

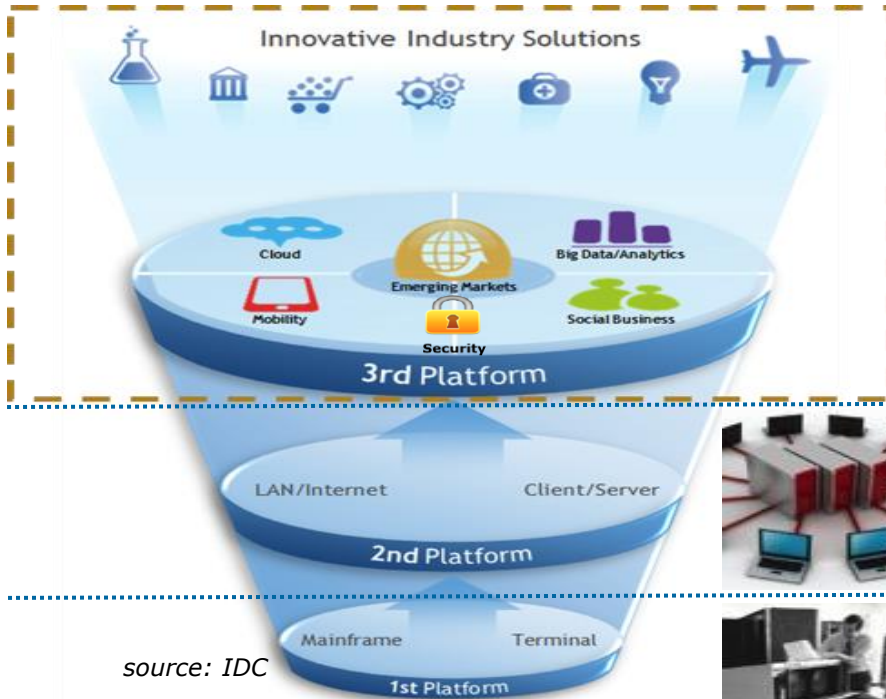
Atos

2015 Analyst Day

Delivering next steps to become
a Tier One player in the digital age

Charles Dehelly
SEVP Global Operations
& team

We have entered the 3rd age of IT: the digital era



source: IDC

3RD PLATFORM:

The cloud era and SMAC development

- Everything shared and exploit on time within the enterprise ecosystem (employees, suppliers, clients) to deliver value and performance
- Man/computer communication :Voice to access and exchange real time video, datas, text, transactions first step toward cognitive computing

2ND PLATFORM: Client/Server: Distributed computing PC, tablet & smartphone era

Man/computer communication: text in human language

Voice: Telephony as part of computer HW

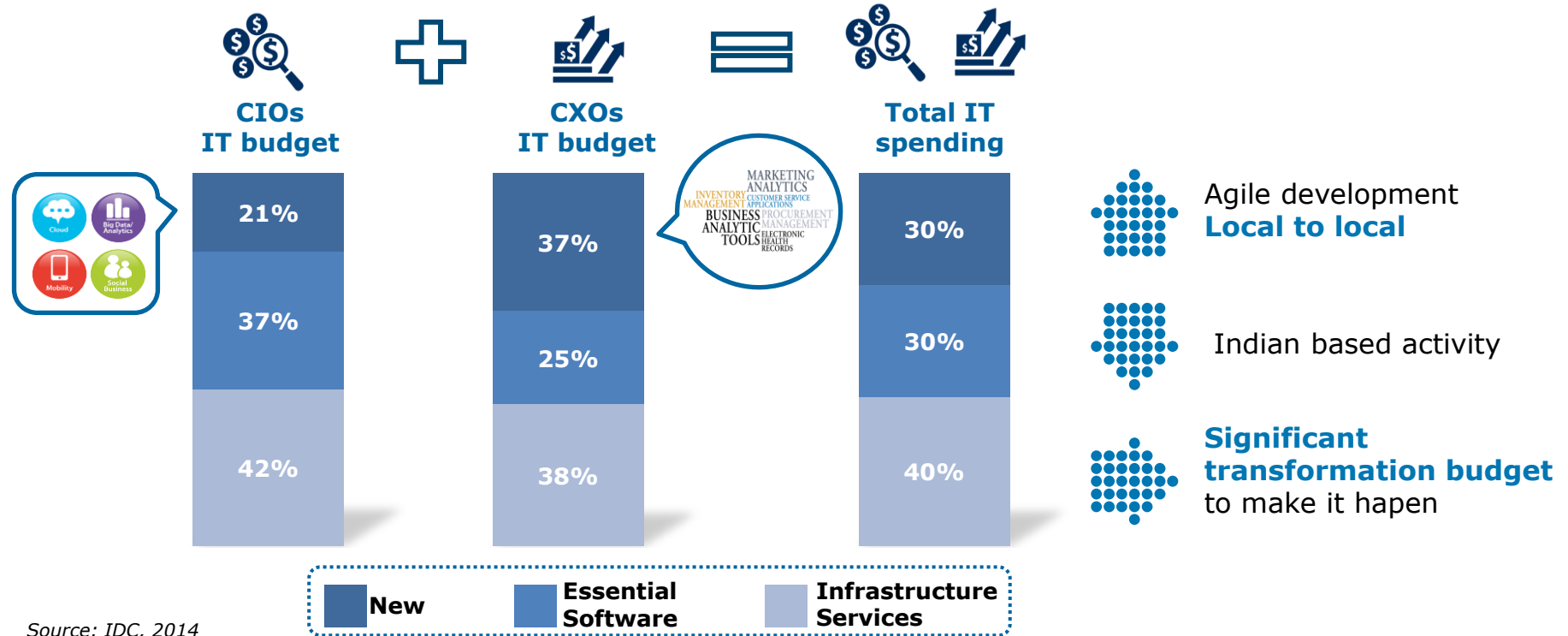
1ST PLATFORM: Mainframes . Everything centralized
dum terminals

Man / computer communication :machine language

Voice: Telephony stand alone



The digital era will result into a change in the mix of IT spend



Source: IDC, 2014

Consider all technology spending enterprise budgets

The digital era road map for growth:

Snow Ball effect

Business value and performance

Superior customer experience and operational efficiency
fully secured transactions and data protection

Social is about exchanges to innovate
Mobility is about communication
Aalytics is about competitive advantage
Cloud is about efficiency

Helping our client to make the digital shift

Innovation: agile development / outcome based pricing
Transformation: Share, share, share infrastructure, storage, DC ...a fully secured way
Industrialization: through automation

End to end capabilities
Global presence
Global transformation skills

Technologies

It's complex !

Client domain expertize

i.e: Manufacturing: Industry 4.0



PEOPLE



skills and obsession for customer satisfaction

- 1 | Managed Services**
Eric Grall, EVP Managed Services
- 2 | Consulting & Systems Integration**
Francis Meston, EVP Consulting & Systems integration
- 3 | IDA platform, leveraging full Atos capabilities**
Ursula Morgenstern, EVP Cloud & Enterprise Software
- 4 | Powering Big Data & Security**
Philippe Vannier, EVP Big Data & Security – Group CTO

Delivering next steps to become a Tier One player in the digital age

Managed Services

Eric Grall

Executive Vice President

Emergence of the 3rd platform

A new world of opportunities for Managed Services

What keeps CIOs awake at night



Enabling 3rd Platform App's and Big Data

Speed and agility to deliver

Cyber attacks

Cost savings

End-to-end management of Platform 1/2/3

Finding the right partners to "Transform/Cloudify"

... and keep the shop running



Atos Managed Services infrastructure opportunities



New infrastructure needs (Hana, Data Lakes, ...)

Cloud and software-defined technologies

Atos Application Resource Island (ARI) & Atos BDS

Automation at work

Integration & Orchestration across all platforms

Transformation-as-a-Service

Atos MS industrial power-base & quality of delivery



Benefits of Digital Transformation Applied to Managed Services



2015 – 2019 Managed Services Agenda

- **Deliver new customer experience:**
enabling 2nd and 3rd Platform coexistence, through orchestration and multi-hybrid management
- **Execute on Operational efficiencies:**
enabling the new digital workforce, Automation at work
- **Accelerate Innovation & Agility:**
Atos Digital DC
- **Create new revenue streams:**
Cloud, Mobility, Transformation-as-a-Service

**Orchestration
(Portal , Service Catalog , Reporting)**

**Service Management
(largely leveraged on ServiceNow)**

**Infrastructure
Legacy**

**Atos DC or
Customer
Premises**

**Software -
defined Digital
Data Center**

**Atos DC or
Customer
Premises**

**Enterprise
Private Cloud**

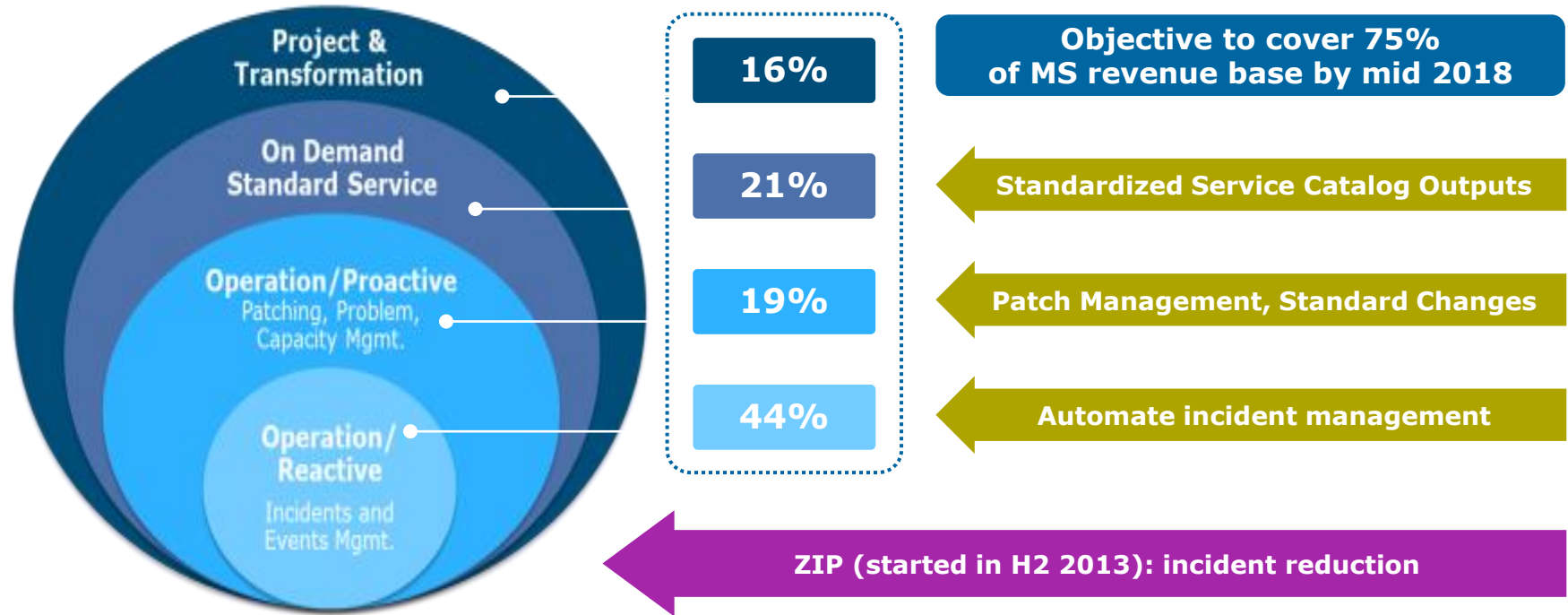
**Atos DC or
Customer
Premises**

**Public
Clouds**

- ▶ Orchestration & Consumer-level consumption model based on ServiceNow and Canopy with end-to-end management, from Legacy (Platform2) to Hybrid Clouds (Platform3)
- ▶ Enabling customers to leverage “best of breed” of infrastructure options dynamically, from legacy to hybrid clouds to software-defined options
- ▶ Intense collaboration with Atos strategic partners & ecosystem: EMC, VMware, Cisco, ...

