

# Cloud Seminar.

## Strategy &

## Best practices.



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# Journey to the cloud.



**I guess there's more than one way**

Work-spacec

Cloud first

Full cloud

ISV

Global (CDN)

Subsidiary

Hybrid cloud

Global (CDN)

Specific workload

Multi-Cloud

Disaster recovery

Stand-alone

Test & Develop

**to skin a cat.**

# Journey to your cloud

1 Goal	2 Strategy	3 Base	4 Apps	5 Services
<ul style="list-style-type: none"><li>▶ Price?</li><li>▶ Speed?</li><li>▶ Functionality?</li><li>▶ Flexibility?</li><li>▶ Innovation?</li></ul>	<ul style="list-style-type: none"><li>▶ Principles</li><li>▶ Cloud choice</li><li>▶ Integration</li><li>▶ Roadmap</li><li>▶ Agility</li></ul>	<ul style="list-style-type: none"><li>▶ Architecture</li><li>▶ Patterns</li><li>▶ Identity</li><li>▶ Connectivity</li><li>▶ Security</li></ul>	<ul style="list-style-type: none"><li>▶ Workloads</li><li>▶ Quick-wins</li><li>▶ Factory</li><li>▶ Improve</li></ul>	<ul style="list-style-type: none"><li>▶ Reboot</li><li>▶ Think services</li><li>▶ Shrink-Grow</li><li>▶ Cloud-native</li><li>▶ Orchestration</li></ul>



# Goal.



# Goal: cloud benefits

1  
Reduced  
time  
to market

2  
Improve  
ROI

3  
Improve  
Operational  
Efficiency &  
Excellence

## Business Drivers

- Marketshare
- Profitability

increase  
**QoS**

reliable

improve  
**Agility**

flexible

improve  
**ROI**

cost efficient

4  
Ability  
to scale IT  
needs up or  
down rapidly

5  
Moving from  
capex  
to opex

6  
Improve  
Operational  
Efficiency &  
Excellence

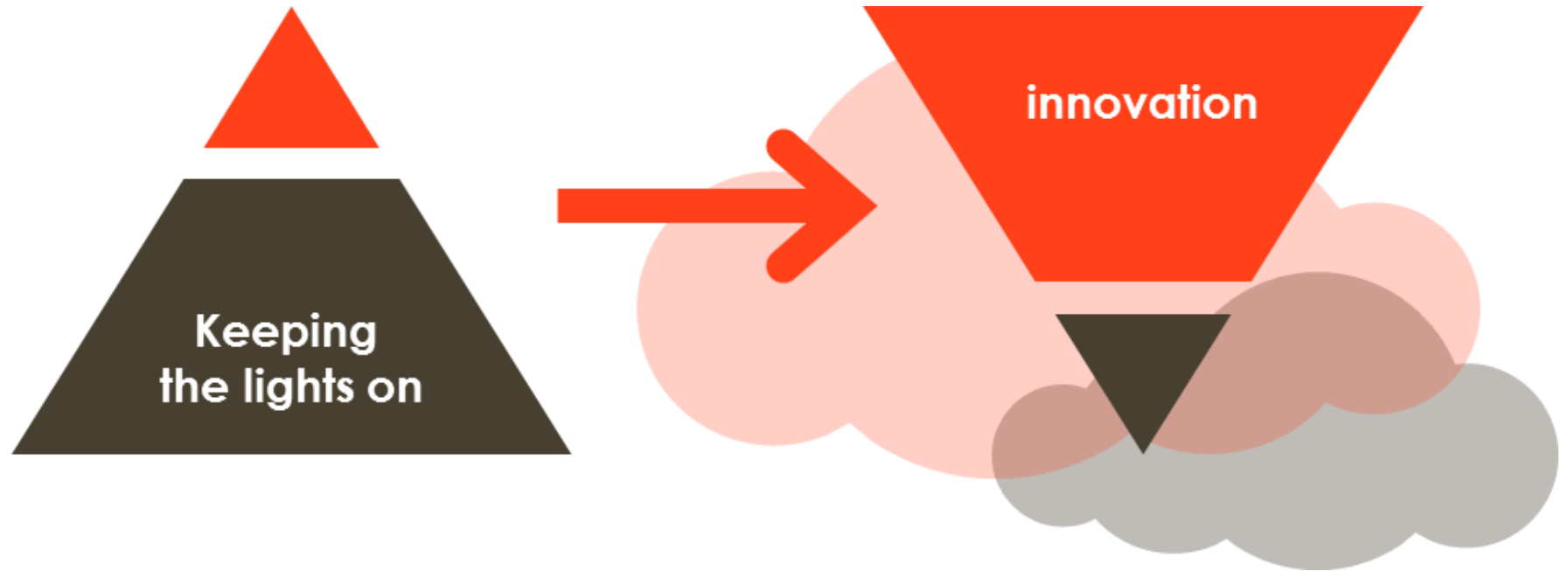
## Core objective IT

- Facilitate
- Continuity



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# Shift focus



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# Cloud as benchmark

- ▶ Can we do IT cheaper?  
Or Better?
- ▶ Do we really need that custom functionality?
- ▶ What would we do if we could start Greenfield?
- ▶ What can be commoditized and  
what makes us unique?
- ▶ Can we keep up?



