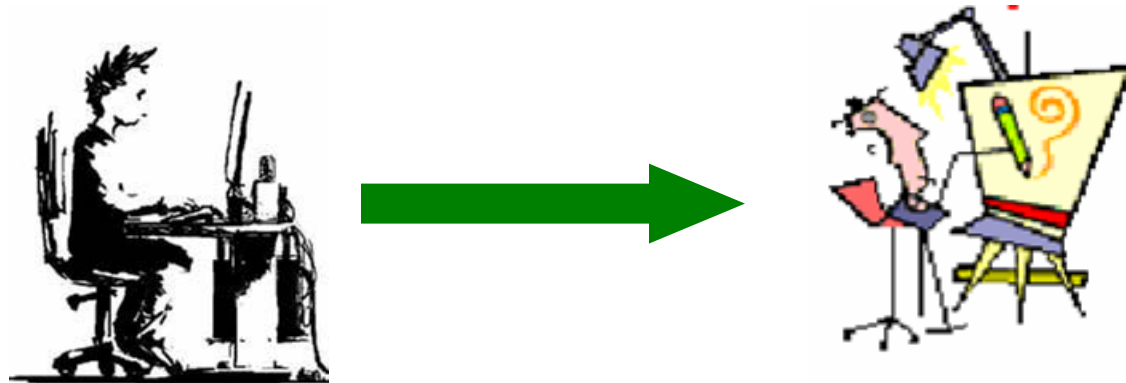
Evolution from “T” to “I”

- By 1580 or so
 - Printers, with their focus on technology, had become ordinary craftsmen, respectable tradesmen to be sure, but definitely not of the upper class.
 - Their place was soon taken by what we now call publishers (though the term wasn't coined until much later), people and firms whose focus was no longer on the "T" in IT but on the "I."

Source: The next information revolution by Peter F. Drucker, 1999

History repeating itself?

- ❑ Software development with its focus on technology, is being off-shored and outsourced
- ❑ Their place is being taken by what we now call architects (though there remains some discussion around the definition of the term), people and firms whose focus was no longer on the “T” in IT but on the “I”



“The IT people of the printing revolution were the early printers”, Drucker

Customer problem statement

- “I could run my business better if I could gain operational efficiencies improving
 - **the many different business processes of the enterprise**
 - both internal, and
 - spanning the key interactions with suppliers, customers, and partners using
 - **integrated information, and access to that information.”**

Source: “The Interoperable Enterprise”

