

Innovative Tools for Evidence Based Policy Track 1: Stakeholder engagement & co-creation

A new era of collaboration, co-creation & consultation with citizens & stakeholders

10 December 2021





Agenda

- Introduction. A new era of collaboration, co-creation & consultation with citizens & stakeholders – Germana Gianquinto (AI4PublicPolicy)
- The Turin Co-Creation Model Fabio Perossini (KPRF DECIDO)
- Co-creation of STI policies using the IntelComp platform Jerónimo Arenas (UC3M, IntelComp)
- LDT Typology Pavel Kogut (21C Consultancy, DUET)
- Panel Discussion on a new era of collaboration, co-creation & consultation with citizens & stakeholders

















Track 1: Stakeholder engagement & co-creation

- We live in a digital world, shopping, working and even meeting our friends and partners online, Despite the wealth of digital tools at our fingertips, participation in democratic processes is falling across Europe. This may be because so far Governments have just digitised what we already do offline (e.g. e-petitions, e-consultation etc.) whereas new technologies and data opens up much more exciting possibilities for collaboration, co-creation and consultation with citizens.
- All the projects that are under focus, today, evaluate the impact of co-creation and this track, in particular, explores how new technologies and tools can be used for engagement and innovative collaboration between policy makers and citizens creating ecosystems for positive change.



Evidence Based Policymaking 2021

Join us: 10th December 11:30 am CET Session: Evidence Based Policy Cases from data to decision making

Track 1 - Stakeholder Engagement



KPRF

DECIDO

Universidad Carlos III IntelComp

21C Consultancy DUET

CITY OF TURIN GROWING EXPERIENCE

Author(s): Fabio Perossini

Affiliation: Kpeople Research Foundation (MT)

Evidence Based Policymaking in Europe summit Event:

9-10 December 2021 Date:



eviDEnce and Cloud for more InformeD and effective pOlicies





















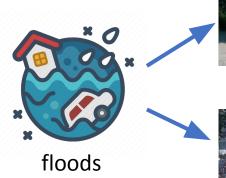


City of Turin Communities, approaching evidence base policy improvement.

A New Era of Collaboration, Co-creation & Consultation with Citizens & Stakeholders



Citizens expectations





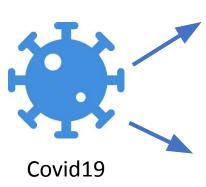
Citizens, Associations, Churches

- Improve communication with first responders
- Better coordinate post-hazard recovery



Sports circles, Pubs, Restaurants

- Improve communication with first responders
- Capacity building though knowledge transfer around river behaving





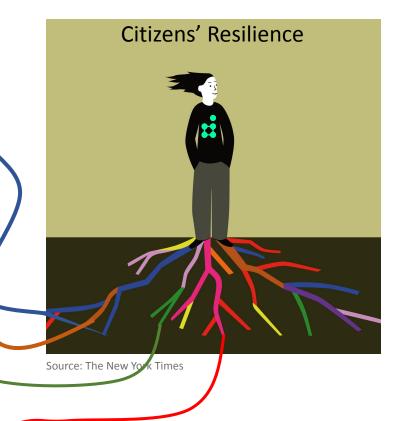


Young Adults in difficulties

- Real bottom-up approach: listen to requests
- Support co-creation of initiatives

Disadvantaged people support

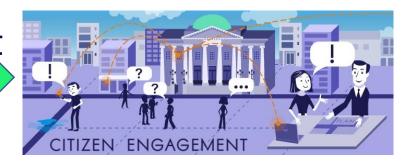
- Better sharing of information and needs
- Enlarge involvement of civic volunteers





