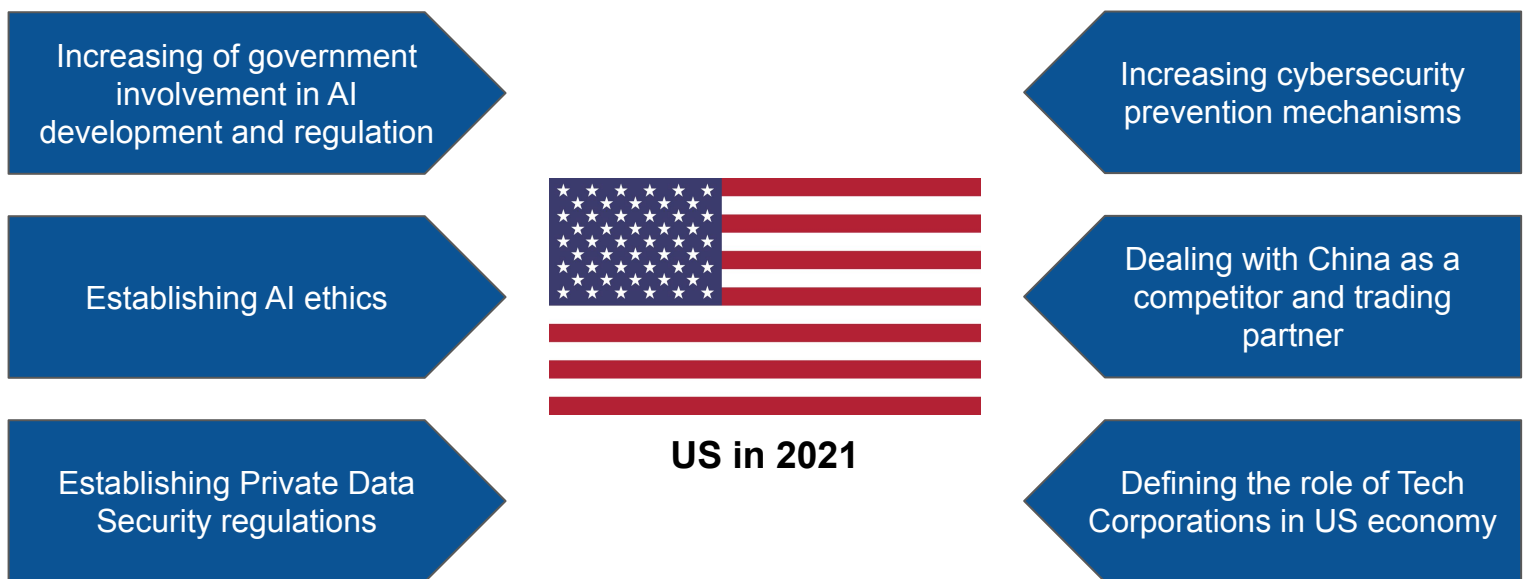**GovTech Division of Deep Knowledge Analytics,** a subsidiary of Deep Knowledge Group, is launching the series of quarterly overviews of GovTech and E-Government Technologies used in elections and various types of voting. Our first case study is focusing on the US and its purpose is to analyze GovTech solutions used in the recent US 2020 Presidential election. In the future, DKA will cover other countries and regions and their applications of GovTech solutions.

The purpose of this report is to analyze modern technological tools/concepts used over the course of the past few years in the US election process. As society is rapidly implementing a wide array of digital technologies in almost every aspect, numerous significant issues, such as reliability, trustworthiness, accessibility, are manifesting themselves. The new tools and solutions used for public administration and government election process (generally referred to as "GovTech") are the focus of heated discussions. Such technologies advance and reshape the modern democracy approach.

Trends and Tendencies in the US relations with AI 2020-2021

Increasing of government involvement in AI development and regulation

Increasing cybersecurity prevention mechanisms

Establishing AI ethics

Dealing with China as a competitor and trading partner

US in 2021

Establishing Private Data Security regulations

Defining the role of Tech Corporations in US economy

Key Takeaways

- GovTech utilized in the US election process still lacks adequate transparency and trustworthiness.

- The American society is highly divided in the face of the uncertainties in both political and technological aspects.

- New regulations and election technologies' educational measures are necessary in order to convince the people to trust GovTech and to allow for the inflow of new investments and ideas in this domain which was previously hindered due to the virtual monopoly held by several technology corporations up until recently.

- Artificial Intelligence and Blockchain technology have yet to reach the level of maturity needed to execute transparent democratic elections.

- There is a pressing need to introduce legislation to stimulate the ethical usage of Artificial Intelligence technologies in general.

- There is an emerging trend exhibiting a migration of users of media giants and Big Tech companies to innovative media channels (Parler, Ramble, MeWe etc) as the latter bring diversity and competition to the marketplace which is currently exhibiting a shift towards monopolization.

GovTech Solutions for 2020 Elections: US Case Study

GovTech / E-governance Industry in the US 2020

Companies - 30
Investors - 40

Digital Participation

Voting Machines

Companies

Investors

Blockchain-Based Solutions

DEEP KNOWLEDGE ANALIYTICS GOVTECH DIVISION

Timeline of Key Events: 2016-2020

2016

Big Data Analytics played a crucial role in the US Election and may have been used in a non-transparent way.

2017-2018

The period between elections was an attempt to comprehensively understand new technologies with the potential to disrupt politics across country. There was also a push to describe in detail their ethical use in the electoral process.

2019

In February 11, 2019 American AI Initiative, the AI government body, was established with the purpose to stimulate the technological development and implementation in the field.

2020

US 2020 Presidential Election became a litmus test for the perception of technologies, mainly AI and machine voting. The problem at hand is that technologies are a 'black box' for a majority of population. For politicians this is not only a 'black box' but also an issue as these technologies may directly influence the election process.

2021

Government may aim to increase their level of involvement in Artificial Intelligence development. Establishing AI usage ethics. Establishing Private Data Security regulations.