

Convergence of Semantic Naming and Identification Technologies

The Key Questions

THE *Open* GROUP

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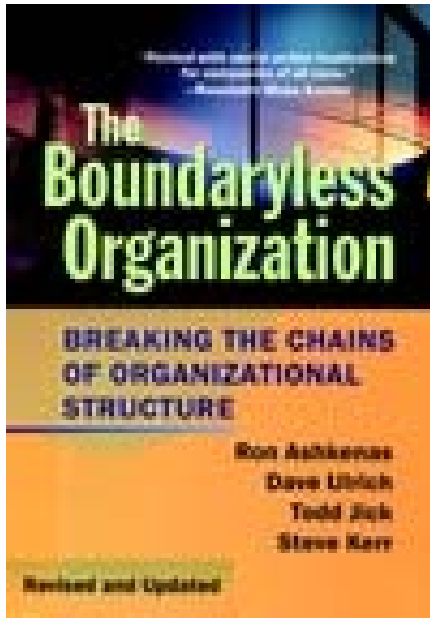
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Boundaryless Information Flow

- ❑ The vision of The Open Group is ***Boundaryless Information Flow***TM
- ❑ Enterprise IT should make information available
 - Where it is needed
 - When it is needed
- ❑ To support the business operation of the boundaryless organization

