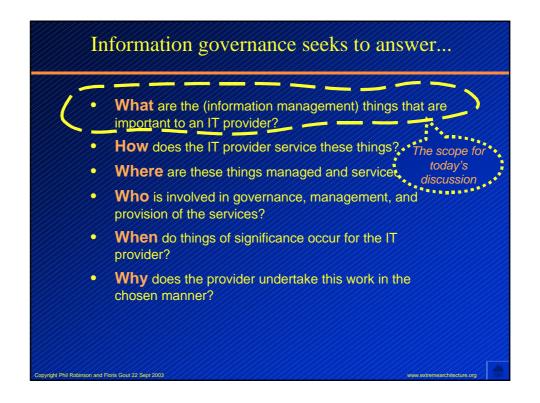


"I Keep Six Honest ..." I keep six honest serving-men (They taught me all I knew); Their names are What and Why and When And How and Where and Who. Rudyard Kipling



What is Architecture? Macquarie

noun 1. the art or science of building, including plan, design, construction, and decorative treatment. 2. the style of building. 3. the action or process of building; construction. 4. a building or buildings. 5. the structure or design of something, as a computer, a novel, etc. [Latin]

- --architectural, adjective
- --architecturally, adverb

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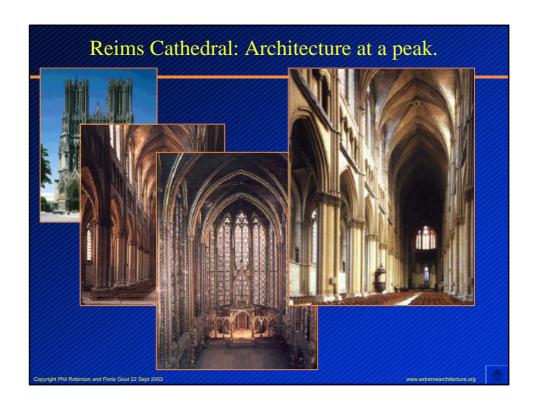
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Architecture and Design

- If you can implement a drawing in more than one way, you have *architecture*.
- If you can implement a drawing in only one way, then the drawing contains exact specifications for instantiation, and you have a *design*.
 - * Jim Sinur of Gartner Group

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Cathedral and IT Architecture?

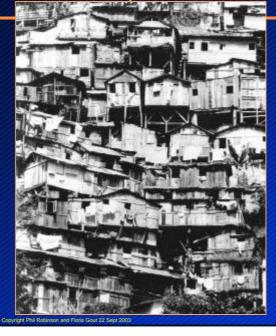
- Jean d'Orbais ... conceived the general plan of the building, a plan which was respected ... by his successors. This is one of the reasons for the extreme coherence and unity of the edifice.
 - * Brooks quoting the Reims Cathedral Guidebook
- It took 8 generations of builders, 200 years, to complete.

 They all stuck to the design.
- Fred Brooks was an early author to make comparisons between building architecture and software.
 - * Mythical Man-Month (1975)
- Does IT have chance to build conceptual integrity with such precision and passion? Should it?

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This hut was built on time and within cost.

It has shown an excellent return on investment for its owner.

For a hut, it provides all the services the owner requires.

The hut is cleaned and maintained in a timely manner.

The padlock on the door ensures that the hut is secure.

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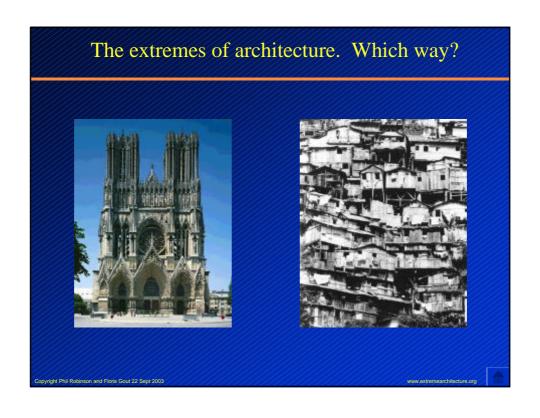
Are the things we build, shanty towns?

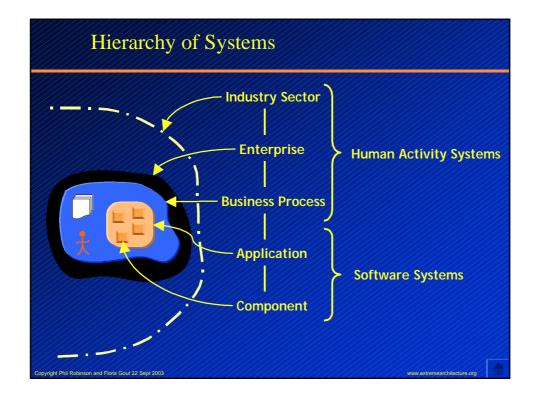
With today's pressures how hard is it for IT to avoid the shanty town?