<http://www.opengroup.org/cio/iop/index.htm>

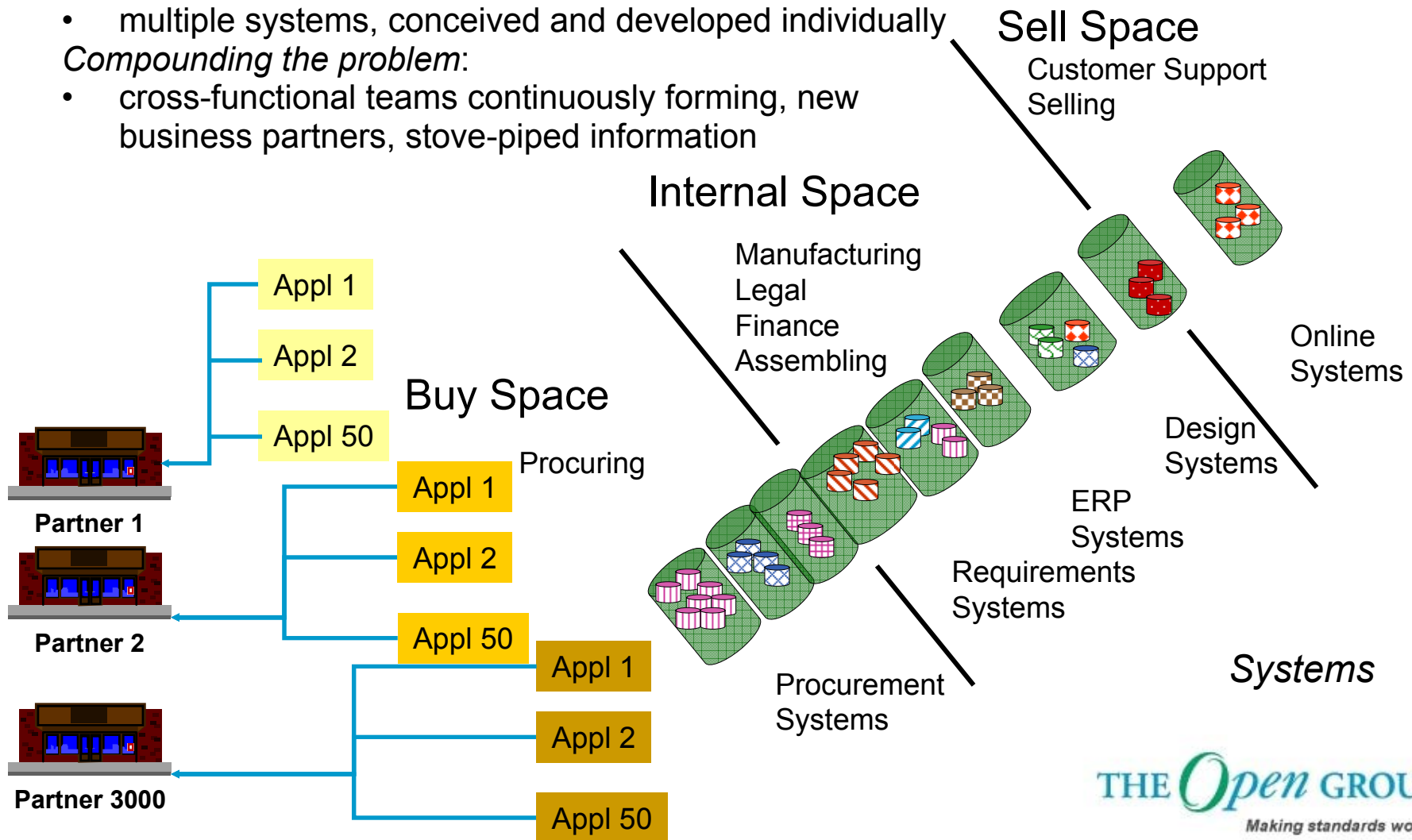
A common problem

The cause:

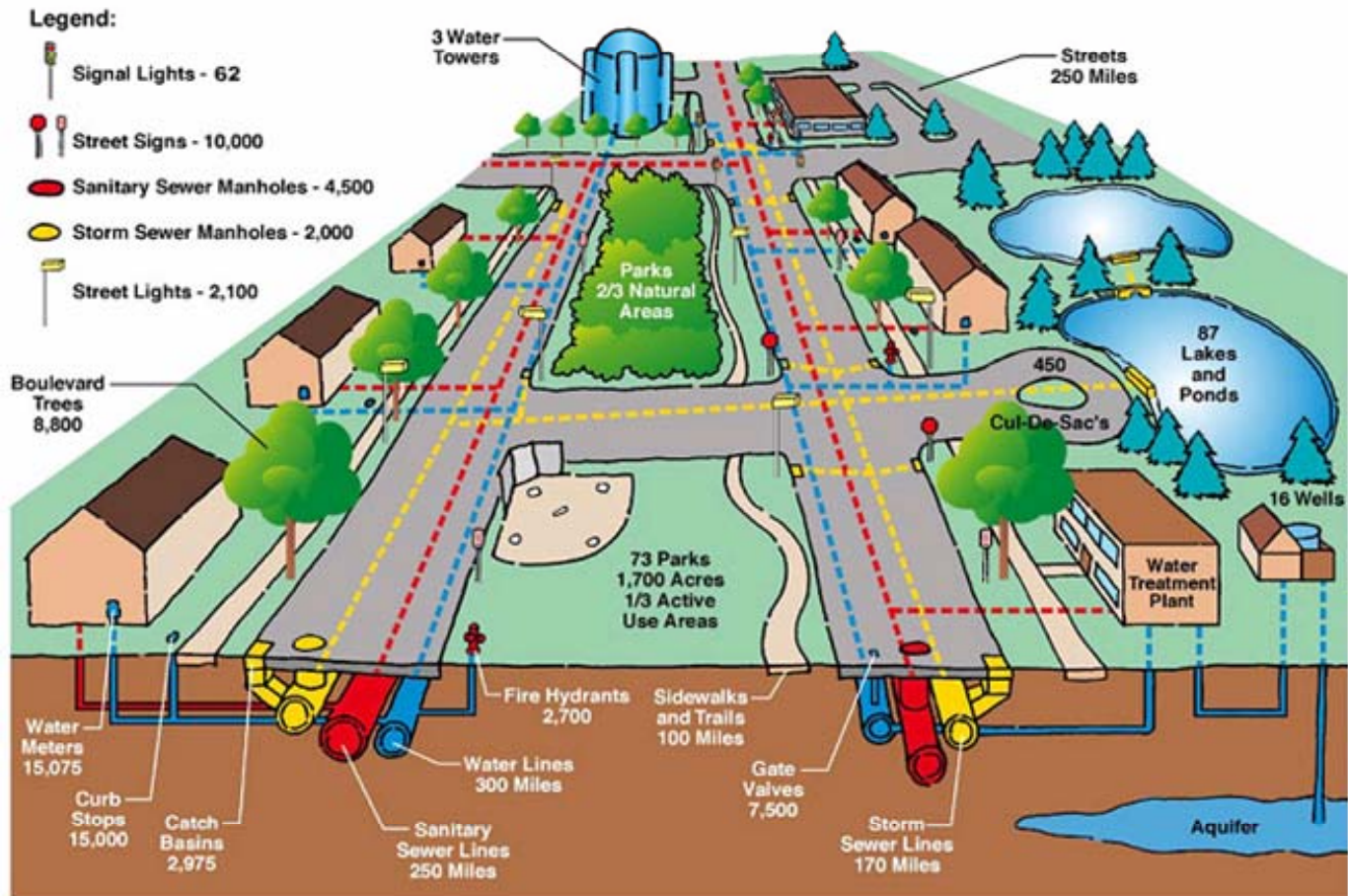
- multiple systems, conceived and developed individually

