



Privacy by design Guidelines: how to ensure that the citizen privacy is respected

Antonio Kung





Context

- PRIPARE support action 2014-2015



PReparing Industry to
Privacy-by-design by supporting
its **AP**plication in **RE**search

- pripareproject.eu
- Contribution to ISO
 - Editor ISO 27550 Privacy engineering (2016 – 2019)
 - Rapporteur ISO Study period « privacy in smart cities »
 - Rapporteur ISO Study period « privacy guidelines in the IoT »
 - Contributor ISO 20547-4 Big data reference architecture – Security and privacy fabric
- Contribution to EIP-SCC
 - Commitment 7001
 - Citizen approach to data initiative
 - 2 webinars – One recommendation document



Initiative

- Citizen Centric Approach to Data –Privacy-by-design
 - Snowden revelations
 - Something must be done to protect a citizen's right to privacy
- Initiative leaders
 - Antonio Kung (chair)
 - Chris Cooper (co-chair)





GDPR: General Data Protection Regulation

Published on May 4th 2016








Enter into force on May 24th 2016

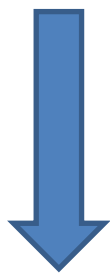
Apply on May 25th 2018

- Privacy-by-design (PbD) and by-default
- Privacy Impact Assessment (PIA)
- Data Protection Officers
 - All public authorities and companies processing personal data on a large scale
- Sanctions for breaches
 - up to 20,000,000 EUR
 - up to 4% of the annual worldwide turnover



Stakeholder Concerns on Privacy

Stakeholder		Legal Compliance Level	Management Level	System Lifecycle Level
Demand side	Policy maker 	Compliance		
	Operator Data Controller 	Compliance requirements Regulation	Compliance Requirements Privacy Impact Assessment	Compliance requirements Privacy-by-Design
	Operator Data processor 			
Supply side	Supplier 	e.g. Operators Requirements		






Supply Side Concern



Smart City Application operator

GDPR PIA PbD

Sensor



Device



Smart device



Cloud solution



Purpose unknown

Small operator VS big operator

Electronics



Security module



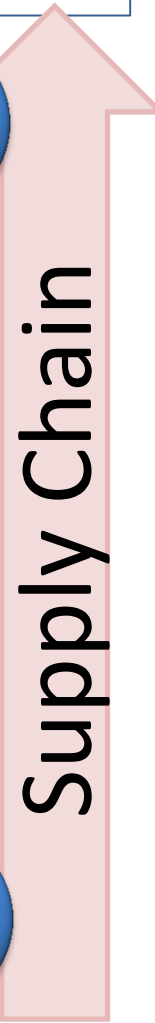
OS



Middleware



GDPR ? PIA ? PbD ?



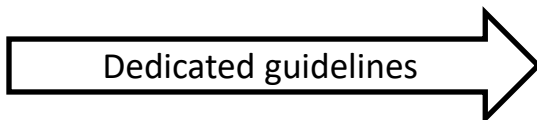
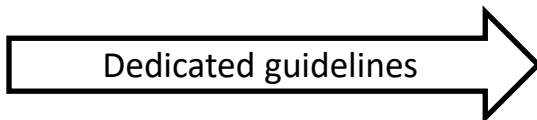
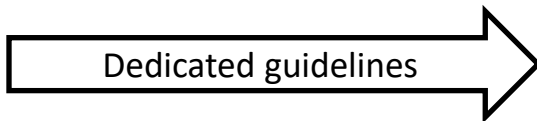
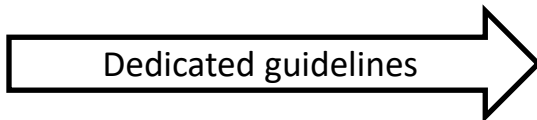






What we want to Achieve

 PRIPARE methodology

 ISO 27550 Privacy engineering guidelines

Global guidelines



Smart City Ecosystem	
Demand side	Policy maker 
	Operator Data Controller 
Supply side	Operator Data processor 
	Supplier 



Thanks

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