



*IMPETUS Public Opinion Survey on Ethical Issues of Smart City Technologies* 

TIEMS Virtual Annual Conference 6<sup>th</sup> to 10<sup>th</sup> December 2021

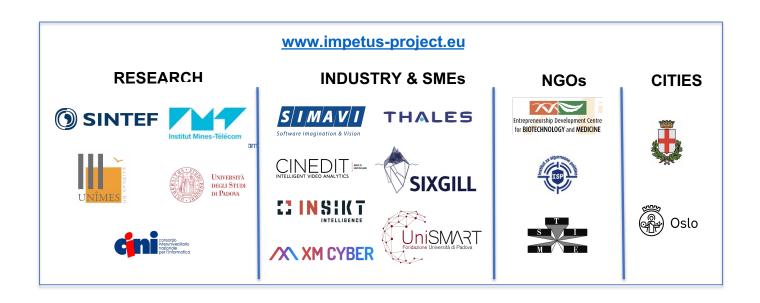
09<sup>th</sup> December 2021, 10:35 – 11:00 h IMPETUS Day - Session 11

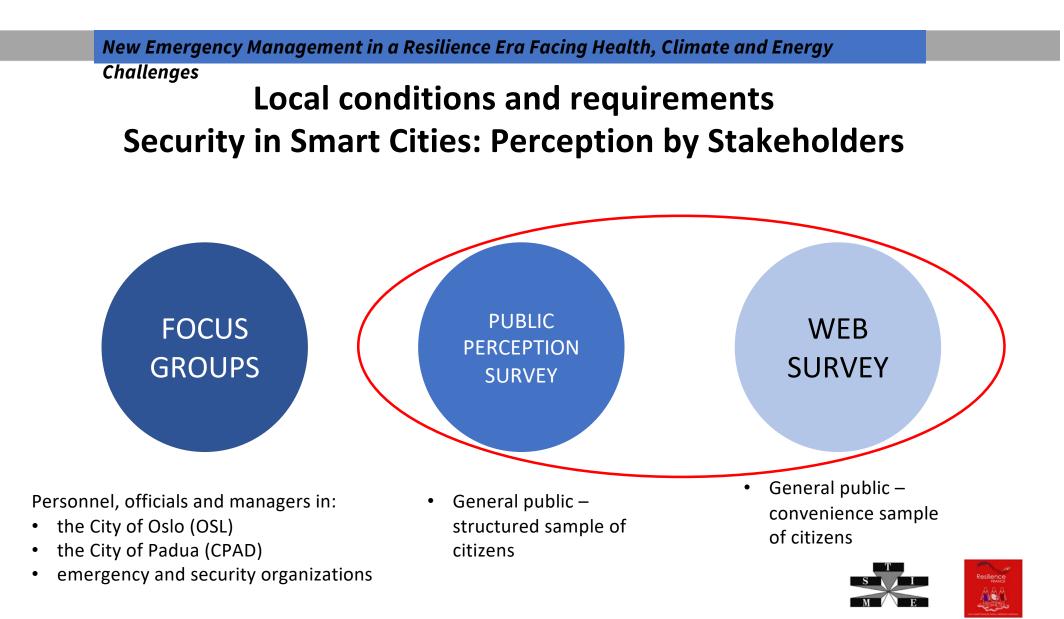
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Challenges