Compounding the problem:

- cross-functional teams continuously forming, new business partners, stove-piped information



City Planner perspective: Integrated Information Infrastructure



Source: City of Burnsville

An issue of national importance

□ Japan

■ Information technology Promotion Agency

	Biz Strategy		Strategic IT/IS planning		Development		Operation/Maintenance	
	Dev. biz goal / vision	Dev. Biz strategy	Issues/Req. Analysis (Biz/IT)	Solution design (architecture)	Components design (System/Biz)	Solution implementation (Dev./Deploy)	Solution operation (System/Biz)	Solution maintenance (System/Biz)
Sales	Understanding Goal/Vision	Understanding biz strategy	Proposing solutions					
Consultants	Suggesting Goal/Vision	Suggesting biz strategy	Suggesting for formulating solutions	Designing solutions				
IT architects			Designing solution framework	Designing solution architecture	Designing solution components	Developing solution		
Project managers			Developing project planning overview	Managing project	Managing project	Managing project	Managing project	Managing project

CIO Magazine - Table of Contents - March 1, 2005

| Enterprise Architecture | **A New Blueprint For The Enterprise**

By Christopher Koch

Enterprise architecture is not just about mapping and standardizing hardware and software anymore. Now it's about services, events and-get this-good old ROI.

Wanted: Enterprise Architects

By Ben Worthen

IT has grown so big that the CIO can't handle it all. To ensure that IT is always aligned with the business, you need an enterprise architect.

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How to Get Started

BY CHRISTOPHER KOCH

Feature Article

This sidebar is part of the feature article "A New Blueprint For The Enterprise"

[➤ Read Article](#)

Some standard templates can jump-start your thinking about enterprise architecture. But don't expect them to provide all the answers. "Frameworks are the filing cabinet you put the architecture documents into," says Bruce Robertson, vice president of enterprise planning and architectures for research company Meta.

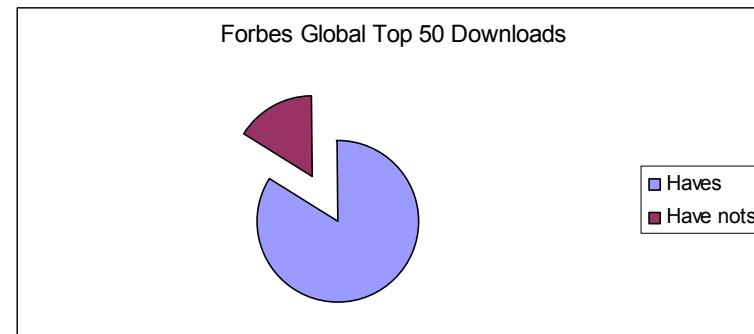
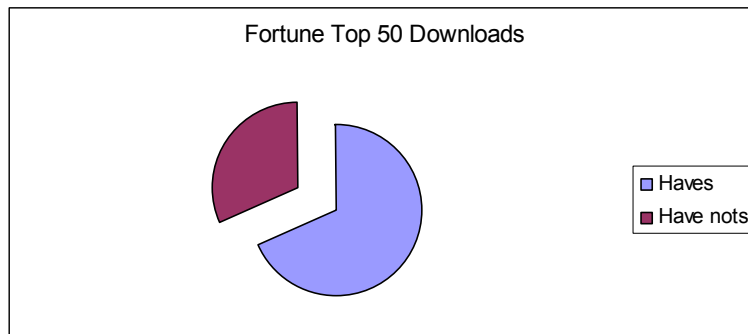
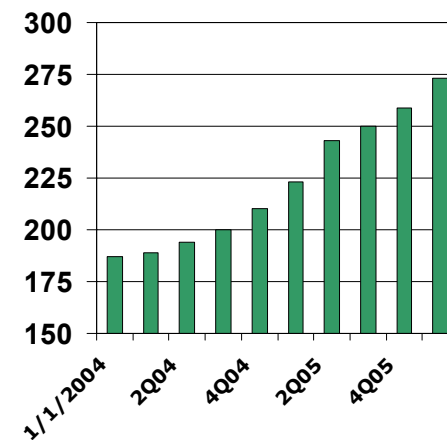
- ◆ One of the most popular—and free—frameworks is the Open Group Architecture Framework (Togaf).

