

ISKRATEL

Safe City as Foundation for a Smart City PSCE Conference – Bled 2018

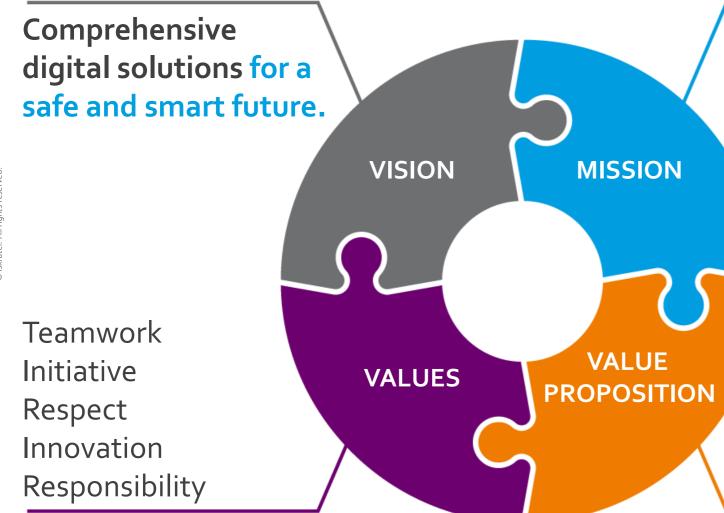
Ana Robnik

ICT and SAFETY

are embedded in our DNA

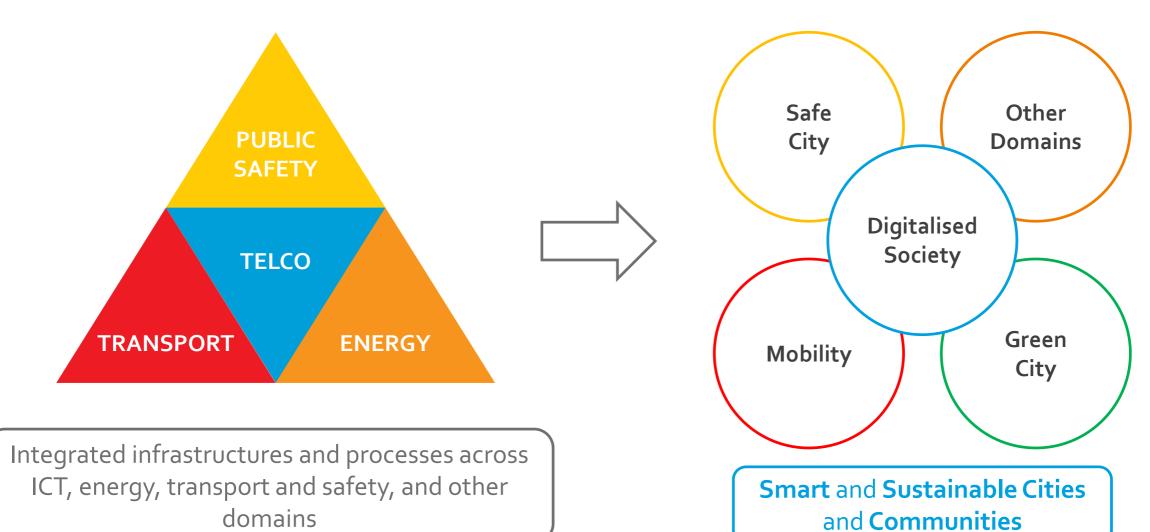


Iskratel's ICT and Safety Footprint



- We create new value, ensure safety and improve the overall quality of life.
- We provide reliable and comprehensive solutions for telecom operators and service providers, for the digitalisation of transport, public safety, and energy.
- We ensure the long-term success of our customers and partners, while also taking into account the local characteristics and quickly adapting to them.
- **Solutions provider** (providing integrated solutions and products based on the needs of the customers and markets).
- First among equals (the use of technological innovations to create added value for customers).

Business Areas Aligned with Smart City Domains



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ISKRATEL

We have to be Safe

to be Smart



The EU is committed to implementing the 2030 Agenda for Sustainable Development, including Sustainable Development Goal 11

Make cities and human settlements inclusive, safe, resilient and sustainable.

Source: Transforming our world: the 2030 Agenda for Sustainable Development, A/RES/70/1 (21.10.2015), here



Iskratel vision of "Safe City"

Safe City unites **businesses**, **municipal authorities**, **general public**, **emergency response units** and **law enforcement agencies** in order to **maximize safety** and lower response times in case of **emergency situations (*)**.

Responsibility shared between multiple agencies and safe city initiatives for:

- prevention through better intelligence sharing
- risk mitigation through better incident management.



