



The ODCA, Helix Nebula and Federated Identity Management

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Agenda

- ▶ The Open Data Center Alliance
- ▶ Helix Nebula
- ▶ Federated Identity Management as a service

A background image showing two rock climbers silhouetted against a blue sky, climbing a tall, dark rock formation. The scene is set against a backdrop of a mountain range under a clear blue sky.

IT'S ALL ABOUT TRUST

OVERVIEW

From Mick Symonds' perspective



OPEN
DATA
CENTER
ALLIANCE

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more give, less take



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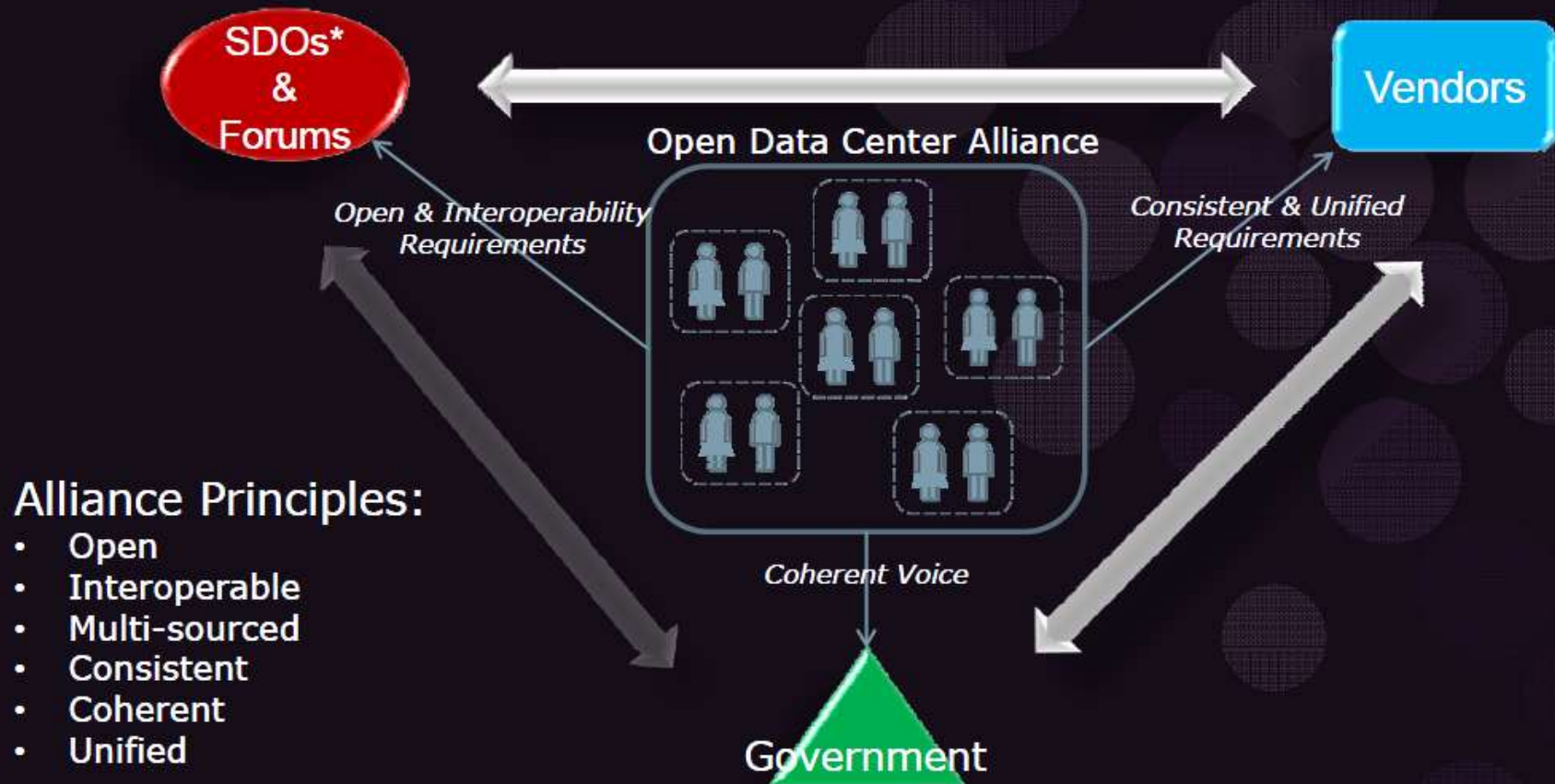
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WITH ALLIANCE - A TRANSFORMED ECOSYSTEM