www.opengroup.org/architecture/

Demand for information

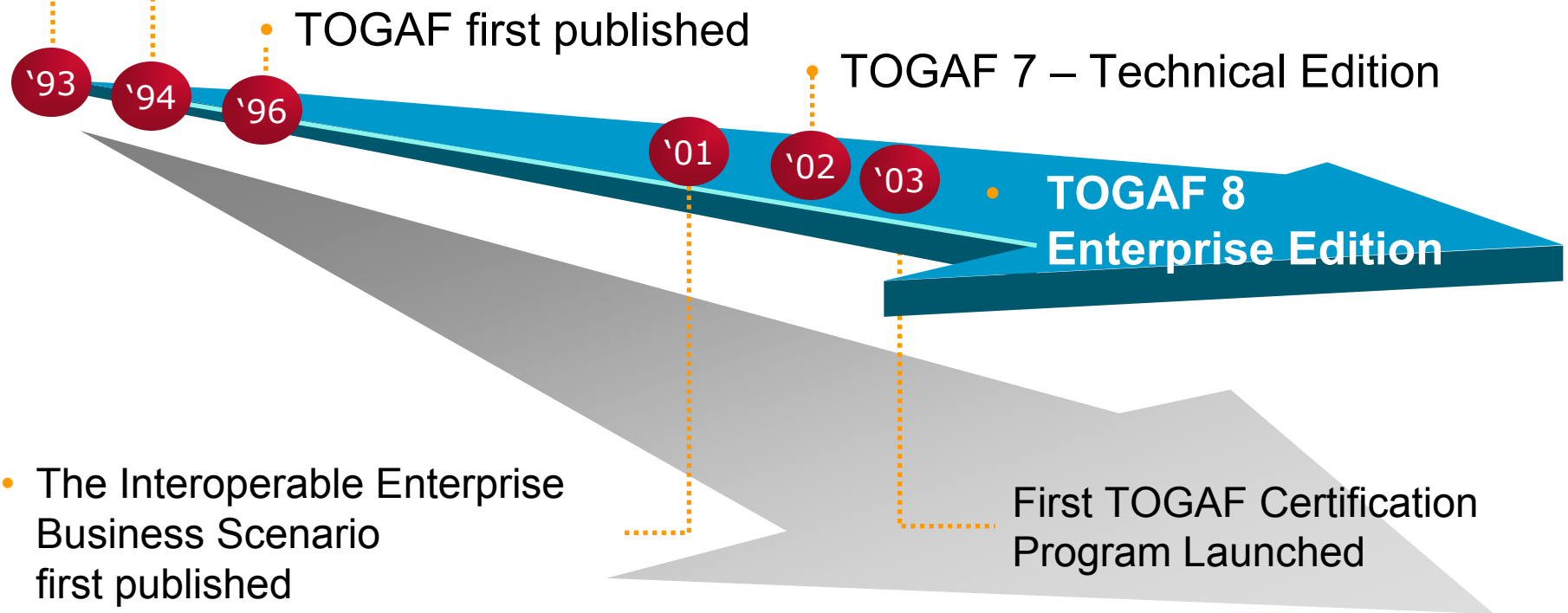
- ❑ TOGAF™ 8
 - >15,000 downloads
 - > 2,000 certified practitioners
- ❑ > 125 corporate members of The Open Group Architecture Forum
- ❑ Since publication in October 2005
 - >1,000 TOGAF 8 books shipped