## **Public Perception Survey**

What do citizens know / want/ need / worry about? re Smart City solution C

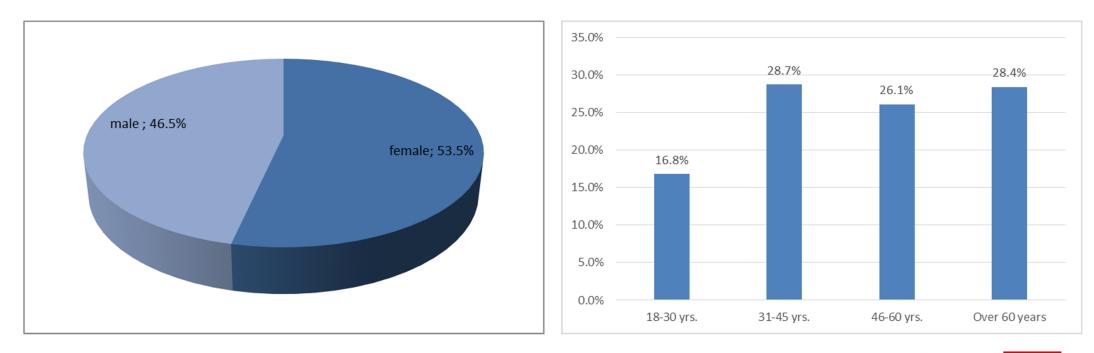




#### Challenges

### **Public Perception Survey**

# **GENDER & AGE distribution**





### **Public Perception Survey**

# What did we actually want to determine?

- Do citizens know what *Smart Cities* (SC) are?
- What is their opinion on SC technology in general (safety and security in public spaces included)?
- Are they thinking about / worried about the possibility of unethical use of SC technology?





### **Public Perception Survey**

### Padua, Italy



\*https://www.dorms.com/Italy/Padova

### Public Perception Survey - Padua, Italy

Summary	Padua	EU average	Comments
Familiarity with the concept of Smart Cities	cca 83%	cca 80%	No need for education :)
Necessity to use Smart Cities technology			
- public transportation	51%	76%	
- waste management	54%	76%	
- energy efficiency and management	47%	69%	
- smart management of healthcare	84%	74%	
- security	67%	<b>58%</b>	
<ul> <li>warning systems for high air pollution, danger of floods, landslides, earthquakes</li> </ul>	43%	75%	
Trends in using Smart Cities technology	cca 65%	62%	*improved
Worries about the increasing level of digital skills needed for Smart Cities service	cca 8%	cca 20%	



### **Public Perception Survey - Padua, Italy**

Summary	Padua	EU average	Comments
General perception of safety	cca 65%	cca 60%	
Recent change in the level of security	46%	18%	*improved
Violation of privacy rights and identity thefts			
- identity theft or attempted identity theft	2%	cca 10%	
- withdrawal of money from your account from an unknown source	2%	cca 10%	
- violation of privacy rights	9%	cca 20%	
- use of your personal data for unnecessary or unwanted purposes	73%	cca 50%	
Concern about misuse of personal information	least concerned		
Concern over the misuse of the data collected			
by the Smart Cities services	7%	42%	



### **Public Perception Survey**

### **Oslo, Norway**



\*Oslo's Opera House, © Pavel Dudek / Alamy Stock Photo

### **Public Perception Survey: Oslo, Norway**

Summary	Oslo	EU average	Comments
Familiarity with the concept of Smart Cities	cca 50%	⊥ cca 80%	*50% never heard about it
Necessity to use Smart Cities technology			
- public transportation	80%	76%	
- waste management	75%	76%	
- energy efficiency and management	62%	69%	
- smart management of healthcare	64%	74%	
- security	44%	58%	
- warning systems for high air pollution, danger of floods, landslides, earthquakes	83%	75%	
Trends in using Smart Cities technology	cca 70%	62%	*improved
Worries about the increasing level of digital skills needed for Smart Cities service	cca 15%	cca 20%	

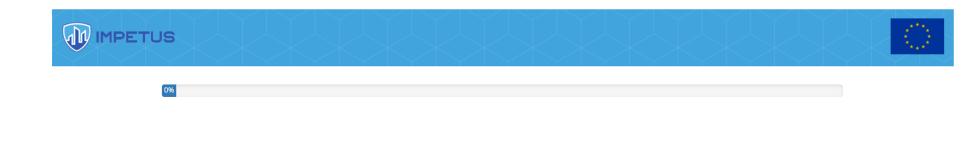


### **Public Perception Survey: Oslo, Norway**

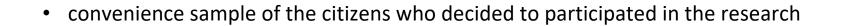
Summary	Oslo	EU average	Comment s
General perception of safety	cca 80%	cca 60%	
Recent change in the level of security	71%	60%	no change
Violation of privacy rights and identity thefts			
- identity theft or attempted identity theft	15%	cca 10%	
- withdrawal of money from your account from an unknown source	17%	cca 10%	
- violation of privacy rights	21%	cca 20%	
- use of your personal data for unnecessary or unwanted purposes	44%	cca 50%	
Concern about misuse of personal information	somewhat worried		
Concern over the misuse of the data collected by the Smart Cities services	32%	42%	