Data Center Incremental Operation Efficiencies

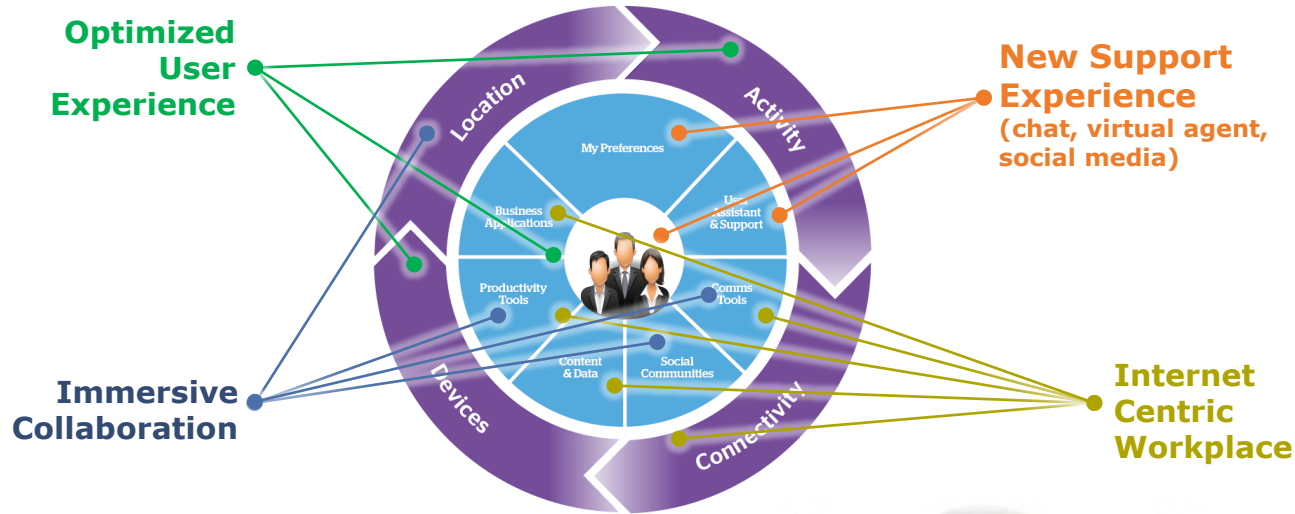
Automation deployment (robotics)



Benefit: price competitiveness and opportunity to increase Managed Services profitability

End User Services

Operational efficiencies and new consumer experience

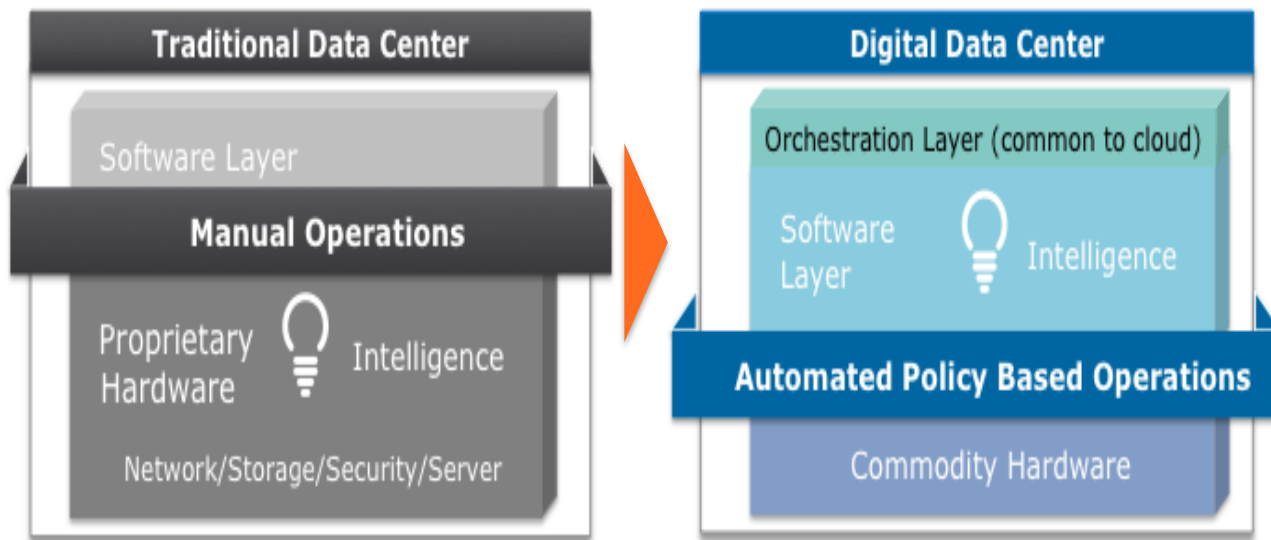


- ▶ Service Intelligence & Analytics using Big Data to increase pro-activity, quality and productivity
- ▶ Delivering Omni-channel support to clients
- ▶ Enabling secure policy-based 'mobile experience for the enterprise users'
- ▶ Intelligent self help, blending technology with experts (human and virtual)



Managed Services at the forefront of infrastructure innovation

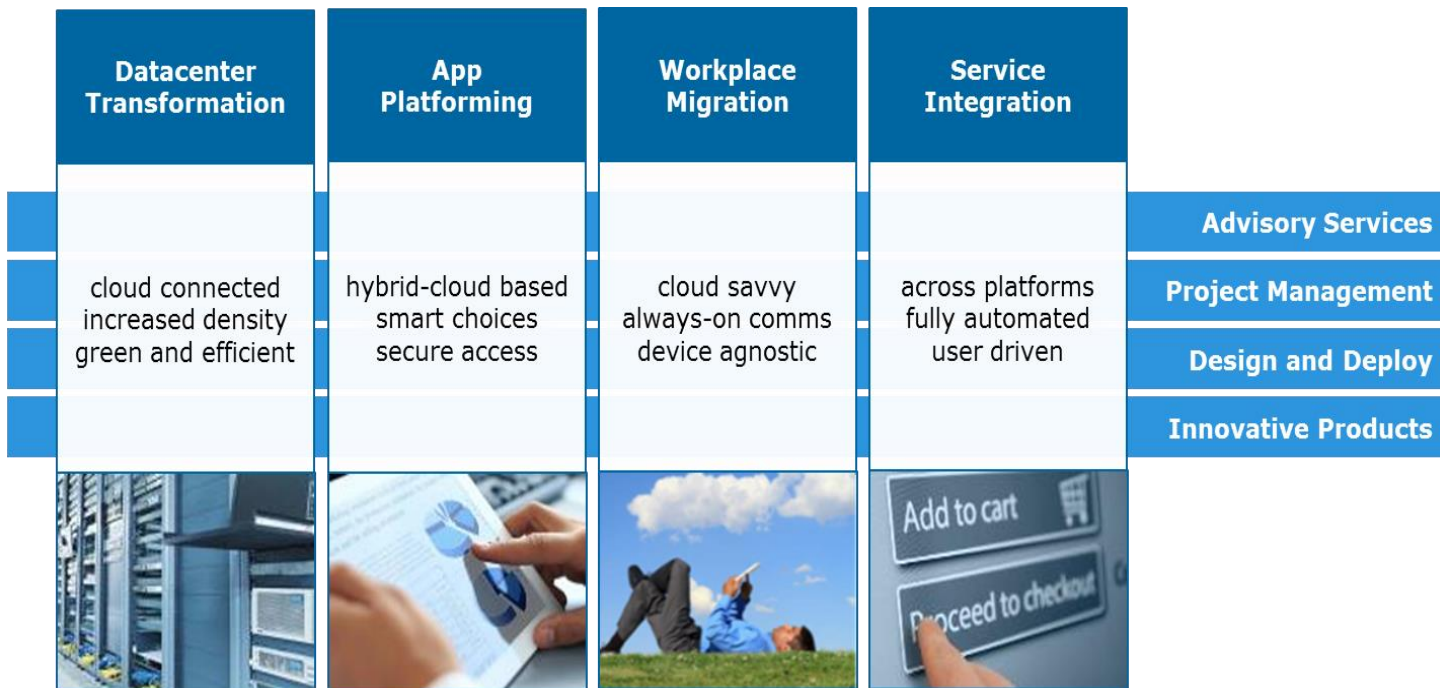
The software-defined data center from Atos: "Digital Data Center"



Atos is the first provider to market a complete suite of SDDC services with partners **vmware** **EMC**²

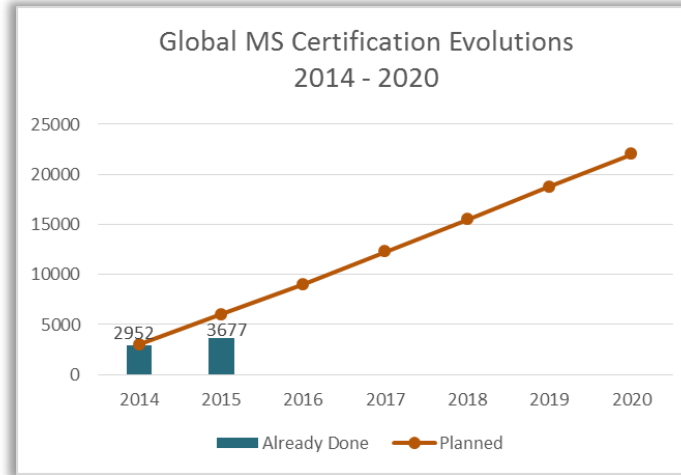
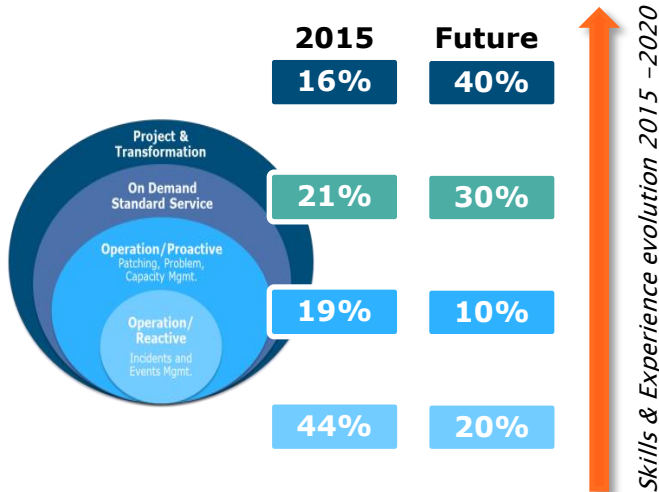


Creating new revenue streams Transformation-as-a-Service



- ▶ Transformation services is a 75b\$ worldwide market (+4% CAGR)
- ▶ New Managed Services Business Unit: "Technology Transformation Services"
- ▶ Leveraging ex-Bull infra services
- ▶ Capabilities in place to enable "cloudification"
- ▶ Opportunity to improve average MS profitability

Investment in training and externally recognized certification to support the Transformation-as-a-Service needs and growth.



