

# Atos Research & Innovation



4<sup>th</sup> Japan-EU Symposium. Security Session.  
Tokyo, January 19<sup>th</sup> 2012.

Your business technologists. **Powering progress**

**Atos**

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# **ARI**

## **Atos Research & Innovation**

How can ARI bring Security to your business?

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30/01/2012

# Introducing Atos

30/01/2012  
By Elsa Prieto  
Public

- ▶ International information technology services company.
- ▶ Worldwide Information Technology Partner for the Olympic Games (since 2002)
- ▶ Annual revenues of € 8,7 billion (pro-forma 2010).
- ▶ Over 78,500 business technologists worldwide in 42 countries.
- ▶ Worldwide headquarters in Bezons (Paris), France.
- ▶ Established on July 1st 2011, following the successful integration of Atos Origin and Siemens IT Solutions and Services and the establishment of a global strategic partnership with Siemens AG.



Number of employees by country  
(12/2010 pro-forma figures)

## From critical IT **to** business support



Consulting &  
Technology  
Services

Transforming business through innovation leveraging Information Technologies.

Delivering seamless business systems

Systems  
Integration

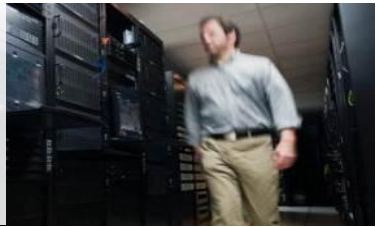


Transactional  
Services

Advancing business strategy through innovative processing solutions

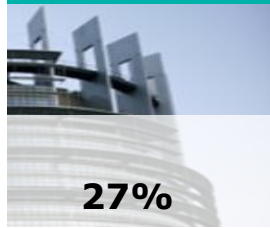
Transforming IT infrastructure and business operations revenues

Managed  
Services



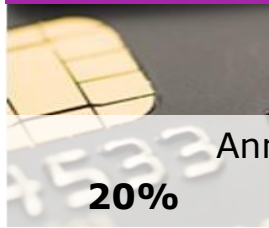
## From industry expertise **to** business value

Public Sector,  
Healthcare  
& Transport



27%

Financial  
Services



20%

Manufacturing,  
Retail &  
Services



33%

Energy &  
Utilities



7%

Telecom,  
Media &  
Technology



13%

Annual revenues of **€ 8.7 billion**

*Research* »

*Innovation* »

**ARI**

*Consulting* »

**Atos worldwide reference  
point in  
Research, Technological  
Development & Innovation**

- ▶ Atos R&D hub (Global Innovation, Business Development and Strategy Iberia).
- ▶ Involved in projects that combine advanced technological developments with commercial exploitation.
- ▶ **135 R&D&I projects** at the end of 2010.
- ▶ ARI is organized in 15 sectors within Atos established Markets.

**Security:** Homeland Security & Defence Sector (HSD) - Public Market.

- Protection of citizens, goods & infrastructure.
- **Trustworthy Services & Systems**
- Secure Identity Technologies
- Economics of security
- Forward-looking scenarios

