

PaaS...

The Epic Search for Truth!

LOGICOMIX



AN EPIC SEARCH FOR TRUTH

APOSTOLOS DOXIADIS, CHRISTOS N. PAPADIMITRIOU,
ALECOS PAPADATOS, AND ANNIE Di DONNA



Platform as a Service



Platform as a Service



Platform as a Service

Platform as a Service

Low friction deploys

Platform as a Service

Low friction deploys

Service discovery and configuration

Platform as a Service

Low friction deploys

Service discovery and configuration

Managed scalability

Low Friction



Discovery and Configuration

Managed Scalability

Platform as a Service

Platform as a Service

Deployment

Platform as a Service

Deployment

User
Management

Containers

Platform as a Service

Deployment

User
Management

Containers

Platform as a Service

Deployment

Health monitoring

User
Management

Containers

Service gateways

Platform as a Service

Build

Deployment

Health monitoring

User

Management

Bash

Message Bus

Containers

Service gateways

Platform as a Service

Build

Deployment

Health monitoring

User

Management

Bash

Message Bus

Containers

Service gateways

Platform as a Service

Build

Application
Server

Deployment

Ruby

Health monitoring

User

Management

Bash

Message Bus

Multi tenant

Containers

Service gateways

Platform as a Service

Build

Application
Server

Deployment

Ruby

Health monitoring

User
Management

Object Store

Bash

Service

Message Bus

Marketplace

Multi tenant

Containers

Service gateways

Platform as a Service

Go

Build

Application
Server

Python

Deployment

Ruby

Health monitoring

User

Management

Object Store

Database

Bash

Service

Message Bus

Marketplace

Multi tenant

Containers

Development
workflow

Service gateways

Platform as a Service

Go

Build

Application
Server

Python

Integration

Deployment

Ruby

Health monitoring

User

Management

Object Store

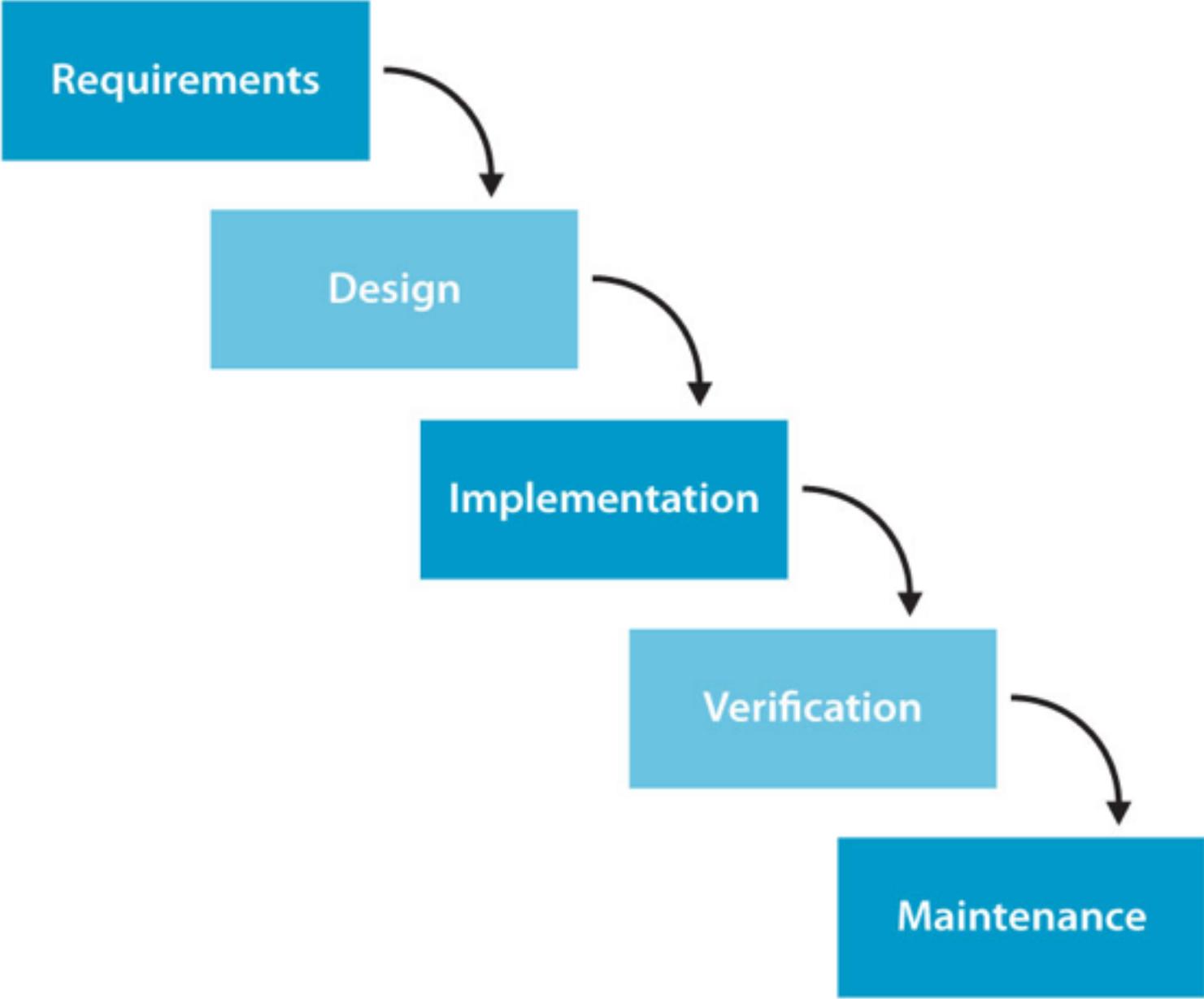
complicated

A foray into history...

**Remember how we made
software?**

Ad-hoc Development

Many highly intelligent
people considered the
problem..