### **WEB** survey











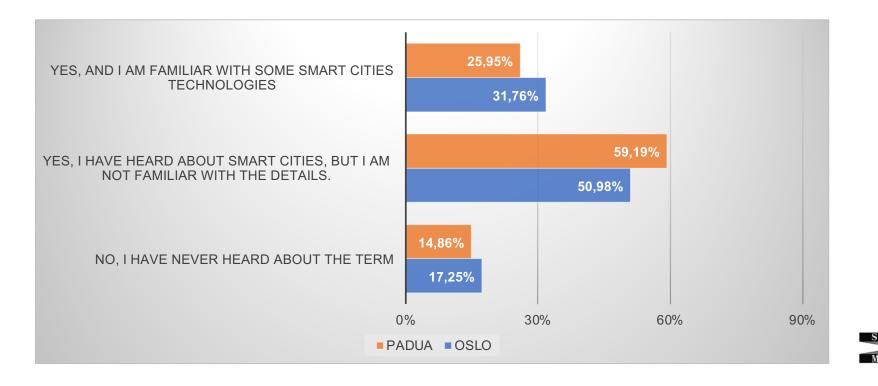
Challenges

### **WEB survey: Results**

No. of participants:

Padua: 370 Oslo: 255

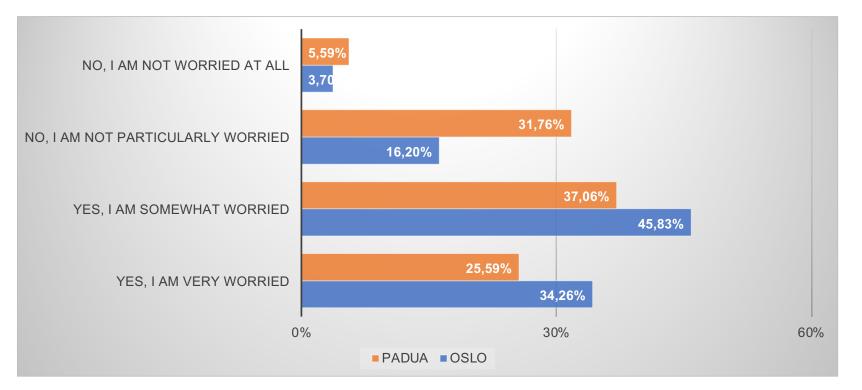
#### Familiarity with the concept of Smart Cities





