

SYNCHRONICITY

"Fair and Open Smart Cities: Growing the Local IoT Data Infrastructure Partnerships" Nuria de Lama, European Programs Manager, Atos BoD Big Data Value Association



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Can we influence the future based on what we know today?



Trusted partner for your Digital Journey

2/3

of citizens worldwide are

Generation Y & Z

services regularly

of citizens have problems with online public services

2

Atos

Are social and business benefits excluding each other?

84% of IoT deployments are currently addressing, or have the potential to address, the Sustainable Development Goals (SDGs) as defined by the United Nations. The analysis supports the intuition that many share – that **IoT has development benefits that could be maximized without compromising the commercial viability.**

Internet of Things Guidelines for Sustainability, World Economic Forum



IoT Guidelines for Sustainability (World Economic Forum)

ea	Guideline		For action by	Key opportunity	Key risk
Collaboration models and incentives alignment	1.	Provide structural incentives to encourage the prioritization of sustainability objectives at the design phase of the IoT projects	Governments	Maximize sustainable development impact of the IoT projects	Sustainability continues to be an "accidental afterthought"
			Private sector/ Non-profit		
	2.	Integrate technologies and drive use cases- based growth under solid and collaborative partnerships to overcome the limitations of fragmentation	Private sector	Deliver outcomes despite relatively immature market and fragmented landscape	Loss of business opportunities as customers walt for industry consolidation
			All		
	3.	Address Infrastructure solutions first, to enable business models and facilitate scale	Governments	Unlock \$14 trillon of economic value to the global economy by 2030	Subdued or subpar growth of an otherwise promising sector
			Private sector/ Non-profit		
	4.	 Simplify legal frameworks, accelerate procurement processes and engage the experts to enhance the pace of IoT deployments and reduce the risk of political cycles 	All	Streamline processes to achieve the full scale of the opportunities efficiently	Subdued or subpar growth of an otherwise promising sector
	5.	ownership, privacy, usage and sharing as a of one of the world's	All	Leverage the full potential	Potential confilcts and
			most valuable resource	fallure in delivering the promised outcomes	
business and investment models	6.	Exercise flexibility in designing and executing business models	Private sector	Maximize revenue opportunities in a relatively nascent industry	Missed revenue and growth opportunities
			All		
	7.	Develop cross-Industry solutions to unlock mutual benefits and enable new monetization	Private sector	Innovation driving new	Missed revenue and growth opportunities
		mutual benefits and enable new monetization models		revenue streams	
restr	8.	Achieve scale by demand consolidation and	All	Achieve the true scale of	Missed revenue and
Ĩ,		bundling to attract alternative funding sources (e.g., Institutional Investors)		opportunities by bringing In new class of investors	growth opportunities



What is this session about?

- (1) what it means and what is needed to design smart cities in a fair and open way,
- (2) how can open standards and APIs contribute to a flourishing local innovation ecosystem,
- (3) why is interoperability of data-driven services needed, and
- (4) how can fair and open urban services be scaled?

Use the present to influence the future



- The aim of the **Big Policy Canvas Roadmap** for Future Research Directions in Data-Driven Policy Making is to put forward the different research and innovation directions that should be followed in order to reach the anticipated vision for making the public sector a key player in tackling societal challenges through new data-driven policy-making approaches
- New version of the roadmap in commentable format has just been published
- The tool used is http://roadmap.bigpolicycanvas.eu/ linking to https://www.bigpolicycanvas.eu/results/roadmap

Research Cluster	Research Challenges		
	RC 1.1 - Big Data nudging		
C1- Privacy, Transparency and Trust	RC 1.2 - Pervasive data collection		
CI- Privacy, Hansparency and Hust	RC 1.3 - Algorithmic bias and transparency		
	RC 1.4 – Open Government Datasets		
	RC 2.1 – Real time big data collection and production		
C2 - Data acquisition, cleaning and representativeness	RC 2.2 - Quality assessment, data cleaning and formatting		
	RC 2.3 - Representativeness of data collected		
	RC 3.1 - Identification of patterns, trends and relevant observables		
C3 - Data clustering, integration and fusion	RC 3.2 - Extraction of relevant information and feature extraction		
	RC 3.3 - Integration and interoperability of Public Administration datasets		
	RC 4.1 - Identification of suitable modelling schemes inferred from existing data		
C4 - Modelling and analysis with big data	RC 4.2 - Collaborative model simulations and scenarios generation		
	RC 4.3 - Integration and re-use of modelling schemes		
C5 - Data visualization	RC 5.1 – Automated visualization of dynamic data in real time		
C5 - Data Visualization	RC 5.2 - Interactive data visualization		



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SynchroniCity: Scaling up 51 IoT Solutions for 20 Smart Cities & Communities



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