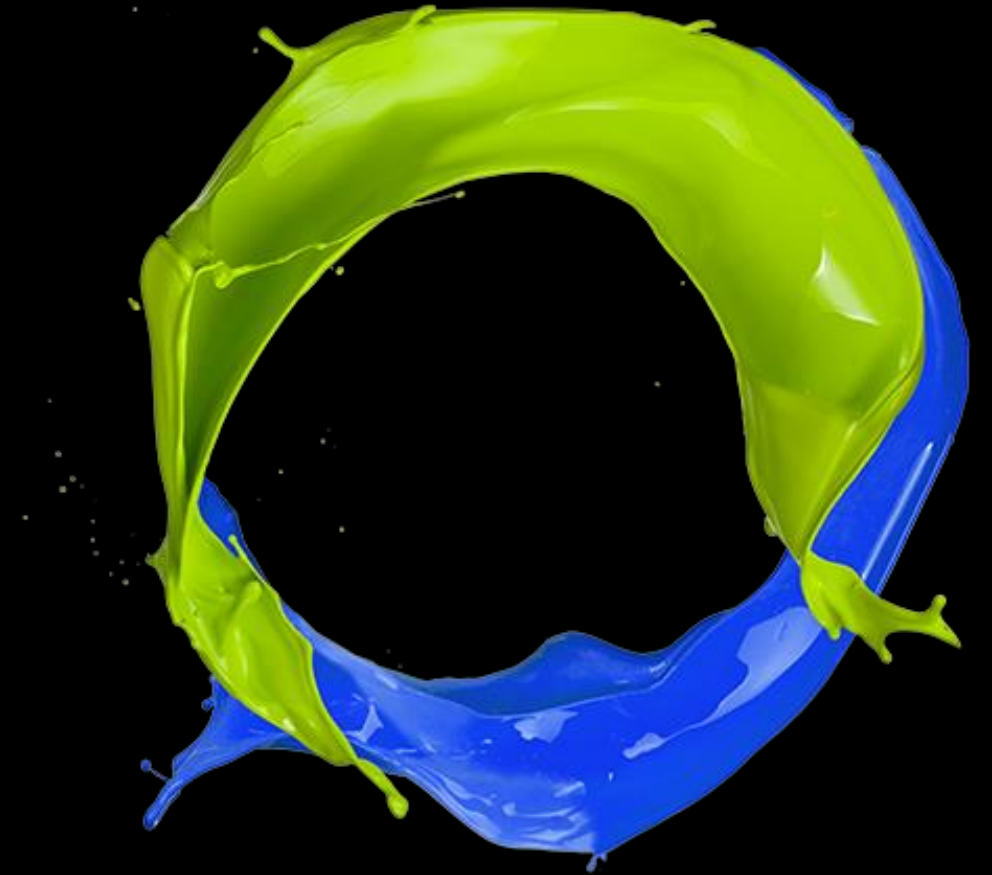# Deloitte.

Policy-Driven SAP® Application & Infrastructure
Delivery & Governance

Praveen Mayalur, Specialist Leader, Deloitte Consulting LLP

What Business Wants

Agility to respond to business needs

- Faster deployment
- On demand scalability for capacity
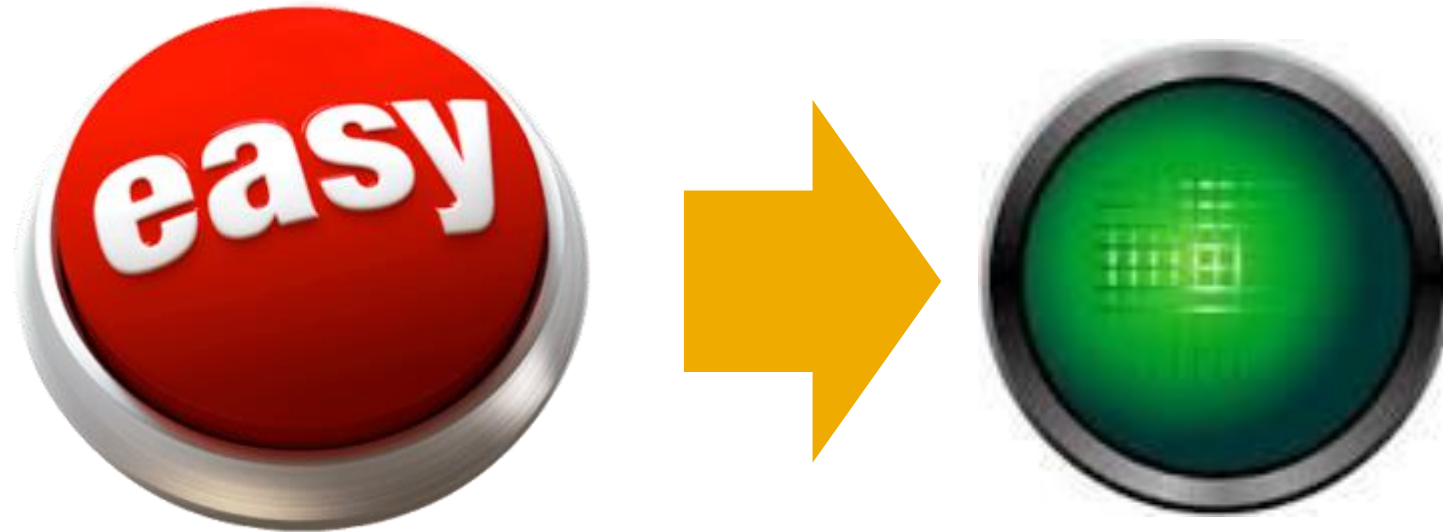
Reduce cost of ownership