Key certification areas

- ▶ Project management
- ▶ ITIL / SIAM
- ▶ ServiceNow
- ▶ Cloud & orchestration technologies
- ▶ (VMware, SDDC, Open Stack)
- ▶ Networking (CISCO, Juniper)
- ▶ Security (DLP, IAM, Firewalls)
- ▶ SAP HANA
- ▶ Automation stacks
- ▶ Storage (EMC)
- ▶ Unified Comms & Mobile (Skype for Business, CISCO)

Delivering next steps to become a Tier One player in the digital age

Consulting & Systems Integration: Ready for the 3rd platform

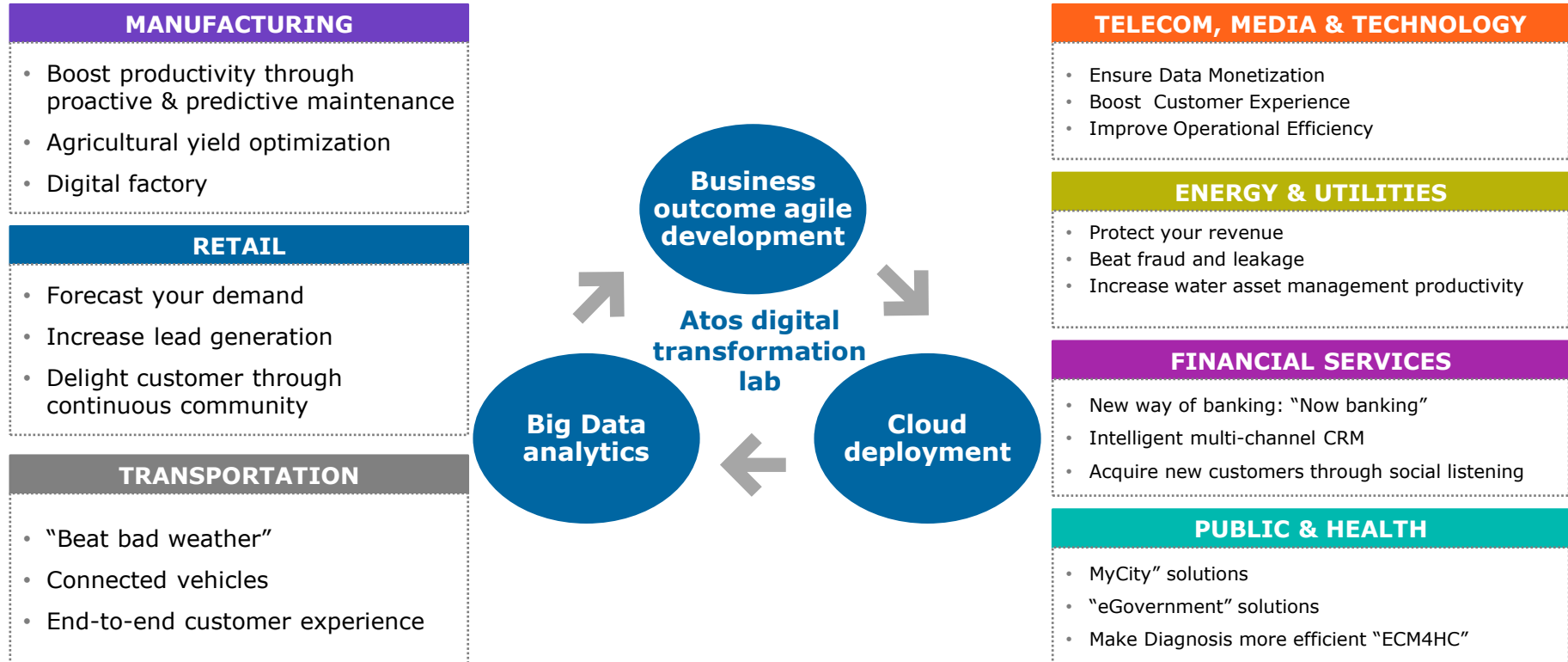
Francis Meston

Executive Vice President

Atos Consulting & Systems Integration ready to win in the digital transformation market



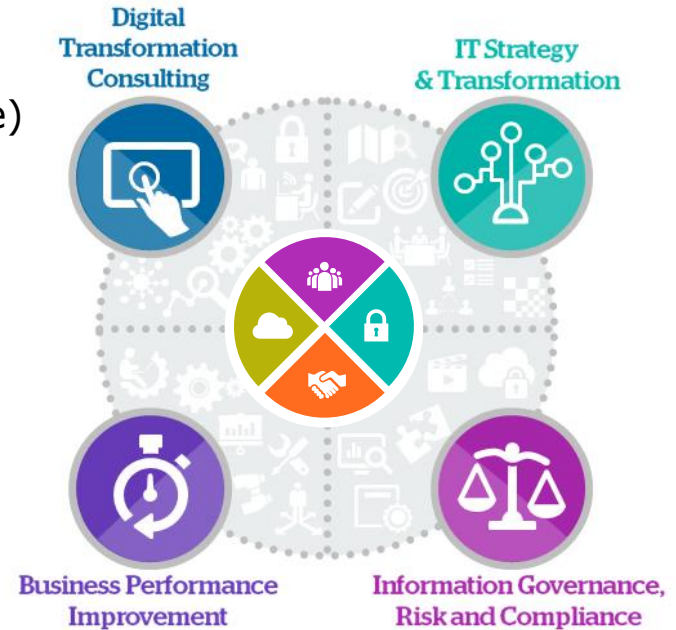
Atos Consulting & Systems Integration vertical digital transformation portfolio



“There is no favorable wind for someone who does not know where he is heading”

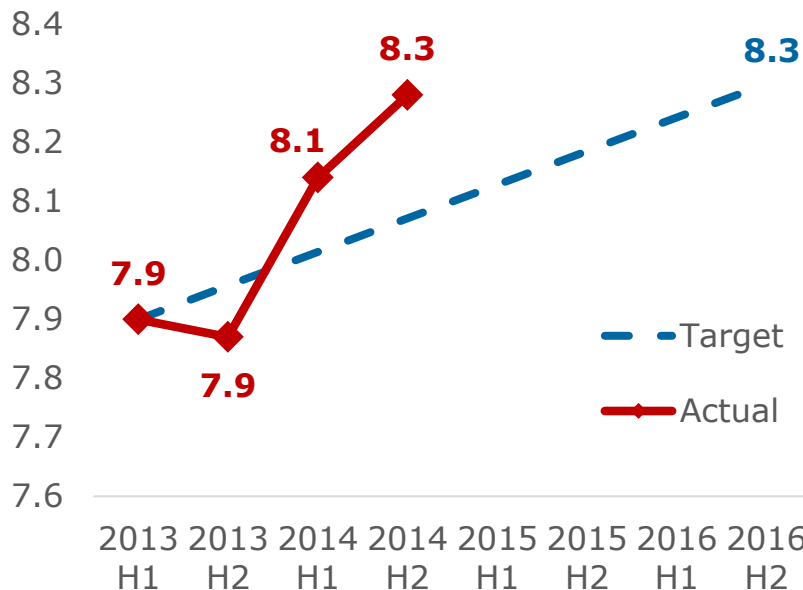
- ▶ **1,600** management consultants
- ▶ Opening of Atos Consulting in the **US** and **IMEA**
- ▶ **POC centers** in Hungary (Budapest) and India (Pune)
- ▶ **Repeatable digital transformation engagement process**

