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AIWS REPORT ABOUT AI ETHICS

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Part I: Introduction to the AIWS Report about AI Ethics

Governments of large countries have significant influences over the development of the world. Therefore, the lack of consistency and consensus in concepts, values and systems as well as the lack of mutual trust and cooperation between governments would likely endanger humanity in the Artificial Intelligence era.

AI can be a useful tool for humanity, helping humans develop better and overcoming the weaknesses of existing political systems. Some political systems, though being shown with greater efficiency and better results, still possess limitations and shortcomings that need correction or examination. So what should be done to ensure cooperation between major governments given the conditions of uncertainty and complexity in the AI ecosystem? In this case, a unified vision of building ethical AI is needed so that governments can use AI as an effective tool to create better political systems to the benefits of their citizens.

Concepts and principles to create standards needed to follow the ultimate goals: for the people, for the human race, for the civilization and happiness of humanity. There must be common standards for an AI society around the world, from technology, laws, conventions, etc. to guarantee the interoperability among different frameworks and approaches between countries. It is the openness among countries that create beliefs, which are based on unified values, laws and conventions, which cannot be explained in its own way nor can it be assumed that each country has its own particularity to deny respect for common standards. If we do not reach a common accord of respect for the norms, laws, and conventions in the AI world, there will be no sustainable peace and security for humanity in the future. That is also the core content for an AI Accord between governments that Governor Michael Dukakis told the *Associated Press* on August 9, 2018.

Part II: Overview of Government AIWS Ethics and Practices Index

The concept of [AI-Government](#) was developed at the Michael Dukakis Institute for Leadership and Innovation through the collaboration of Governor Michael Dukakis, Mr. Nguyen Anh Tuan, Professor Nazli Choucri, and Professor Thomas Patterson and first presented in the AIWS Conference in 2018. However, to guarantee the interoperability among different frameworks and approaches of governments and deal with normative

differences among contexts and geographies, a model to develop, measure, and track the progress of ethical AI policy-making and solution adoption amongst governments is needed.

The AIWS Report about AI Ethics, therefore, proposes the model of Government AIWS Ethics and Practices Index and looks at the strategies, activities and progresses of major governments (including G7 countries: Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States and other influential countries such as Russia, China, India) in the field of AI.

Government AIWS Ethics and Practices Index

This index measures the extent to which a government in its Artificial Intelligence (AI) activities respects human values and contributes to the constructive use of AI.

The Index has four categories:

- 1. Transparency.** Substantially promotes and applies openness and transparency in the use and development of AI, including data sets, algorithms, intended impacts, goals, purposes. This ethic applies to individuals, corporations, academic institutions, and governments.
- 2. Regulation.** Has laws and regulations that require government agencies to use AI responsibly; that are aimed at requiring private parties to use AI humanely and that restricts their ability to engage in harmful AI practices; and that prohibit the use of AI by government to disadvantage political opponents.
- 3. Promotion.** Invests substantially in AI initiatives that promote shared human values; refrains from investing in harmful (and exploitative) uses of AI (e.g., autonomous weapons, propaganda creation and dissemination, social control).
- 4. Implementation:** How governments seriously execute their regulations, law in AI toward social good. Respects and commits to widely accepted principles and rules of international law. Promotes and engages with non-profits, academic institutions, and corporations collaborate and establish ethical AI principles. Ensures AI is developed and used in line with basic principles of Democracy, Human Rights and the Rule of Law.

Methodology: Governments will be assessed in each category by the standards of the moment. AI is in an early stage, and governments are only beginning to address the issue through, for example, laws and regulations. Later on, as governments have had more time to assess the implications of AI, more substantial efforts will be expected—for example, a more fully articulated set of AI-related laws and regulations.

Criteria for evaluation and control of ethics in AI

- *Data sets: how to collect, where, whom, for what, by what. Data sets using for AI require accuracy, validation and transparency.*

+ Disclose what data they collect, from which sources, how data is collected (techniques & models) and will be used, the purposes for which it is used.

+ Have methods to encourage the development of testing data sets.

+ Clearly communicate and publicize governance programs or risk assessment tools to detect and remedy any possible discriminatory effects of the data and models used.

- *Algorithm: transparency, fairness, non-bias.*

+ Accountable algorithms must follow proposed principles: responsibility, transparency, accuracy, auditability, and fairness. The collection, use, and management of data by AI algorithms should follow ethical principles that promote fairness and to avoid unjust impacts on people, particularly those related to sensitive characteristics such as race, ethnicity, gender, nationality, income, sexual orientation, ability, and political or religious belief.