- Shorter Implementation cycle
- Lower maintenance cost

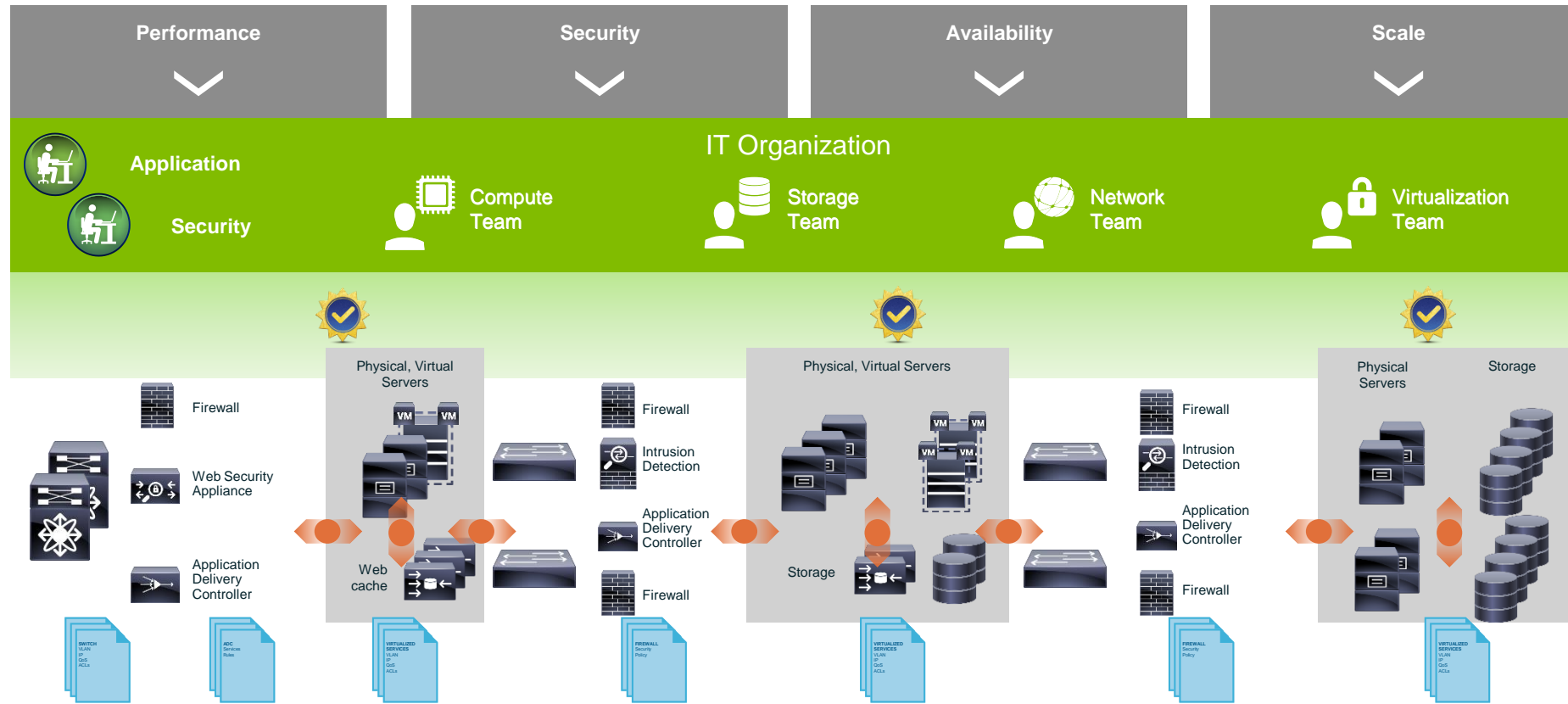**Improve service quality**

- Ensure quality implementation
- Security and governance
- Meet Compliance requirements