- IT is frequently asked to do more with less;
- IT lives in constant fear of fires, eviction, mudslides and plague;
- IT needs to build things as quickly and as cheaply as possible;
- IT are shown little respect and are not valued by the community;
- IT are seen as a blight on the landscape; and
- Everyone wishes that IT and their problems would simply disappear.

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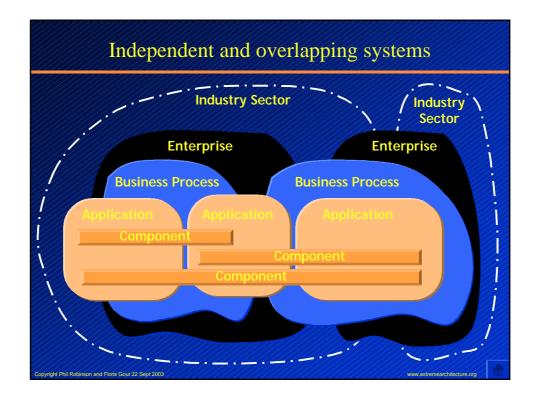


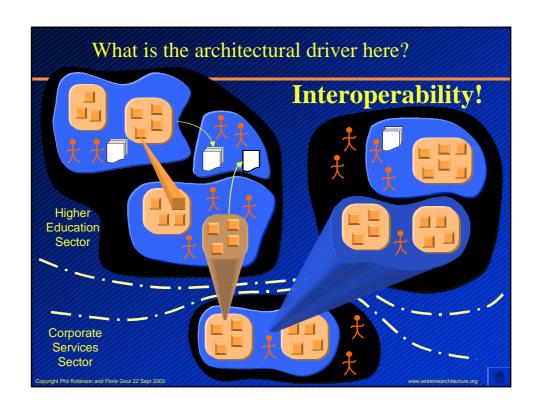
Is the container view of systems correct?

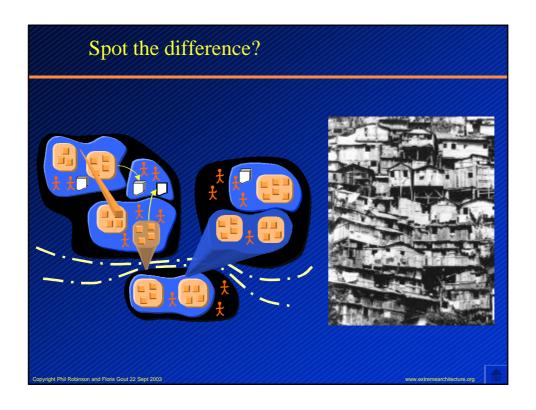
- Common for business processes to be outsourced.
- External stakeholders interact directly with enterprise's software applications.
- Modern development techniques emphasise reuse of software components.
 - * The notion of an application is blurred.

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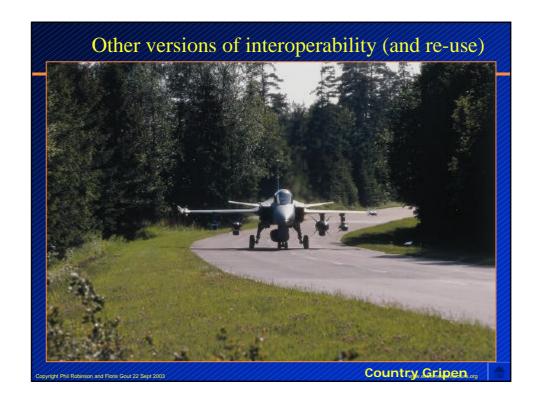


Interoperability for unforeseen events

• What interoperability is required between road transport systems and aviation systems?

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Systems ® Interoperability ® Frameworks

- If we want to ensure interoperability in abstract and seemingly intangible artefacts
 - * Read "information systems"
- Then we need a framework to make sure all players understand how to achieve that interoperability.