Customer references

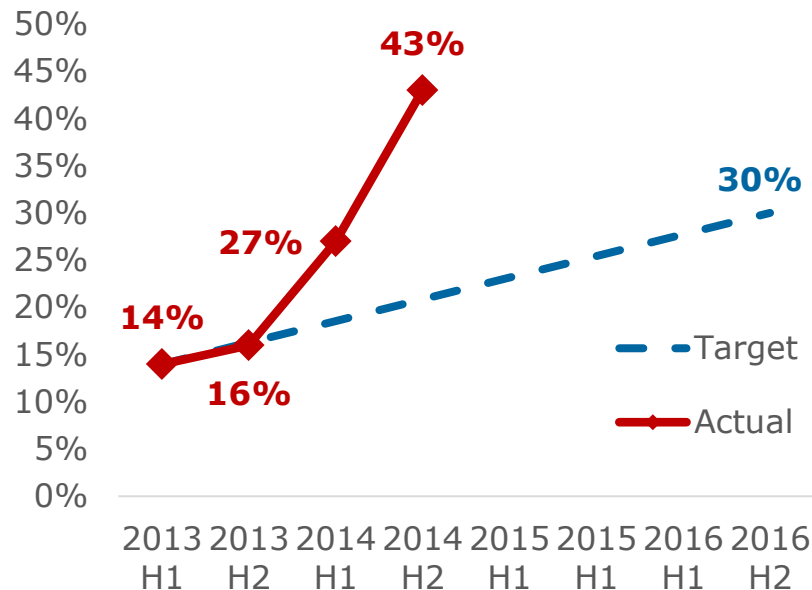


Atos Consulting & Systems Integration: strong customer satisfaction to build on

OCS Score

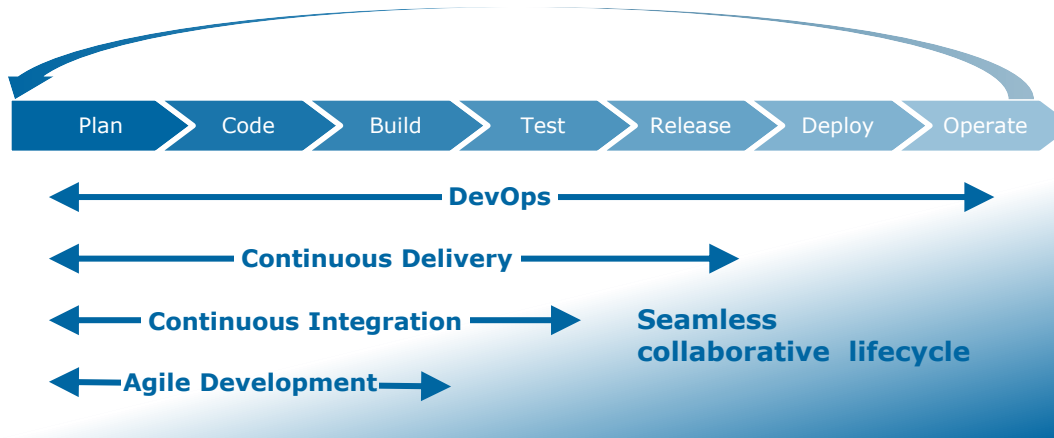


NPS



New innovative Apps paradigm for 3rd platform: DevOps

- ▶ Customer at the center of the Application lifecycle
- ▶ Journey towards the "Born In the Cloud" era
- ▶ Security everywhere



Benefits

- ▶ Improved quality of code: 50% fewer failures
- ▶ Improved quality of software deployments: 12 times faster restore
- ▶ More frequent software releases: 30 times more than "non-DevOps" organizations
- ▶ Productivity increases up to 40%

Capabilities

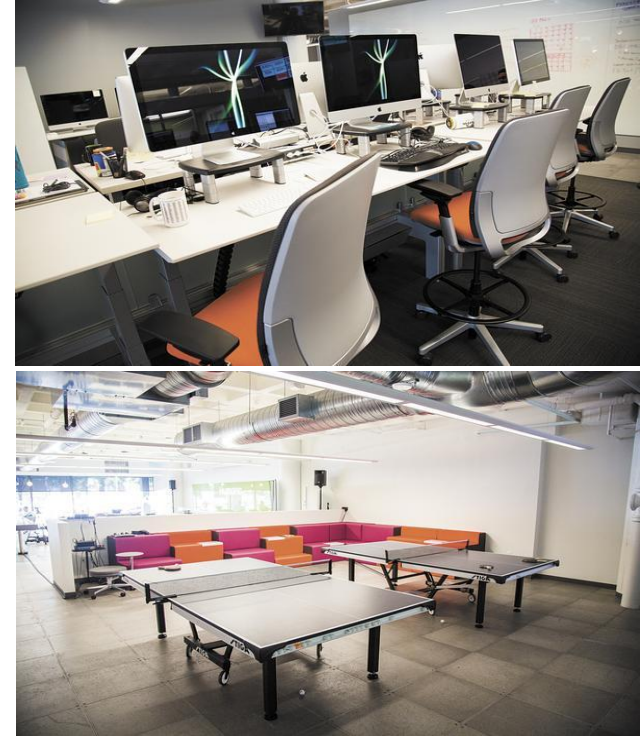
- ▶ 5,000 engineers trained on agile/DevOps
- ▶ Agile development center in all regions and GDCs
- ▶ Investment in tools: CAST, Rationale

Partnerships



Agile Software Innovation Services to Transform A Key Ingredient for Digital Transformation Success

- ▶ Digital Transformation is about innovation and redefinition of business models
- ▶ New business models and customer services are based on innovative applications
- ▶ ASIST Labs help clients to jointly define and develop innovative solutions to support those business opportunities
- ▶ With ASIST, Atos built an innovation environment which scales to the requirements of our clients and accelerates their journeys
- ▶ ASIST is a key enabler for larger Digital Transformation activities



Pictures: Humana Digital Experience Center
<http://www.bizjournals.com/louisville/print-edition/2014/10/10/humana-opens-digital-experience-center.html>

Mobility

2,000 FTE Practice

- Mobile applications development, test and maintenance
- Mobile service and maintenance
- Mobile decision support

PLM & MES

1,000 FTE Practice

- Supplier Connect
- After Sales Lifecycle Management
- PLM for Manufacturing and Process Industry

Enterprise Integration

2,000 FTE Practice

- Interactive process portals
- Business process management (BPM)
- Service oriented architecture (SOA)

Information Mgmt & Analytics

3,500 FTE Practice

- Industrial Data Analytics
- Proactive and predictive systems
- Use case by industry

Intelligent systems

2,000 FTE Practice

- Product related (embedded) software & telematics
- Critical systems (command & control)
- Mechanical engineering

Cloud & Social

2,000 FTE Practice

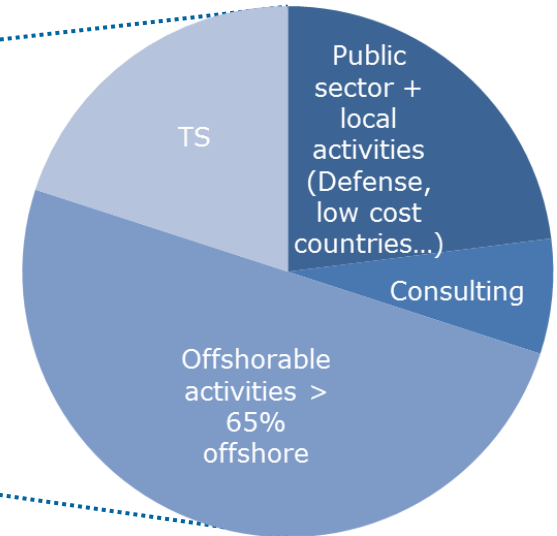
- Cloud strategy & architecture
- Social collaboration
- Zero Email

Today

**40%
offshore
in Systems
Integration**

End of 2016

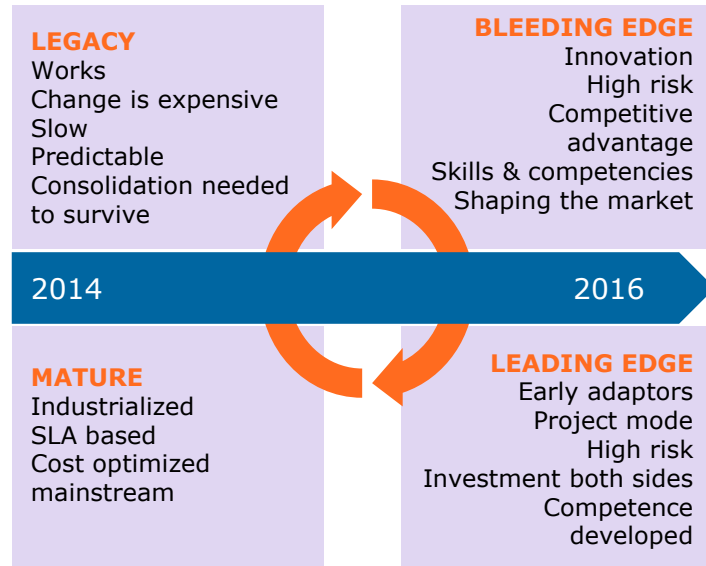
**> 50%
employees
offshore in
Systems
Integration**



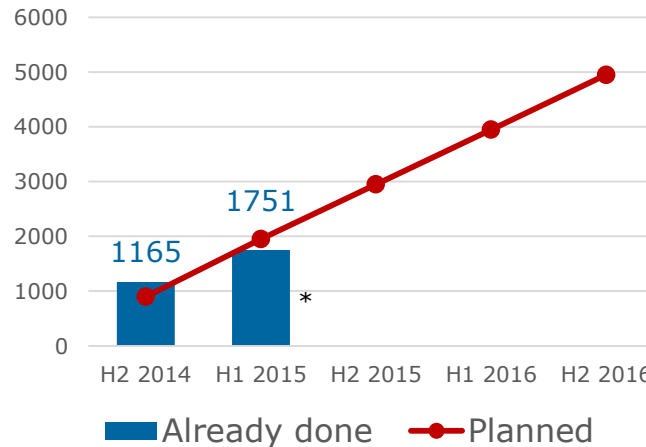
Creating the workforce of the future

We started an intensive reskilling program

- Investment in training and externally recognized certification to support the transformation towards the 3rd platform



Global C&SI external certifications evolution



Key certification areas

Agile / SCRUM
DevOps
ServiceNow
S4HANA
HANA Enterprise Platform
Pega
Salesforce
Pivotal
Typesafe
Cloud Foundry
Private & Hybrid cloud architecture
Red Hat
BI / Data Analytics
PLM / MES
Security
Prince2 / PMI
Functional & industry skills

* Target defined as end of July 2015

- 1** Major references from **global accounts**:
Nokia, Siemens, Renault, P&G,...
- 2** **Cross-selling program** on Managed Services
- 3** **Growth in the US** by leveraging ITO customer base
- 4** **Global delivery platforms** covering all continents
- 5** **Digital transformation services foundation**
to win in the market place
- 6** **Workforce transformation** well on track