What IT Wants

Ease of SAP deployment

What IT Gets

Typical Client Scenarios

Business Transformations

- Greenfield SAP S/4HANA, Suite on SAP HANA, SAP BW on SAP HANA implementations

- M&A activity - consolidate multiple SAP systems / datacenter infrastructure assets
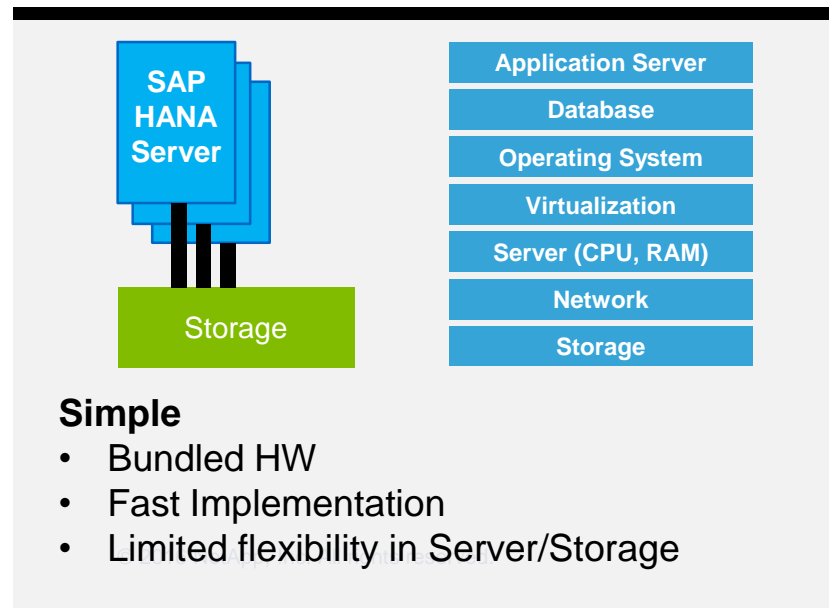
Technical Transformation

- SAP Modernization (Upgrade / SAP HANA Migration)

- Migration of existing SAP systems to SAP S/4HANA, SAP BW on SAP HANA on cloud

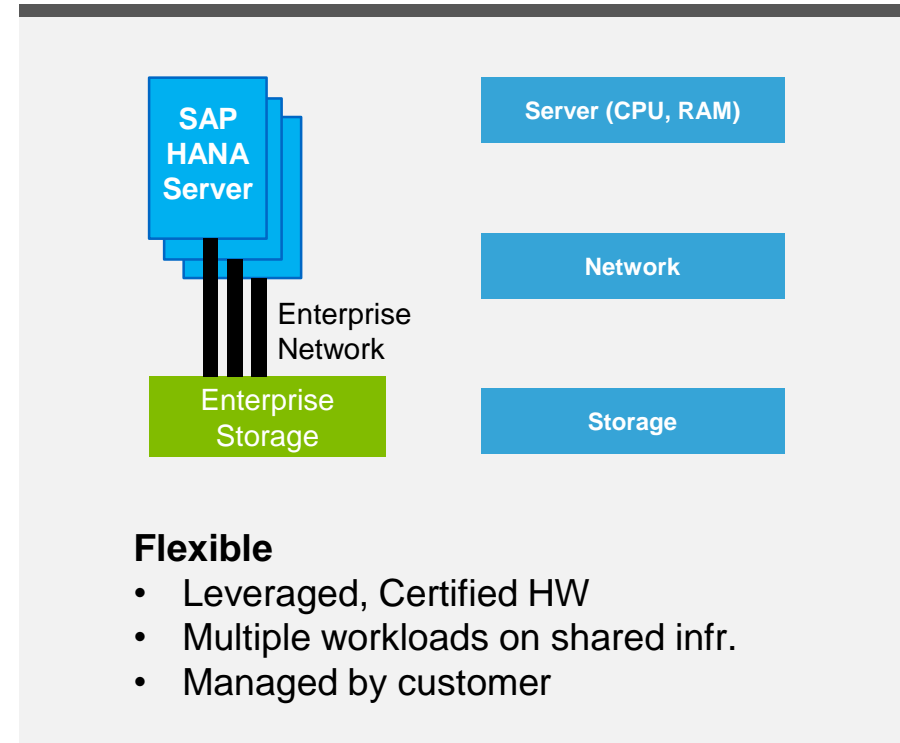# Current SAP HANA and SAP S/4HANA Deployment Models