Membership Numbers



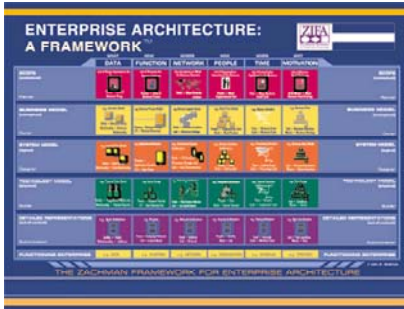
Member (End User) Driven

- Customer members demand architecture standards ...
 - Customer members select TAFIM as preferred starting point...
 - DoD Information Systems Agency (DISA) donate TAFIM as base

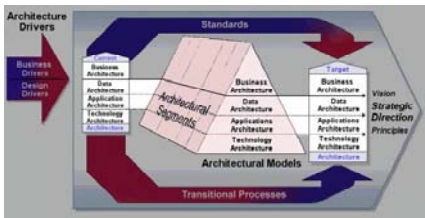


Supporting industry integration

TOGAF

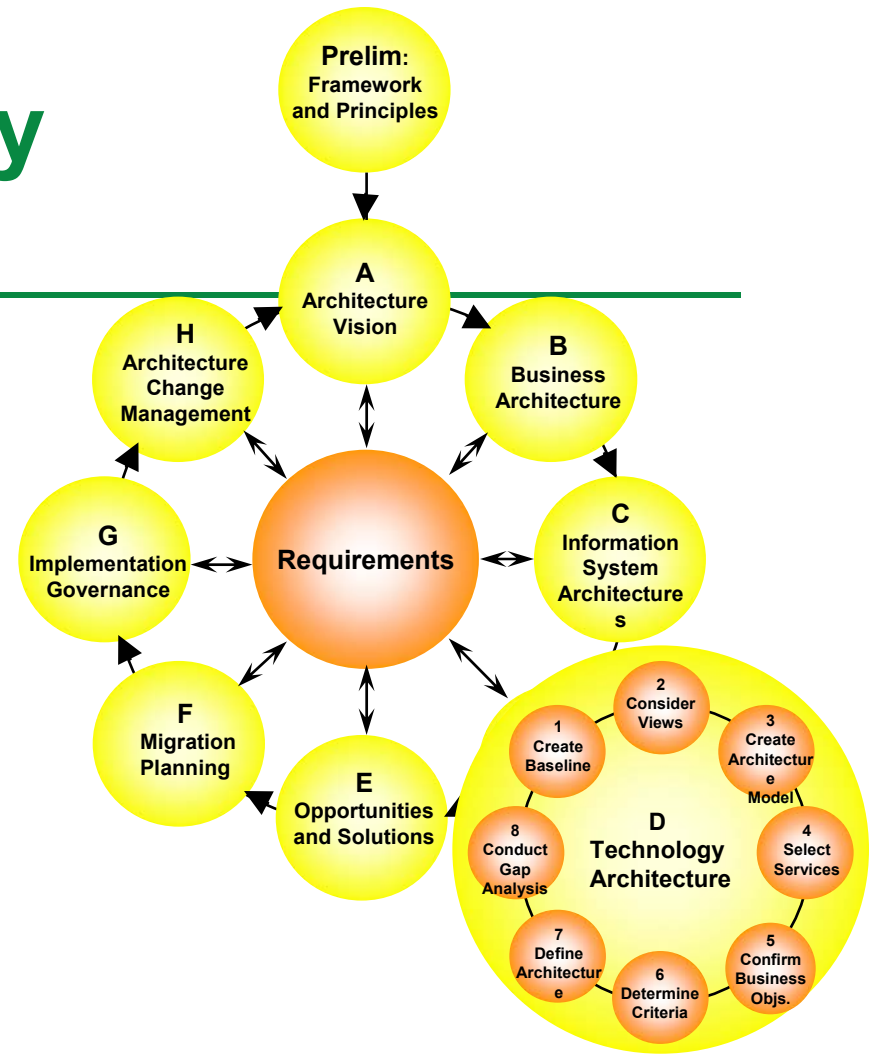


Zachman Framework



Federal Enterprise Architecture Framework

Support or Guidance



TOGAF ADM
Architecture Development Method

Other Frameworks

Certification/Professionalism

- ❑ The breaking down of barriers within and between enterprises demands a city planner perspective of the enterprise architecture
- ❑ Enterprises need assurance that the staff or service providers they hire have the skills and experience necessary to address the complexities of enterprise architecture
- ❑ Professional enterprise architects need a recognized, portable and professional grade qualification:
 - TOGAF™ Architecture Development Method provides an important toolset
 - ITAC certifies Architects that meet the global open standard developed by members of The Open Group for skills and experience in the field

Architect Certification

□ Positioning

	Knowledge	Experience
Industry Best Practice	TOGAF	IT Architect
Commercial Solutions		



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TOGAF Jobs
Average Salary for The Open Group Architecture Framework (TOGAF) Skills

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TOGAF

This section looks at the demand for **TOGAF** skills across the **UK** with a comparison to our **Processes & Methodologies** category. Included is a guide to the average salaries offered in IT job ads that have cited TOGAF over the last 3 months to **26 April 2006** with a comparison to the same period last year.