END-USER VOICE AMPLIFIED, COHERENT AND UNIFIED



Alliance Principles:

- Open
- Interoperable
- Multi-sourced
- Consistent
- Coherent
- Unified



- * SDO = Standards Development Organization
- Open Data Center Alliance will not create standards only provide requirements

FOCUS AREAS & WORKING GROUPS

Draft

*Cloud
Creation*

Infrastructure

* virtual/physical design and aspects, virtual/physical component management, storage, network, compute, facilities, platforms (e.g. clients, mobile, database, web servers), backup, availability, appliance construction

*Effective
management &
Operation*

Management

* Control mechanism, standard interface requirements, define objectives to be met, policies, system decisions, orchestration, logical aggregation/pooling/topology management, logical artifacts, metadata, models federation requirements (e.g. naming), "end to end" services (e.g. monitoring, quality of service), MAPE (Monitoring, Analyze, Plan, Execute)

*Secure and
Govern*

Security

* incident response, forensics, assurance, attestation, malware mitigation, entitlement, AAA, access control, policy, compliance, governance risk, risk mitigation, isolation

Cloud Use

Services

* Usages that describe the kind of services those are visible to the end user, SLA, service metering, service definition, billing, contracts (standard term language, KPI), subscriptions, service catalogs, order management, service taxonomy, consumption metrics (e.g. units, measures) and mappings, appliance use

*Government,
Environment &
Ecosystem*

**Regulation &
Ecosystem**

* Business/consumption model, commoditization and markets, licensing, green computing (energy/carbon footprints), tax credits, regulatory (SAS 70, FISMA, PCI, HIPAA), internationalization, geo requirements



Publications to date and in progress ...

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•SECURE FEDERATION

- [Security Provider Assurance Rev. 1.1](#)
Industry standard security levels across all providers
- [Security Monitoring Rev. 1.1](#)
Users can confirm compliance any time, any cloud
- [Identity Management Interoperability Guide Rev. 1.0](#)
- [Cloud Based Identity Governance and Auditing Rev. 1.0](#)
- [Infrastructure as a Service \(IaaS\) Privileged UserAccess Rev. 1.0](#)
- [Cloud Based Identity Provisioning Rev. 1.0](#)
- [Single Sign On Authentication Rev. 1.0](#)

•AUTOMATION

- [IO Control Rev. 1.1](#)
Extend QoS guarantees from system to network
- [VM Interoperability Rev. 1.1](#)
VM deployment and management across any virtual
- [Long Distance Workload Migration Rev. 1.0](#)

•COMMON MANAGEMENT AND POLICY

- [Regulatory Framework](#)
Guide industry in requirements and compliance management best practices

•TRANSP ARENCY

- [Carbon Footprint Rev. 1.1](#)
Cloud services become "CO2 aware"
- [Service Catalog](#)
Enable users to compare cloud service features and price across clouds
- [Standard Units of Measurement for IaaS](#)
Enable users to measure cloud services based on industry standard models

And more in progress:

- ▶ Identity Management in the New Hybrid Cloud World
- ▶ Identity Management Interoperability Guide Rev. 1.0
- ▶ Cloud Based Identity Provisioning Rev. 1.0
- ▶ Cloud Based Identity Governance and Auditing REV. 1.0
- ▶ etc.