Delivering next steps to become a Tier One player in the digital age

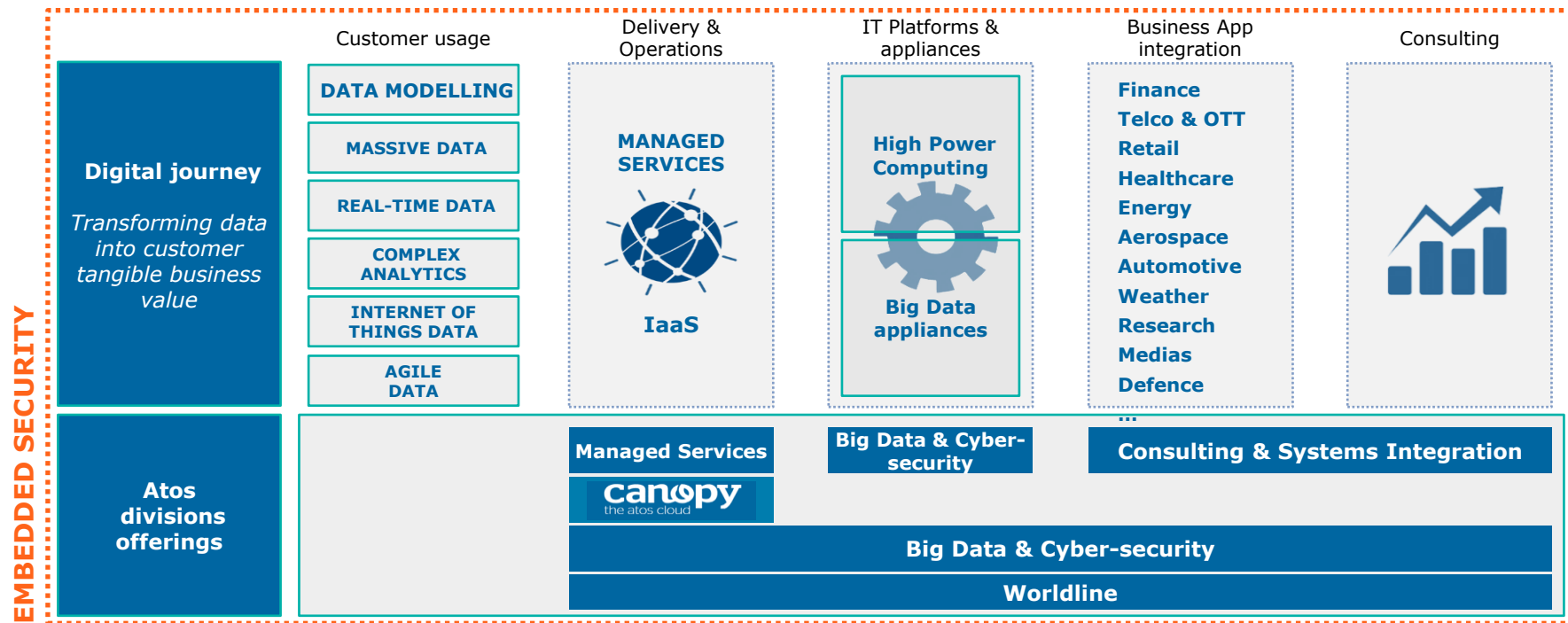
*Industrial Data Analytics Leveraging
the full range of Atos capabilities*

Ursula Morgenstern

EVP Cloud & Enterprise Software

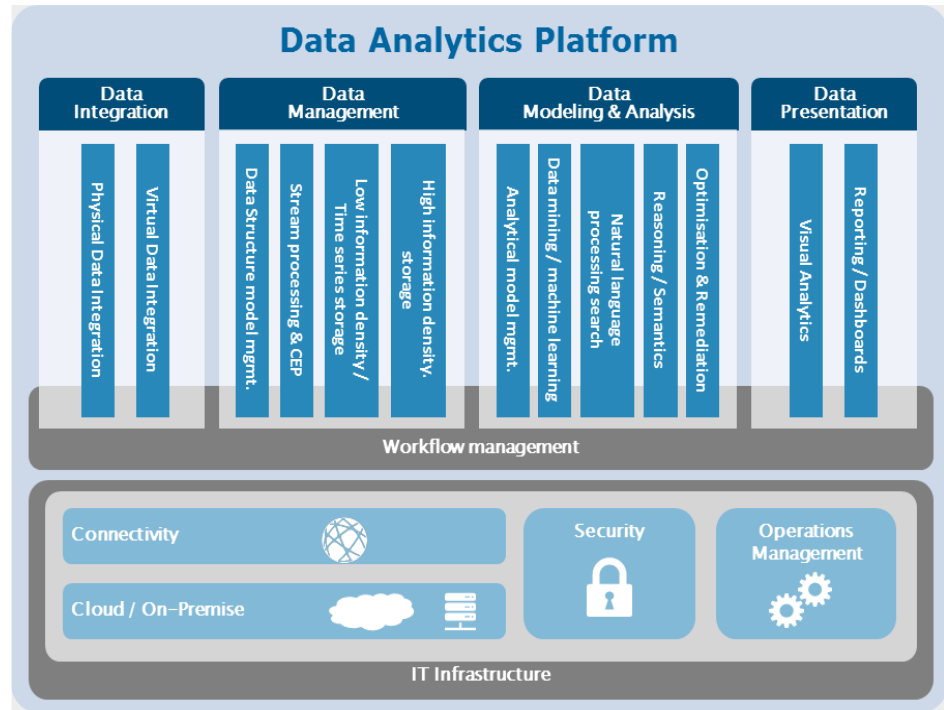
Atos End-to-End Capabilities for enabling the Digital Transformation of our Clients with Business Data and Analytics solutions

Infrastructure stands as a primary requisite to support customers' business digitization on an end-to-end basis

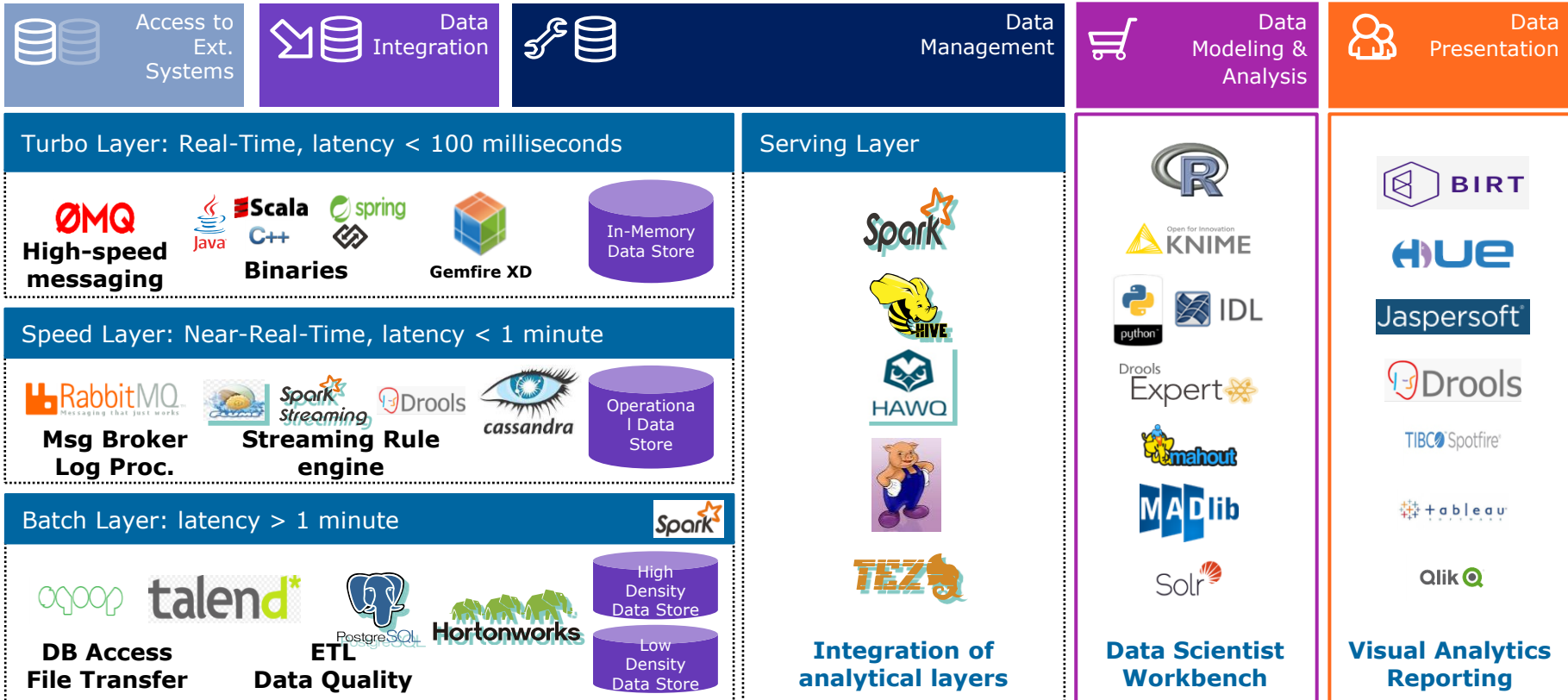


Industrial Data Analytics (IDA): An ambitious co-Innovation program leveraging the full set of Atos capabilities

- ▶ Joint investment with Atos Industrial partner
- ▶ Leveraging previous investments in the area of Internet of Things and Big Data
- ▶ One common Data Analytics platform used by several use-cases in different industries
- ▶ Tailored services and different business applications driving tier one market position within the €36 billion market ecosystem



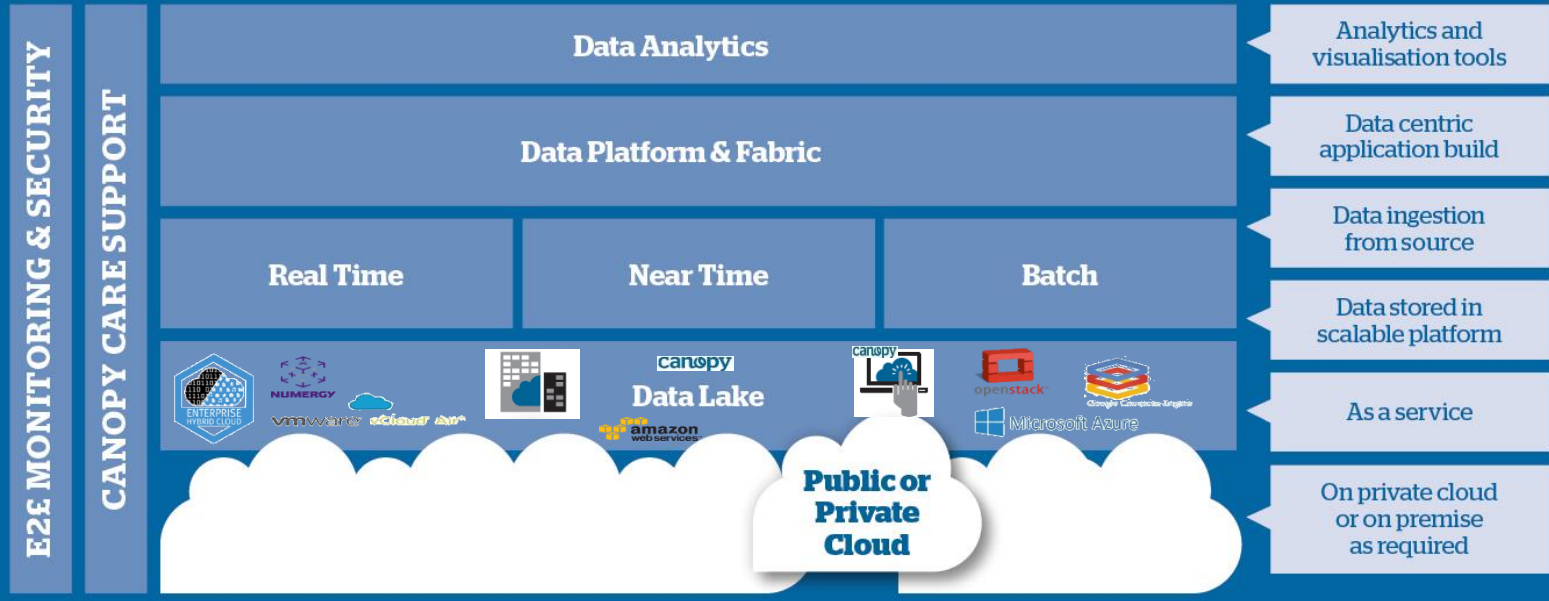
IDA Architecture – bringing together the skills of the organization and our partners