Appliance

✓ Easy

SAP HANA Server		
	Application Server
	Database
	Operating System
	Virtualization
	Server (CPU, RAM)
	Network
	Storage

Storage

Simple
- Bundled HW
- Fast Implementation
- Limited flexibility in Server/Storage

TDI
(Tailored Data Center Infrastructure)

Flexible

SAP HANA Server	Server (CPU, RAM)
Enterprise Network	Network
Enterprise Storage	Storage

Flexible
- Leveraged, Certified HW
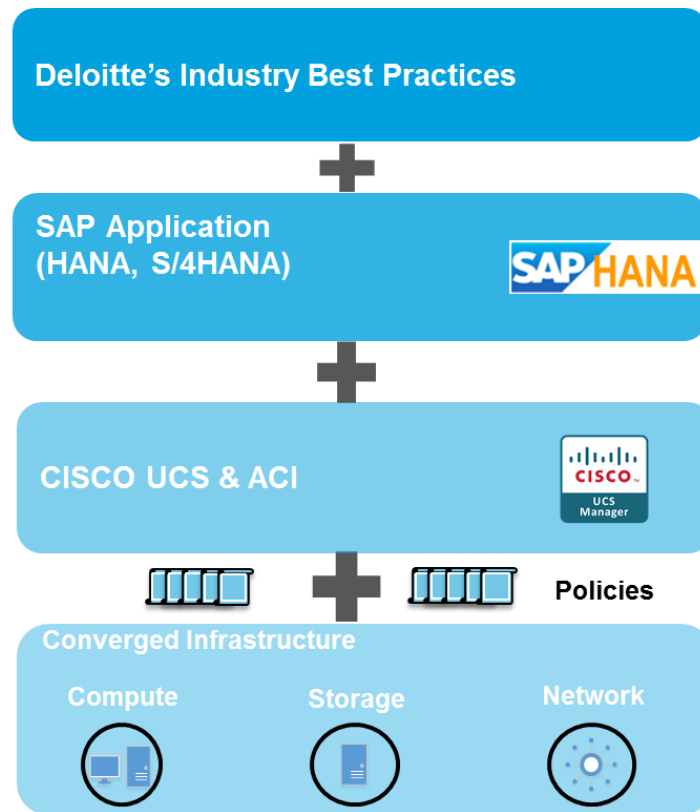- Multiple workloads on shared infr.
- Managed by customer

Problem Statement

- Typical **deployment time** for SAP S/4HANA or SAP BW on SAP HANA is months
- Manual deployments are **expensive** and **error-prone**
- Manual deployments of SAP S/4HANA will slow down adoption
- TDI-compliant systems can be **difficult to configure** correctly
- Infrastructure changes to a TDI-compliant system require **re-testing**
- Governance per customer or industry policies is **additional cost** and **effort**
- **Auditability** of manual deployments requires forensic analysis

Solution – Policy Driven Application and Infrastructure Delivery

Delivering SAP Apps with zero touch, in hours rather than weeks or months

Deloitte's Industry Best Practices

+

SAP Application (HANA, S/4HANA)

SAP HANA

+

CISCO UCS & ACI

CISCO UCS Manager

+ Policies

Converged Infrastructure

Compute   Storage   Network

Goal: Deployment

- Rapid deployment
- Secure and auditable
- Industry standard embedded policies
- Scalable
- Fully Automated
- Single Touch

Deloitte.   CISCO   SAP   Vnomic

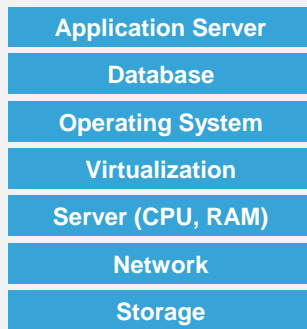# Zero Touch Delivery and Governance

Deploy SAP applications with a single click

Leveraging Policy Driven Application Delivery

Business Agility

Policy Driven TDI

✓ Easy Flexible 🔒 Secure

TDI
(Tailored Data Center Infrastructure)