A European cloud computing partnership: big science teams up with big business



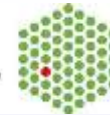
Strategic Plan

- ▶ Establish multi-tenant, multi-provider cloud infrastructure
- ▶ Identify and adopt policies for trust, security and privacy
- ▶ Create governance structure
- ▶ Define funding schemes



To support the computing capacity needs for the ATLAS experiment

EMBL



Setting up a new service to simplify analysis of large genomes, for a deeper insight into evolution and biodiversity



To create an Earth Observation platform, focusing on earthquake and volcano research

Atos

Capgemini
CONSULTING TECHNOLOGY INFRASTRUCTURE

CloudSigma

egi

interoute
from the ground to the cloud

logica
be brilliant together

OpenNebula.org
The Open Source Solution to Cloud Computing

orange Business Services

SAP

the SERVER LABS
the IT architects

sixsq

Telefonica

terradue 2.0

THALES

Systems

Customers, users



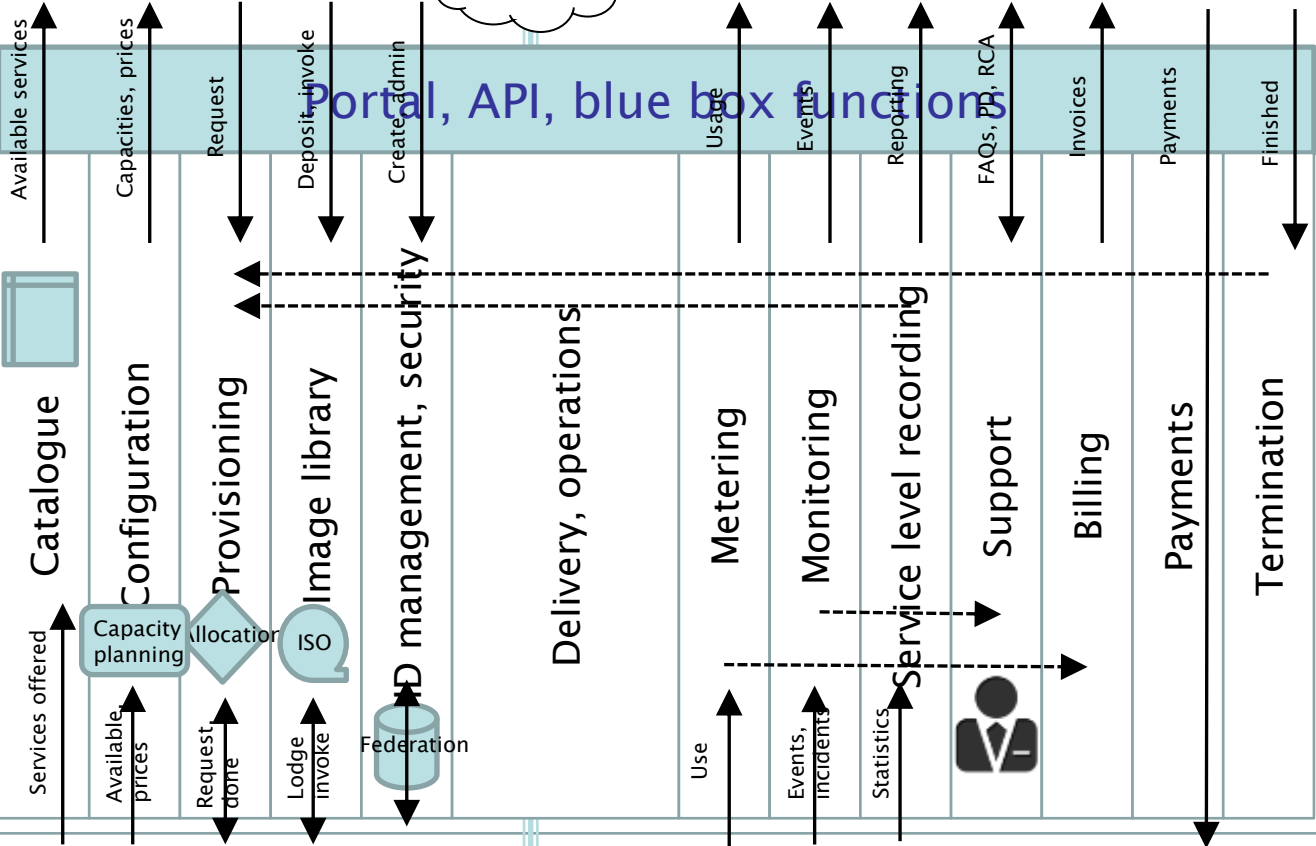
Advice, guidance

Implementation, transition

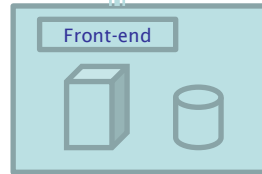
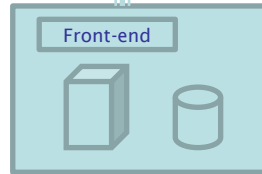
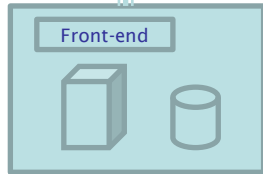
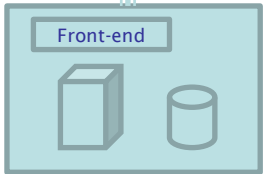