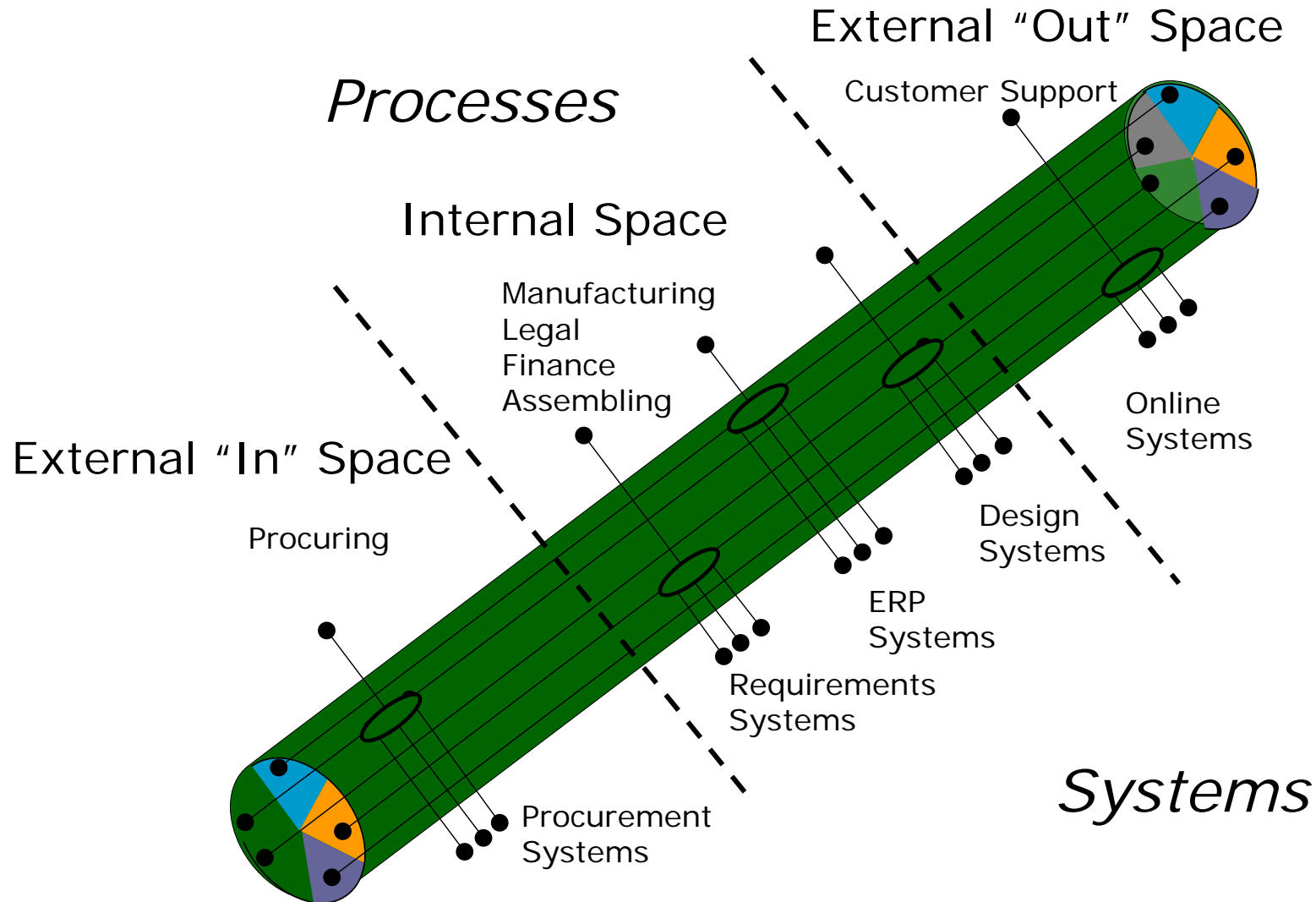
Boundaryless Business Architecture



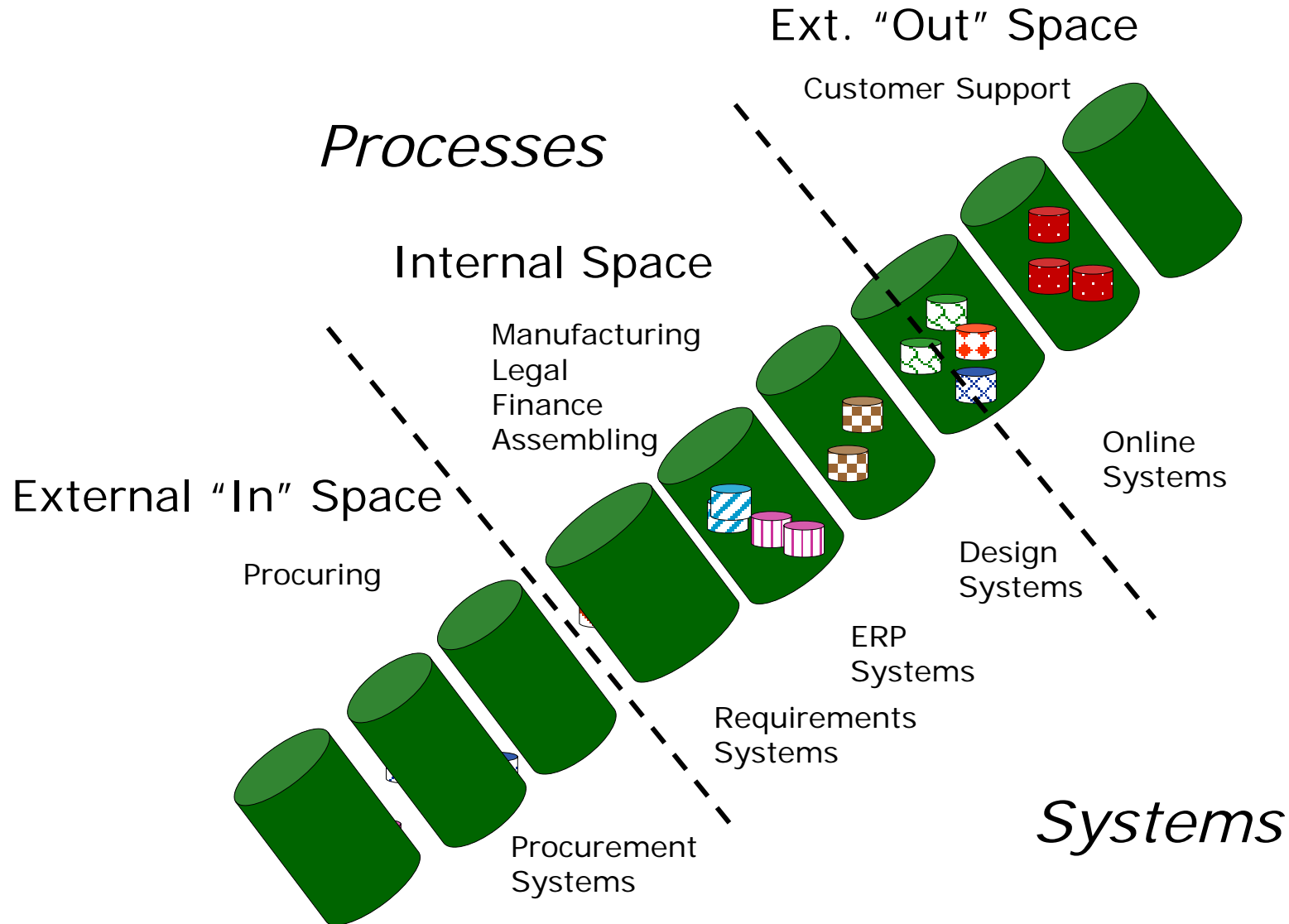
- Permeable boundaries between
 - Nations
 - Enterprises
 - Organizational levels
 - Departments
- Deliver
 - Productivity
 - Agility