A common data analytic platforms ... supporting a wide range of technologies, industries and client needs

Canopy Business Data and Analytics Platform

Data Scientists / Agile Developers



The Business Analytics platform has proven sector specific used cases

Telco



Manufacturing



Power Generation



Energy Transparency



Retail



Payment



Smart-Grid



Earth Observation



Water



Healthcare



Railways



Oil & Gas



SIEMENS

JOE KAESER

President and CEO of **Siemens** AG

*"This **partnership** forms one of the largest strategic relationships ever between a **global engineering company** and a **global IT provider**. The value of our combined strength enables our **customers to take full advantage** of the next wave of industrial IT in order to maintain competitiveness and deliver outstanding services."*

NED MAY

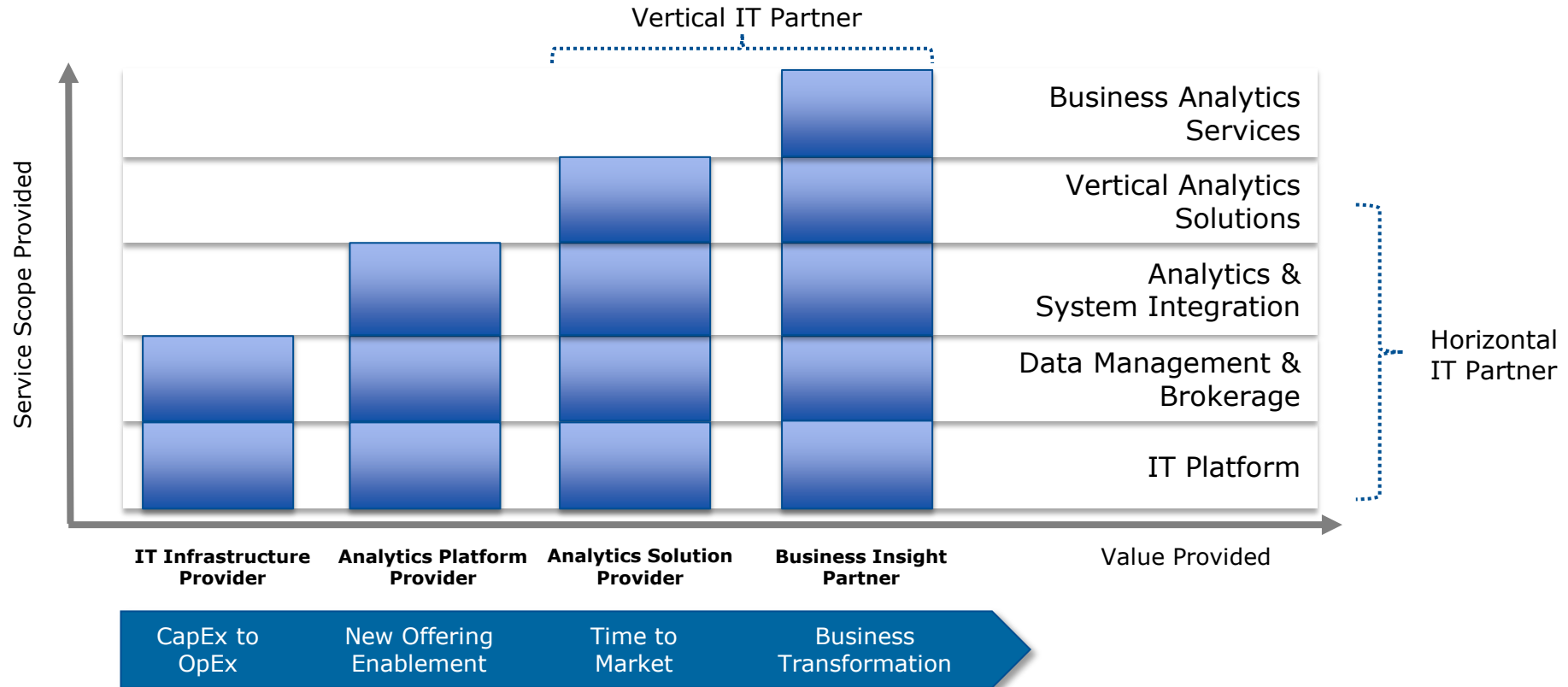
Managing Director for Digital at **HfS Research**



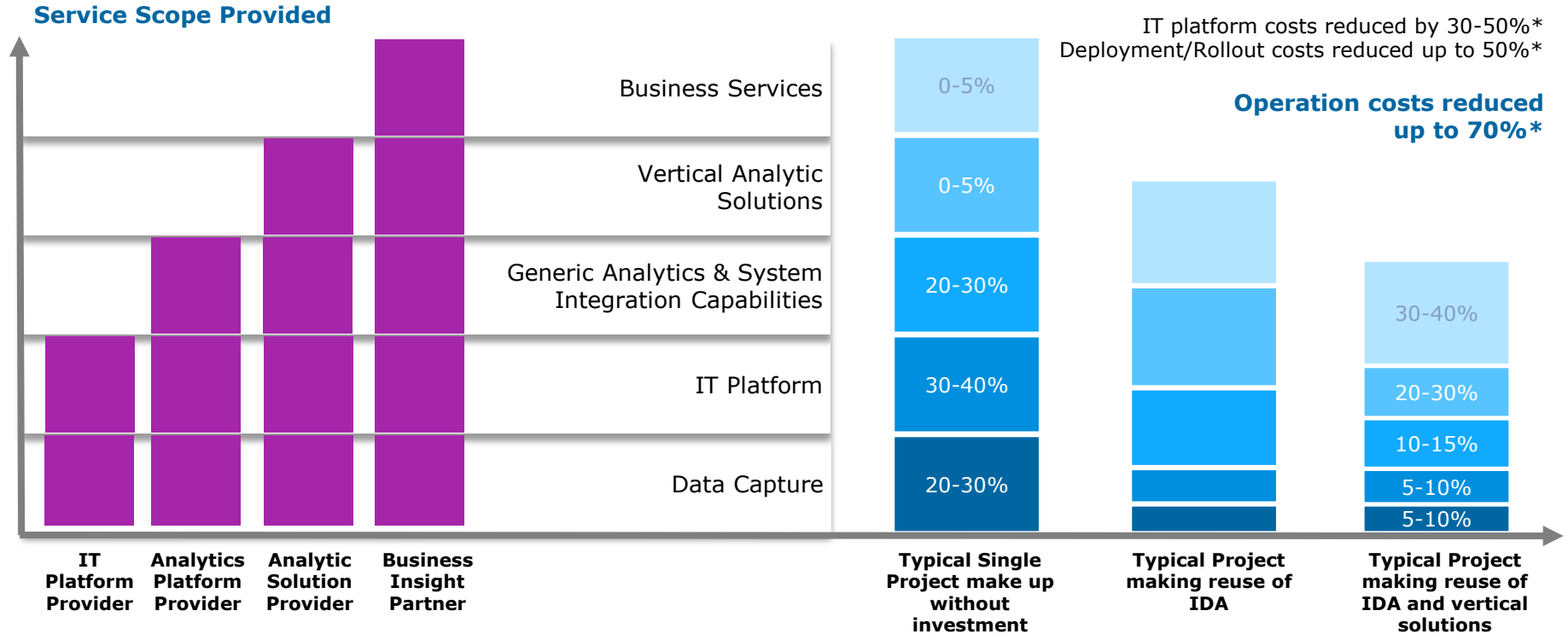
*"With its **Industrial Data Analytics** platform developed with **Siemens**, **Atos** demonstrates it has a clear grasp on the needs of global enterprises to capture the opportunities created by new **digital technologies** such as the Internet-of-Things. To keep pace with the rapidly changing operating environments, enterprises need to move quickly and with lower costs so they can afford to accomplish more."*

*"**IDA** based solutions bring together the technology expertise of **Atos** with the industry knowledge of **Siemens** to create joint solutions that show us what the IT services market is becoming and how enterprises will benefit in the coming years."*

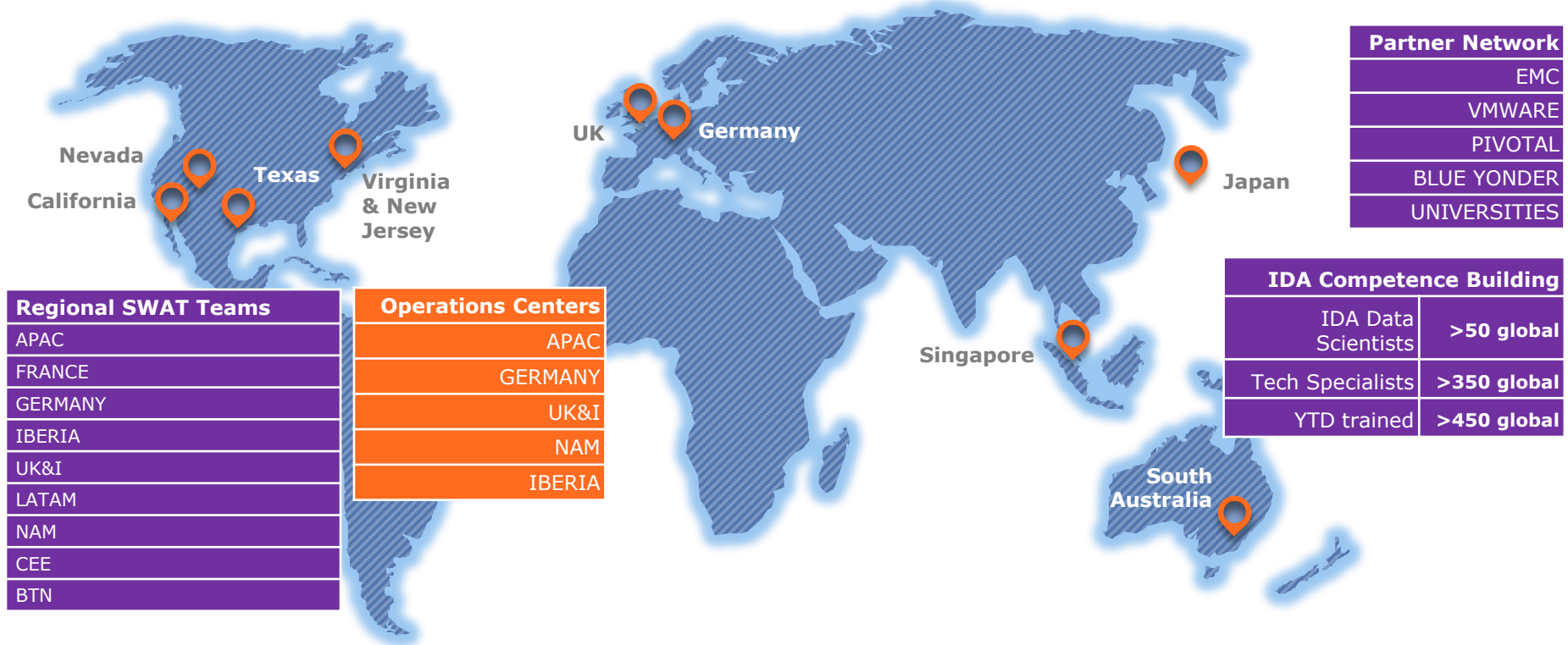
Atos can support all of a client's Business & Technology Partner needs