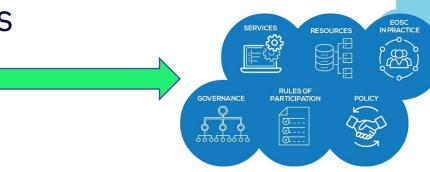
DECIDO challenges in Turin: 3 pillars

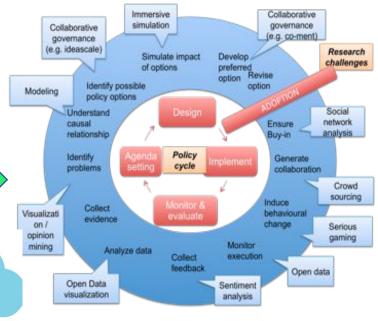
Citizen Engagement



Policy Lifecycle

EOSC Services

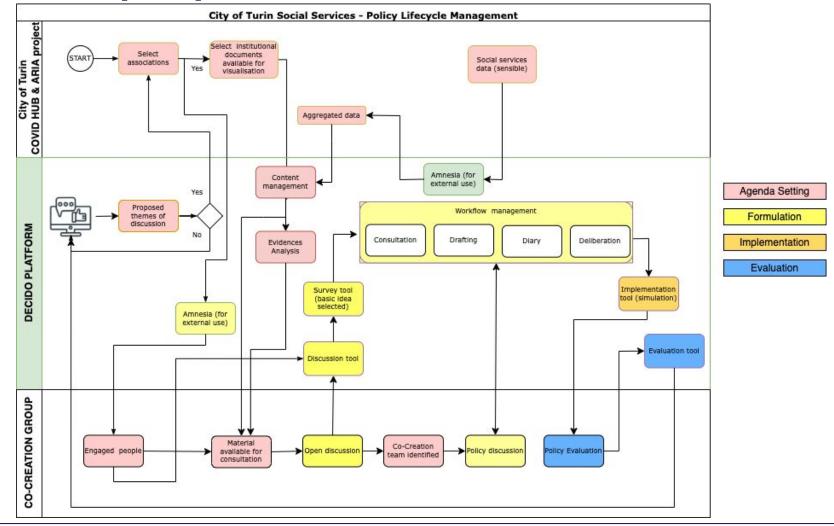








Co-creation proposal







DECIDO early adoptions

- Data availability vs usability
- Listening capability
- "Fluidity" in co-creation
- Trust is based on presence: project team should stay in touch with citizens







Cultural Challenges

- Capacity building
 - Human feeling (attitude)
 - Traditional training > Role Play Training (Policy Implementation simulation) > Digital Twin;
- Citizens motivation
 - Rewarding > Civil sense (How ?)
 - Associations > Civic volunteers (is there a border ?)
- Policies and Commons
 - Co-creation > Democratic innovation





THANKS FOR YOUR ATTENTION





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Lintelcomp

Co-creation of STI policies using the IntelComp platform

Jerónimo Arenas-García (UC3M)

10/12/2021

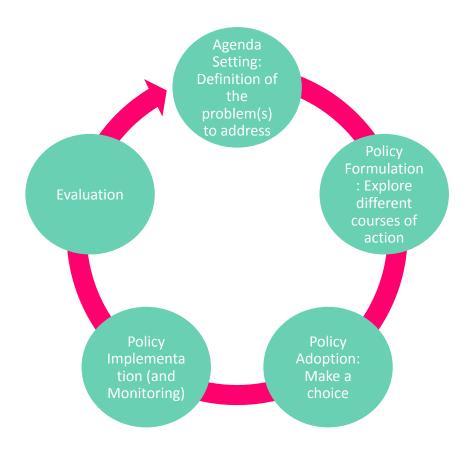
Evidence Based Policymaking in Europe Summit 2021



IntelComp - STI driven policy intelligence

Deliver a platform assisting and facilitating the whole-spectrum of Evidence-based Al-driven

STI Policy



IntelComp Objectives

- 1. Understand the challenges of STI policy making via the development of a co-designed framework with stakeholders (e.g. citizens)
- 2. Create a Data Space of STI related data sources
- 3. Develop a suite of analytical tools for STI analysis learning from text
 - NLP pipelines
 - Automatic classification
 - Enriched topic information
 - Graph analysis
- 4. Create an Al-assisted policy modeling multilingual platform comprising developed models
- 5. Deploy in HPC/HTC environment ensuring connection with EOSC
- 6. Co-develop tools and policies via three Living labs

