

# The South African EA Forum



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The Open Group, Barcelona 2012  
Barcelona, Spain  
October 22-25, 2012

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- Security
- Cloud Computing
- Supply Chain Integrity

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- TOGAF® Version 9
- Single UNIX® Specification
- Open CA (formerly ITAC) Self Assessment Tool
- SOA Ontology
- White Papers

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## Industry Forums

Exploration, Mining, Metals & Minerals Forum

## Work Groups

Business Architecture  
Cloud Computing  
Quantum Lifecycle Management (QLM)  
Semantic Interoperability  
Service Oriented Architecture

# TOGAF next work streams

- ❑ TOGAF next Part 1 - the continued effort to create a clear, cohesive, comprehensive & consistent EA Framework
- ❑ TOGAF next Part 2: Guide to Architecture for the purpose of Strategy, Project, & Program - the effort to craft a how-to guide aimed at the leader of an EA Team
- ❑ TOGAF next Part 2: Guide to Business Architecture - the effort to craft a how-to guide for the business architecture domain
- ❑ TOGAF next Part 2: Guide to Application Architecture - the effort to craft a how-to guide for the application architecture domain
- ❑ TOGAF next Part 2: Guide to Data/Information\* Architecture - the effort to craft a how-to guide for the Data/Information architecture domain
- ❑ TOGAF next Part 2: Guide to Information Technology Architecture - the effort to craft a how-to guide for the information technology architecture domain
- ❑ TOGAF next Part 2: Guide to High Assurance Architecture - an effort just starting to craft a how-to guide for the high assurance - this guide is being led as a separate initiative by the RTES Forum.
- ❑ TOGAF next Security Project - this is an associated initiative by the Security Forum to ensure Security & Risk are properly integrated in Part 1 & the 4 Architecture Forum Part 2 guides

# An Agile Approach to Architecture

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- ❑ At this month's EA Forum, Quinton Pienaar will describe how MiX Telematics formalised their business operating model and modelled the enterprise processes so as to replicate them in all regions and functions across the group. Quinton's presentation looks at how they combined an agile approach with the rigours of Enterprise Architecture to deliver fast results to the organisation.
- ❑ Quinton Pienaar changed roles from CIO to Divisional Director: Business Systems at MiX Telematics in January this year. He is responsible for changing the organisational culture by modelling and implementing enterprise processes and the supporting business systems. Quinton has a Msc in Information Systems Management from the University of Liverpool.

# An agile approach to architecture

Quinton Pienaar  
Divisional Director: Business Systems  
[www.mixtelematics.com](http://www.mixtelematics.com)  
[quinton.pienaar@mixtelematics.com](mailto:quinton.pienaar@mixtelematics.com)



# Introduction to MiX Telematics

- MiX Telematics, a “global provider of driver safety, vehicle tracking and fleet management services and solutions”
- Revenue of R 1 Billion - June 2012
- B2B and B2C Business
- Partner and Direct selling and support
- JSE listed