Flexible

Appliance

✓ Easy

SAP HANA Server

Application Server
Database
Operating System
Virtualization
Server (CPU, RAM)
Network
Storage

Storage
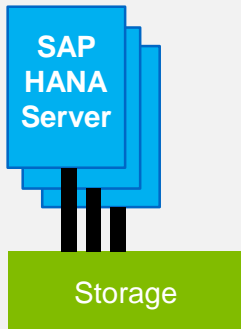
Simple
- Scale Up
- Bundled HW
- Single workload per Appliance

SAP HANA Server

Server (CPU, RAM)
Network
Storage

Enterprise Network

Enterprise Storage
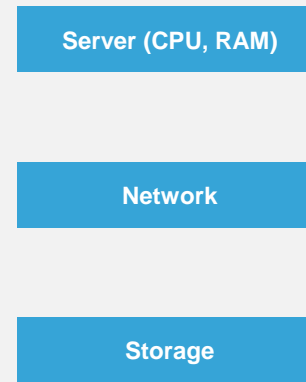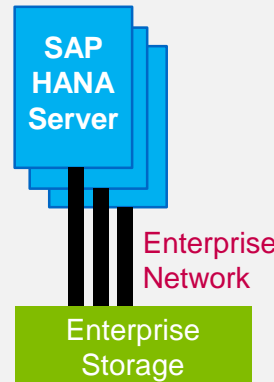
Flexible
- Scale Out
- Leveraged, Certified HW
- Multiple workloads on shared infr.

APIC

Performance   Security   Availability
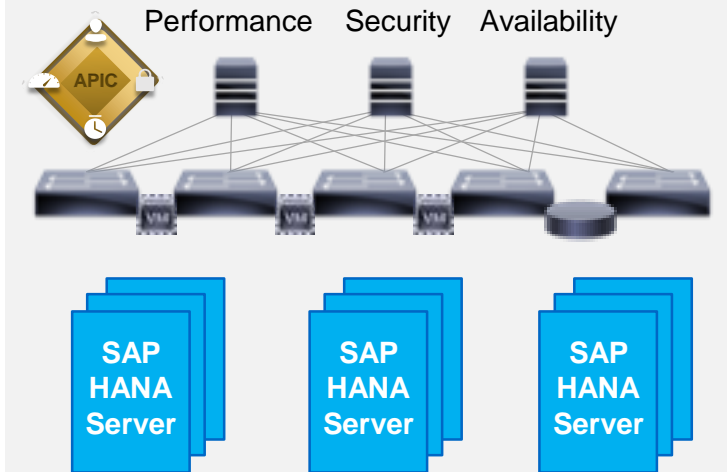
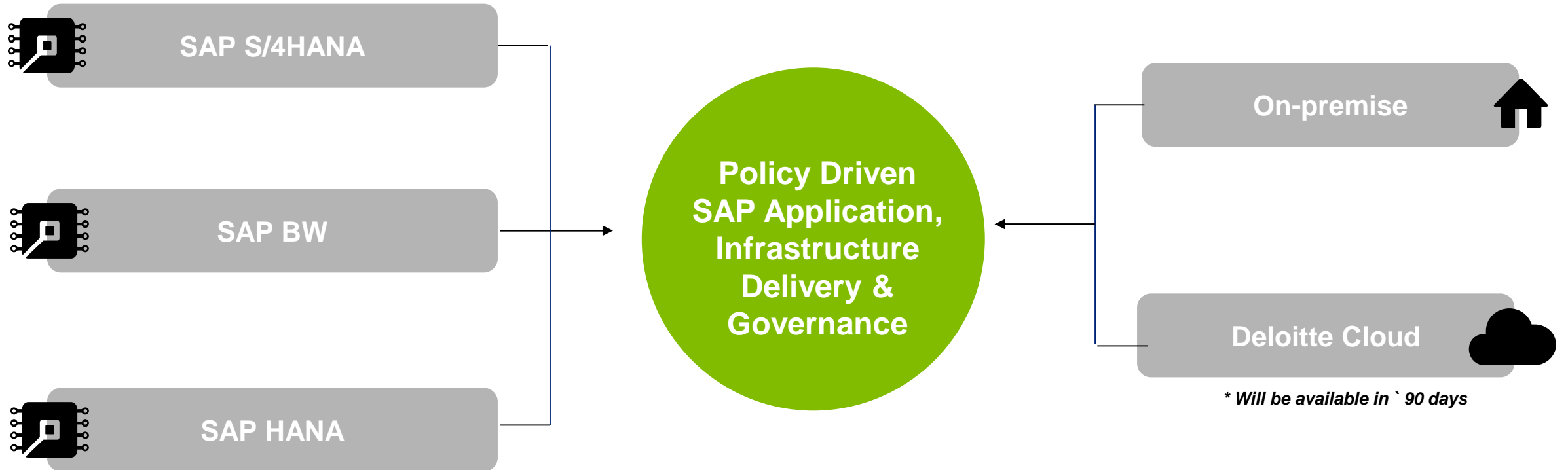SAP HANA Server   SAP HANA Server   SAP HANA Server

