

FACT SHEET

US Department of Transportation Opportunities and Challenges of Artificial Intelligence (AI) in Transportation Request for Information

Background:

On May 3, 2024, the US Department of Transportation (DOT)'s Advanced Research Projects Agency-Infrastructure (ARPA-I) posted a request for information on the use of artificial intelligence (AI) in transportation. The agency seeks information on applications of AI in transportation, as well challenges and opportunities in deploying AI technologies across all modes of transportation.

The Advanced Research Projects Agency-Infrastructure (ARPA-I) is an initiative by DOT designed to tackle challenges in America's transportation systems using advanced research and technologies, including AI.

ARPA-I's notice outlines several key questions for consideration including:

1. What are the key current or near-term AI applications in transportation and which modes do they involve? Please mention how these applications align with DOT's priorities like safety, sustainability, equity, economic strength, and transformation.
2. What future opportunities can AI unlock in transportation? Identify the modes covered and how these opportunities align with DOT priorities like safety, sustainability, and equity.
3. What are the challenges and risks of using AI in transportation, and what might hinder its responsible adoption? Mention the transportation modes involved and how these challenges relate to DOT's priorities like safety and sustainability.
4. What are the opportunities, challenges, and risks of AI related to autonomous mobility ecosystems, including software-defined AI enhancements? Describe how AI can responsibly facilitate autonomous mobility, including specifically safety considerations.
5. What additional considerations should be addressed in AI for transportation, beyond the issues already discussed? This may include topics like AI R&D funding priorities, data access, AI testbeds, infrastructure needs, and workforce training.

Resources:

- *Public comments are due by July 2, 2024.*
- Read the notice [here](#).

Contact ARTBA's Prianka Sharma at psharma@artba.org for more information.