- *Intended impacts: for what, for whom, goals and purpose*

+ Clearly communicate about intended impacts of developing and using AI. Avoid AI implementation that cause or contribute to adverse impacts to human.

+ Seek to prevent or mitigate adverse impacts to human. Provide for effective remediation of any impacts caused by data practices.

+ Procure and deploy risk assessment tools to govern their adoption and create frameworks for assessing impact.

- *Transparency in national resources:*

+ Publicize the identity of responsible departments for AI policy, and government AI projects' implementation.

+ Publicize expenditures, the state budget on AI issues.

- *Refrains from investing in harmful uses of AI:*

+ Do not design or deploy AI in the following application areas: Weapons or technologies that are likely to cause harm to humanity, have purpose of causing or facilitating injury to human, technologies that gather or use information for surveillance violating internationally accepted norms, or technologies that are against widely accepted principles of international law and human rights.

- *Responsibility for mistakes:* It must be clear where liability lies when systems make mistakes. General principles should guide accountability.
- *Transparency in decision making:* It must be clear when AI systems need to explain their actions to humans to show why a decision was made, and when, if ever, such transparency is not necessary.
 - + Ensures AI is developed and used in line with basic principles of Democracy, Human Rights and the Rule of Law. The political ethics of developing AI as a key tool to serve and strengthen Democracy,

Human Rights and the Rule of Law, rather than allowing AI or even intentionally developing it to undermine.

- *Avoiding bias* - Steps must be made to stop systemic bias. Core values such as equality, diversity and lack of discrimination must be promoted.
- *Core ethical values* - What are the core ethical values of AI to be?
- *Data protection and Intellectual Property* - The importance of data protection, IP ownership and cyber security must be recognized and balanced against the need to use data to promote innovation.
- *Mitigating social dislocation* - The codes should confront what obligations rest on actors who deploy AI to mitigate the social dislocation that results.
- *Cybersecurity* - The need for strong protection against hacking will increase as AI systems take a heightened role in society.

Part III: Announcement of the Government AIWS Ethics Index at AIWS Festival 2019

On April 25, 2019, the Michael Dukakis Institute for Leadership and Innovation will organize the AIWS Festival event at Loeb House, Harvard and publish the Government AIWS Ethics and Practices Index. This is the focused work which belongs to the AIWS Initiative developed by the Michael Dukakis Institute in cooperation with AI World and influential researchers in the field.

On this event, the Michael Dukakis Institute hope to propose to global government leaders, but first and foremost, to heads of G7, OECD countries and countries with a population of over 80 million – the pioneers in the industrial revolution we are currently embarking on. We hope that government leaders from G7 & OECD countries would consider apply the Government AIWS Ethics Index and in the near future, the index will contribute to the global consensus in AI development.

We also hope to make contribution to the notion of dealing with these AI international problems through the United Nation. It's the United Nations, who plays a key role in regulating the actions of governments as well as people towards the aim of maintaining international peace & security and promoting co-operation between countries.

Appendix: The situation of G7, European Union and major governments

At the moment, all governments are only beginning to address the issues related to AI through national strategies, laws and regulations. This part summarizes the key policies and goals of strategies, as well as related policies and initiatives that have been announced of G7 (The United States, France, The United Kingdom, Canada, Italy, Germany, Japan), European Union, and major governments in the field of AI (Russia, China, India).

1. The United States

Becoming a leader in the field of AI is one of top priorities of United States. The country also shows determination to pursue this goal through many specific actions and declarations.

On September 7, 2018, the U.S. Department of Defense [announced](#) that it will invest up to \$2 billion over the next five years for the advancement of AI. This will be in addition to existing government spending on AI R&D, which totaled more than \$2 billion in 2017.

To promote these activities, many bills have been introduced in Congress that mention or focus on AI. There are at least nine bills that relate to autonomous driving, including [The SELF DRIVE Act](#) introduced in the House on July 25, 2017. This bill establishes the federal role in ensuring the safety of highly automated vehicles by encouraging the testing and deployment of such vehicles. The Department of Transportation must require safety assessment certifications for the development of a highly automated vehicle or an automated driving system.