**Cheaper?**



**Better?**



**Faster?**



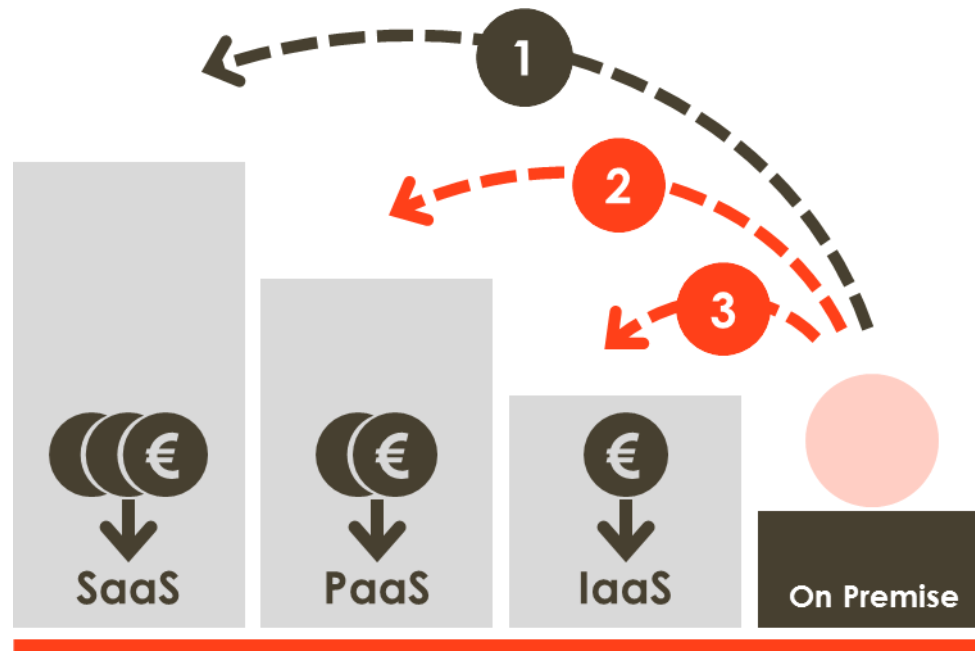
**?**



# Strategy.



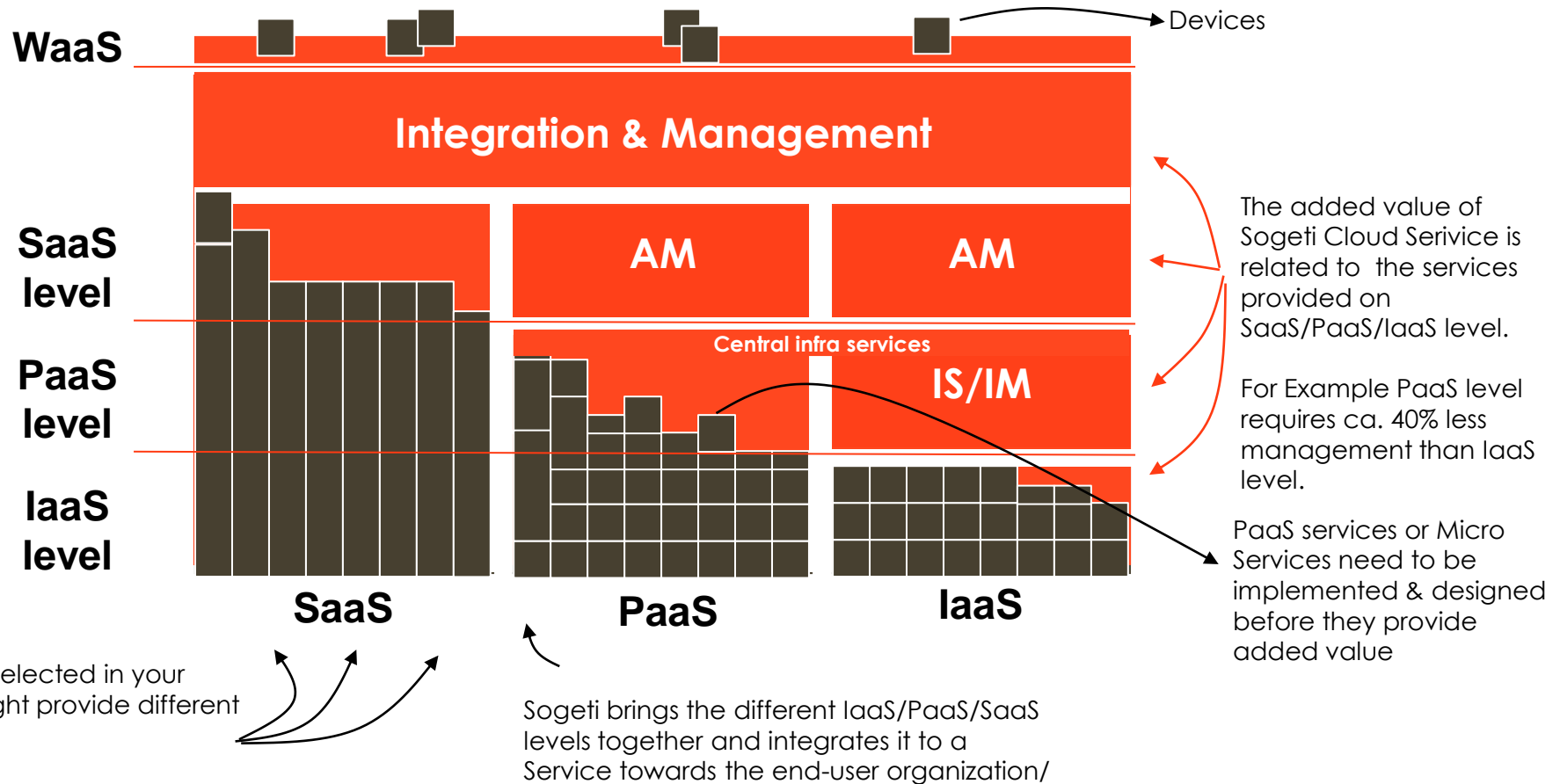
# Full cloud



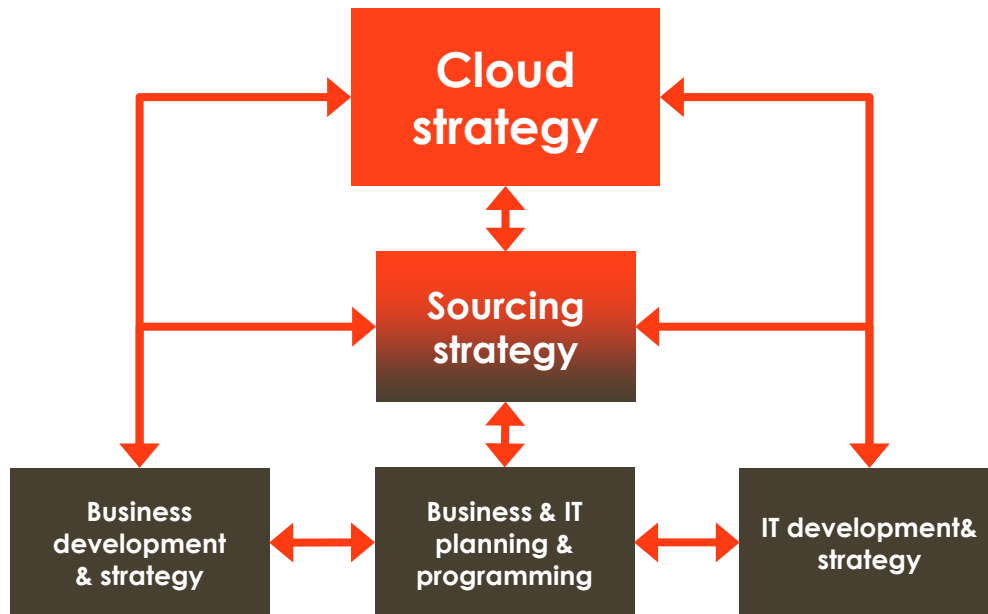