But traditional IT architectures hinder this!

Enterprises Want This...



But Have This



Boundaryless Information Flow Needs

- ❑ Data flow with ***semantic interoperability***
- ❑ Delivered by an ***enterprise IT architecture***
- ❑ Based on ***open standards***

Semantic Interoperability

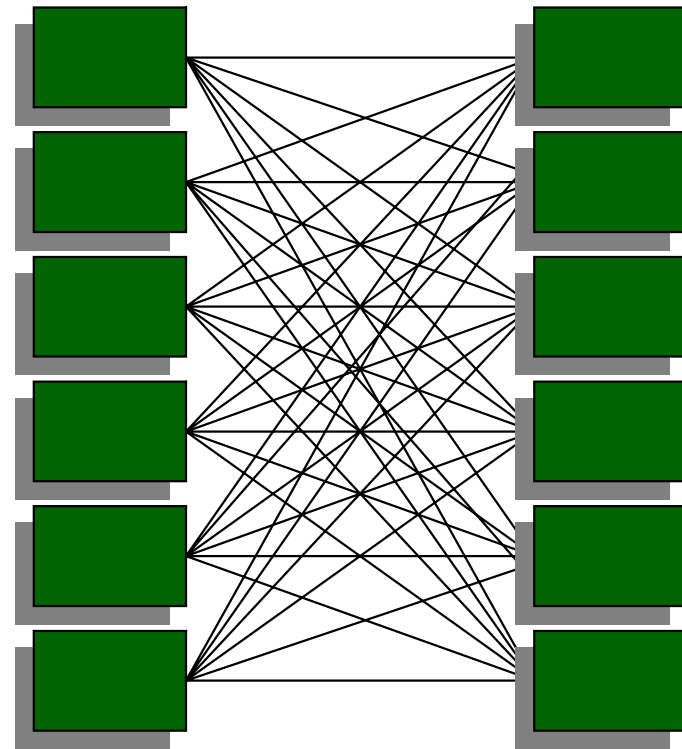
Each business domain, each company, and each application has its own language!



The Problem of Semantic Interoperability

- ❑ Many different business domains
- ❑ Many different companies
- ❑ Many different applications programs

All need to inter-operate



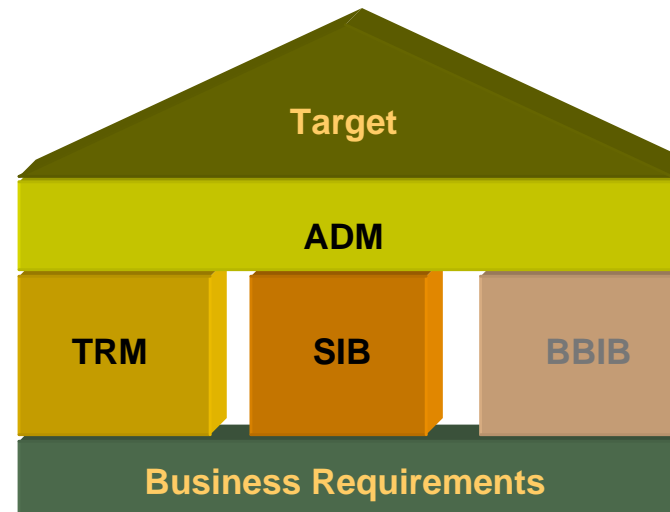
Enterprise IT Architecture

- Conceptually, an IT Architecture is the fundamental organization of a system, embodied in:
 - its components and
 - their relationships to each other and to the environment.
- Practically, it is represented in architectural descriptions from the viewpoints of the stakeholders.