Source: http://www.niteshrealty.com/2016/11/smart-safe-city-project-work-begins.html

Source (*): Fedorov V. (IUT), Robnik A. (Iskratel), Terekhov A. (Iskratel),

"Safe City" – an Open and Reliable Solution for a Safe and Smart City, Elektrotehniški vestnik 79 (5):262-267, 2012

Public Safety Solutions

Safeguarding the public. Smarter.



Emergency communications (112)

Significantly improving incident detection and response times. Real-time information, analytics and automated workflows for operators.



eCall

Solution has proven to halve emergency-services response times in traffic accidents by sending a "minimum set of data" (MSD) notification, which provides the exact location of the incident.





Safe & Smart city

Connecting smart technologies into a responsive and efficient Safe City Operations Centres.

5G Safety

5G broadband critical communications networks and broadband services and applications to be used by public safety, security and rescue organizations (PPDRs).

When Openness and

Solution Ecosystem matter



SCOC for better intelligence sharing



Government Agencies



Citizens



Municipal Authorities



Urban Safety Manager

Municipal Governance



Private Security Personnel



EROs (PSAP, ...)



Medical Dept.



Fire Dept.



Police Dept.

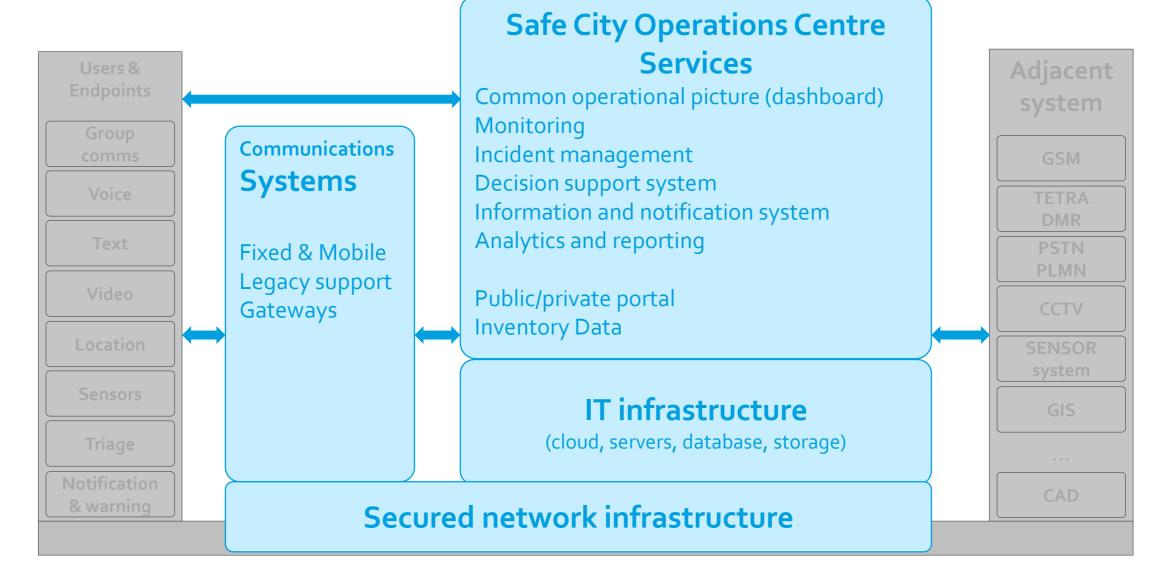
Disaster Warning & Rescue Dept.

Environment

Environment Protection Dept.



Iskratel's fit into the Solution Ecosystem





Incident Management & Information and Notification

... for Risk mitigation and Safer society

- Work as a Solid solution with Flexibility and Adaptation at its edge
- From Events to Incidents by using Intelligent algorithms
- Inform & Notify depend on Context, Area and I&N Channels

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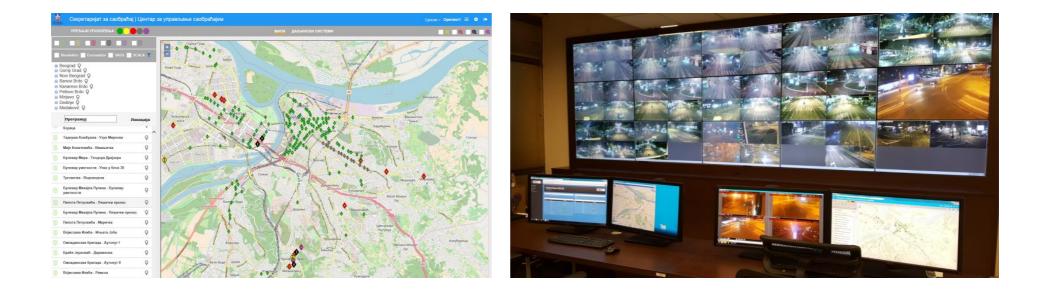
Monitoring and Disaster Recovery

for Traffic, Flooding and Fire



Traffic Management Centre

- Centralised management Integration of traffic lights systems, traffic measurements, video surveillance subsystems, GIS, etc.
- Common Operational Picture with **unified User experience**
- Presentation of key information and incidents on the big video walls