# MiX Needs

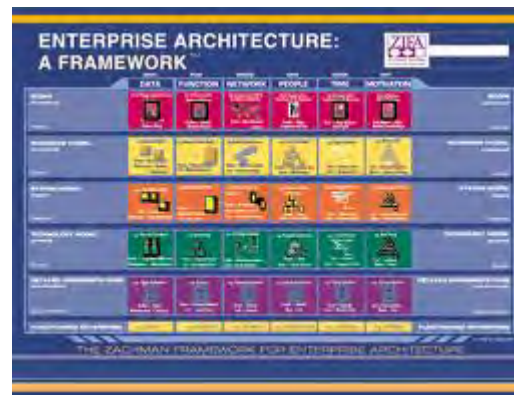
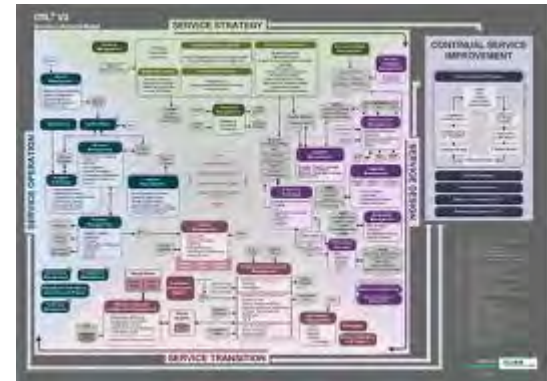
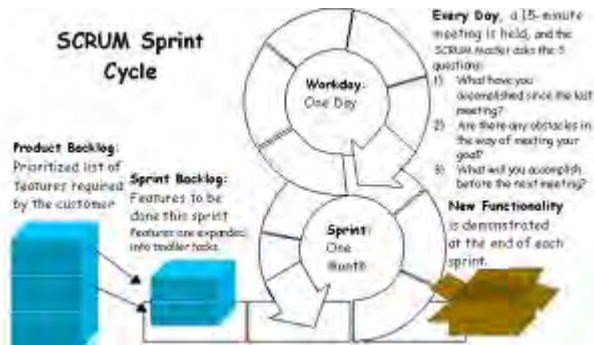
## Objectives

- Lead organisation transformation by modelling enterprise processes and establishing a business model to suit an organisation brought about by mergers and acquisitions

## Scope

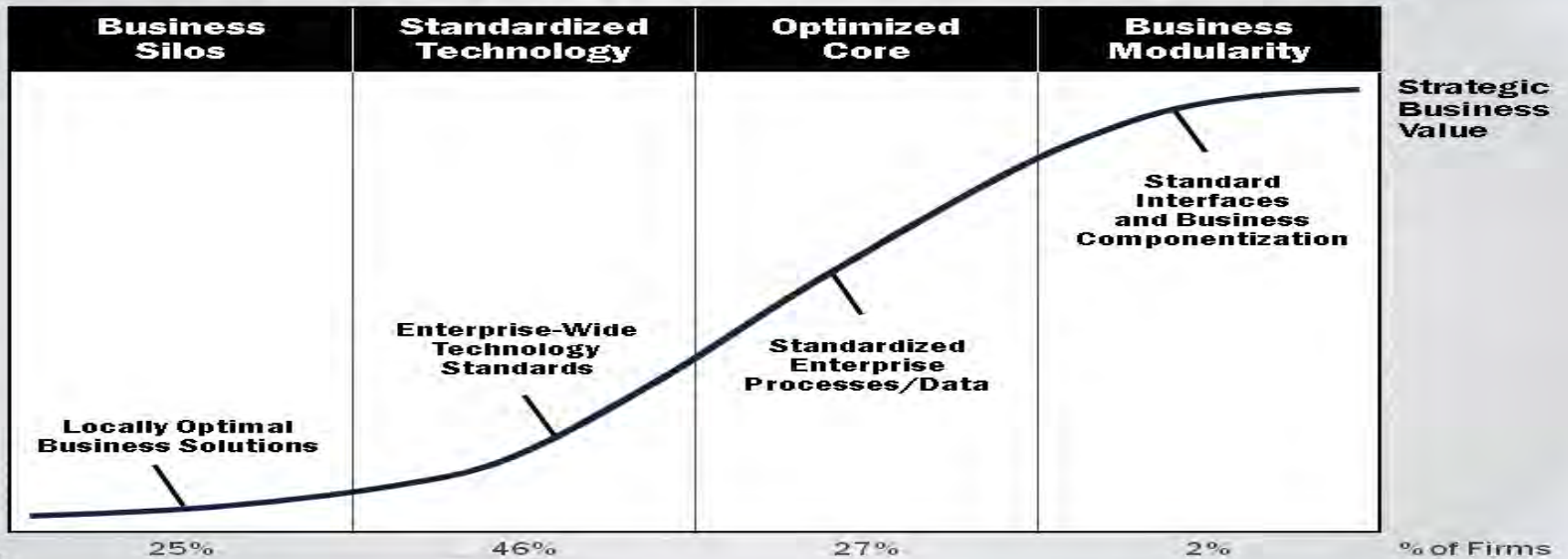
- Establish enterprise processes that will replicate in all regions and functions across the group