[ANSI/IEEE Standard 1471-2000]

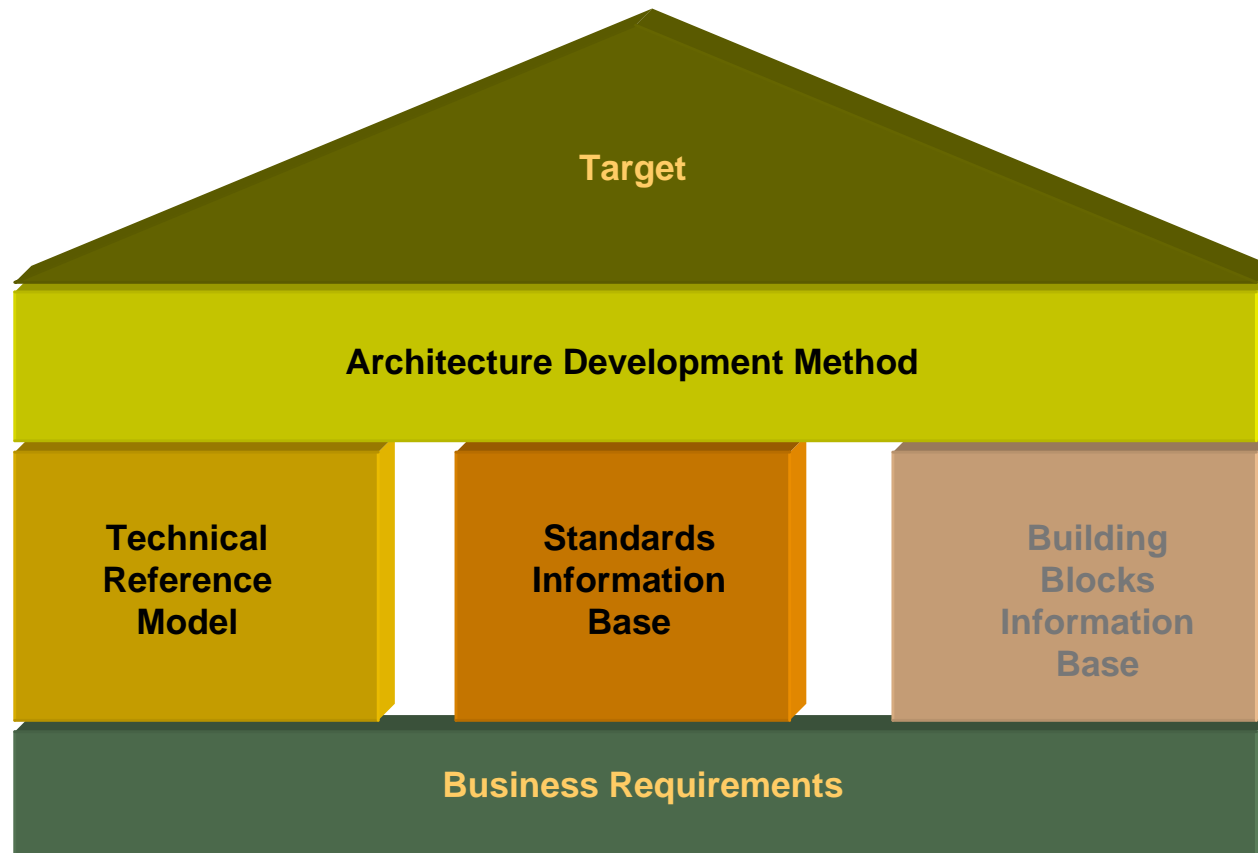
TOGAF

The Open Group Architecture Framework



- ❑ Tool that helps the architect to select and build the right architecture for an organization
- ❑ Embodies best practice and acknowledged wisdom

