# HOW A SECURE DIGITAL SOCIETY CAN HELP MITIGATE THE COVID-19 CRISIS

During the COVID-19 crisis we have seen how e-Governance solutions have ensured us the continuity and sustainability of the public sector services for citizens and enterprises. Through that it has been proven how e-Governance can have a demonstrable and tangible impact on improving citizen participation and quality of life as a result of effective multi-stakeholder partnerships. Fully integrated public services are the way to build up the most secure digital society and overcome the crisis that we are facing today.

## E-GOVERNANCE SOLUTIONS FOR BUILDING UP A SECURE DIGITAL SOCIETY

It is important to keep in mind that in order to build up e-governance solutions, appropriate policy frameworks and legislative bases need to be developed by the Governments. Here is a list of fundamental digital solutions that a modern society should possess and that help to ensure the sustainable governance processes during any crisis:

#### BACKBONES OF E-GOVERNANCE:

- o X-Road a data exchange system where a country's e-service databases, both in public and private sector, link up and operate in harmony; it allows 24/7 secure Internet-based data exchange between information systems
- o e-ID functions as definite proof of ID in an electronic environment; it provides secure digital access to electronic services on a governmental, business and/or personal level; mobile versions are the quickest to launch during a crisis

# - BASIC REGISTRIES/DIGITIZED FUNCTIONS OF THE STATE:

- o Civil registry database of all citizens and residents with rights and limitations to provide government services
- o Business registry fast incorporation helps to develop business environment and increase FDI due to easier access to market and helps to continue the secure processes between enterprises and government
- o Property registry general data like size, owners, restrictions and mortgages of immovable properties can all be managed online
- o e-Taxation enhance government revenue as a result of automatic tax collection
- Public Finance Management administration and supervision of government and publicsector spending
- o Law Enforcement and Justice develop Rule of Law and accelerate contract enforcement to attract new businesses

# - E-HEALTH

- Hospital information system can be used both in hospitals and in individual doctors' offices; supports telemedicine, which provides virus safe-opportunities
- e-Prescription centralized and paperless system to be used by all doctors, patients, and pharmacies in order to get medicaments during any crisis
- VR solutions for contactless healthcare cost-effective healthcare solutions with more efficient and preventative measures

# - E-EDUCATION

- o School management system fast and efficient system providing better education and communication between students, their families, schools and supervisory bodies and giving possibilities for studying from distance as it is needed during a crisis
- o Students registry information about educational competitions, submission of applications, registering for examinations, information about rankings all in one place
- o Digital content management managing and delivering of learning materials to students from distance and contact-free

# - PUBLIC SAFETY

- o Public-safety answering point increases security, builds a better civil warning management and notification system, which helps to face challenges similar to COVID-19
- o Catastrophe prevention early warning system to detect the sinking or rising of large infrastructure such as bridges, roads, highways, pipelines, major buildings and mining areas from distance and contact-free
- o Border services easily manageable electronic queue management and safety solutions on borders that help to ensure among other things smooth cargo movements during a crisis

#### SMART MOBILITY AND CITY PLANNING

- o GIS placed city planning solutions lead to better governmental decisions in distributing the resources for cities, education, health etc. during a crisis
- o Road administration e-services enable 100% paperless processing of transactions, applications and data inquiries related to a person's right to drive and the person's vehicles
- o Public transport payment system contact-free smart payment solution for contactless fare payment by credit card, mobile phone or travel pass makes the use of public transport contact-free
- o Smart pedestrian crossings collecting of traffic statistics, detection of pedestrian gatherings, contact-free passing of crossings, alerting of the drivers
- o Self-driving shuttle bus helps to ensure contact-free transport of passengers and freight
- o Smart on-demand based public transportation platform integrates different actors in the service cycle such as residents, drivers and municipalities

# VALUE OFFER FROM ESTONIAN ICT CLUSTER

In order to build up e-governance solutions, certain preconditions such as legislative environment and political will need to be in place. In cooperation with Estonian ICT Cluster, a non-governmental and non-profit organization created to transfer our knowledge about building secure and advansed digital societies in the world, you can benefit from end to end approach by:

- getting political and legal drafting consultation
- receiving change management support
- getting help with capacity building
- technology implementation



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