Artificial Intelligence for Transportation

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Executive Order on Maintaining American Leadership in Artificial Intelligence

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- **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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