



P a r e m u s

Transforming the Way
the World Runs Applications



Why has enterprise SOA delivered so little?

- The IT industry has over hyped WS-*
- SOA - is not just about Web Services!
- An WS-* based “SOA strategy” de-couples applications, but...
 - leaves these same old *monolithic* business and infrastructure services in place
 - using the same old approaches to application availability and manageability
 - And so business systems remain as ***change resistant*** as ever.
- WS-* is not the Silver Bullet, but rather only a part of the final solution.



Fundamentals

What do we actually want?

- Business Agility
- Service Availability
- Reduced Operation Cost



As the Operations Manager...

- “Lights Out” or “Black Box” Data Centre...
 - Automatic service recovery from infrastructure failures.
 - Massive *dynamic* scalability.
 - Rapid deployment / rollback of all business applications.
 - Embedded Audit, Security and Configuration Management
- The ability to run across commodity hardware
- A software stack that doesn't cost more than the commodity hardware!

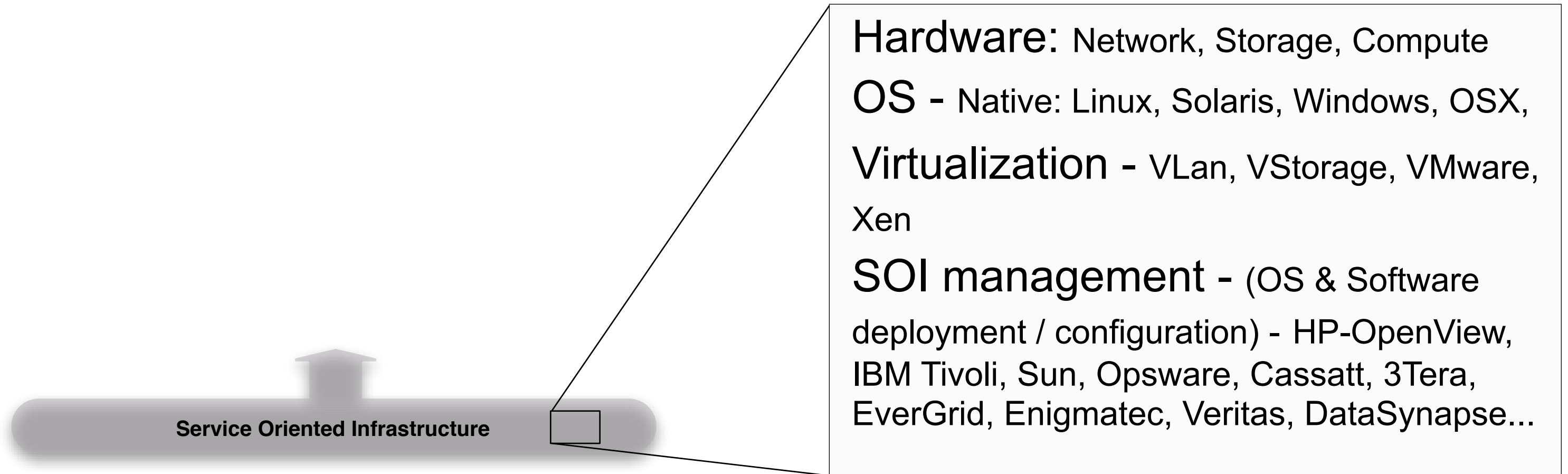
Adding up to a significant reduction in operational risk
and large OPEX savings