# Cloud service models



# Cloud: some complexity added



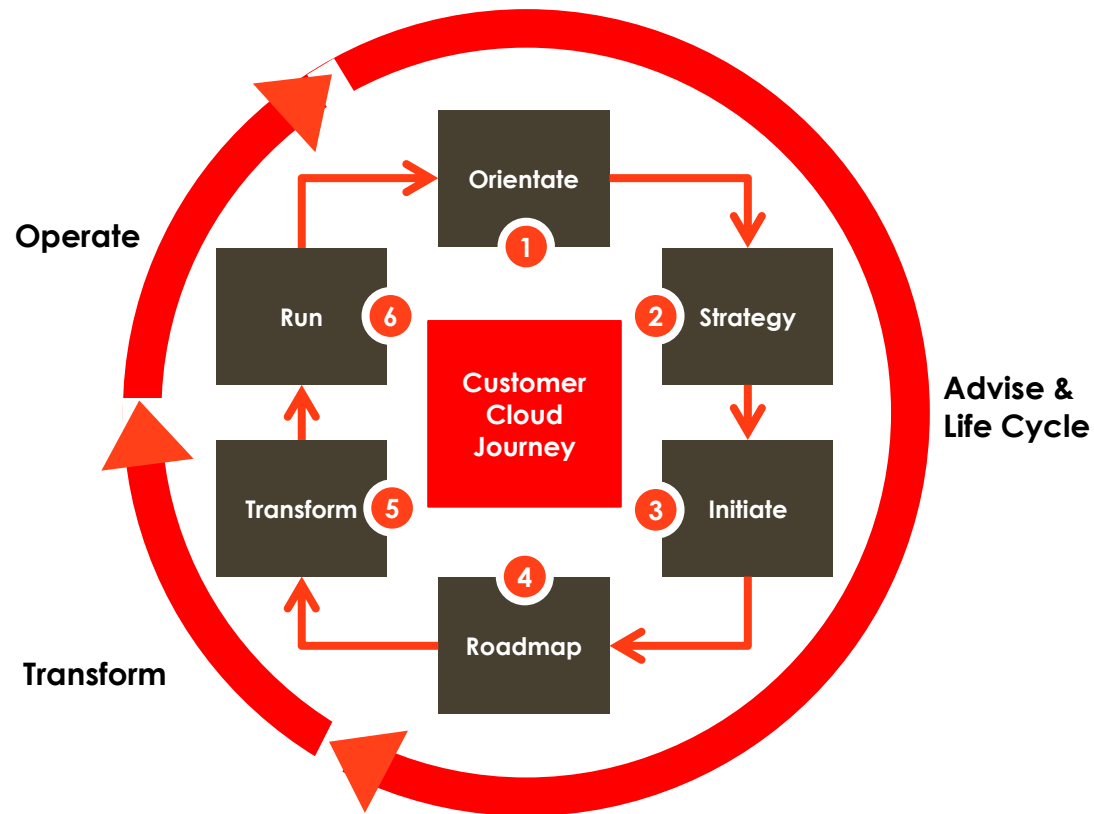
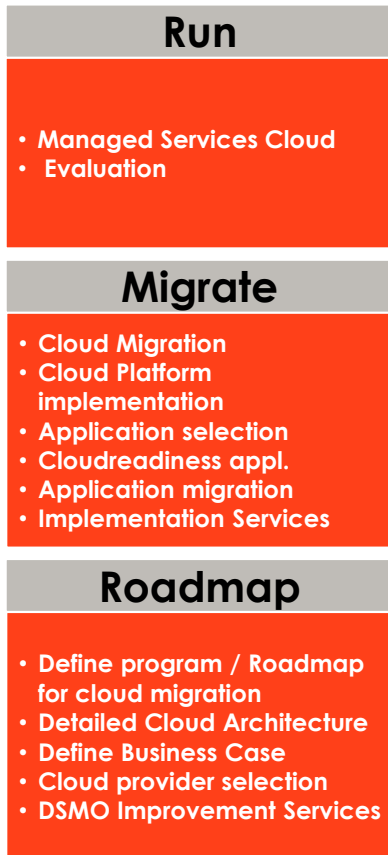
# Cloud strategy: it depends...