# Challenges?





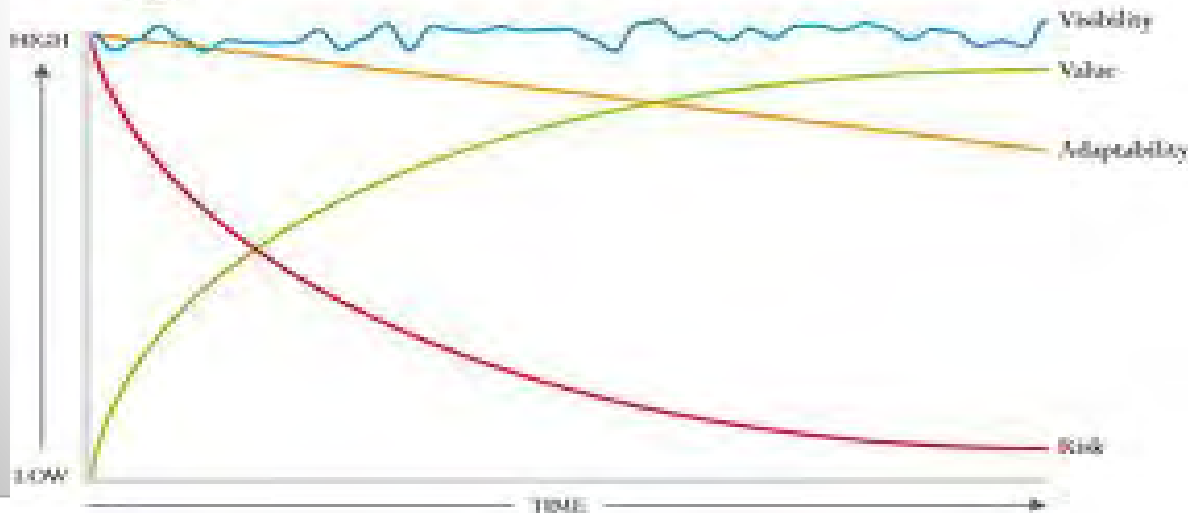
# Enterprise architecture builds agility over time



Center for Information Systems Research (CISR)  
© 2009 MIT Sloan CISR - Ross

Source: *Enterprise Architecture as Strategy: Creating a Foundation for Business Execution*, J. Ross, P. Weill, D. Robertson, HBS Press, 2006.  
Percentage of firms in each stage updated based on a survey of 1508 IT executives.

## Agile



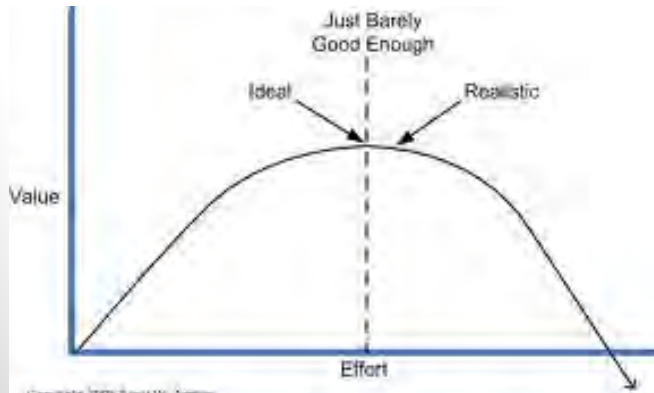
**TELEMATICS**  
MOBILE INFORMATION EXCHANGE