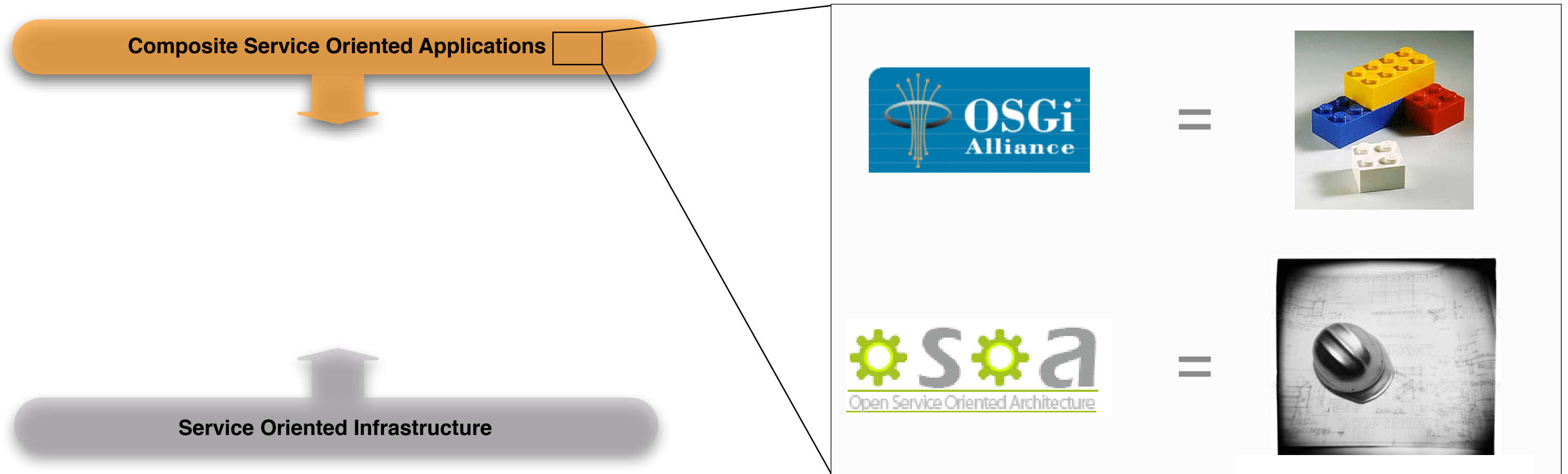
As the Development Manager...

- Ability to rapid assemble all business applications from re-usable standards-based service components - ***just like LEGO!***
- A runtime that isn't a **Hammer**; that doesn't treat all business applications as **Nails**; instead, one that optimally adapts to each application's runtime requirements.
- An approach based on Industry Standards - ensuring longevity and avoiding vendor / architectural lock-in.