Big Design Up Front

Agile/ Adaptive Software

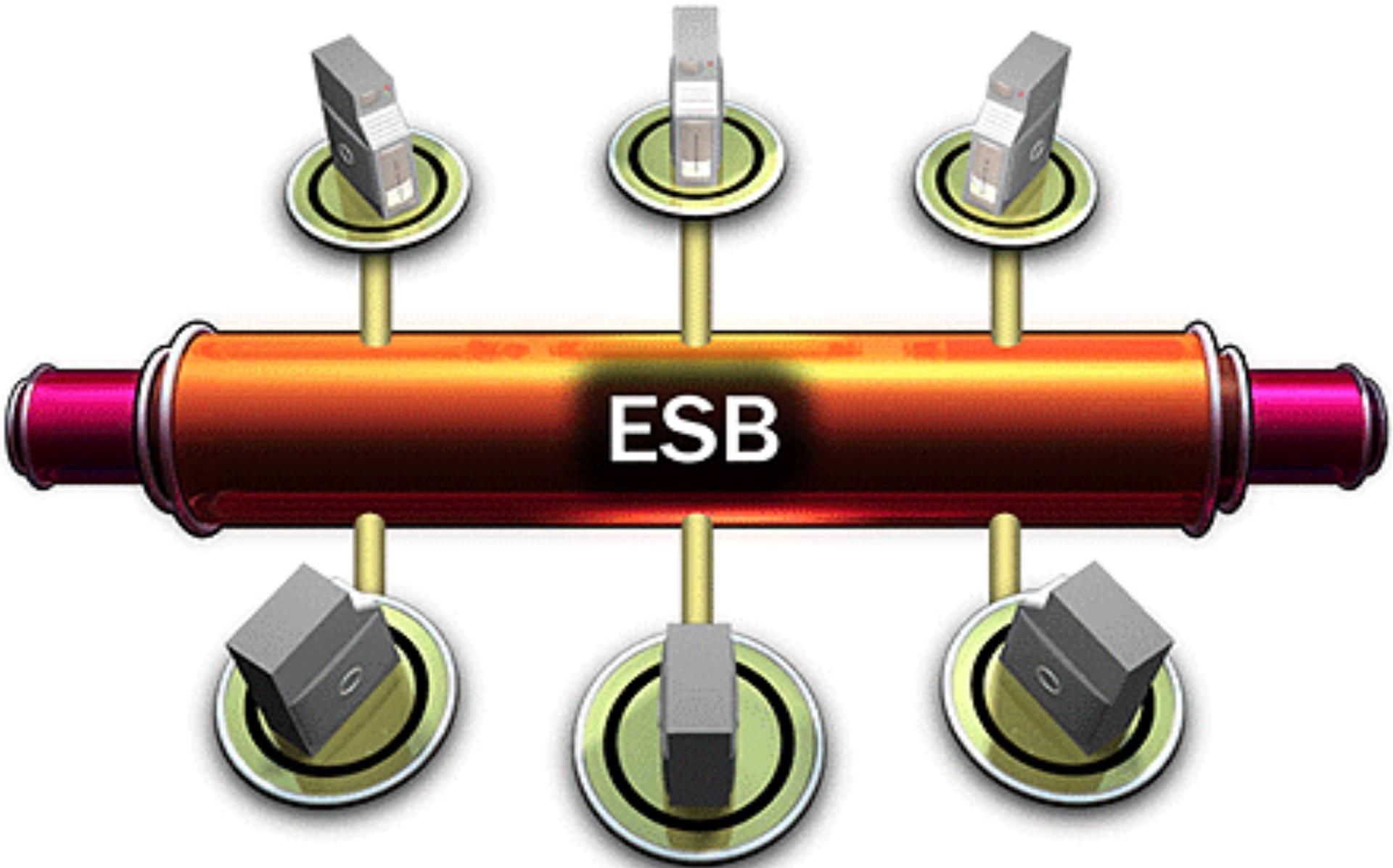
Agile/ Adaptive Software

Sanity Restored

Remember how we
learned to do application
integration?

Ad-hoc Integration

Many highly intelligent
people considered the
problem..



Big Integration Up Front

**Lightweight, adaptive
integration**

**Lightweight, adaptive
integration**

Sanity Restored

Remember how we
learned how to 'do cloud'?

Ad hoc Virtual Machines

Many highly intelligent
people considered the
problem..

Platform as a Service

Have we done it again?

Yes

A Story...



“The Elephant in the
Standup”

“The Elephant in the
Standup may be
moving...”