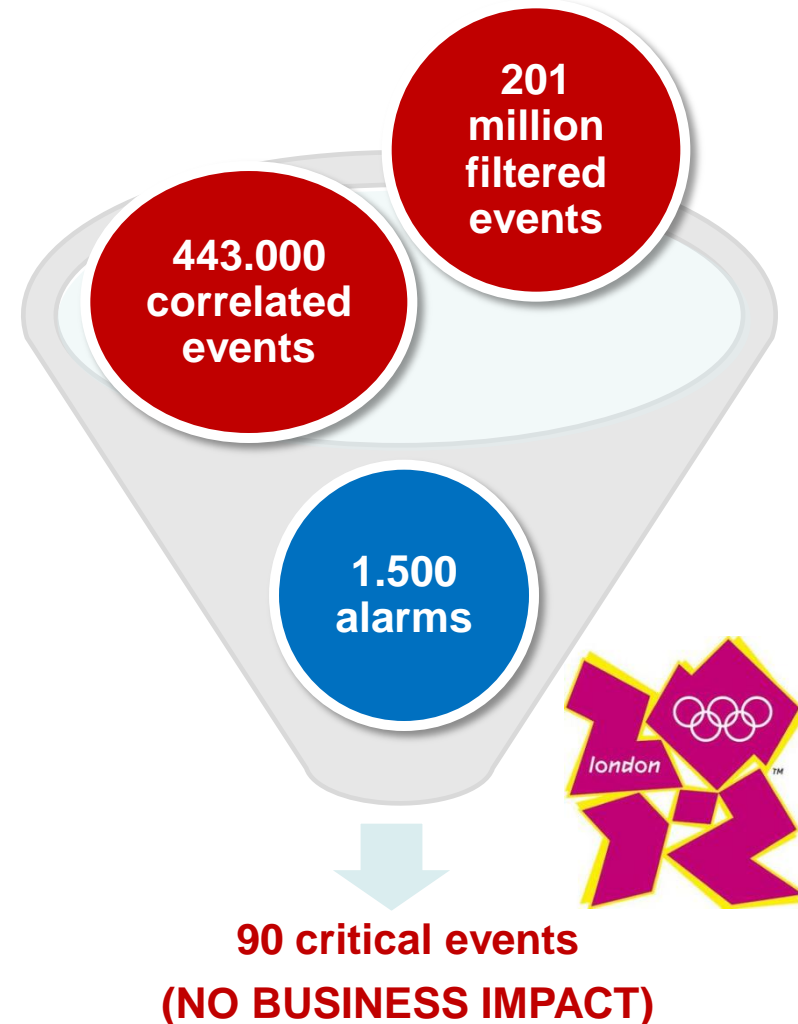
# Atos High Performance Security (AHPS)

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## Security Monitoring

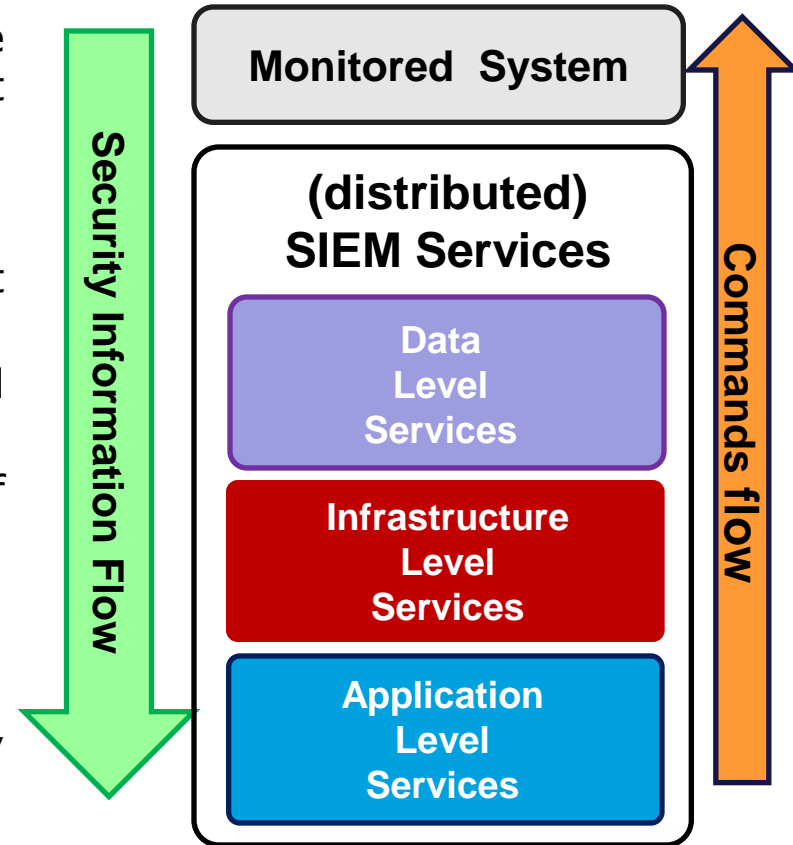
- ▶ From the Olympic Games to Service
- ▶ Real Time Security Risk Management
  - Implement a Security Information and Event Management (SIEM) solution.
  - Perform Intelligent Event Processing
  - Offered as a cloud service.
- ▶ Security Challenges and Limitations
  - Need for real-time solutions.
  - Increasing number of security event types.
  - Large amount of generated events.
  - Combined Logical (IT) with Physical Security.
  - Focus on the service level (business process).
  - Resilience in case of outage/disruption.