Service Oriented Infrastructure

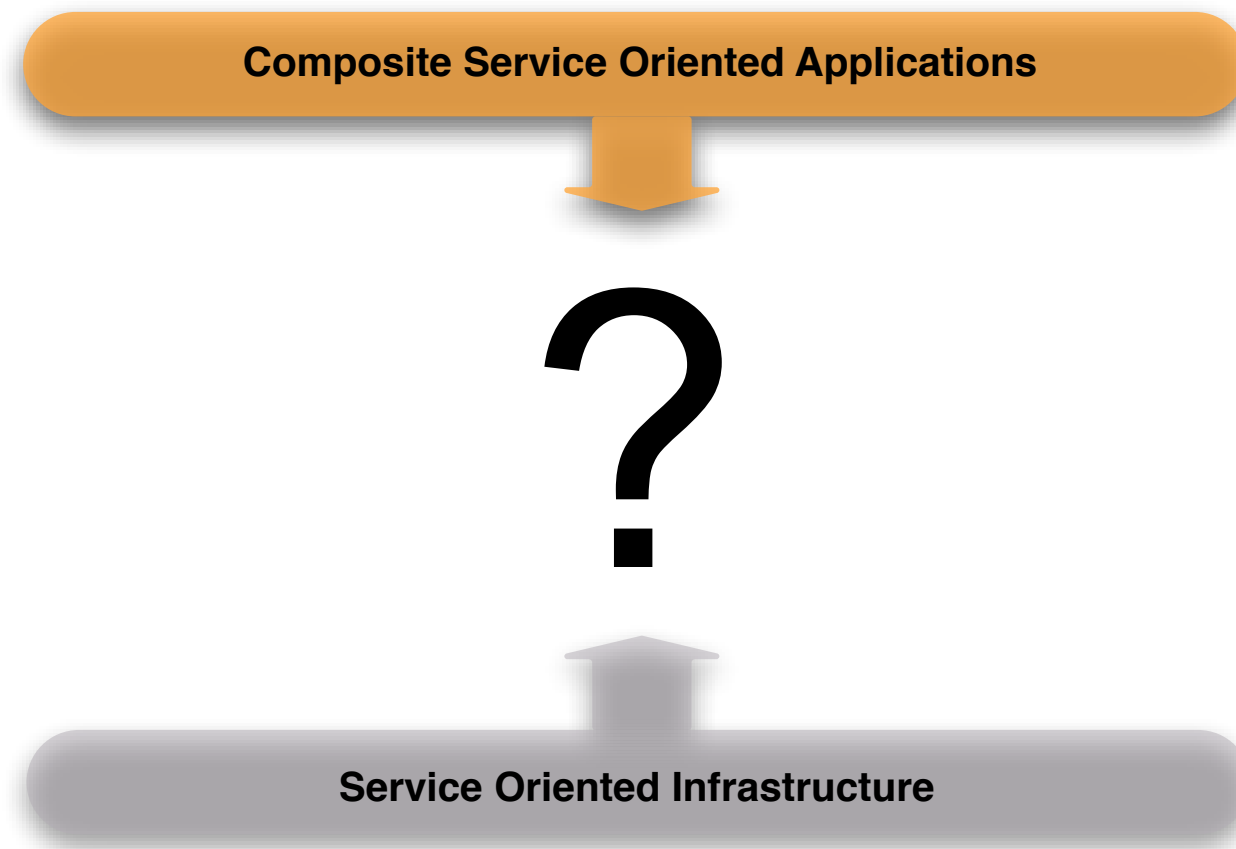


Dynamic / Composite SOA



OSGi - The most important standard of the Decade! (SD Times 1st June 2007)

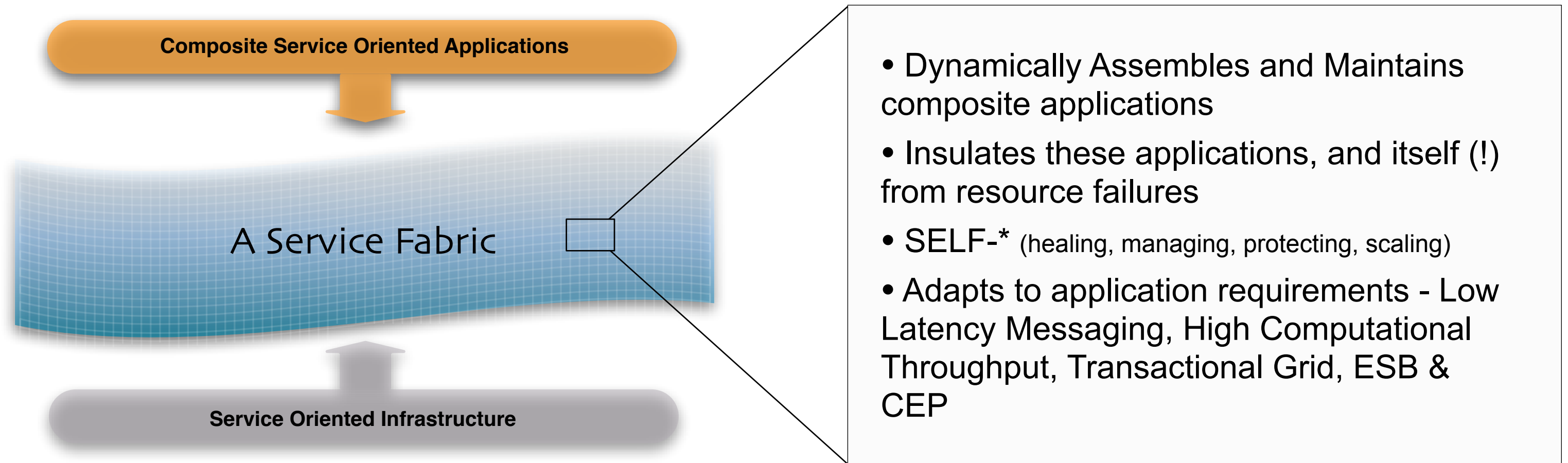
Question



How do we map

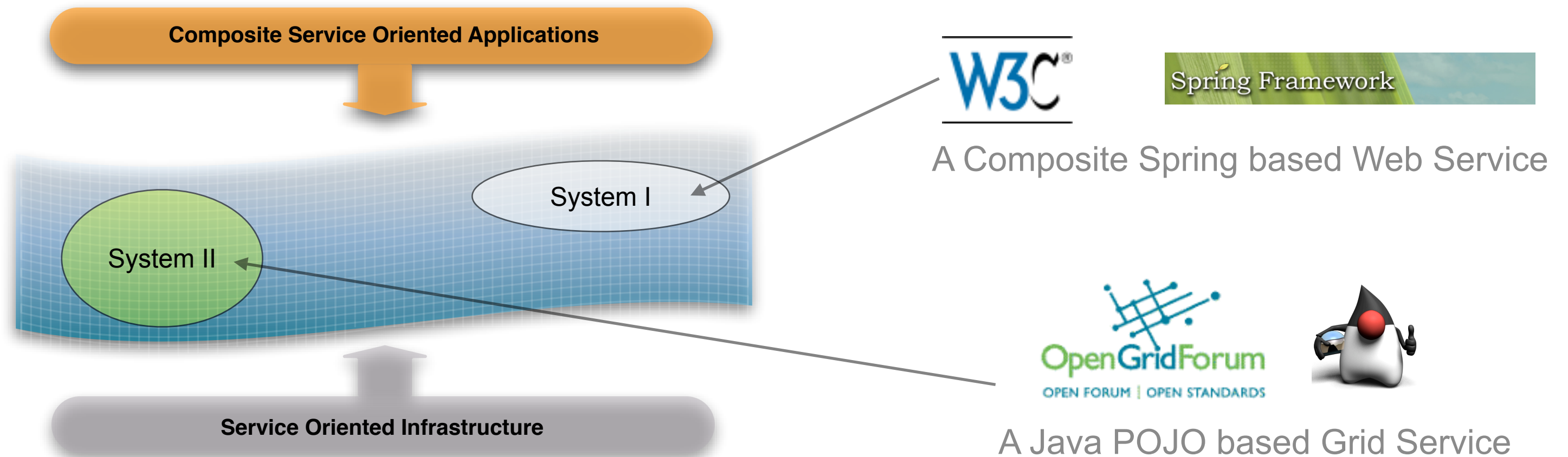
- dynamic / composite service oriented applications
- to
- anonymous & potentially ***volatile*** runtimes