Simple + Flexible
- Scale up + Scale Out
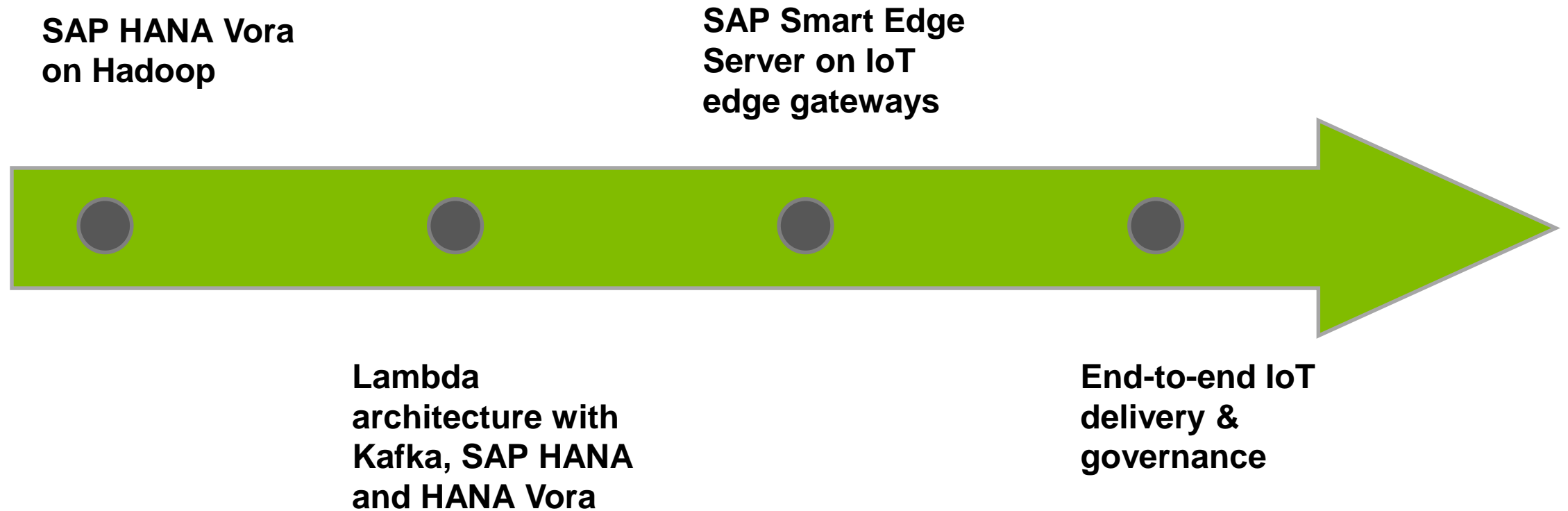- Inherent security
- Dynamic workloads

Solution Benefits

Benefits

▶ Accelerate Deployment

▶ Rapid Analysis, Troubleshooting

▶ Scale SAP Application Capacity

▶ Monitor and Remediate Automatically

Current Availability

SAP S/4HANA

SAP BW

SAP HANA

Policy Driven SAP Application, Infrastructure Delivery & Governance

On-premise

Deloitte Cloud

* Will be available in ` 90 days

Roadmap for SAP Automated Delivery & Governance

**SAP HANA Vora
on Hadoop**

**SAP Smart Edge
Server on IoT
edge gateways**

**Lambda
architecture with
Kafka, SAP HANA
and HANA Vora**

**End-to-end IoT
delivery &
governance**

Policy-Driven Delivery & Governance Demo

Next Steps

Test Drive your SAP applications in our labs and realize the benefits

Evaluate your infrastructure, its dependencies and build deployment roadmap

Setup the solution and automate the deployments

Continue the Conversation

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