



Artificial Intelligence for Transportation

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Executive Order on Maintaining American Leadership in Artificial Intelligence

- **Issued on February 11, 2019**
- **Purpose:** To sustain and enhance the scientific, technological, and economic leadership position of the United States in Artificial Intelligence Research and Development (AI R&D) and the deployment through a coordinated Federal Government strategy.



Executive Order on Maintaining American Leadership in Artificial Intelligence

- **Coordination:** The Initiative shall be coordinated through the National Science and Technology Council (NSTC) Select Committee on Artificial Intelligence.
 - The coordination shall be implemented by agencies that conduct foundational AI R&D, develop and deploy applications of AI technologies, provide educational grants, regulate, and/or provide guidance for applications of AI technologies, as determined by the co-chairs of the NSTC Select Committee.



The Five (5) Guiding Principles

- 1. Drive technological breakthroughs in AI** across the Federal Government, industry, and academia in order to promote scientific discovery, economic competitiveness, and national security.
- 2. Drive development of appropriate technical standards and reduce barriers to the safe testing and deployment of AI technologies** in order to enable the creation of new AI-related industries and the adoption of AI by today's industries





The Five (5) Guiding Principles

- 3. Train current and future generations of American workers with the skills to develop and apply AI technologies** to prepare them for today's economy and jobs of the future.
- 4. foster public trust and confidence in AI technologies** and protect civil liberties, privacy, and American values in their application in order to fully realize the potential of AI technologies for the American people.
- 5. promote an international environment that supports American AI research and innovation and opens markets for American AI industries**, while protecting our technological advantage in AI and protecting our critical AI technologies from acquisition by strategic competitors and adversarial nations.





Federal Investment in AI R&D

Based on the Executive Order:

1. The USDOT has started considering Artificial Intelligence with respect to transportation as an agency **research & development priority through a multimodal AI Task Force.**
2. The USDOT AI Task Force has started taking AI R&D priority into account as we develop **budget proposals and planning for the use of funds in Fiscal Year 2020 and in future years**, as well as increasing funding where applicable in Fiscal Year 2019.





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