### **WEB** survey

#### Level of worry about the level of collected digital data

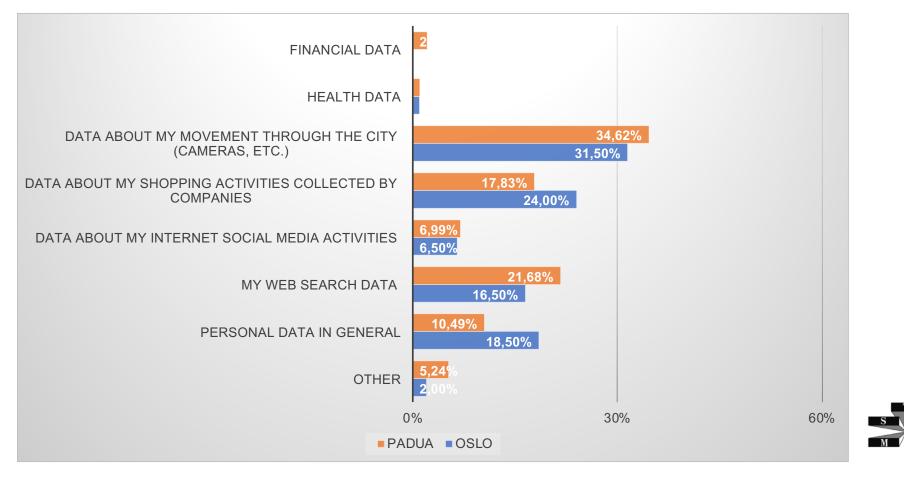






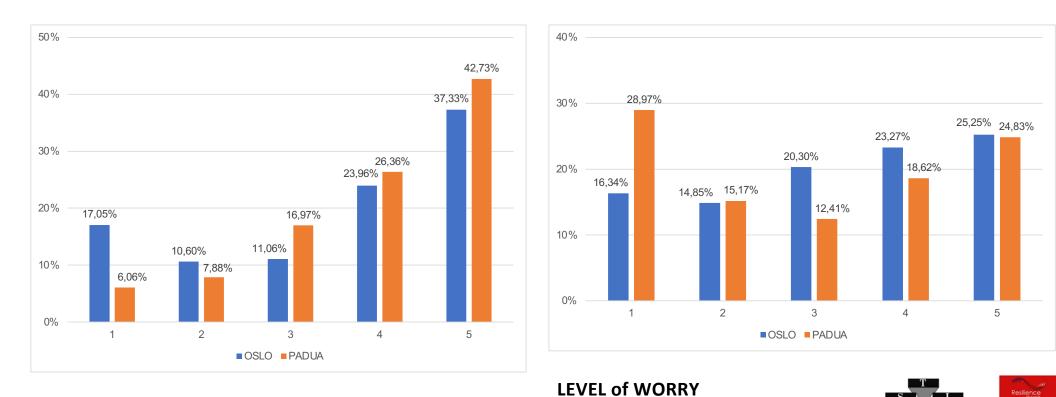
### **WEB** survey

#### Level of worry about particular type of data



### **WEB** survey

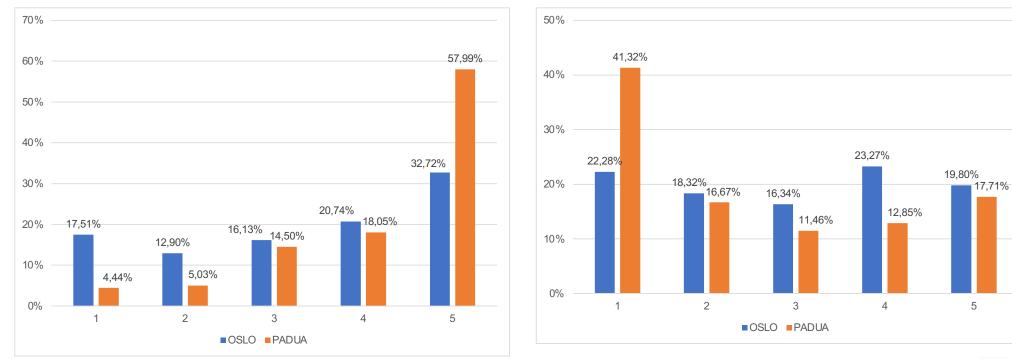
#### Social media hate speech/riots detection tools