Hidden Complexity

Leaky Abstraction

Database

Bash

Service

Message Bus

Marketplace

Multi tenant

Containers

Development
workflow

Service gateways

Platform as a Service

Go

Build

Application
Server

Python

Integration

Deployment

Ruby

Health monitoring

User

Management

Object Store

Constraining

laaS

laaS++

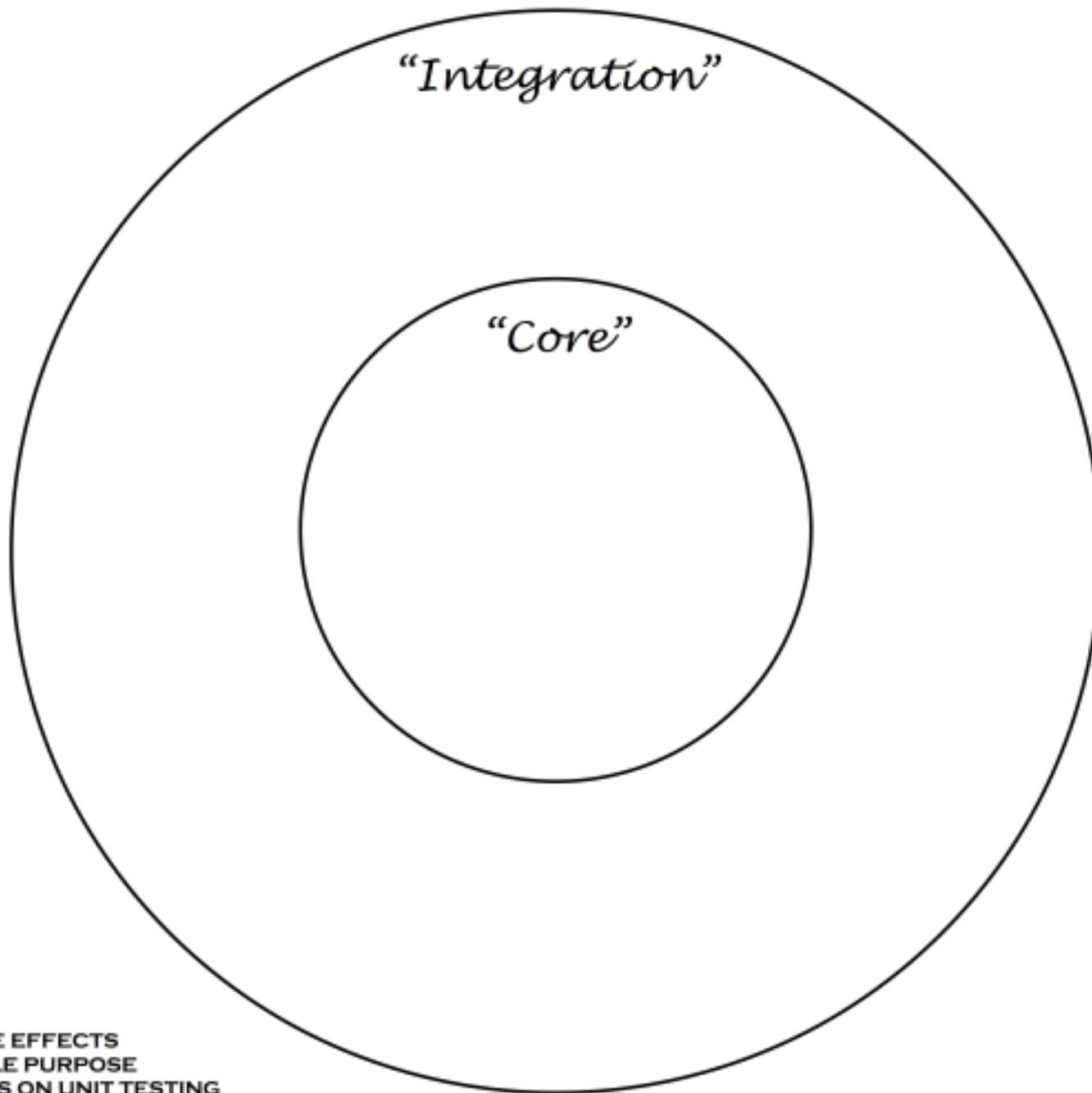
Remember, Cattle

The Platform should be as
adaptable as the services

How do we get there?

Apply Simplicity

ORE



"Integration"

"Core"

CORE = 0 SIDE EFFECTS
SINGLE PURPOSE
FOCUS ON UNIT TESTING

INTEGRATION = SIDE EFFECTS WELCOME

Simplicity *Itself*

Antifragility

What do we buy?

Darwinian Selection

Innovation

FaaS

REGRET
NOTHING

\

(I couldn't resist...)

Low Barriers to Entry

Please let's not recreate
the elephant...

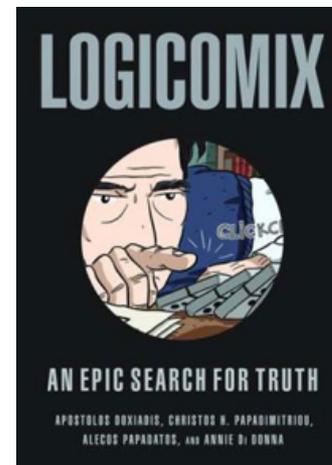
Let's not go back...





Thank you!

Hope you had an amazing conference! :-)



Simplicity *itself*