A reusable data analytics platform to drive costs down and improve Time-to-Market

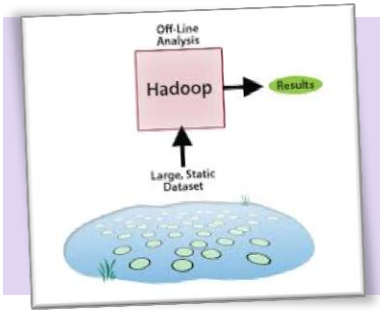


The Business Analytics Platform is deployed across the world



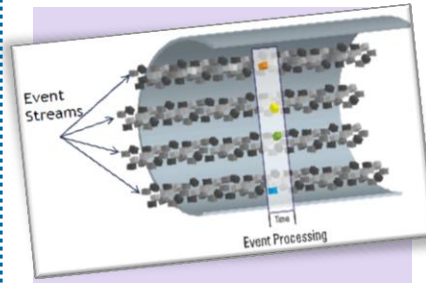
The Future of IDA: Atos positioning toward Real-time streams processing

Big Data



Large amount of data at rest, often generated by human beings: voice, video, posts on Social Networks, typically stored in a data lake, and processed in batch

Fast Data



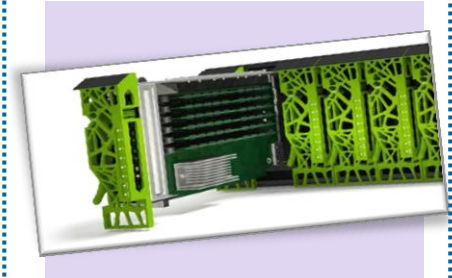
Data in motion, in the Internet of Things often generated by thousands or millions of (industrial) devices, ingested and processed as a stream, and later stored in an operational database.

Complex Event Processing



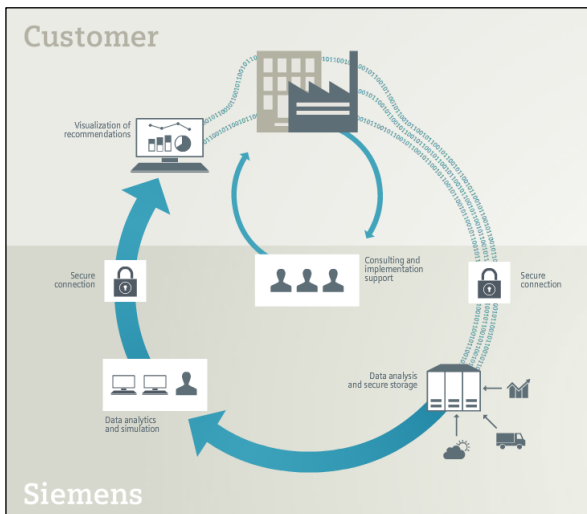
- Scalable Event Driven Architecture: high throughput, low latency
- M2M - Cloud Messaging

Bull-Atos bullion S




- the world's most powerful x86 server – scale-up ready for CPU (40 to 240 cores) and memory (1 to 24 Terabytes)

Lighthouse customer for Canopy BDaAP



- ▶ Siemens Industry Value Services (SIVS) launched a set of new efficiency services at Hannover in April 2014
- ▶ This business is expected to grow very fast
- ▶ SIVS now called Siemens Digital Factory and Atos Co-Innovation to provide a Canopy provided Cloud-based Analytics Platform and integrated agile business application development environment

PoC/Pov	Customer	Sign-off
SALES FORECASTING	3 Retail Chains 	09/14
LEAKAGES PREDICTION	E&U 	10/14
INFORMATION AS-A-SERVICE	Aerospace 	12/14
FAILURE EVENT DISCOVERY	Oil & Gas 	12/14
NETWORK OPTIMISATION	Telco 	01/15

<http://www.industry.siemens.com/services/global/en/pds/Pages/index.aspx>

Trusted Partner for your Digital Journey



Delivering next steps to become a Tier One player in the digital age

Powering Big Data & Security

Philippe Vannier

EVP Big Data & Security – Group CTO

Transform data in business value



SMART
MACHINES



DYNAMIC
PRICING



CUSTOMER
360°



OPTIMIZATION



MAINTENANCE



FRAUD
DETECTION



PREDICTIVE
OFFERS



RISK
MONITORING

**Data analysis and
discovery**
(Find a needle in a
haystack)

In-memory platforms
(fraud/risk analysis,
real-time)

Event Processing
(automate answers)

Scalability

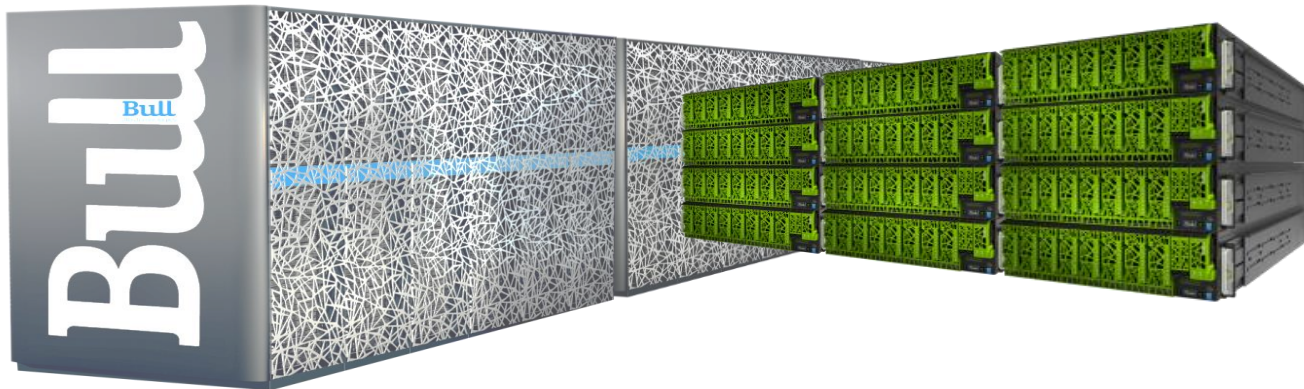
Scale from **48 to 24,000GB** of memory
The only server scaling **from 2 CPUs to 16 CPUs**

Performance & Flexibility

Large ecosystem for pre-integrated platforms x86
Top-notch performance since 2011 among x86 servers