## Focus on Cloud Strategy

- The other strategy domains will feed the Cloud strategy
- Insights in Cloud benefits and characteristics will influence the other domains
- Redefining all other domains before defining Cloud Strategy will take too much time
- Defining the Cloud Strategy requires clear insights in details of the Business Strategy and objectives
- Continuously challenge the Cloud Strategy with your objectives:
  - Increase Agility
  - Improve Quality of Service
  - Reduce TCO / Improve ROI

# Continuous strategy



# Principles

- ▶ ...must hurt somewhere
- ▶ ...guide the cloud journey (multi-year)
- ▶ ...addresses business driven needs/priorities (towards IT)
- ▶ ...directs the cloud integration & security/compliance strategy
- ▶ ...supports flexibility while keeping trust

## Customer X Leading Principles

#	Principle	Description
1	Security	Services in the Cloud are delivered from resulting in compliance to use's IT landscape
2	Stability	Services in the Cloud are delivered from framework that leverages the high avail. resulting in a stable and scalable IT landscape
3	Simplification	Use of commodity services drive standard the IT landscape, resulting in lower cost and innovation.
4	Time to Market	Shorter time-to-market especially in cloud functionality. New functionality and technology available in the public Cloud compared to on-premise
5	Focus	No concerns for ISE anymore regarding services in the IT landscape, both in on-premise LCM. No need to keep up with the high basic IT services.
6	On demand (Self service)	Cloud services are defined by the vendor provisioned by ISE in an automated and is infinite scalability for the commodity provisioning is automated for self-service services when needed by the business



## Cloud architecture principles

1 standardized	2 stay current	3 multi-tenancy
4 services based	5 loosely coupled	6 stateless
7 shared nothing	8 design for failure	9 no net



## Secure architecture principles

1 always compliant	2 always in control & auditable	3 verified trust
4 standardized controls	5 defense in depth	6 edge & zone control
7 always encrypted	8 3-level trust model	9 desired state monitoring



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# Security principles

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always compliant

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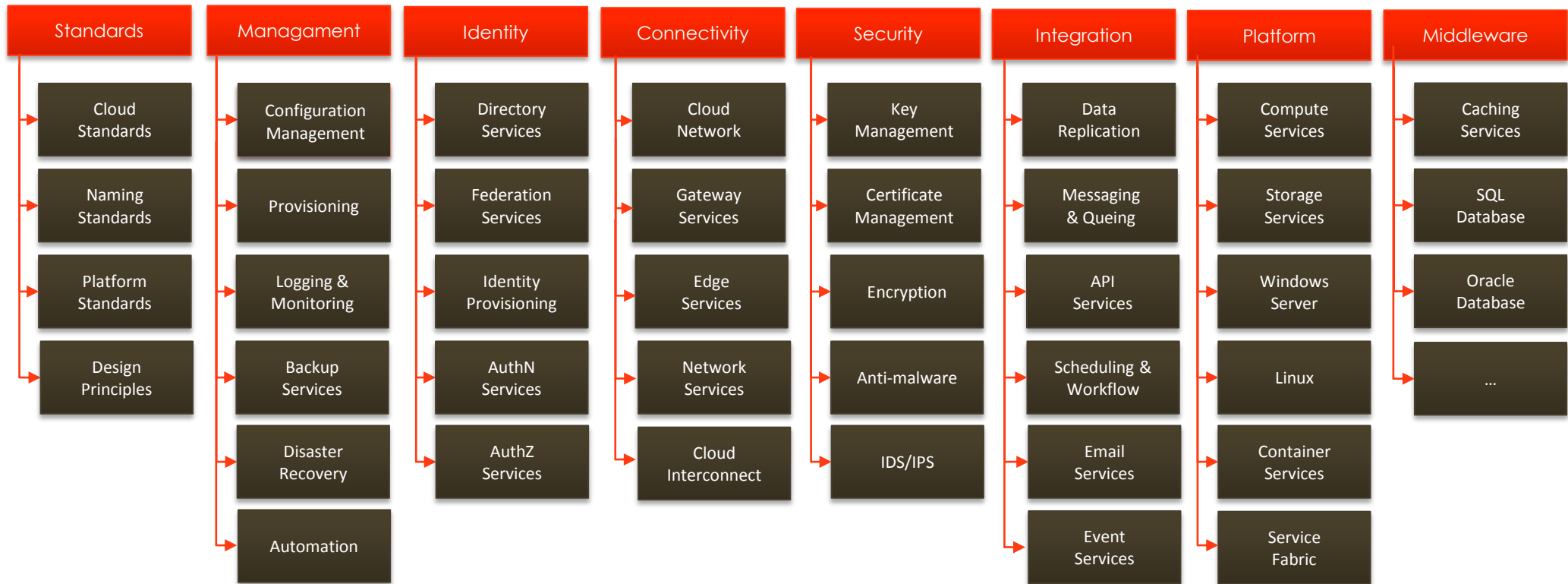


