

G7 ICT AND INDUSTRIES MULTISTAKEHOLDER CONFERENCE

SECURING THE CYBERSPACE FOR BUSINESS

POSTE ITALIANE S.p.A.

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POSTE ITALIANE

FACTS AND FIGURES

Coordinating about

141.246 employees

on average in the 2016 fiscal year

12.845 post offices

across the national territory

Total revenues

€ 18 Billion

for the 2016 fiscal year

+2,0%

respect to 2015 fiscal year

Financial services revenues

€ 5.294 Million

Savings and insurance revenues

€ 23.772 Million

Logistics and postal services revenues

€ 3.822 Million

in the 2016 fiscal year

Serving over

33 Million customers

in the 2016 fiscal year



**12,7 Million customers registered on
Poste Italiane **online services****

7.249 ATMs

250.000 daily access to poste.it

**2.400 simultaneous access per day
on **home banking website****

1,4 Million **SPID registered users**

900.000 monthly accesses to **SPID Service Provider**

400.000 security events daily processed

Since 2014,
+16 projects
in the infosec domains

funded at National
and European level



Poste Italiane
made operative its own
CERT since 2013



Economic development heavily depends on ICT



Protecting the cyberspace means protecting the business and the customers



Cybersecurity is **mandatory** due to cyber attacks' **impact on the business**



The complexity of **interconnections** and **interdependency** means that weaknesses have a global cascading impact



Cybersecurity becomes a responsibility **shared by all stakeholders and actors in the cyberspace**



A **safe and trusted ecosystem** is a crucial condition for customers' trust and for the business development in the digital era.

Protecting the **business** requires protecting the **customer**

PROTECTING
CUSTOMER DATA
AND PRIVACY

PROVIDING SECURE
PRODUCTS, SERVICES
AND
INFRASTRUCTURES

JOINING FORCES
AGAINST CRIMINAL
ORGANIZATION

Improvement and alignment of all **cybersecurity actors**
in terms of **commitment** and **response** capability against the
continuously **evolving cyber threats**

Mobile Apps are ubiquitous: e-health, finance, e-government, logistics, smart homes, automotive
(e.g. mobile banking apps becoming a preferred access channel to home banking operations)

PROTECTING CUSTOMER DATA AND PRIVACY

- Gathering sensitive data becomes easier
- Protection from stealing sensitive **financial and enterprise data**, personal **customers' data**, and data related to **defense and national security**.

PROVIDING SECURE PRODUCTS, SERVICES AND INFRASTRUCTURES

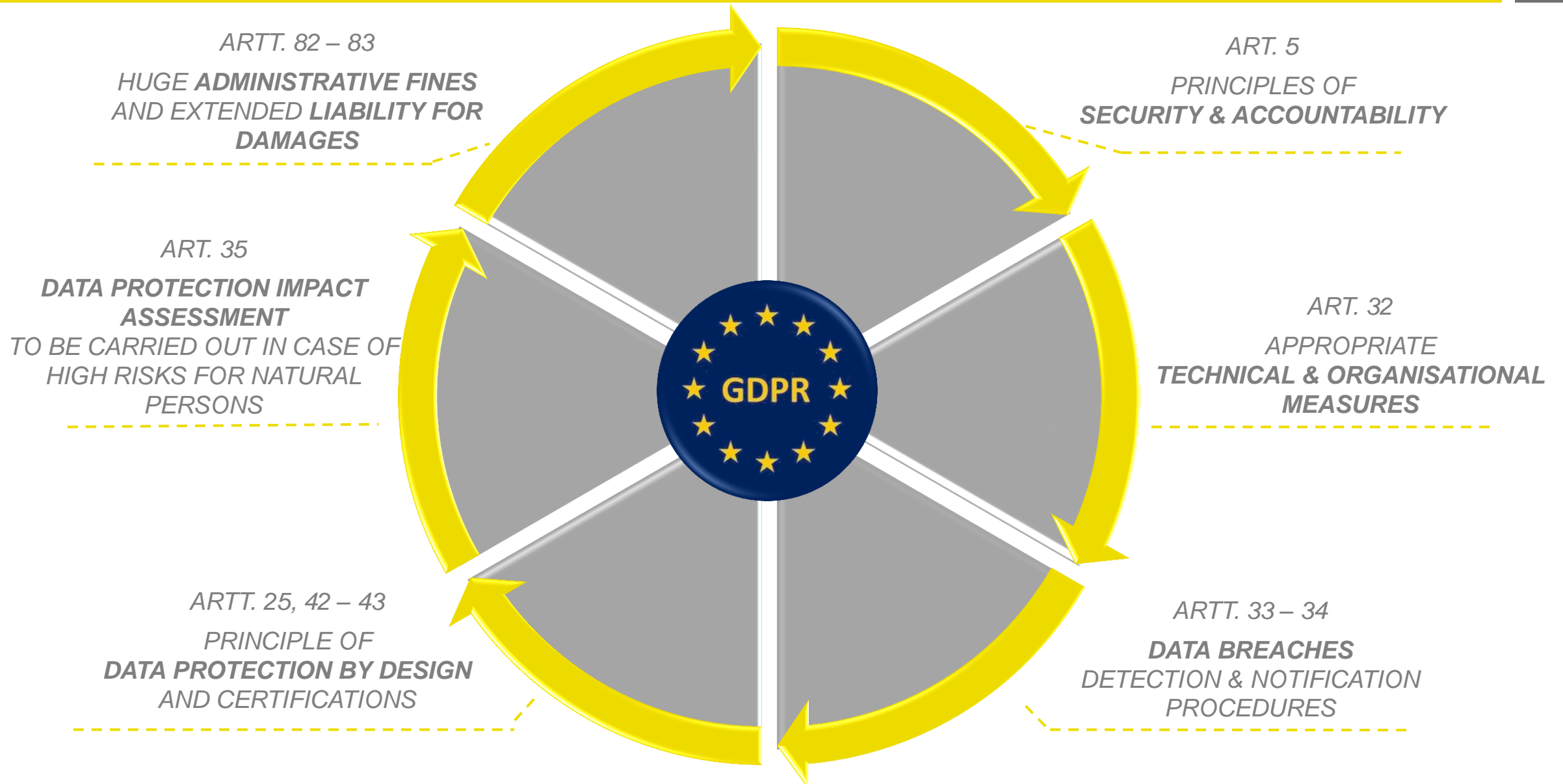
- **Mobile cybersecurity** necessary to protect both the customer and the company
- Mobile security: state-of-the-art **technical measures + risk management** of mobile apps (e.g. security-by-design, security monitoring, static and dynamic analysis of app, etc.)