The Open Group Architecture Framework (TOGAF)

	3 Months to 26 April 2006	Same Period Last Year
Rank	791	799
Rank Change on Same Period Last Year		▲ +8
Matching Job Ads	94	33
As % of All Permanent Job Ads Sampled	0.044 %	0.018 %
As % of Category	0.099 %	0.042 %
Salaries Quoted	53	24
Average Minimum Salary	£72,581	£54,583
Average Salary	£74,970	£58,292
% Change on Same Period Last Year		+28.61 %
Average Maximum Salary	£77,358	£62,000
Processes & Methodologies		
Matching Job Ads	95263	79365
Salaries Quoted	72213	59892
Average Minimum Salary	£43,186	£42,453
Average Salary	£46,801	£45,744
% Change on Same Period Last Year		+2.31 %
Average Maximum Salary	£50,415	£49,034

TOGAF Average Salaries

[Managing Consultant - Business Technology Strategy £100,000+ total pa](#)

Job Type: Permanent
Salary: £100,000 + Total package
Location: UK
Posted: 26/04/2006 11:43:59

[Technical Architect - Reuse - Yorkshire](#)

Job Type: Permanent
Salary: To 50k
Location: West Yorkshire
Posted: 25/04/2006 21:33:24

[Technical Solutions Architect - Defence / Government](#)

Job Type: Permanent
Salary: £60000 per annum + car+bonus+benefits
Location: South East
Posted: 24/04/2006 16:40:13

[Enterprise Architect - Leeds](#)

Job Type: Permanent

Ads by Goooooogle

[Fast, Simple, Proven Way](#)
To Implement A Service Oriented Architecture
www.capeclear.com

[SOA Education Classes](#)
Public and in-house education for service oriented architecture
www.cbdiforum.com/public/even

[Transition to SOA](#)
Flexible, Automated Legacy Modernization from CA. Learn More!

Done

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Source:



Introduction to ITAC

IT Architect Certification

What is ITAC?

- ❑ IT Architect Certification
 - Certification of skills and experience
- ❑ Vendor neutral
 - Developed by consensus
- ❑ Global
 - The same standard worldwide
- ❑ Portable
 - Will be recognized by all employers

Evolution of ITAC

- Members of The Open Group:
 - Organizations shared common IT Architect profession certification programs
 - Similar objectives from one organization to the next
 - Different criteria, processes and certification titles
 - Recognized value of standardizing certification criteria as a basis for promoting architecture profession