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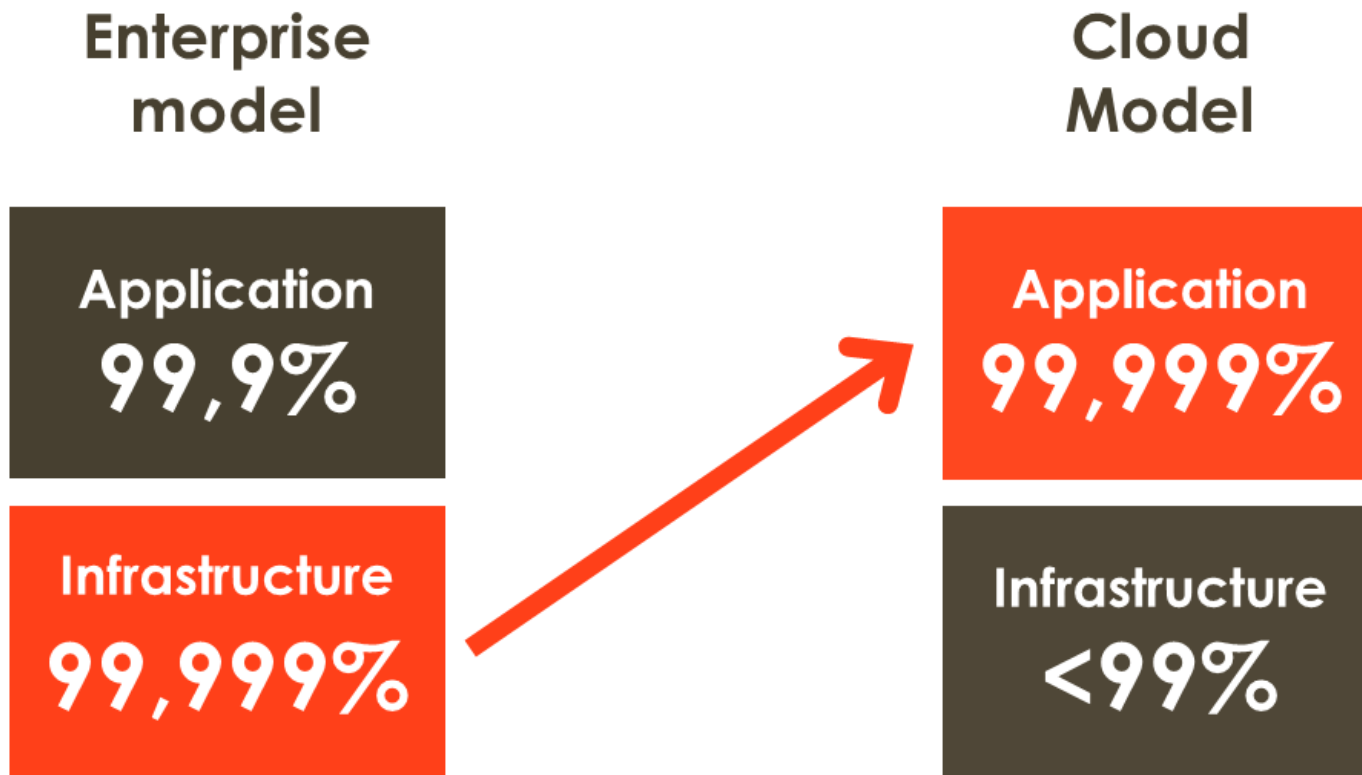
# Foundation.



# Cloud architecture: why?



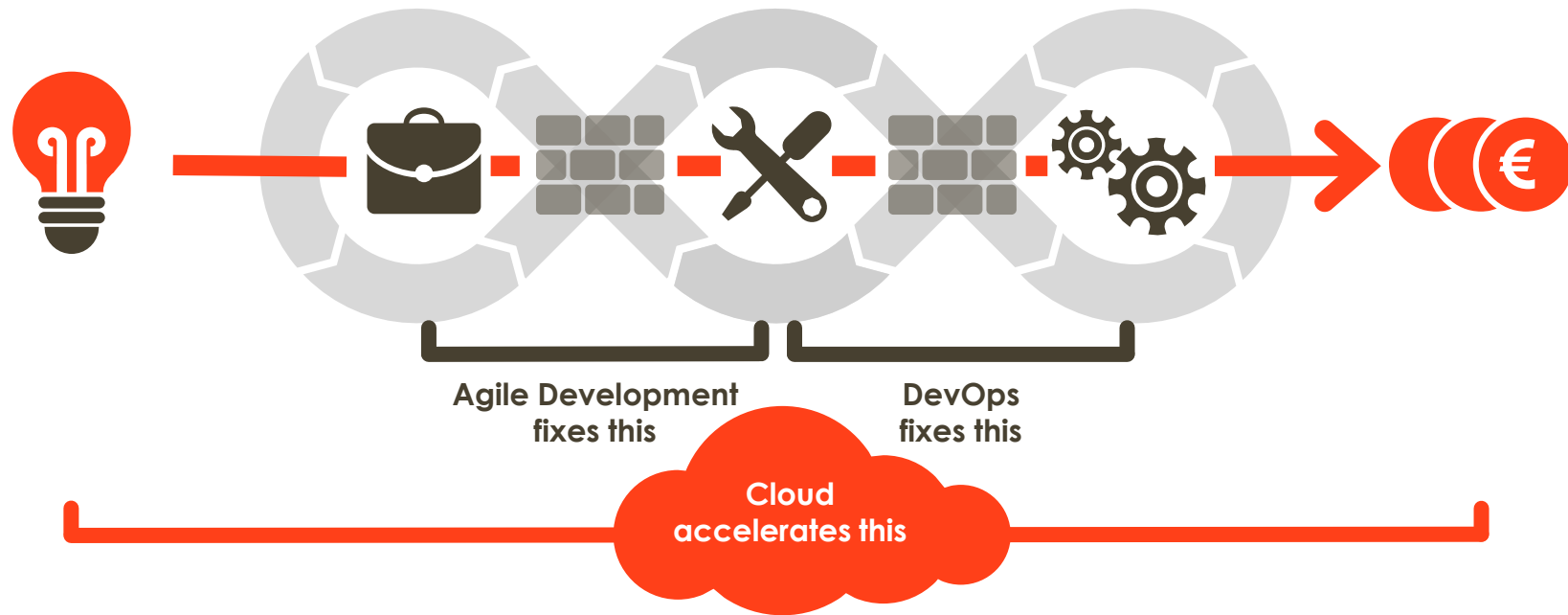
# Shift of responsibility



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# Create. Value. Fast.