The Answer



A Service Fabric != Data/Compute Grid, or an ESB, or a WS-SOA
A Service Fabric >> \sum (Data/Compute Grid+ ESB + WS-SOA)

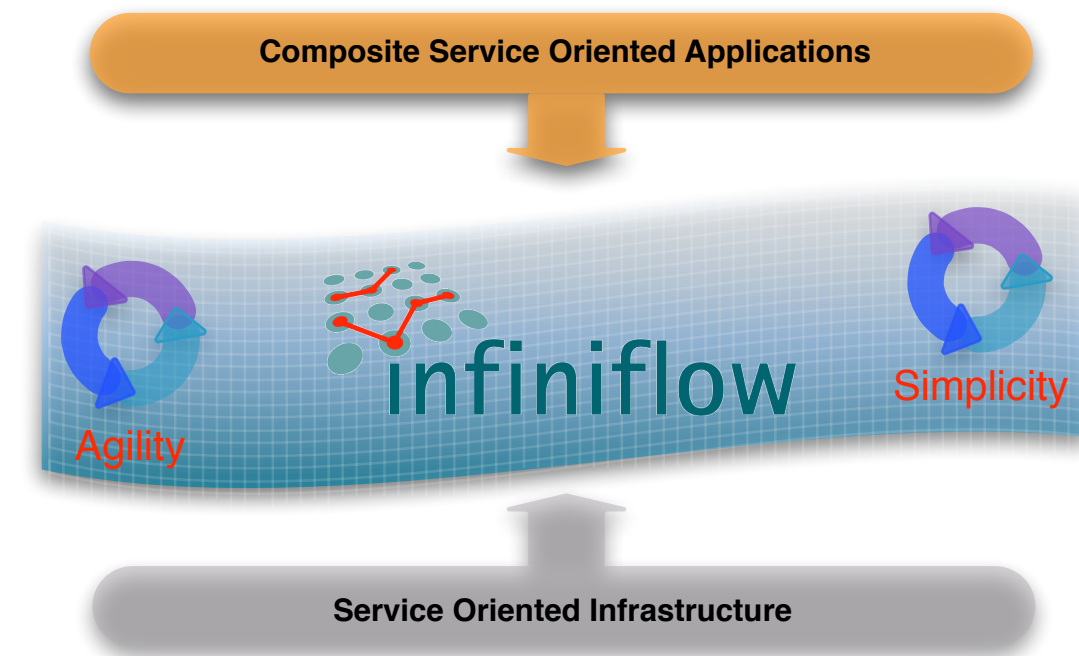
The Service Fabric



A Service Fabric simultaneously supports many applications, each with its own unique service requirements