Forest Fire Control

- Automatic monitoring to detect wildfires at early stage on larger areas with smoke and flame detection systems
- Shorter response times **reduce** affected areas due real-time information
- Less human and other resources to extinguish fires

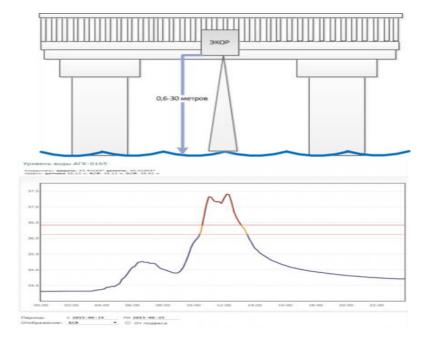




Monitoring system for Flooding

- Gathering information via:
 - Sensors, cameras, citizens' phone calls or WEB portal
- Effective incident verification and civil protection
- **Guided response** based on standardised procedures
- Activate **relevant forces** to **minimise** human **casualties** and property **damage**



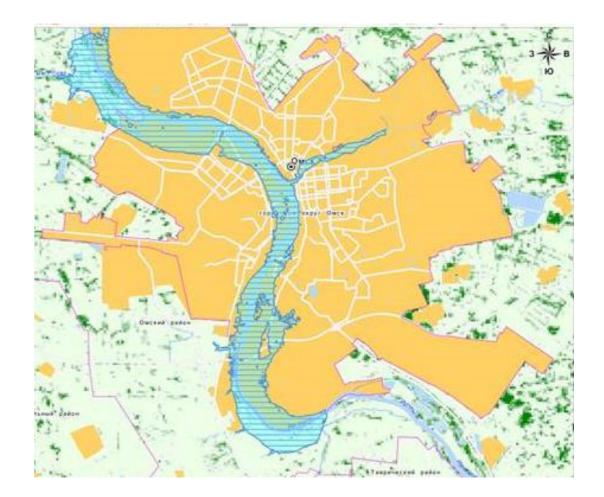


Decision support system

Flood visualization and simulation in the marked area

The Civil Protection Authorities can:

- Play out different scenarios
 - (e.g. 150 cm floods in the city -> how many people/building are affected etc.).
- Minimise unwanted situations (building protecting dams).
- Prepare for these situations.



ISKRATEL

Technology as a tool

Our Competences as a glue



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Safety and ICT KET^[1] for now and future...

... where Broadband, Narrowband, Actionable Intelligence and Trustworthiness matter

Internet of Public Safety Things (Smart sensors, devices and wearables, ...) Mobile policing towards 5G (Network as a Service - SDN, NFV, ...) (Private) Cloud/Fog Services (IaaS, PaaS, SaaS)

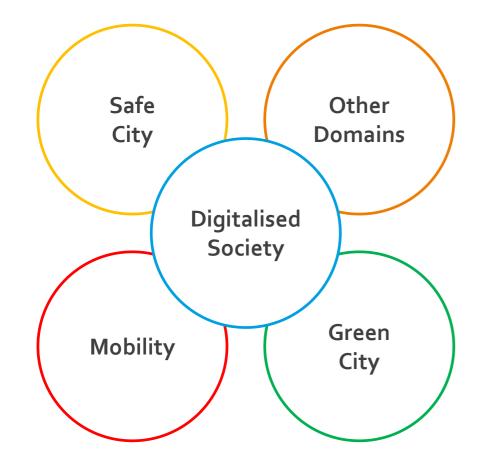
Video Surveillance and Video analytics Time-based location information (AML) Unmanned aerial vehicles (drones, "unmanned" devices) Virtual and augmented reality Big data and artificial intelligence

Cyber security and Identity management Privacy and Trust





Safe City is the Foundation for a Smart City



Safety first, with Digital

A plethora of Stakeholders benefits from Safe City Operations Centre

Solution **Ecosystem** matters

KETs for Innovation and new Business models

Safe City Solution creates Added value for all

Thank You for Your Attention

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