Some bills relate to the economic impacts of AI. [The Innovation Corps Act of 2017](#), introduced in the House on March 16, 2017, requires the Department of Commerce to establish a competitive program to make grants to institutions of higher education to establish or enhance education programs that retrain workers displaced from their jobs by automation to provide such workers with skills needed for jobs in STEM fields. [The AI JOBS Act](#), introduced in the House on January 18, 2018, requires the Department of Labor to prepare and submit to Congress a report on AI and its impact on the workforce.

Other bills address the technology and implications of AI itself, including [The FUTURE of AI Act 2017](#) (introduced in both the House and Senate on December 12, 2017) which requires the Secretary of Commerce to establish a Federal Advisory Committee on the Development and Implementation of AI, [The National Security Commission on Artificial Intelligence Act](#) (introduced in the House on March 20, 2018) which considers the creation of an independent panel to explore advances in AI and assess their economic and national security impacts, etc.

At the state and local levels, many AI-related bills have been introduced. On August 30, 2018, the State of California unanimously adopted legislation in support of the Future of Life Institute's [Asilomar AI Principles](#) – a set of 23 principles intended to promote the safe and beneficial development of AI. Enacted on January 11, 2018, [The New York Algorithm Monitoring Task Force](#) of The New York City Council requires the creation of a task force that studies how city agencies use algorithms to make decisions that affect New Yorkers' lives. In December 2017, Supervisor David Canepa drafted a [resolution](#) calling for ban on development and use of autonomous weapons.

However, steps towards AI policy in the U.S. were first seen in the Obama administration. Since 2016, President Obama’s White House published three globally influential reports, including “[Preparing for the Future of Artificial Intelligence](#),” “[The National Artificial Intelligence Research and Development Strategic Plan](#),” and “[Artificial Intelligence, Automation, and the Economy](#).” The first report made specific recommendations related to AI regulations, public R&D, automation, ethics and fairness, and security. The second report outlined a strategic plan for publicly funded R&D in AI. The final report examined in further detail the impact of automation and what policies are needed to increase the benefits of AI and mitigate its costs.

President Trump’s White House has taken a free market-oriented approach to AI. He was the first U.S. president to specifically name AI as an Administration R&D priority in his 2019 Budget Request to Congress. In the coming time, the government will focus on removing regulatory barriers to innovation so that American companies have the flexibility to innovative and grow.

Michael Kratsios, Deputy Assistant to the President for Technology Policy, [announced](#) the U.S. Government has four goals:

- (1) maintain American leadership in AI;
- (2) support the American worker;
- (3) promote public R&D;
- (4) remove barriers to innovation.

To achieve these objectives, a new [Select Committee on Artificial Intelligence](#) was established to advise the White House on interagency AI R&D priorities and to consider the creation of Federal partnerships with industry and academia. Another commission, [National Security Commission on Artificial Intelligence](#), will also review ethical issues and national security risks associated with AI and machine learning technologies. Meanwhile, in July 2018, the Pentagon announced a new [Joint AI Center](#) that will have oversight over the majority of service and defense agency AI efforts.

2. Canada

The Canadian government launched [the Pan-Canadian Artificial Intelligence Strategy](#) in its [2017 Budget](#) with the allocation of C\$125 million to invest in AI research and talent in five years.

Being the first country to release a national AI strategy, Canada has four major goals in the AI strategy:

- (1) increase the number of AI researchers and graduates;
- (2) establish three clusters of scientific excellence;
- (3) develop thought leadership on the economic, ethical, policy, and legal implications of AI;
- (4) support the national research community on AI.

This AI strategy is distinct from other strategies because it is primarily a research and talent strategy. It’s initiatives—the new AI Institutes (including [the Alberta Machine Intelligence Institute](#) in Edmonton, [the](#)

[Vector Institute](#) in Toronto, and [MILA](#) in Montreal), [CIFAR Chairs in AI](#), and the National AI program—are all geared towards enhancing Canada’s international profile as a leader in AI research and training.

3. Germany

Germany's national AI strategy is expected to be published at the Digital Summit 2018 in Nuremberg (December 3–4). In July 2018, Germany’s federal cabinet released a paper "[AI made in Germany](#)" that outlines the goals of the national strategy to strengthen and expand German and European research in AI and focus on the transfer of research results to the private sector and the creation of AI applications. According to the paper, the German government has set aside around €3 billion for research and development of AI. Previously, basic research in AI in Germany has been funded by the German Research Foundation (DFG) with more than EUR 3 billion annually, while applied AI has been funded continuously by the Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung - BMBF), for a total of €215 million in the past thirty years (1988-2018).