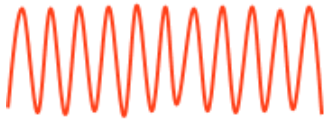
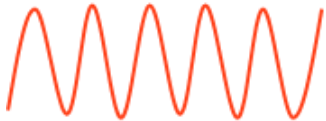

Cloud  
Acceleration  
Summit



# Workloads.



# Workload differentiation

Innovation sequence	Category
	<b>Fluid – IT (Front office)</b>
	<b>Business logic</b>
	<b>Core – IT (non-Agile )</b>

Prior Objective		
Reduce TCO	Improve QoS	Increase Agility
3	2	1
2	1	2
1	2	3

# Trends.

## ▶ **Innovate for the “Third Platform”**

Born in the cloud will accelerate. However, it requires new skills in Security, Social, Cloud, Mobile, Big Data/Analytics, IoT, Gamification, and Cognitive Computing.

## ▶ **Loosely Coupled is the new SOA**

Applications and Clouds must be highly self-contained and have lightweight integration requirements.

## ▶ **Use of APIs Accelerates**

In 2016, we are going to see a huge leap forward in how APIs are put to use to drive innovation and help organizations be more efficient and profitable.

## ▶ **Designing For Hybrids**

Developers must design private cloud services with a hybrid future in mind . Must make sure future integration and interoperability are possible, securing the enterprise at the same time.

## ▶ **DevOps Adoption Accelerates**

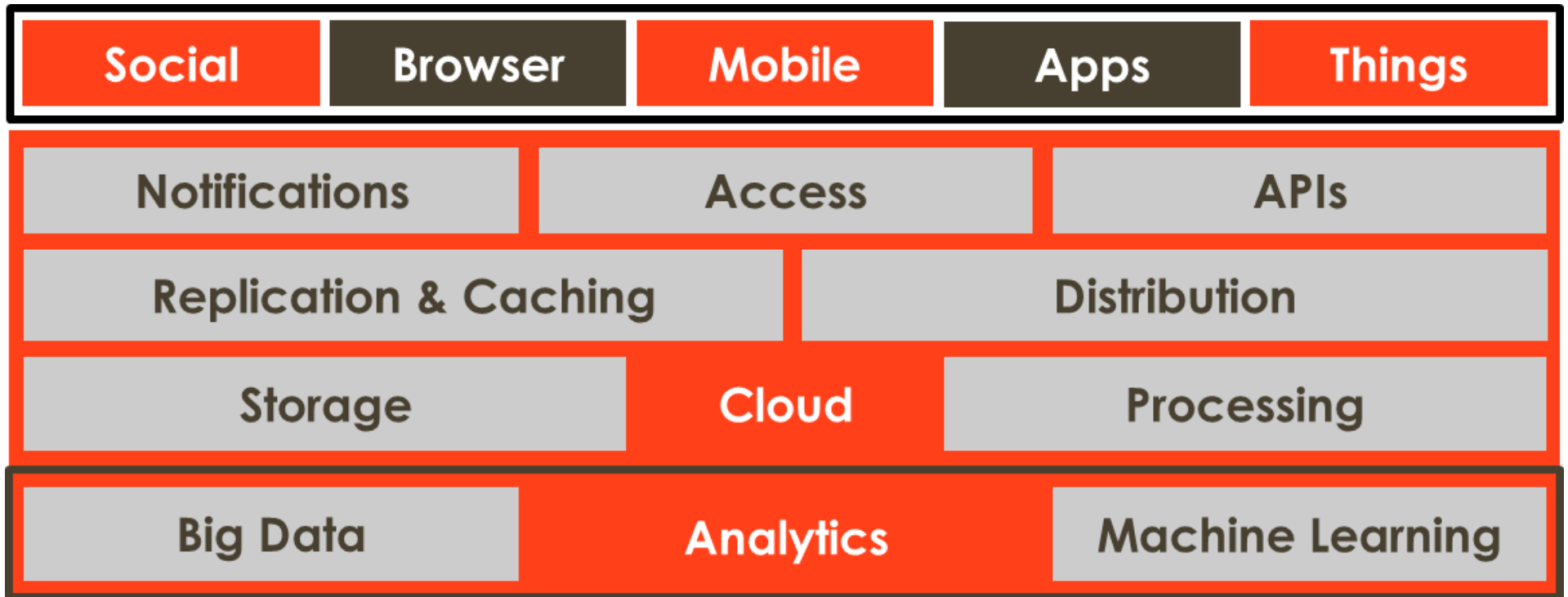
More than just about automating deployments, DevOps requires cultural change, including coordination, collaboration and trust among the teams that participate in the app lifecycle.