bullion is bull DNA, issued from legacy servers & world's largest supercomputers



Reliability
Availability
Serviceability

+

Performance
High Density
Energy Consumption

+

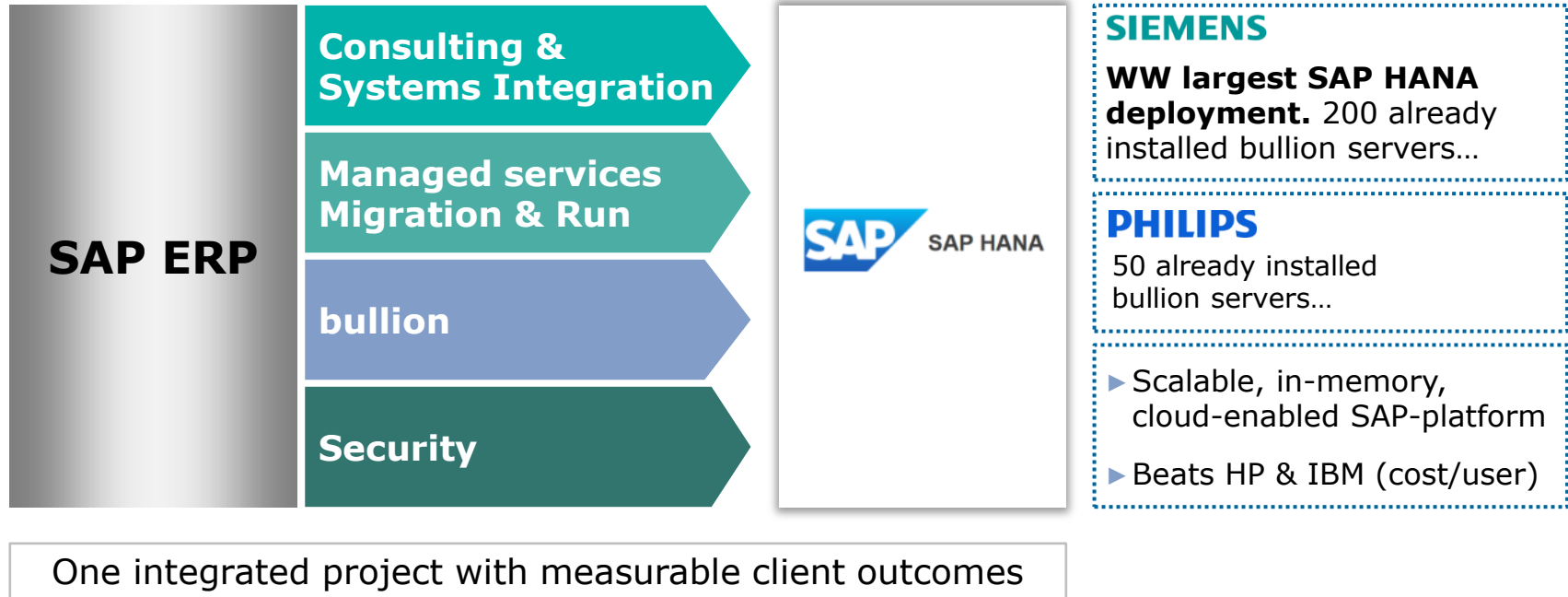
Atos sales power

=

bullion shipt. x 2.3
+ CS&I services
+ Managed services

Increase added value of Atos offering

Example: SAP ERP to SAP HANA migration

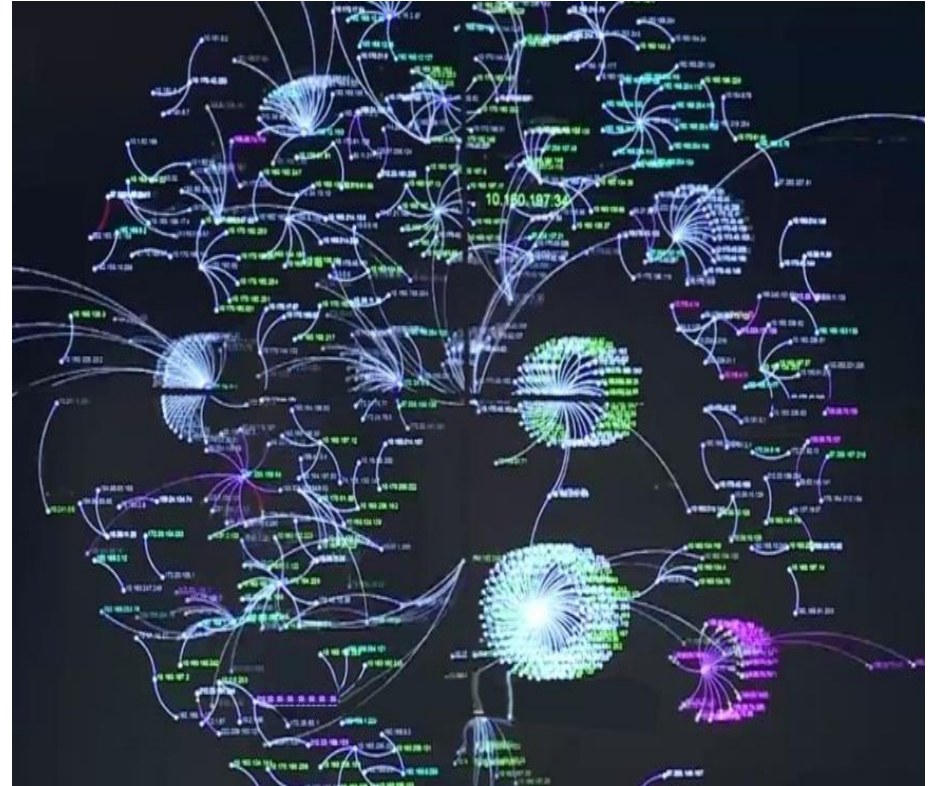


Entering the era of massive security breaches



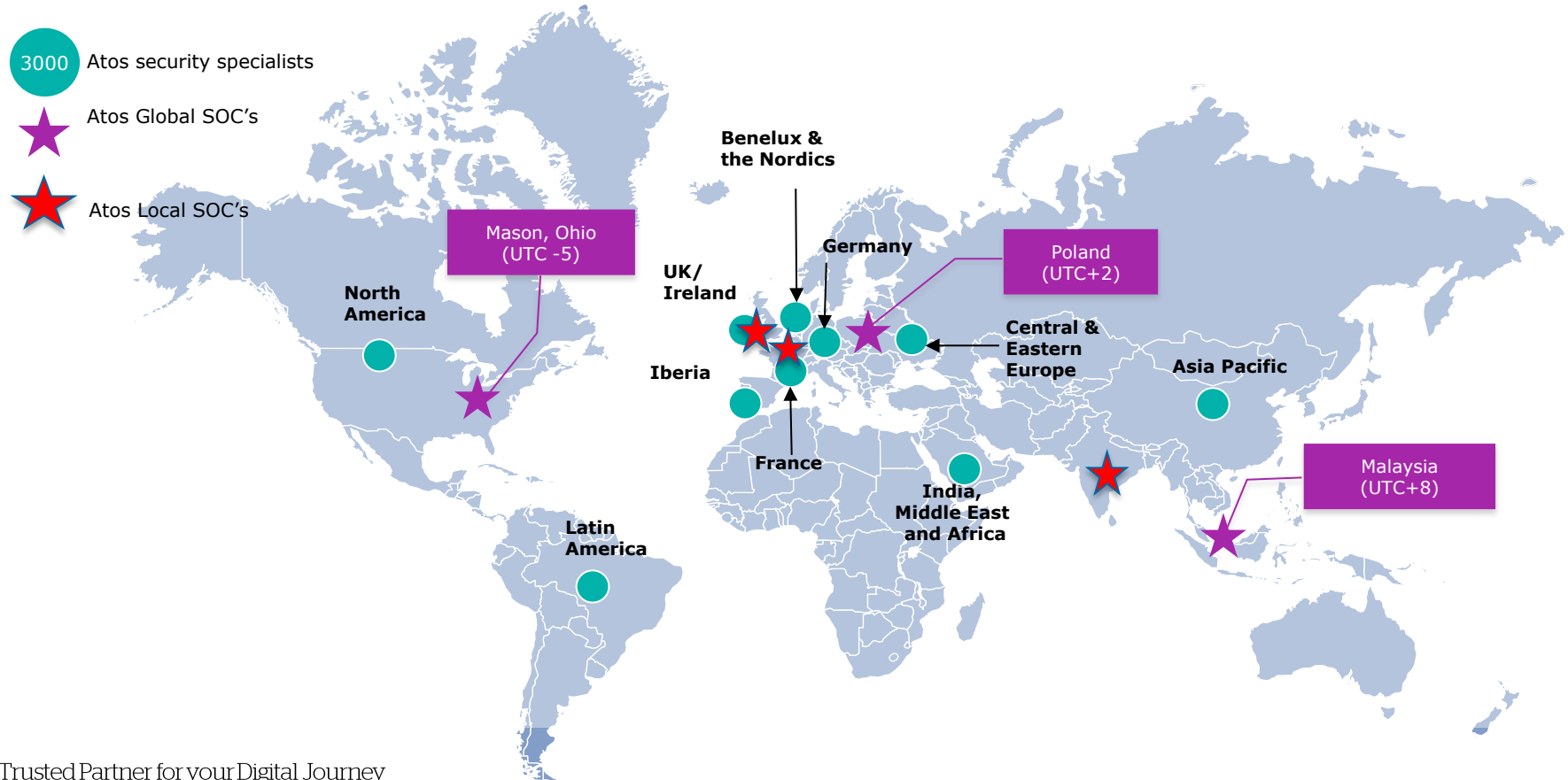
New risks, customer trust & regulations place cyber security within CEO top 3 concerns

- ▶ Security is moving away from a focus on prevention to a focus on **real time detection & response** (75% security budget in 2020, up from <10% in 2012)
 - As a result, **Managed Cyber Security Services** grow rapidly
 - and **Big Data analytics is becoming the new battleground for security**, at the heart of next generation security platforms.





Atos: a trusted Security Service Provider 24*7*365



The most advanced European cyber security portfolio, delivered by over 3000 specialists



Cyber Security Consulting & Integration

Consulting & Audit Services, infrastructure integration, IAM integration



Managed Cyber Security Services

Cyber Threat Management (AHPS, CSIRT), Platform Protection, Perimeter Protection, Managed Information Protection, Managed IAM



Cyber Security Products

Identity & Access Management

- Evidian IAM suite, DirX IAM suite

Transaction Security

- MetaPKI, MetaSign, Crypt2Pay and Crypt2Protect HSM, CardOS Smart Cards

Secure mobile terminals: Hoox

Trusted Infrastructures (incl. cryptography)

- TrustWay VPN, Proteccio HSM, globull, dedicated servers & appliances

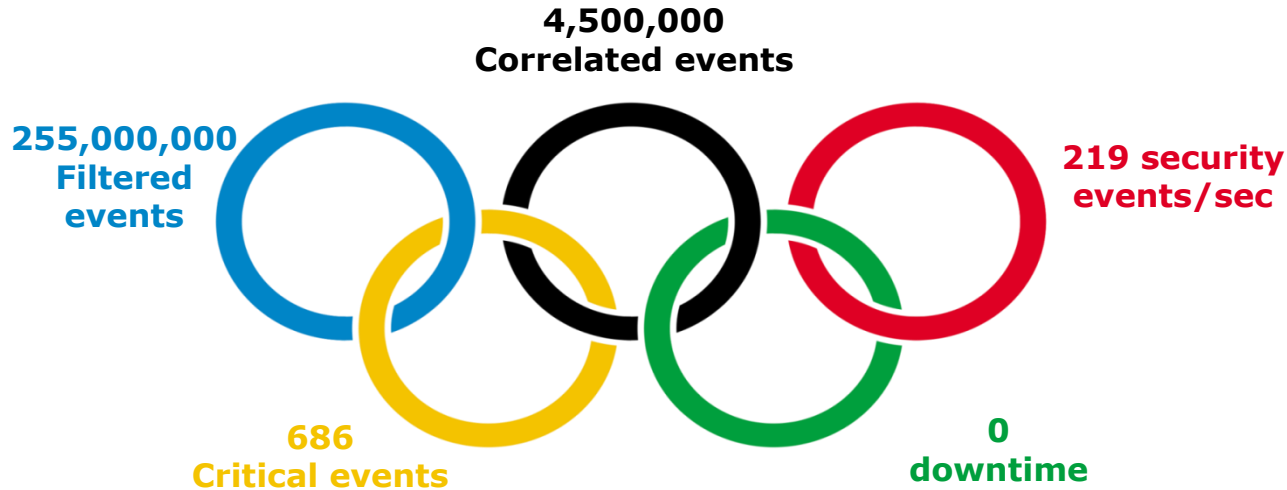


Cyber Security Maintenance & Support

Standard / customized maintenance & support services for Cyber Security Products

Atos BDS: managing the Olympic SOC.

High risks, zero breaches



- ▶ Ensure complete availability, integrity and confidentiality of process and data for the highest visible worldwide event
- ▶ A trusted event, free from cybercrime, hacktivist or cyberterrorist attacks
- ▶ 0 security incidents impact on live competition

3rd platform: from security to business trust

The Context

+30%

cyber-security attacks per year

1 single failure

may cost thousands of lives

\$1000 Bn

of security failure costs per year

Our unique value proposition

HELP CUSTOMERS PREPARE FOR THE UNKNOWN

- Balance business efficiency, protection & compliance
- Ensure end-to-end and sovereign security for critical activities
- Detect and mitigate threats 24x7, with real time responsiveness

The Challenge

**Make trust & compliance
a business lever**

- RISK PREVENTION
- PROTECTION OF BUSINESS & HUMAN LIVES
- COMPLIANCE
- BUSINESS TRUST

EVIDIAN



DirX



**Hoox: First fully
secure smartphone
in the world**

Atos

2015 Analyst Day