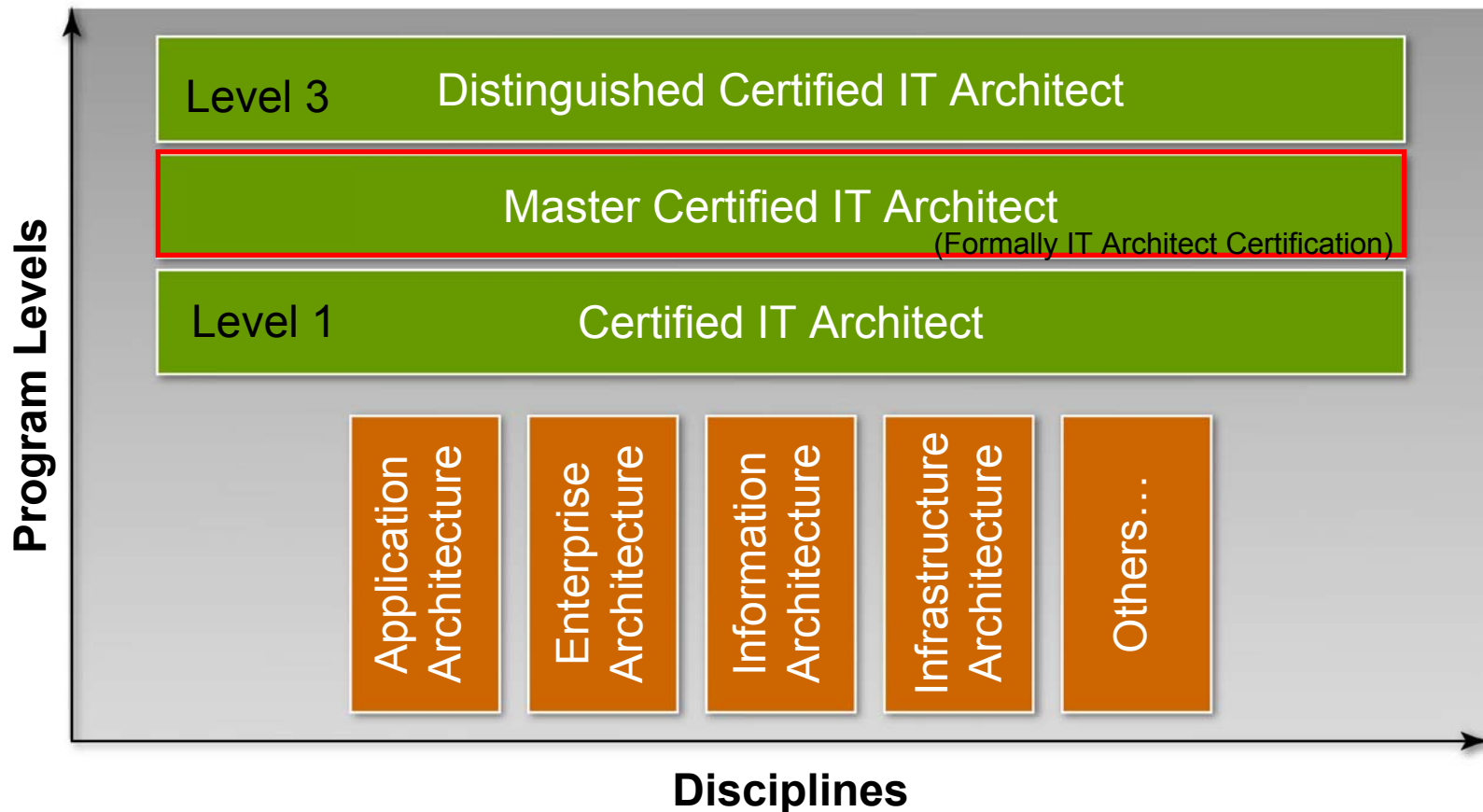
- IT Architect credentialing did not lend itself well to traditional professional certification methods:
 - Examinations
 - Practical Exams
 - Tied to corporate consulting strategies

How it works

- ❑ One set of Conformance Requirements defining the skills and experience that an IT Architect must possess to achieve certification
- ❑ Individual architects may apply for certification directly to The Open Group
 - Certification Board will review all applications
 - Board will interview applicants
- ❑ Companies may apply to have their internal staff development / certification programs Accredited by The Open Group
 - Architects certified through an Accredited program become Open Group certified

ITAC Program

– Certification Levels & Disciplines



Note: Discipline names and definition are evolving

Why is an industry IT Architect certification essential?

Our industry understands the increased importance of IT Architects and of quality control of their practice

- Increasing acceptance, adoption, development ... and convergence in the industry on the definition of an IT Architect
 - Strong interest in an industry certification program for IT Architects
 - Organizations such as the Japanese government are establishing standards for certifying professional IT Architects based on recognizing skills and experience
- And yet ... until now, there have been NO external industry certifications for IT Architects

ITAC has significant value for many constituents

- ❑ For end user organizations:
 - A mark of assurance when contracting architecture services
 - A professional level qualification when hiring staff
- ❑ For vendor organizations:
 - Provides assurance to customers of the skills of their IT Architects
 - Avoids the cost of an in-house certification program
 - Reduces the training cost of new IT Architects
- ❑ For IT Architects:
 - Elevates the practice and quality control of IT architecture in the industry and the professionals who perform it
 - Provides an industry credential
 - Recognition for practitioners

Early adopters

- Certified IT Architects
 - >500 - as of June 5th, 2006
 - >1,450 - as of October 13th, 2006
 - Nearly 2000 – as of February 6, 2007
- Enterprises with Certified IT Architects:
 - Bearingpoint
 - Credit Suisse
 - EDS
 - GTECH Corporation
 - Intel
 - IBM
 - Microsoft
 - New Zealand Inland Revenue
 - QR Systems

Endorsements

❑ Deutsche Post

"The IT Architecture Certification program is very helpful to Deutsche Post World Net. Due to the international nature of our business, we need clear standards that define how we work together uniformly whilst being spread over four locations worldwide. The Open Group has given us these clear standards saving us the work of defining our own, proprietary set. Due to these global standards we can now cooperate more efficiently and can define more exact criteria for recruiting new Architects." Robert Leaman, Head of Architecture & Technology Consulting at Deutsche Post