The government pursues three key goals with the Artificial Intelligence Strategy:

- (1) Germany and Europe are to become leaders in the development and application of AI technologies. Germany’s competitiveness is to be underpinned.
- (2) With the strategy, it is to be ensured that the development and use of AI is responsible and that it is pursued for the common good.
- (3) Within the framework of a broad dialogue within society and active political steering, AI is to be firmly anchored in society in ethical, legal, cultural and institutional terms.

The proposed plan is quite comprehensive and also includes measures to attract international talent, respond to the changing nature of work, integrate AI into government services, make public data more accessible, and promote the development of transparent and ethical AI.

In June 2017, the German Federal Ministry of Transport and Digital Infrastructure (BMVI) published ethical guidelines for self-driving cars in a report titled, "[Ethics Commission: Automated and Connected Driving](#)," which defines 20 ethical rules for automated and connected vehicular traffic.

Moreover, in September 2018, [the Data Ethics Commission](#) created by the Federal Government. The Commission has a mandate to develop recommendations for law and ethics of AI until October 2019.

4. The United Kingdom

With the intention for the UK to be the global leader in AI, the UK government [announced](#) it will invest over £300 million in private sector investment from domestic and foreign technology companies, expand the Alan Turing Institute, create Turing Fellowships, and especially launch the Centre for Data Ethics and Innovation.

In June 2017, The Parliament established [the Select Committee on AI](#) to further consider the economic, ethical and social implications of advances in artificial intelligence, and to make recommendations. In April 2018, the Committee published a report, "[AI in the UK: ready, willing and able?](#)" which considers AI development and

governance in the UK. It acknowledges that the UK cannot compete with the US or China in terms of funding or people, but suggests the country may have a competitive advantage in considering the ethics of AI such as:

- (1) AI should be developed for the common good and benefit of humanity;
- (2) AI should operate on principles of intelligibility and fairness;
- (3) AI should not be used to diminish the data rights or privacy of individuals, families or communities;
- (4) all citizens have the right to be educated to enable them to flourish mentally, emotionally and economically alongside AI;
- (5) the autonomous power to hurt, destroy or deceive human beings should never be vested in AI.

Another organization, [Centre for Data Ethics and Innovation](#), was established to review the existing governance landscape and advise the government on ethical, safe and innovative uses of data, including AI. [And All Party Parliamentary Group on Artificial Intelligence](#) is to address ethical issues, social impact, industry norms, and regulatory options for AI in Parliament.

The UK government also launched a [Sector Deal for AI](#) to advance the UK's ambitions in AI consistent with its Industrial Strategy, and taking into account the advice of the Parliament's Select Committee on AI.

5. France

"We have to be in a position to build, in France and in Europe, an artificial intelligence ecosystem," President Emmanuel Macron said in a [speech](#). "We should have a policy of open data," he added, and "have to think on the subject from a political and ethical point of view ... to come up with a common understanding and rules."

With an investment of nearly €1.5 billion euros for AI until 2020, President Macron aims to do nothing less than to lead his country into the age of AI and erase 30 years of underperformance on innovation. Details for the following have not been released, but €700 million will go towards research, €100 million this year to AI startups and companies, €70 million annually through France's Public Investment Bank, and €400 million to industrial projects in AI.

His plan consists of four components:

- (1) announce several initiatives to strengthen France's AI ecosystem and attract the international talent. Key among them was the announcement of the National Artificial Intelligence Programme, which will create a network of four or five research institutes across France.
- (2) develop an open data policy to drive the adoption and application of AI in sectors where France already has the potential for AI excellence, such as healthcare;
- (3) the government will create a regulatory and financial framework to support the development of domestic "AI champions;"
- (4) the government will develop regulations for ethics to ensure that the use and development of AI is transparent, explainable, and non-discriminatory.

Another key aspect of President Macron's plan is to lure French AI researchers, many of whom occupy top positions in Silicon Valley, back to France.

France has also a national strategy for AI called "AI for Humanity," which is outlined in the "Villani Report" titled, "[For a Meaningful Artificial Intelligence](#)," which was unveiled in March 2018 with seven primary themes:

- (1) developing an aggressive data policy (to improve access to big data);
- (2) targeting four strategic sectors (healthcare, environment, transport, and defense), but President Macron only talked about the potential of AI for healthcare and transportation;
- (3) boosting the potential of French research (and investing in talent);
- (4) planning for the impact of AI on labour,
- (5) making AI more environmentally friendly;
- (6) opening up the black boxes of AI;
- (7) ensuring that AI supports inclusivity and diversity.

