



NEWSLETTER 1

The rapid advances in technology are reshaping our economy and society. Technology has been incorporated by cities for many years. However, the pace at which this adoption takes place is increasing rapidly as disruptive digital technologies have the potential to solve major metropolitan challenges. As a consequence, urban areas transform into ‘smart cities’. In this transformation, disruptive technology is only one of the drivers. The second ingredient of smart cities is data, the lifeblood of smart solutions. The challenge is to use the power of data to create smart solutions that address real needs of city users and are perceived as meaningful by them. Their intuitive design causes them to be adopted naturally, resulting in changes of behavior that are lasting. In the end, smart solutions are all about human behavior. Finally, the third cornerstone of smart cities is digitally smart people who run the business.

About „ Smart by Design “

The aim of the project is to develop the competences of SME managers and owners to drive smart disruptive technology business. The duration of the project is two years, starting in October 2019. The project will provide a map of digital disruptive technologies and a training programme for smart disruptive innovation. Will be embracing 3 very important elements: Design thinking, Technology, Smart innovation

Target groups



Primary Target Group
SME Managers & Owners of
Smart City Technologies Business

Secondary Target Group
VET trainers





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Outputs

By combining management and digital skills the project will provide: a map of digital disruptive technologies and a training programme with modules and materials for smart innovation.



IO1 Map of digital and smart disruptions

Key areas of smart technology innovation - we will conduct a study to narrow the scope of technology areas of smart innovations and define key success factors and applications to prepare the map.

Case studies collection and focus groups - each partner will select two SMEs in the field of smart technologies and have interviews with their managers/owners to create a state of the art case study. This will generate a case study collection and initial contacts of the target group to be further involved in the project.

IO2 Training program for smart disruptive innovation

We will develop a program covering analytical, interdisciplinary critical thinking, management and technological skills; we will define the key topics of interdisciplinary knowledge across technology, social sciences and management disciplines.

Capabilities framework of smart innovation - common framework with key competences, skills and knowledge.

Training modules for smart innovation - specific modules with learning elements and assessment criteria, including self-assessment tools, thesaurus, materials.



Partners:

- **KISMC** - NGO that is focused on developing competences in innovation management, creativity and entrepreneurship;
- **ULSIT** - Bulgarian state university of bibliography and information technology that offers undergraduate, masters and doctoral degree programs and supports innovations and technology transfer in BG;
- **ARIES TRANSILVANIA** – industrial cluster and BSO that contributes in designing; implementing the smart city strategy of Cluj in Romania, supports digital transformation and creates digital innovation hubs;
- **GAIA** - a cluster BSO that unites companies from the knowledge and applied technologies industries and supports policy and deployment of ICT, Engineering and Electronics in Basque Country;
- **DEUSTO** - leading university in Spain specialized in educating training in the innovation and entrepreneurship, design thinking and IoT Smart city solutions through its Business School and the Faculty of Engineering;
- **UNITED ACADEMICS** - a Foundation in Netherlands that promotes, supports and maintains open-access library and publishing that results in faster scientific communication, wider influences of scientific knowledge on the industry, government, and education.



Smart Cities, Deloitte, 2015 ... fueled by a combination of disruptive technologies and social innovations ...

Most new technologies and social innovations are disruptive on their own. The combination of them is even more powerful and creates a 'perfect storm' of disruption.