IntelComp tools & services

IntelComp Tool	Final-user services	Target Users		
Interactive Model	- Curation and Annotation of Models	Domain experts		
Trainer	- Construction of domain-specific data sets			
STI Viewer	- Topic and graph enriched BI dashboards	Public		
	- Time and geographic STI analysis	Administration		
	- Heterogeneous corpus comparison (e.g., NSF vs CORDIS) with lead-lag estimation			
	- Profiling of STI agents.			
	- Analysis of granted projects by instrument (call, programme and topic); by			
	management unit; and by level of government (European, state and regional).			
	- Interactive graph view of STI documents			
Evaluation Workbench	- Reviewer and expert selection tool	Public		
	- Search by similarity tools	Administration		
	- Alarm tool (for duplicated project proposals)			
	- Fraud detection tool			
	- Automatic classification service (e.g., CPC, IPC, Frascatti, etc.)			
STI Policy Participation	Citizen Viewer - Simplified BI dashboards of STI domain	Citizens		
Portal	- Time & geographic STI analysis			
	Academia and - Simplified STI graph visualization	Academia, and		
	Industry Viewer - Graph Viewer for community visualization	Industry with STI		
	- Citizen STI participation mailbox	Interests		
	- Time & geographic STI analysis			
	- Surveys and blogs			



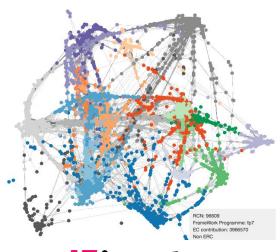
STI Viewer: Al-enriched BI panel

- Addressed to policy analysts
- Allows exploratory analysis of available metadata + AI variables
- Filters can be applied to obtain relevant measures

Citizen Viewer

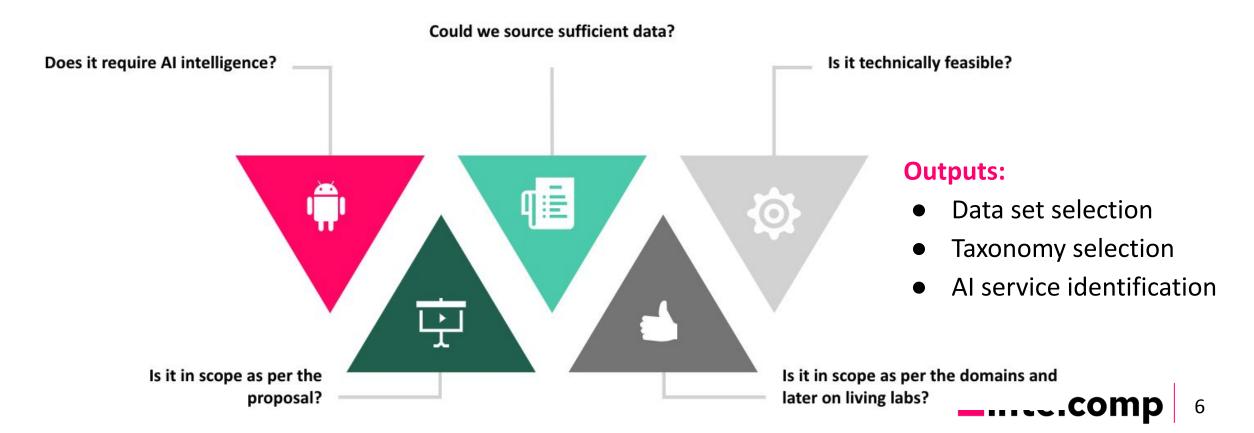
- Simplified version targeted to citizens (transparency, impact of public funding)
- Analysis of social data
- Data gathering: Participation mailbox + activity analysis