# Approach

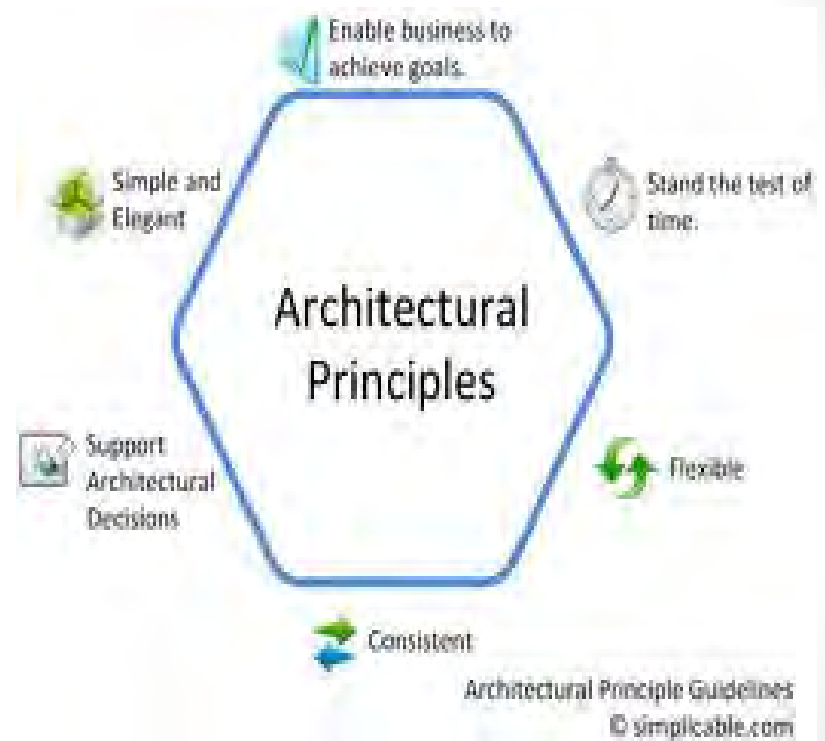
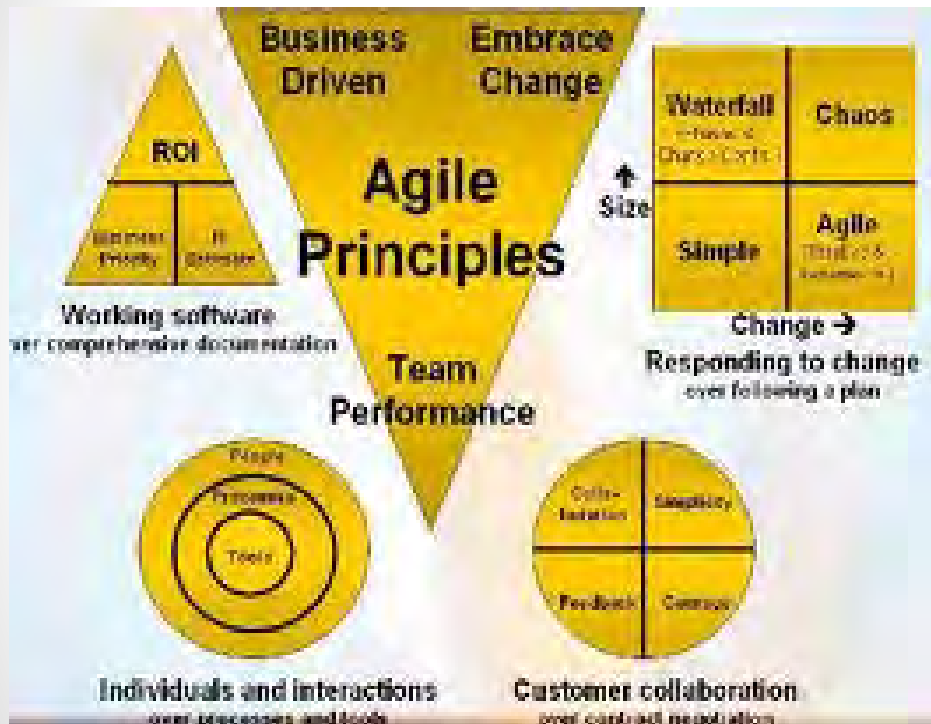
Executive buy-in