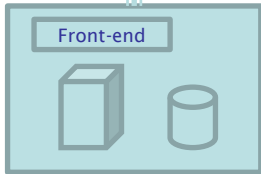
Service delivery

Visibility?

Master Services Agreement



Suppliers, providers



Atos Federated Identity Management

Summary of service context

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Innovation highlights / Solution description

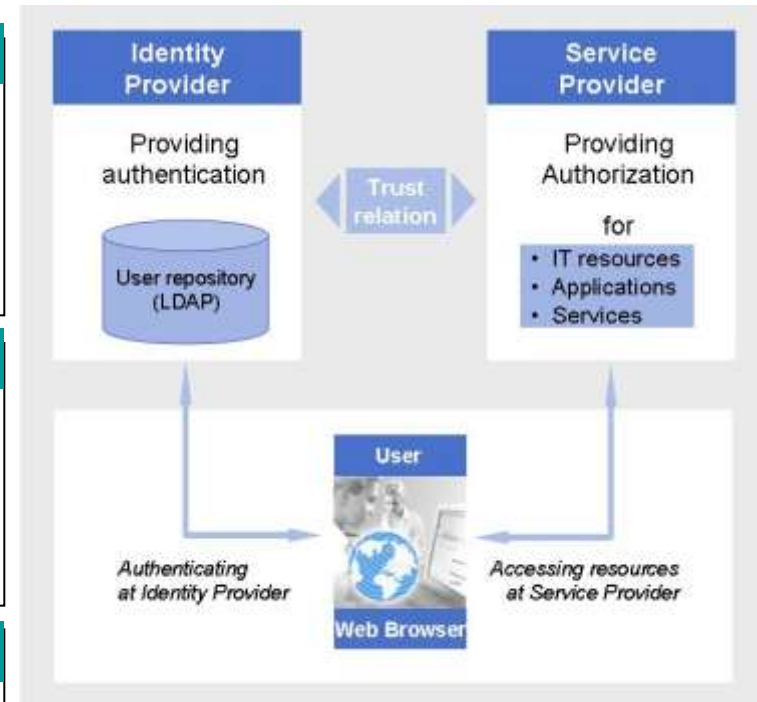
- Integration and administration of external cooperation partners' identities in an efficient and secure way
- Providing cloud services with consistent access control
- Protecting organizations' data without exposing their identity data to cloud service providers

Customer value

- No external administration of employees
- No transfer of internal data to external institutions
- Access rights immediately withdrawn at termination
- User signs on only once (Single-Sign-On)

Position of Atos offerings

- Atos provides for open, secure and privacy-respecting federated identity management
- Proven interoperability with the leading providers of cloud-based services
- Atos is trusted as provider for secure services and solutions



Identity Provider

- Managing digital identities
- Authenticating user
- Authoritative source for issuing and validation identities