Another algorithm-related report, titled, "[HOW CAN HUMANS KEEP THE UPPER HAND? The ethical matters raised by algorithms and artificial intelligence](#)," highlighted two founding principles to "put AI at the service of humans," including "A principle of loyalty" and "A principle of continued attention and vigilance." The report also made six policy recommendations involving education about ethics, improving interpretability and auditability of AI systems, and promoting human freedom.

6. Italy

Italy has a great tradition in AI. In March 2018, Italy published a white paper titled, "[Artificial Intelligence: At the service of citizens](#)," which focus on research and development or private sector uptake. It recommends about how to develop better public services with the use of AI that could help eliminate inequalities and measure impact, and describes ethical, legal, technological, and cultural challenges.

The white paper was created by an [AI Task Force](#), launched in September 2017 by [the Agency for Digital Italy](#). The goals of the AI Task Force are to analyze the use of AI in public administration to enhance the quality of services offered to citizens, define the potential of AI services and applications, and explore the ethical and social implications of the use of AI.

Moreover, in July 2018, a consortium of universities and research centers in Italy united to create a new national laboratory for AI, [National Laboratory of Artificial Intelligence and Intelligent Systems \(CINI-AIIS Lab\)](#), which aims to contribute to ongoing national scientific and technological initiatives such as the National Clusters and Competence Centers of the Enterprise 4.0 program, as well as to industrial research and Public Administration activities.

7. Japan

Japan developed a national AI strategy [Artificial Intelligence Technology Strategy](#) and released it in March, 2017. Japan is planning to increase its science and innovation budget by JPY900 billion by 2020 for AI. Different Japanese ministries are also funding R&D centers, e.g., Ministry of Economy, Trade and Industry (METI) is funding R&D center at the National Institute of Advanced Industrial Science and Technology (AIST). The strategy shows Japan's Industrialization Roadmap, which envisions AI as a service and organizes the development of AI into three phases: The strategy applies this framework to three priority areas of Japan's Society 5.0 Initiative— productivity, health, and mobility—and outlines policies to realize the industrialization roadmap. In June 2018, the Japanese government announced that artificial intelligence would also become an official part of its “integrated innovation strategy.”

Based on instructions issued by the Prime Minister in “Public-Private Dialogue towards Investment for the Future” in April 2016, the national government established the “Strategic Council for AI Technology”. The Council, acting as a control tower, has come to manage 5 National Research and Development Agencies that fall under the jurisdiction of the Ministry of Internal Affairs and Communications, Ministry of Education, Culture, Sports, Science and Technology, and Ministry of Economy, Trade and Industry:

On July 28, 2017, Japan published [Draft AI R&D GUIDELINES for International Discussions](#) in preparation for the Conference toward AI Network Society. Principles mainly concerning mitigation of risks associated with AI systems with 9 principles: Principle of collaboration, Principle of transparency, Principle of controllability, Principle of safety, Principle of security, Principle of privacy, Principle of ethics (respect human dignity and individual autonomy), Principle of user assistance, Principle of accountability.

8. China

China has announced its ambition to become a world leader in A.I. by 2030 in the national strategy [A Next Generation Artificial Intelligence Development Plan](#) divided in 3 steps (By 2020: reach globally advanced levels, By 2025: Achieve some world-leading breakthroughs, By 2030: become the world leader in AI by 2030). The report outlines China's strategy to build a domestic AI industry worth nearly US\$150 billion, with four major tasks:

- (1) focus on developing intelligent and networked products such as vehicles, service robots, and identification systems;
- (2) emphasize the development AI's support system, including intelligent sensors and neural network chips;
- (3) encourage the development of intelligent manufacturing;
- (4) improve the environment for the development of AI by investing in industry training resources, standard testing, and cybersecurity.

In China, governments play a deliberate and explicit role in funding scientific research (giving US\$800,000 to US\$ 1 million in subsidies to AI companies). Individual ministries and departments are responsible for implementing AI solutions across different sectors. China's government has also partnered with large private companies including Baidu and Tencent to undertake fundamental and applied research across different AI topics, e.g., Baidu is working with the Chinese government to develop brain-inspired intelligent technology.