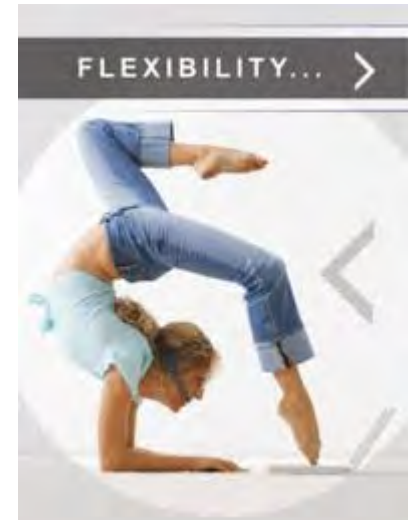
URGENT  
NEEDS



# Principles



# What value does Agile bring?



# Objectives for Agile Enterprise Architecture



# Influences



# Technology Considerations



- Systems are more complex than ever, understanding the relationships and delivering value is more difficult

- Systems need to be fast, responsive and scale.
- The expectation is always on, no excuses



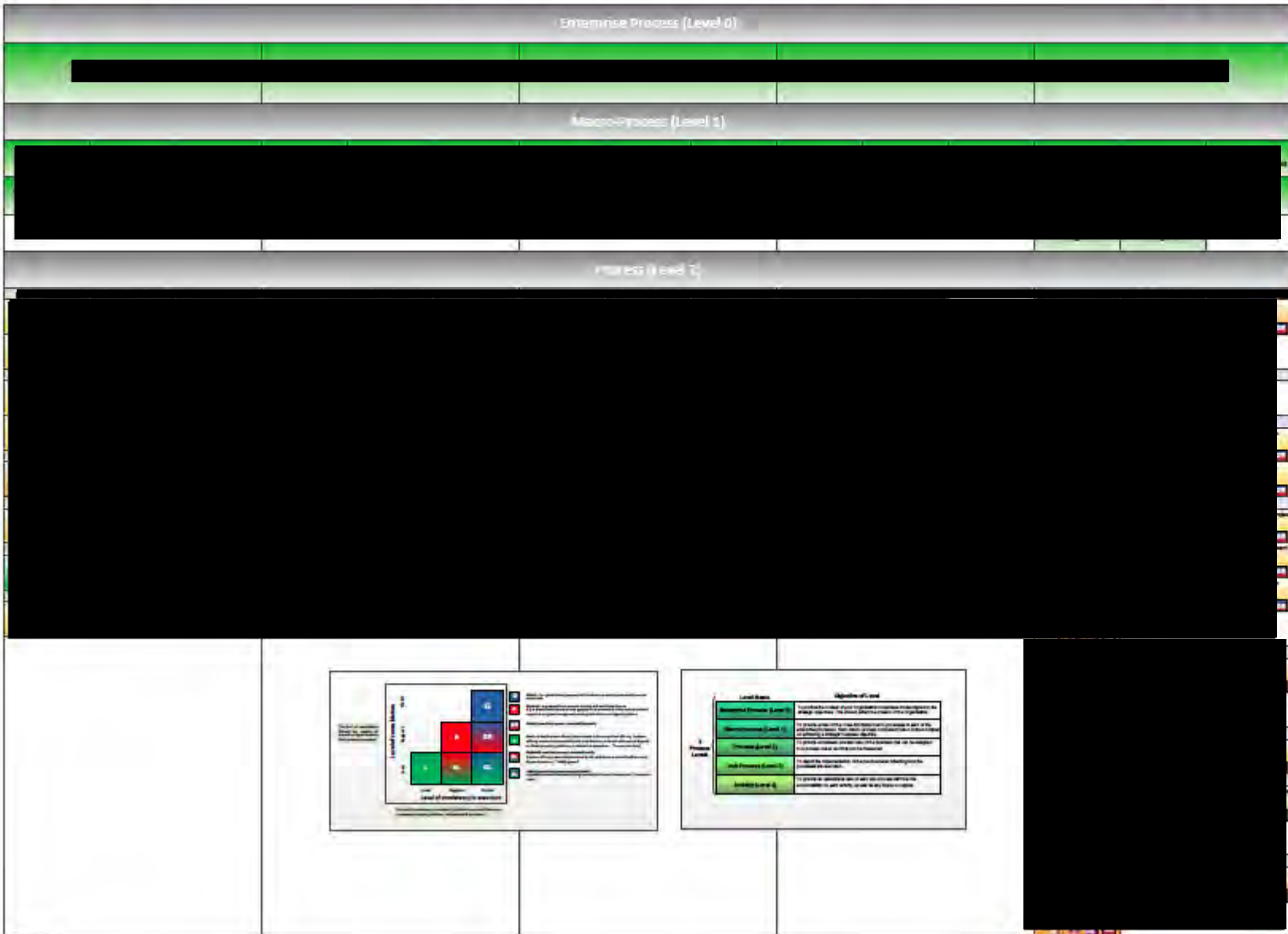
- Connected systems and the the 'internet of things' increases risk and must be managed