## Security Monitoring > ARI Projects

Objective: to achieve a **significant advance** in the area of Security Information and Event Management (SIEM)

- ▶ Requirements:
  - **High interoperability:** heterogeneity of input sources.
  - **High scalability:** handle and processing of load peaks of events.
  - **High elasticity:** resources **coupling the flow** of events.
- ▶ Features/Properties:
  - **Multi-domain:** different application areas.
  - **Cross-layer:** logical security, physical security and service layer.
  - **Predictive security monitoring**
  - Countermeasures selection based on an **ontology-driven approach**.
  - Trustworthiness and **resilience** framework

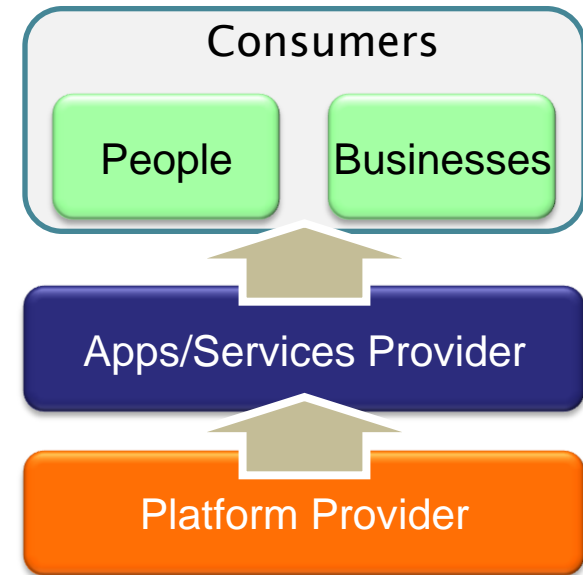


> MASSIF <

[[www.massif-project.eu](http://www.massif-project.eu)]

## Security Monitoring > ARI Projects

- ▶ Public-private partnership on the Internet of the Future (FI-PPP).
- ▶ Novel **service infrastructure** building upon elements (called Generic Enablers) offering reusable functions to develop applications.
- ▶ Security challenge: extremely efficient and quickly **response to attacks**.
- ▶ Security objective: Creation of secured and trusted services without sacrificing much of the desired functionality, usability -> "**Security by Design**".
- ▶ Key Security functionality: **Security Monitoring GE**
  - ▶ Correlation of heterogeneous events
  - ▶ Risk Analysis
  - ▶ Decision making support
  - ▶ Visualization and reporting
  - ▶ Digital forensics for evidence



<http://www.fi-ware.eu/>

# Other Security FP7-Projects

30/01/2012

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## Security related ARI Projects

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- ▶ **Trust - ANIKETOS:** Establishing and maintaining trustworthiness and secure behaviour in a constantly changing service environment. [[www.aniketos.eu](http://www.aniketos.eu)]
- ▶ **E-Identity - STORK:** Pan-European platform for interoperability of diverse national electronic identities, evaluated in six on-line pioneering applications offering electronic administration cross-border services to citizens and businesses [[www.eid-stork.eu](http://www.eid-stork.eu)]
- ▶ **Economics of Security - VALUESEC:** Cost-benefit analysis of current and future security measures in Europe. [[www.valusec.eu](http://www.valusec.eu)]
- ▶ **Intelligence - VIRTUOSO:** Exploitation of open data for intelligence for public security. [[www.virtuoso.eu](http://www.virtuoso.eu)]

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# どうもありがとうございます

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June 2011

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30/01/2012