Methodology: From policy questions to quantifiable STI measurements

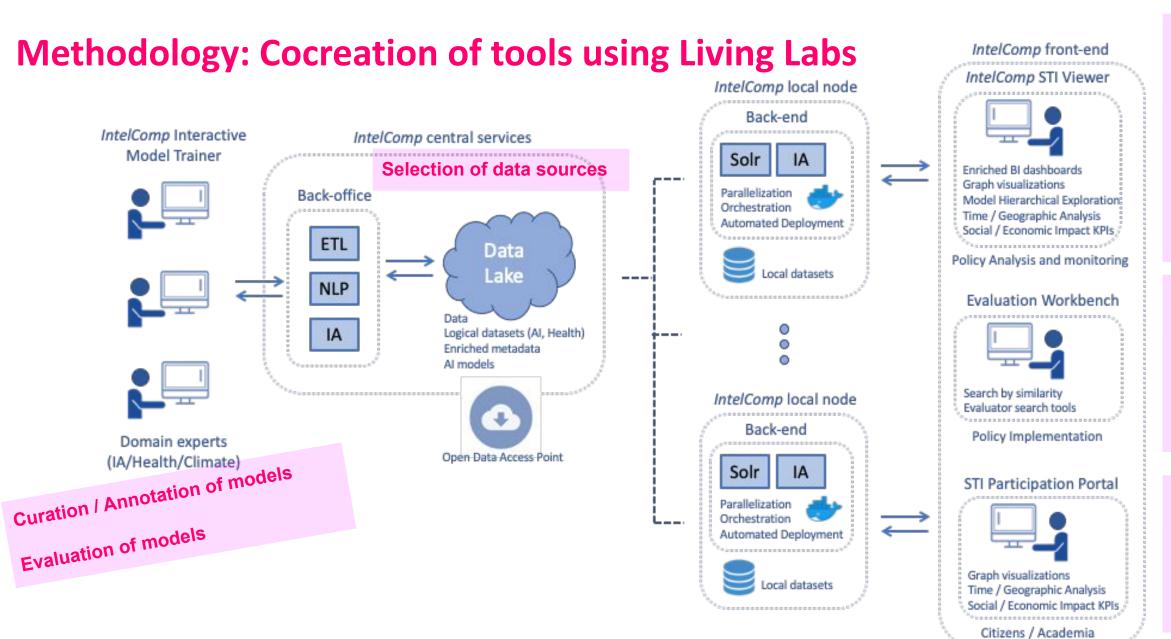
- 160 domain-agnostic questions for all functions of the innovation system and phases of the policy cycle were preliminary identified
- They were analyzed jointly with policy makers in three consultation workshops
- Prioritized questions were analyzed internally according to different dimensions



Methodology: Cocreation of tools via Living Labs

- IntelComp Platform is a generic and domain independent solution
- Three pilots in the form of Living Labs will be developed
 - Artificial Intelligence
 - Climate Change / Blue Economy
 - Health / Cancer
- Three use cases have already been identified:
 - The Spanish National Strategy on Al
 - The Sustainable Euro-Asian Seas Initiative (coordinated by Greece)
 - The research on cancer of the Science and Technology Observatory (France)
- We will incorporate domain experts' knowledge to validate the technical solutions
- We will build the right user visualization tools to make the results easy to use and actionable to the final users
 - Co-creation methodologies (Living Labs) will be exploited, jointly revising user requirements and improving the developed tools in an iterative manner (agile methodology)





Conclusions

- 1. IntelComp is developing a platform to provide data-based evidence for STI policy making
- 2. It is powered by last NLP & AI advances, particularly for unstructured text analysis
- 3. Tools for model co-creation (human-in-the-loop approach)
- 4. Co-creation of visualizations involving users through an agile methodology
- 5. Three living-labs to validate the approach in corresponding domains





https://intelcomp.eu/

@IntelComp_H2020

Jerónimo Arenas-García (jarenas@ing.uc3m.es)