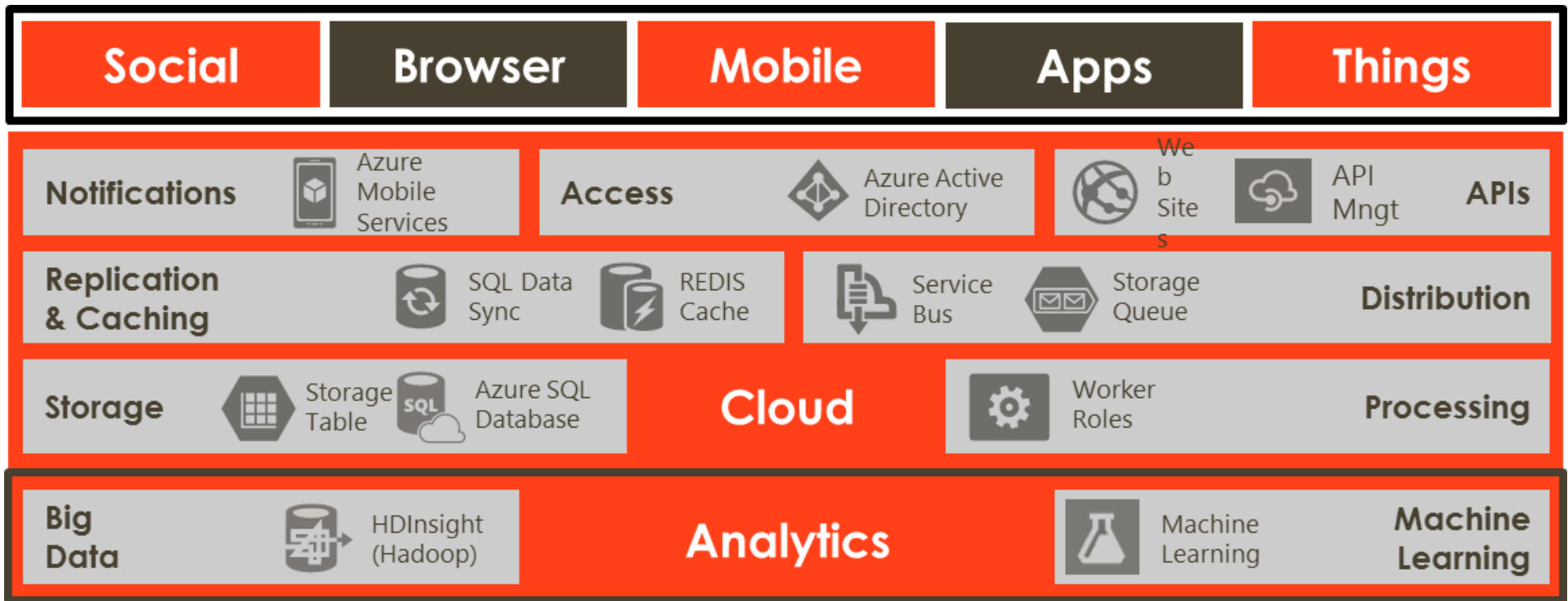
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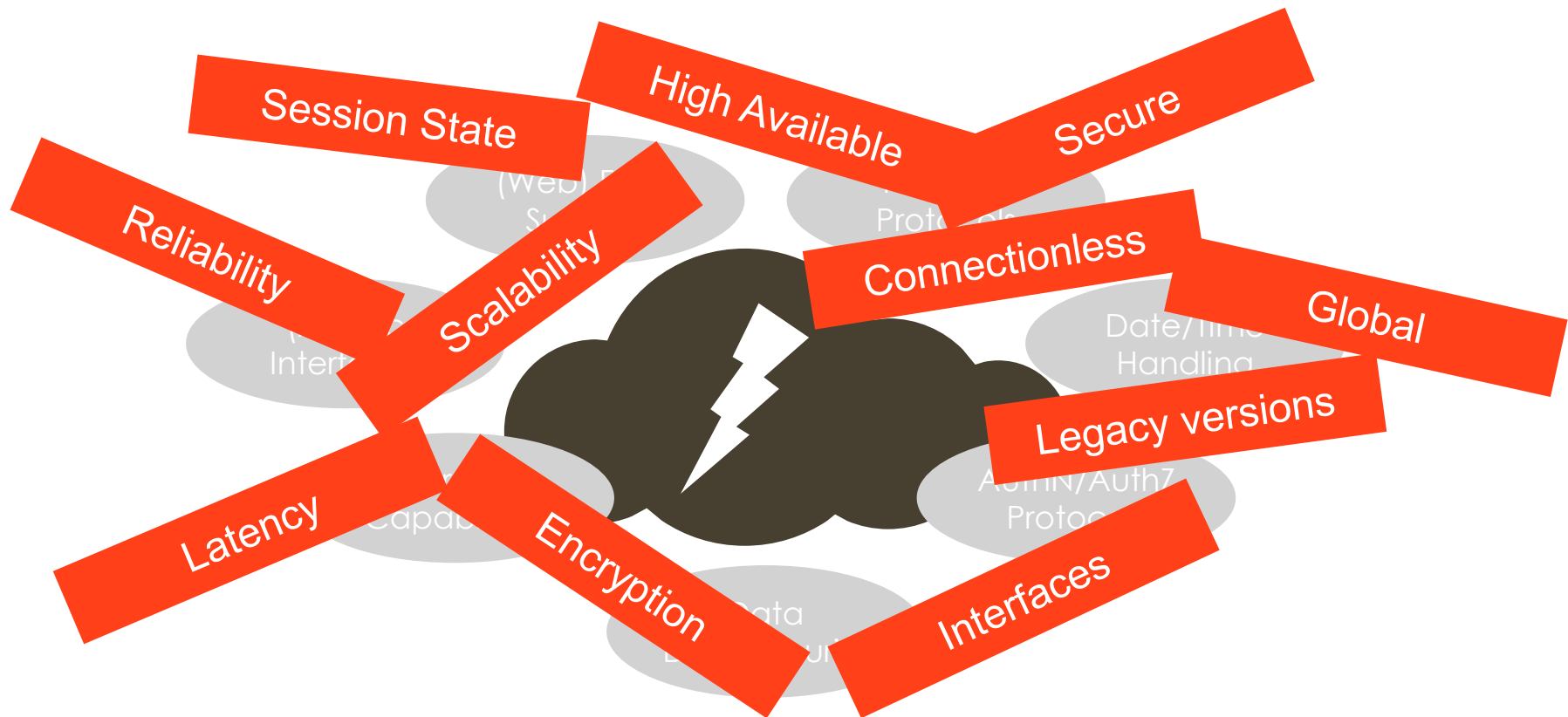
# Born in the cloud.