USEFULNESS

### **WEB** survey

#### **Cameras to detect guns**

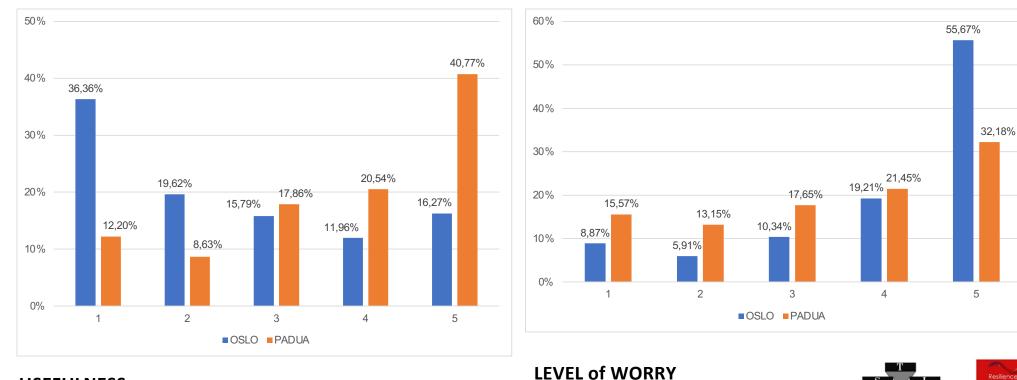


**LEVEL of WORRY** 

USEFULNESS

### **WEB** survey

#### **Cameras with face recognition sensors**

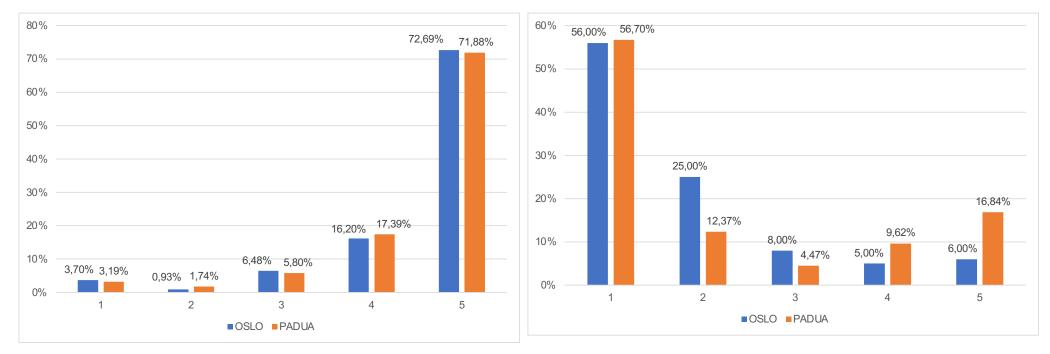


USEFULNESS

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### **WEB** survey

Usefulness of tools for detection of toxic gasses, chemical poisons and disease-causing microbs in the air of indoor public spaces



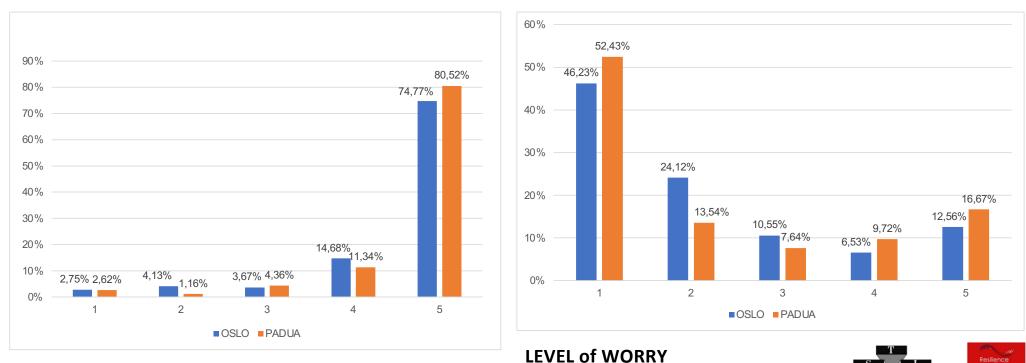
**USEFULNESS** 

LEVEL of WORRY



### **WEB** survey

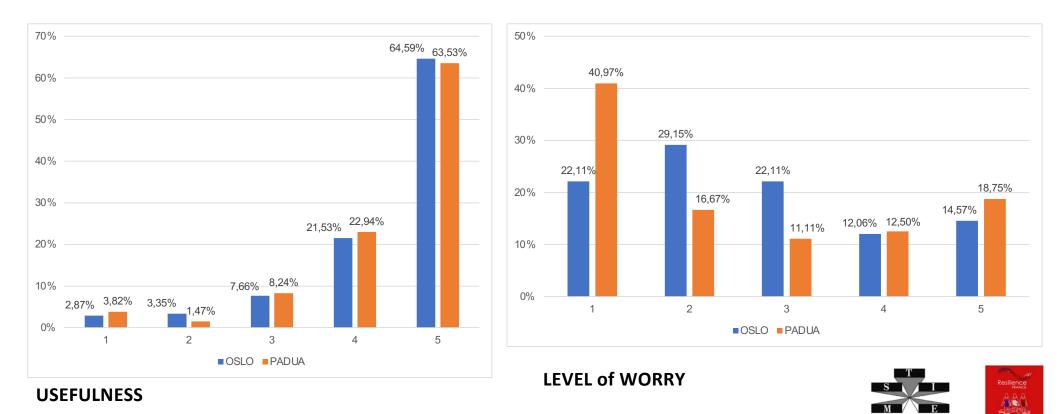
Computer programs enabling the police, ambulance and firefighters to arrive to the point of the detected incident of violence faster