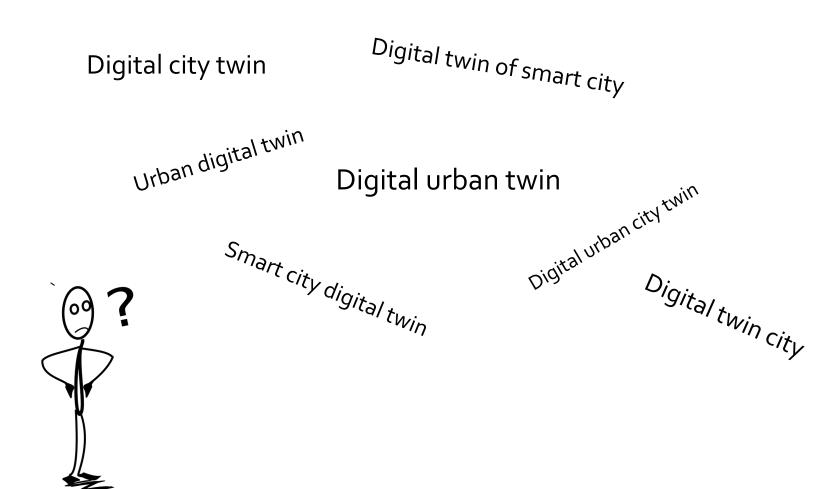
A Typology of Local Digital Twins Implications for collaborative governance

10 December 2021 | Pavel Kogut (21c Consultancy)





Local Digital Twin (LDT)







Why LDT typology?







Why LDT typology?

- Capture a variety of LDTs
- Identify distinguishing features
- Develop maturity models and requirements

Value Y	Type B	Type C
	Type A	Type D

Value X





Why LDTs?

Data driven tools for urban challenges

LDTs v. BIM, IoT dashboards, GIS (similarities)

Contextual information



Trend monitoring



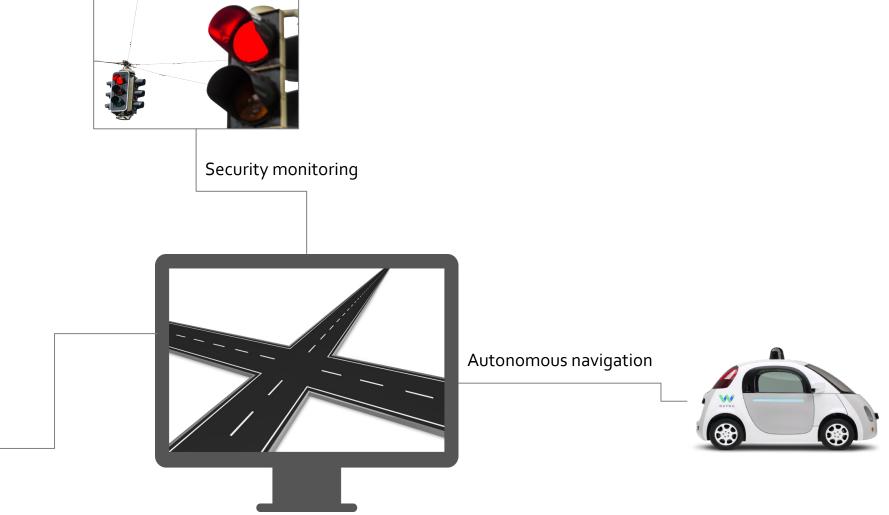
Optimisation



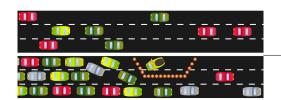




LDT benefits: Horizontal integration & reuse



Traffic control







LDT benefits: Sandbox for policy experiments



Testing a fleet of autonomous vehicles: mission possible?



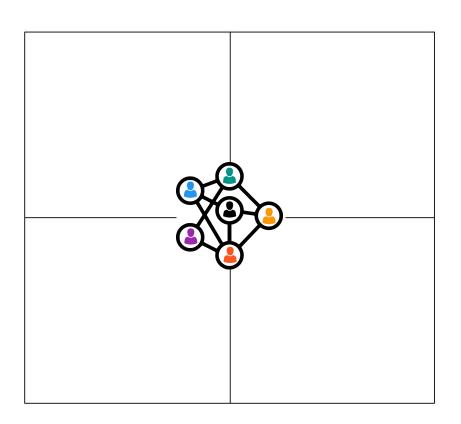


LDT benefits: Citizen centric public services

8	Samantha Fisher. 5 hour The predestrians should recapture the public space. In recent years, accidents have been caused by motorists.	
Α	Notal Column - 2 hour In this land-use area more living space needs to be created.	
А	Nexas Wates - 2 hour Please do net Forget to include a daycare during the planning phase. In the vicinity there live many young families.	
:omi	ment	
П	Name	
	Message	
	I have read and agree to the Terms & Conditions. Post Comment	
10		