❑ ScottishPower

"We are looking to the IT Architect Certification program to form a key component in the continuous professional development of our IT architects. It will allow us to demonstrate that our IT architects meet a recognized open standard. We hope that this will provide benefits for both ScottishPower and our employees." Brian Arbuckle, Technology Standards Manager, ScottishPower

<http://www.opengroup.org/itac/endorsements.html>

Endorsements

- ❑ **Lufthansa Transport**
"The IT Architect Certification program equips us with an internationally recognized qualification that demonstrates that our architecture skills and experience have been independently assessed and verified against a worldwide standard benchmark" *Antonio Mastrolorito, Chief IT-Architect, Lufthansa Cargo, Frankfurt*
- ❑ **HP**
"Certification is important for any profession and it's something that IT Architects have lacked on an industry-wide basis. Certification provides a comfort feeling for those who want to engage an architect, an indication that the architect is skilled in their profession and understands how to go about solving IT problems in a consistent and reliable manner. Certification further means that standards will be maintained, best practices developed, and the rogue architects who give themselves the title without any grounding in IT architecture concepts and principles will gradually be eliminated from the industry. All in all, certification for IT architects is long overdue and HP is proud to support The Open Group in their initiative to introduce and develop this important program." *Tony Redmond, VP and CTO, HP Services*

Introducing The Association (AOGEA)

- ❑ On Jan 29, 2007, The Open Group launched a new professional association called “The Association of Open Group Enterprise Architects” (AOGEA)
- ❑ AOGEA is focused on:
 - Elevating the profession
 - Promoting the employment of certified professionals
 - Establishing standards of ethics
 - Developing generally accepted architecture principles
 - Sharing experiences and knowledge
- ❑ By launch, The Association had over 730 Enterprise Architects enrolled as active members

Welcome to www.aogea.org

Association of Open Group Enterprise Architects

The definitive association for Enterprise Architect professionals.

Whatever your level of membership, the AOGEA will enhance your career ... and, on behalf of both members and partners, will actively promote the status of the profession.

Find out how you can qualify for membership

Join Now!

Whatever your level of interest in, or involvement with Enterprise Architecture, from the purely interested, to the student, to the certified professional, there's a membership grade suitable for you.

Get Involved

Using partner programs, AOGEA actively encourages involvement by organizations whose activities further the profession, whether it be through training, mentoring or certification, or by providing tools or exams.

Find the right membership option for you

MEMBER	our core professional level of membership
ASSOCIATE	for those who intend to become full members
STUDENT	for those in an approved course of study leading to associate or full membership
AFFILIATE	for those who have an interest in EA and would benefit from joining AOGEA.
FELLOW	our senior grade, representing eminence in the profession.

Become an AOGEA partner

CERTIFICATION PARTNER	Establishes and operates review boards for the ITAC Direct Review process in local territories.
MENTORING PARTNER	Provides a mentoring service to individuals preparing for ITAC certification
KNOWLEDGE PARTNER	Transfers knowledge to enterprises and training to those wishing to become TOGAF certified
TOOLS PARTNER	Provides tools supporting the standards approved by AOGEA.
MEMBERSHIP PARTNER	Aligns its member benefits with AOGEA and confers membership to AOGEA members holding equivalent level certifications

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The Benefits of AOGEA Membership

- Enhances careers of its members through:
 - Promoting the value of The Association to employers
 - Knowledge sharing and networking within the community
- The AOGEA also offers professional development and career advancement opportunities via participation in:
 - Workgroups and message boards
 - The AOGEA speaker's bureau
 - Global conferences and seminars
 - Local chapters
 - Special interest groups
 - Job boards and resume postings

Why The Open Group?

- ❑ World's leading consortium for EA spanning both IT and business architecture skills
- ❑ 20-year history of facilitating consensus on standards
- ❑ Premier provider of certification services in IT
 - Standards body and certification authority for the IT Architecture Certification program (ITAC)
 - Standards body and certification authority for TOGAF, which includes world's leading architecture development method
- ❑ Home to Architecture Forum, which oversees TOGAF
- ❑ Host of well-known "Enterprise Architecture Practitioners Conferences" held around the globe

Summary: Key issues

- ❑ The breaking down of barriers within and between enterprises demands a city planner perspective of the enterprise architecture
- ❑ Enterprises need assurance that the staff or service providers they hire have the skills and experience necessary to address the complexities of enterprise architecture
- ❑ Professional enterprise architects need a recognized, portable and professional grade qualification