In its national strategy report, China also shows plan to establish of artificial intelligence laws and regulations, ethical norms and policy systems, and form artificial intelligence safety assessment and control capabilities; standards and the intellectual property system for AI technology; safety supervision and evaluation systems for AI. "One group of Chinese leader is increasingly engaged with issues of AI safety and ethics. A wide range of Chinese AI researchers are also involved with translating the IEEE's Ethically Aligned Design report, as part of the Global Initiative for Ethical Considerations in Artificial Intelligence. However, some Chinese AI leaders dismiss calls for regulation and philosophizing." ([Deciphering China's AI Dream](#))

The Chinese Government proposed in 2014 an extensive data collection system called the Social Credit System, which will monitor every action Chinese citizen perform by collecting vast amounts of data online, and then provide a score to measure how trustworthy each individual is, based on political, social, commercial and legal credit. If all goes well in the current planning and test phase the system will be fully implemented by 2020 and will enlist every citizen living and every company operating in China. This proposal of China raises various ethical and societal questions.

9. Russia

Though Russia has not had an official national strategy, Ministry of Education and Science of the Russian Federation, or MES; and the Russian Academy of Sciences released an ambitious [10-point plan](#) in March, 2018, which recommends steps for prospective development of artificial intelligence in the country's federal and academic bodies. With assertion of President Vladimir Putin that "whoever becomes the leader in this sphere [AI] will become the ruler of the world", the Russian government is increasingly developing and funding various AI-related projects, many under the auspices of the Ministry of Defense and its affiliated institutions and research centers. At the moment, Russia's annual [domestic investment in AI](#) is estimated probably around 700 million rubles (\$12.5 million) – a paltry sum next to the billions being spent by American and Chinese companies.

Russia has [advocated](#) for military uses of AI and been dismissive of ongoing deliberations at the United Nations to prohibit lethal autonomous weapon systems. Moreover, President Trump's [National Security Strategy](#) of the U.S in December, 2017 mentioned the problem that "Russia uses information operations as part of its offensive cyber efforts to influence public opinion across the globe. Its influence campaigns blend covert intelligence operations and false online personas with state-funded media, third-party intermediaries, and paid social media users or 'trolls'."

10. India

In June 2018, the Indian government released "[National Strategy for Artificial Intelligence #AIforAll](#)." The NITI Aayog paper identifies its national purpose: (1) enhance and empower Indians with the skills to find quality jobs; (2) invest in research and sectors that can maximize economic growth and social impact; and (3) scale Indian-made AI solutions to the rest of the developing world. Overall, the strategy determines to establish India as an "AI Garage" for emerging and developing economies.

NITI Aayog, the government think tank provides over 30 policy recommendations to invest in scientific research, encourage reskilling and training, accelerate the adoption of AI across the value chain, and promote ethics, privacy, and security in AI. Its flagship initiative is a two-tiered integrated strategy to boost research in AI. First, new Centre of Research Excellence in AI (COREs) will focus on fundamental research. Second, the COREs will act as technology feeders for the International Centre for Transformational AI (ICTAIs), which will focus on creating AI-based applications in domains of societal importance.

About the problem of ethics, the report recommends setting up a consortium of Ethics Councils at each CORE and ICTAI, developing sector specific guidelines on privacy, security, and ethics.

In the Union budget 2018, the Indian government allocated \$480 million to fifth generation technology startups like artificial intelligence, machine learning (ML), Internet of Things (IoT), 3D printing and blockchain, committed to the vision and mission of making 'Digital India' a reality.

11. The European Union

The European Union is a political and economic union of 28 member states that are located primarily in Europe and has the European Commission in Brussels as Executive and body of political initiative.

In April 2018, the European Commission has presented a Strategy Communication for AI in Europe, known "[The European AI Alliance.](#)" In December, the European Commission will also publish a related action plan.

Ethics and legal regulation of AI is at the core of the European Union Strategy, and one key part of law effectively regulation AI is the General Data Protection Regulation which applies whenever AI works with personal data. It gives people far going rights to maintain control of their personal data, such as a right to deletion, and far going information rights, such as a right to understand programmes such as AI which are treating their personal data and how these programmes reach decisions, in case of automated decision making. They also have the right under [the EU General Data Protection Regulation \(GDPR\)](#) to object to automated decisions and require human intervention.

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