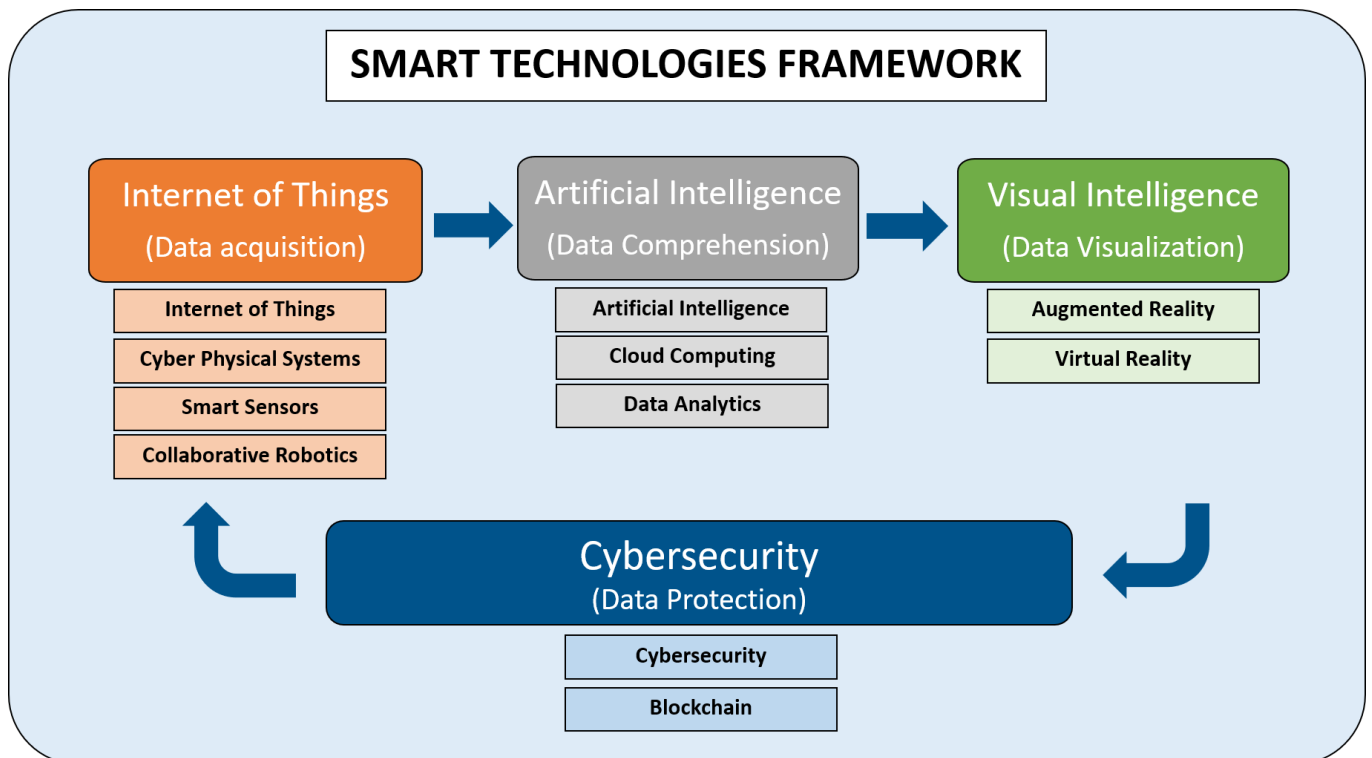
A positive quality of life involves enhancing every aspect of the daily existence of citizens. From safe streets to green spaces, from a reasonable commute to access to art and culture, a smart city creates an environment that promotes the best of urban living and minimizes the hassles of city life. Smart cities are ultimately great places to live.

Mapping the needs and opportunities for disruptive technologies for smart cities (Level of penetration analysis)

We have realized during the implementation of the project and as a result of the study that the most important and those with enough predictive potential to transform the cities into smart cities are the following technologies (technology areas):

Technology	Smart economy	Smart People	Smart Governance	Smart Mobility	Smart Environment	Smart Living
Artificial Intelligence			very week		week	
Data analytics						
Cloud Computing	very high		medium			
Internet of Things						
Cyber physical systems						
Smart sensors				high		

One framework used to understand it is based on eight critical factors: management and organization, technology, governance, policy context, people and communities, economy, built infrastructure and natural environment. Among those, the smart city infrastructure is considered to be the cornerstone on which the city's main assets can be further integrated with the facilities and systems required by a smart city.



For more information, you can visit the websites of the project:

<https://www.smartbydesign.eu/>