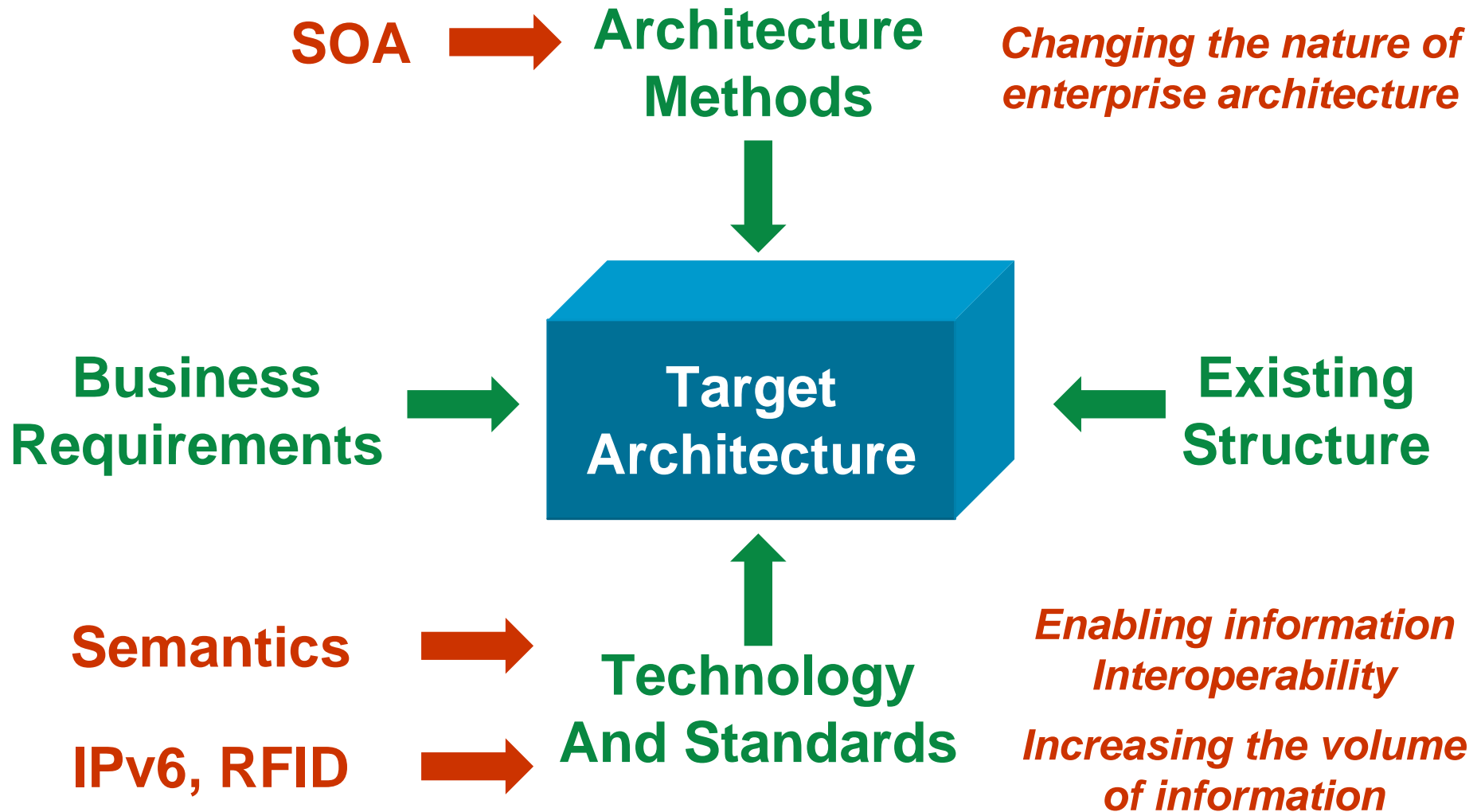
Enterprise IT Architecture Development with TOGAF



Open Standards

- ❑ Enable development of products that the architect can use “off-the-shelf”
- ❑ Enable the architect to design systems that will interwork with those designed by other architects

Forces that Affect IT Architecture Development



Key Questions

- ❑ What standards do we use when we describe enterprise information?
 - ISO 11179?
 - RDF?
 - Combination – but how?
- ❑ How do we cope with the flood of information from IPv6 and RFID?
- ❑ How do we refer to enterprise information in SOA?