**USEFULNESS** 

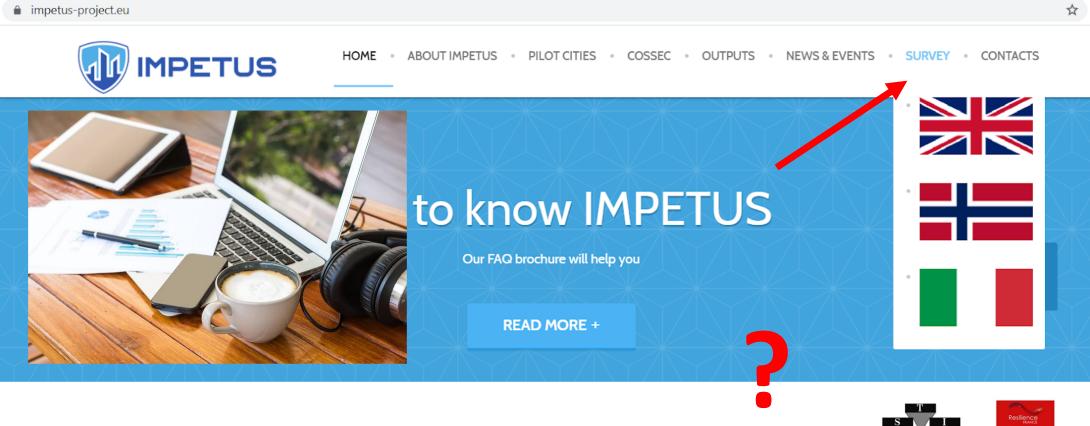
### WEB survey

Detection of attempts (successful or not) by malicious users to accesses confidential government documents or systems



#### Challenges

# Coffee break + time to give your opinion!! :)



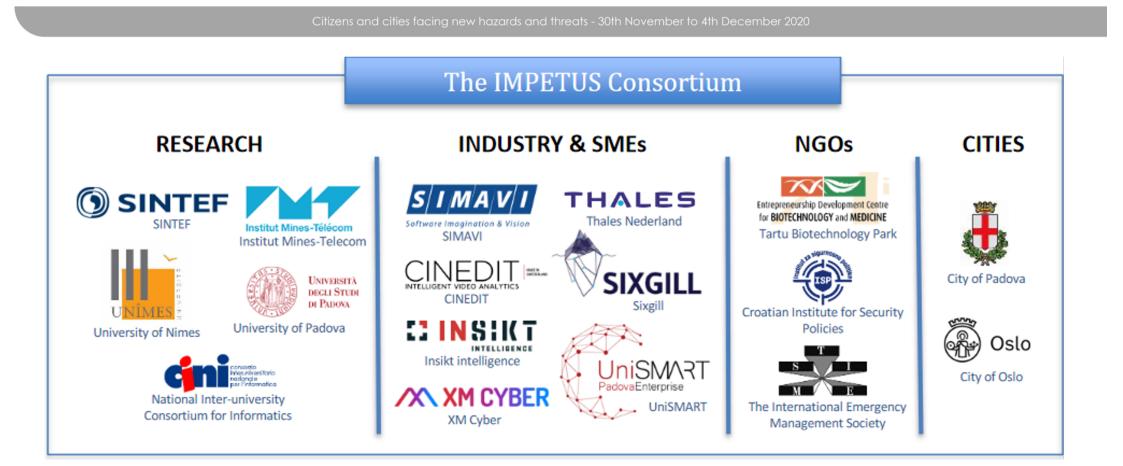
impetus-project.eu

# **Thank you** very much for your attention, your questions and comments, for filling in the <u>IMPETUS web survey</u> and sharing the link with your colleagues.

For more information contact: jelena.radosevic@insigpol.hr Institute for Security Policies (Croatia) http://insigpol.hr/









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