# Focused iterations





# Iteration 1



# Iteration 2

- "Manage the Customer Lifecycle"



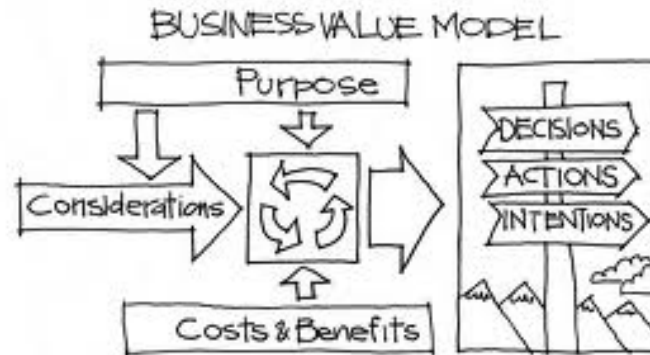
# Iteration 3



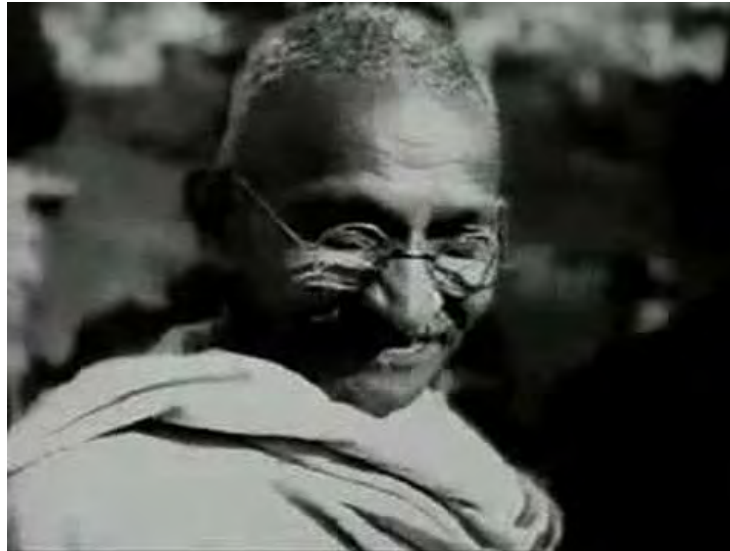
<p>Software as a Service: <b>(SaaS)</b></p>	<p>and thousands of others</p>		
<p>Platform as a Service: <b>(PaaS)</b></p>		<p><b>Pros</b></p>	<p><b>Cons</b></p>
<p>Infrastructure as a Service: <b>(IaaS)</b></p>		<p>Friction-free. Apps on supported platforms are automatically managed.</p> <p>Ability to create virtual instance of any operating system for any programming model.</p>	<p>Not optimal for migrating apps from client platforms. Different options require different languages.</p> <p>Takes lots of work to manage servers. At the mercy of companies whose servers could potentially go down.</p>



# Summary



# Change



## Questions?