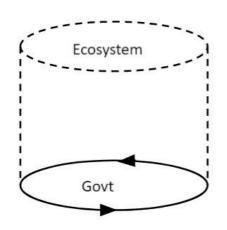


LDT typology





Closed LDT

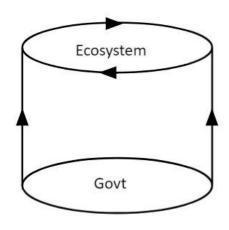


- Internal support tool
- Govt initiates, manages, pays and sets conditions
- Mostly govt data
- Policy making and urban planning

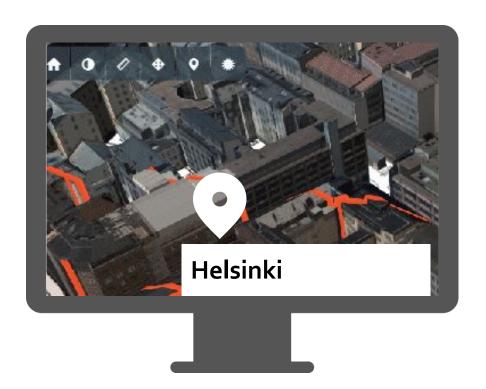




Network Oriented LDT



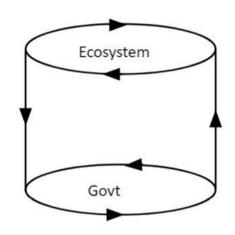
- Initiated by govt to facilitate open innovation
- Companies and citizens among users
- Commercial reuse allowed





Network Owned LDT



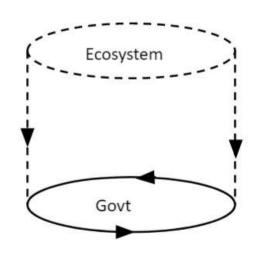


- High level of decentralisation and openness
- Role of govt and public funding non-primary
- Future state in the maturity model
- Enablers: DGA, Gaia-x...





Network Enabled LDT



- High decentralisation but policy oriented
- Closed part of an otherwise open system
- Govt sets up an LDT for private use
- Data and infrastructure can be shared





Recap

	Closed	Network Oriented	Network Owned	Network Enabled
Purpose	Policy Making	Open Innovation Citizen Participation	Open Innovation Citizen Participation Policy Making	Policy Making
Owner	Government	Government	Ecosystem	Ecosystem
Data Type	Governmental Purchased Commercial	Governmental Purchased Commercial	Governmental Commercial Personal	Governmental Licensed Commercial
Data Control	Government	Government	Ecosystem	Government Ecosystem
Examples	Vienna	Helsinki	Rotterdam*	Örebro*





Conclusion

- LDTs can make governance more collaborative, but it depends on the LDT type
- Closed and Network Enabled LDTs primarily benefit govt
- Network Oriented and Owned LDTs most conducive to collaborative governance
 - Rotterdam 3D: feedback on planning applications
 - Helsinki's Energy Atlas: housing companies, developers, companies
 - DUET: citizen science
- LDT choice depends on data governance framework and culture
- LDT can co-exist



Thank you!









Panel Discussion- A new era of collaboration, Policy Cluster co-creation & consultation with citizens &

stakeholders

- What is the benefit of collaboration, co-creation & consultation with citizens & stakeholders for evidence based policymaking?
- What are the challenges that you have encountered when facilitating collaboration, co-creation & consultation with citizens & stakeholders?
- Why is the work you are doing in your project in the local communities important for Europe at large?
- What is your recommendation to policymakers for evidence-based policymaking?
- What's your main takeaway for the cluster?







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