Service Provider

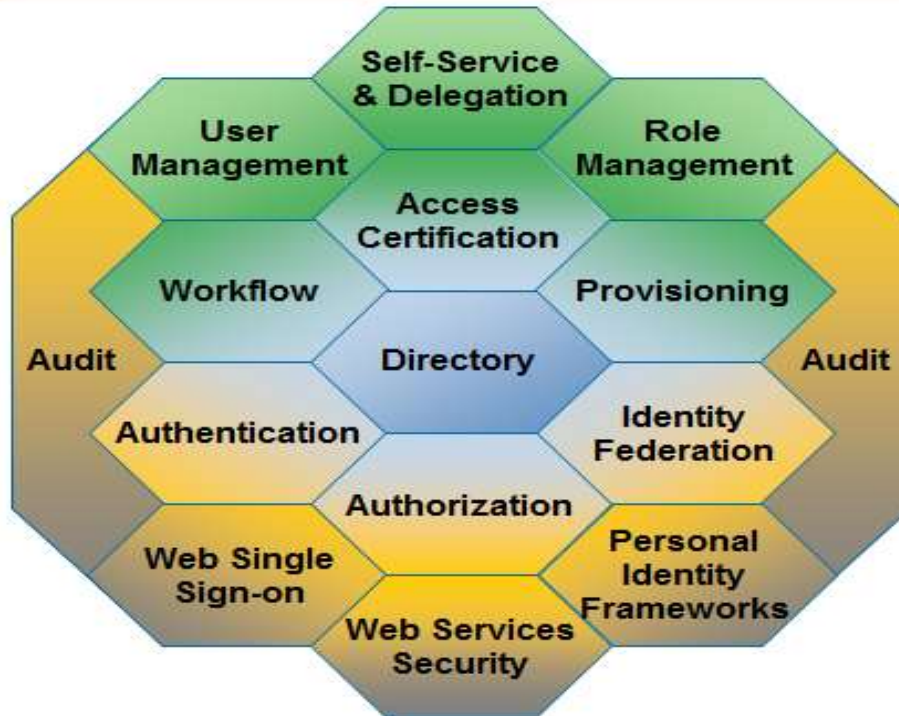
- Providing protected resources

Atos Identity and Access Management Products and Services

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Services



Identity Management Services

Automated user and entitlement management

Directory Services

Directories for enterprise and e-Business environments

Access Services

Secure and reliable Access Management and Federation for Web and SOA environments

Identity Assurance Services

Sustainable compliance through continuous Identity Auditing of user access and entitlements

The **Atos Identity and Access Management as a Service** allows organizations to transparently include private and public cloud services in their IT environment by reusing their existing identities (called federation) such that moving into the cloud becomes a seamless extension of their existing IT provision. IAMaaS is based on the **Atos DirX Intellectual Property** in which we have **more than 15 years of experience**.

Atos Federated Identity Management Implementation and Service

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Atos already runs a Federated Identity Management Service with a number of customers for specific use.

The service has the following characteristics:

- ▶ supports over 10,000 logins daily
 - ▶ Supports over 65 integrated applications
 - ▶ supports over 110 customers including some of our largest customers
 - ▶ has a tight working relationship with help desks
-
- ▶ Atos already has extensive experience with Identity Federation both with the **design** and **implementation** of such a service and running it **as a service**



Atos Federated Identity Management

Customer case – Atos in cloud integrator role

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Multinational customer demands a one stop shop for IAM Cloud services

Customer already selected the Federation Cloud Provider

Atos responsible for:

- ▶ Integration of Identity Federation / SSO in customer business processes
- ▶ End to end functionality and operations
- ▶ Atos owns customer SLA – federation cloud provider is subcontractor of Atos



Atos Federated Identity Management

Main take aways

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- ▶ One of the prerequisites for Federation is '**Mutual Trust**' between the participants. That may have different implications for a business enterprise and a research community
- ▶ Each organization **manages its own Identities** – each organization needs to be equipped for Federation.
- ▶ Each organization that wants to offer a service (resource) that can be used by other organizations that are part of the community needs to **be equipped for Federation** (Service Provider function).
- ▶ We need to supply and manage services in as **fully-certified/compliant** an environment as is needed by the customer(s), as per our Cloud Security Policy