JOINING FORCES AGAINST CRIMINAL ORGANIZATION

- Security perimeter beyond organization's boundary (app store, mobile operating system, app services)
- Same security threats for different player and sectors
- Need for **coordinated cyber threat intelligence and response**

FOCUS ON GENERAL DATA PROTECTION REGULATION – GDPR

EU REGULATION NO. 2016/679 (UE)



- **Implement appropriate security measures**, taking into account:
 - the state of the art
 - the costs of implementation
 - the nature, scope, context and purposes of processing
 - the likelihood and severity of risks for people rights and freedoms
- Data controllers/processors shall:
 - **detect** data breaches
 - promptly **notify** the breach details to the competent national data protection **authority**
 - If risk for rights and freedoms is high, data controllers shall **communicate** the breach to the involved **data subjects**

ONE SIZE
DOES NOT FIT
ALL

DETECTION
AND
NOTIFICATION
AS KEY
ASPECTS

GDPR requires a process for regularly *testing, assessing and evaluating* the effectiveness of such technical and organisational measures



LACK OF SECURITY often brings to LIABILITY AND HUGE FINES

FOCUS ON CYBER INSURANCE

MANAGING RESIDUAL CYBER RISK

Estimated cost of cyber attacks for businesses

\$450 Billion a year globally

in 2016

Beyond businesses' efforts to defend their systems and customers, there is a need to transfer the

RESIDUAL CYBER RISK

CYBER INSURANCE

becomes a concrete and effective opportunity for businesses

The demand for cyber insurance increases in line with growth of cyber threats

In a **case analysis** realized by LLOYD'S, the losses from a cloud service disruption scenario were estimated to range from \$4.6 billion for a large event to \$53 billion for an extreme event, whereas in a mass software vulnerability scenario, the losses were estimated to range from \$9.7 billion for a large event to \$28.7 billion for an extreme event

The challenge is to develop

NOVEL MODELS FOR CYBER RISK ASSESSMENT

Today, cyber insurance market is estimated to worth between

\$3 billion and \$3.5 billion globally

and is projected to grow up to

\$7.5 billion globally by 2020

The **understanding of cyber risks** makes it possible to **define insurance classes, premiums and compensations**

Key aspect from business point of view:

cybersecurity sustainability

Public Private Partnerships (PPPs) to create value and to limit costs of cybersecurity:

- **Research institutions** contribute with innovation and state of the art methods
- **Law enforcement** contribute with response capabilities that companies simply cannot achieve
- **Companies** are the providers and the access owner of digital infrastructures and technological know-how

Global digital market of cybersecurity as a business opportunity:

- **Fast interaction** of small and large enterprises
- **SME and start-ups** adapt to the continuously changing threats and bring innovative security solutions to the market
- **Large companies** with complex security infrastructures can bring to the market part of their security infrastructure as-a-service

CYBERSECURITY AS A SHARED RESPONSIBILITY



Ubiquity of digital and mobile services: the need of **cybersecurity as a shared a responsibility** for a trusted digital ecosystem and supporting the business



User data gathering and profiling lead to success, but **privacy protection** is required



Cyber insurance: new business opportunity but **novel risk management models are needed**



Sustainability: join forces within PPPs and create new cybersecurity markets

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