# Born in the cloud. Azure.

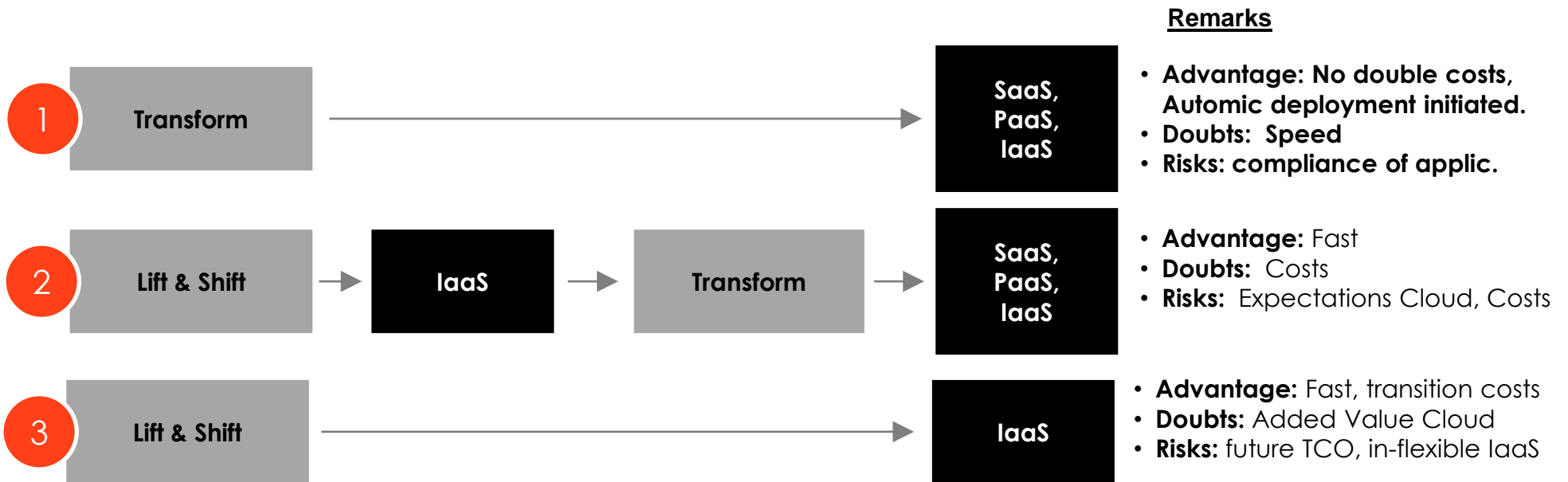


# Cloud-ready?



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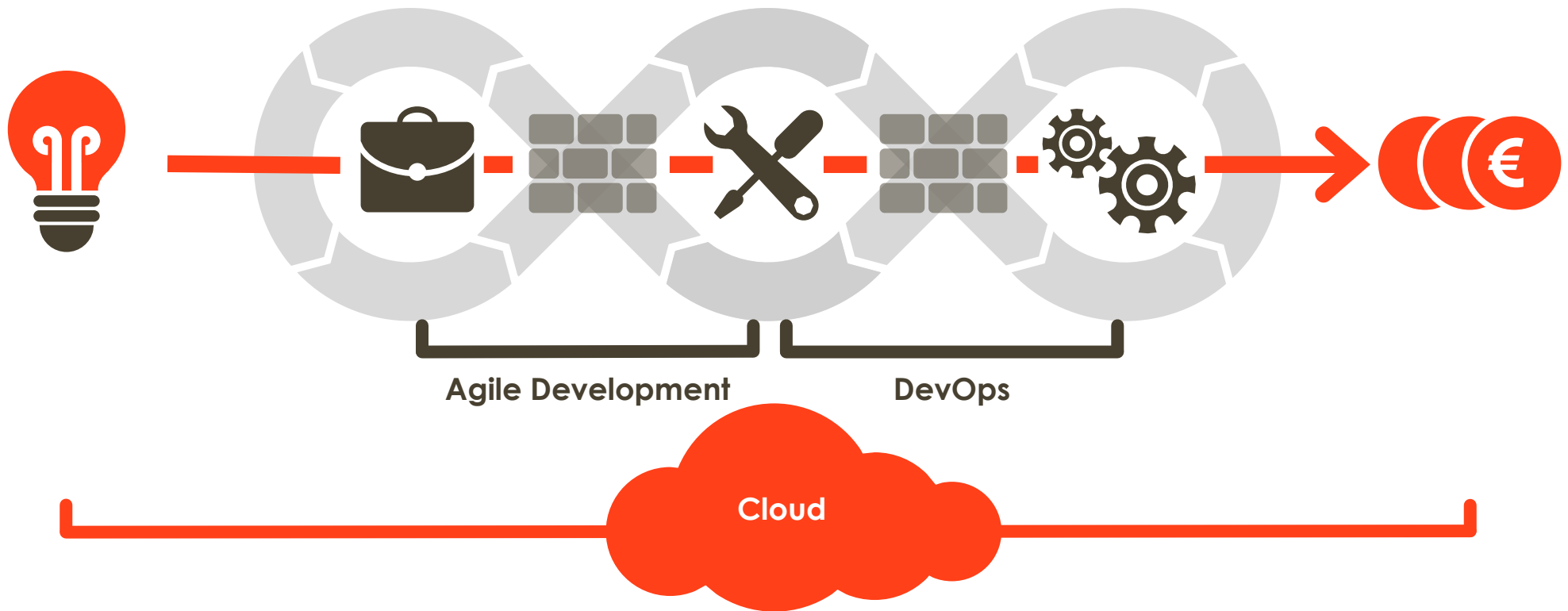
# Transition.



# Conclusion.



# Cloud agility.



# Cloud – rules of engagement

Trigger  
**awareness** on all  
levels.  
And focus on  
**Business Benefits**

## **Orchestrate** Migration

Consider:

- Platform and applications
- Rationalize before migrate (ideal)
- Prioritize Apps (Category, BC, Quick wins)
- Notice Life cycle events
- **Only recent versions**
- Architecture Compliance
- Decisions Governance model

Dare to disrupt  
and **empower**  
teams.

Identify and  
manage affected  
areas (see AWS  
**Cloud Adoption  
Framework**)

Accept reduced life  
cycles (sunk cost)  
during migration.

Define **Cloud  
reference  
Architecture**

## **Start**

Implement **Governance:**

- Reference Architecture
- **Security**
- **Generic services**
- Platform management
- Cloud Specific roles



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**Thank You.**



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