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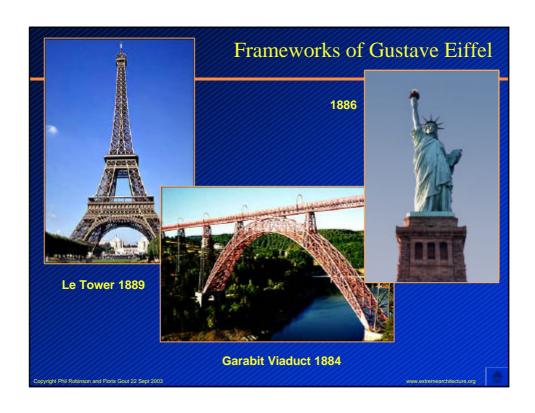
What is a framework: Macquarie



/ noun 1. a structure composed of parts fitted and united together. 2. a structure designed to support or enclose something; frame or skeleton. 3. frames collectively. 4. work done in, on, or with a frame.

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An Information Technology Architecture Framework is:

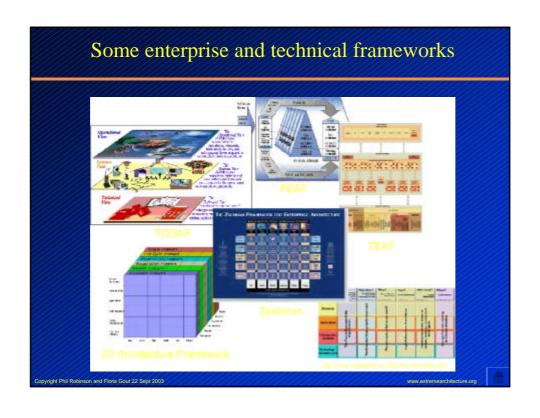
Defined in Clinger-Cohen Act;

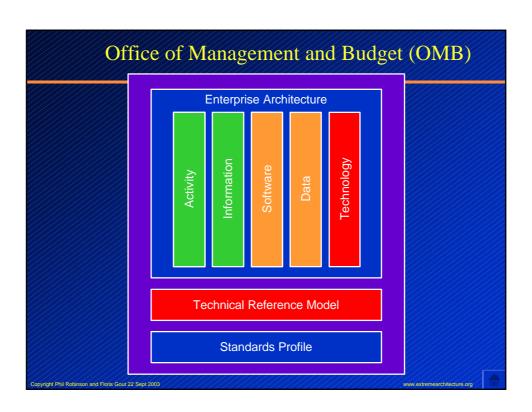
Legislation passed in 1996 by the United States Congress.

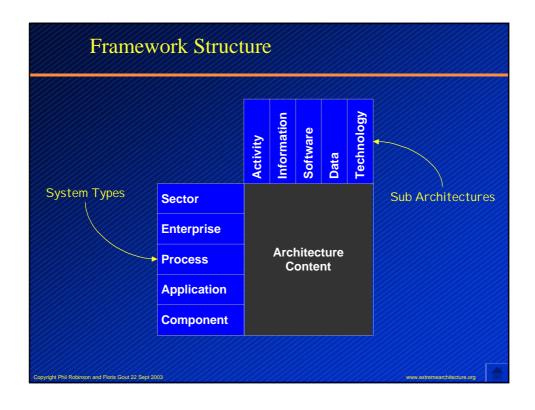
"An integrated framework for evolving or maintaining existing information technology and acquiring new information technology to achieve the agency's strategic goals and information resource management goals."

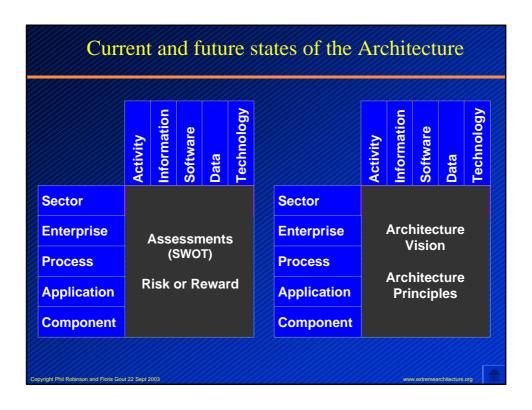
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	Activity	Information	Software	Data	Technology
Sector	Scope Activities Workflow	Subject Areas Information Requirements	Functional Areas	Business Objects	
Enterprise					
Process					
Application	Use Cases	Interface Requirements	Vision Functional Requirements Non-Functional Requirements	Storage Requirements	Platforms Networks
Component	User Interface		Architecture Code Test Cases	Schemas	

Pragmatic * adopts a 'middle path' between the extremes of chaos and perfection. Easy to describe * single 6 x 6 matrix Minimal work products * simple bullet point lists will do! Unifies disparate disciplines * Business modelling * Requirements analysis * Software construction * IT infrastructure management • Encourages a shared understanding