Infiniflow - Enterprise/Utility Service Fabric

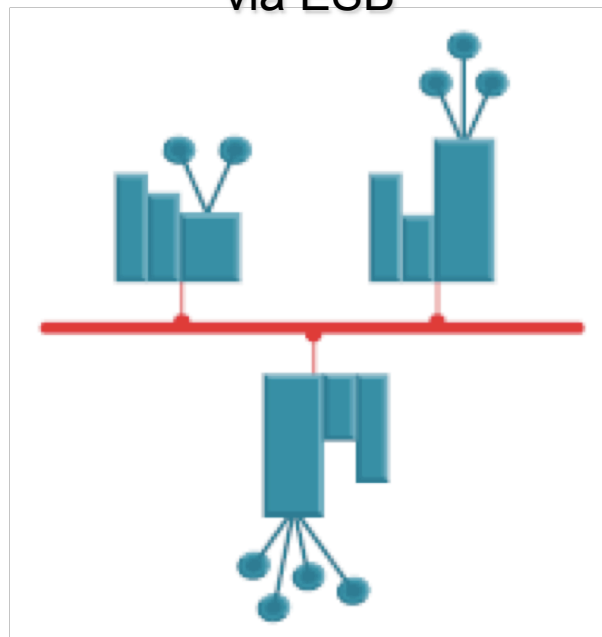
- **Massively Scalable**
 - ~10,000 nodes per fabric instance
- **Autonomic operation**
 - Self-* (Managing, Auditing, Provisioning, Healing, Scaling)
 - Dynamically Provisions applications across 100's of anonymous nodes in Seconds.
- **Virtual Resource Market**
 - Dynamically maps most *cost effective* physical resource to user/ service requirements
- **Self-Similar - Model Driven / Modular Design**
 - All runtime systems are dynamically assembled from SCA descriptions
 - All runtime services are dynamically assembled from OSGi service components



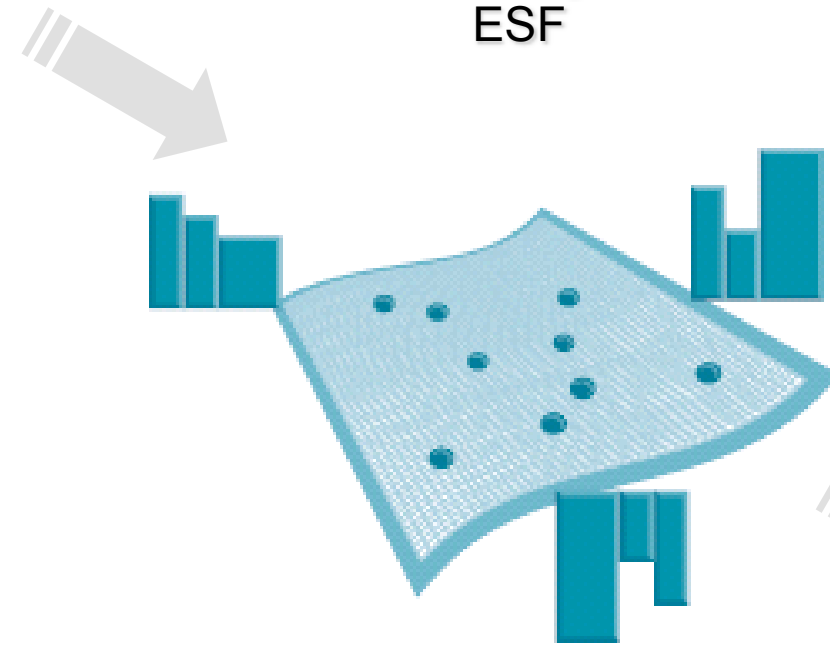


But How Do We Get There from Here?

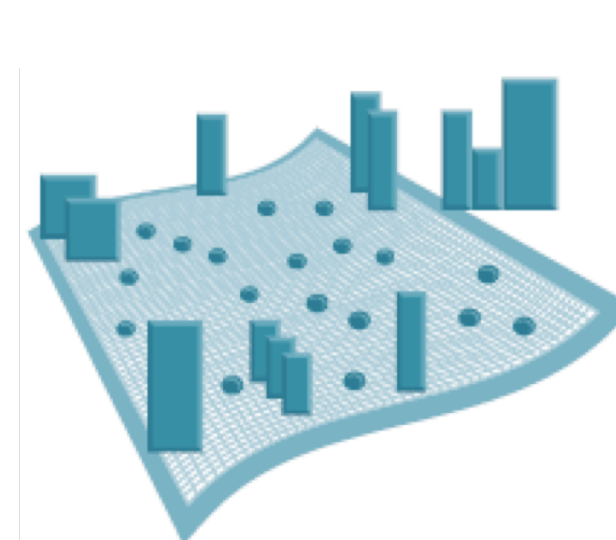
Existing Monolithic Systems connected via ESB




Loosely Coupled Functions Migrated to ESF




Monolithic Systems Decomposed & Functions Migrated to ESF



Key

 Loosely coupled application components

 Tightly coupled business components

Infiniflow Market Acceptance



- Implementations to date include:

- Defense
- Finance
- Business / Web 2.0
- ISV OEM's

- Related Open Source Project



Thank You

Richard Nicholson (Paremus CEO)



see <http://www.paremus.com/downloads/downloads.html>