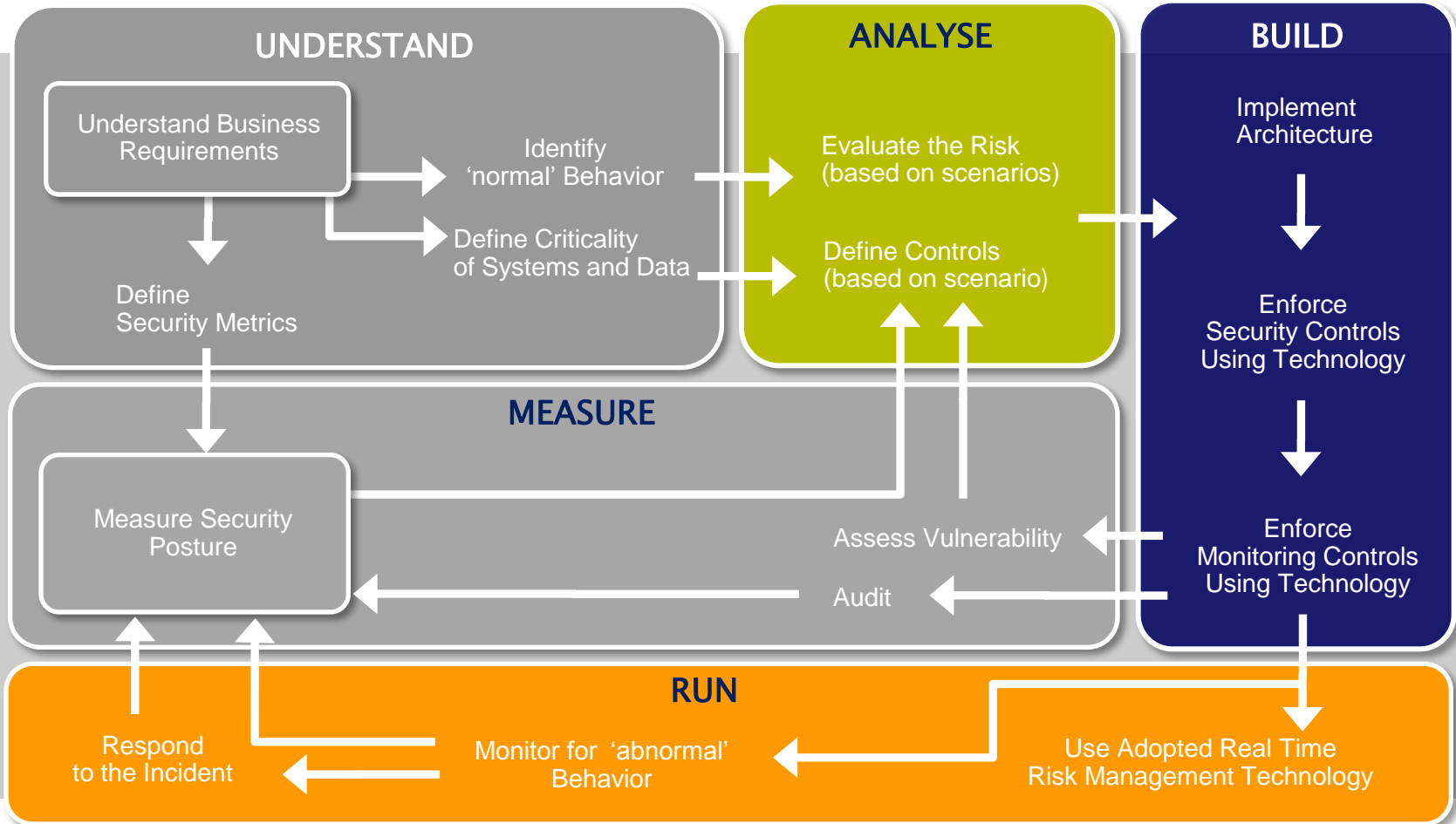
The success of Identity Federation strongly depend on the upfront preparation

- ▶ Knowledge of the business processes, security policies of participating organizations, and external compliancy rules that need to be fulfilled
- ▶ Adoption of general standards
- ▶ Identity assurance implementation as an integral part of the overall solution (needed for audit and compliancy purposes)

Atos High Performance Security

Based on keeping the Olympics secure, so far ...

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Did you Know... Atos

Develops, manages, and assures the security of the UK government gateway 24x7, delivering business outcomes that allow **17 million UK citizens** to access government services in confidence when they want and at reduced cost while increasingly accelerating collaboration through shared groups of interest driving improved government performance.

Did you Know... Atos

Manages and monitors the Digital Identities of over **130,000** Philips staff and over **4,000** Philips business partners worldwide, delivering business outcomes of some **1% cost reduction** on their operational IT spend and some **3% reduction** in their secure supply chain management costs.

Thank you

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