

Preparing the Transportation Workforce for the Future

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The Challenge – from 2012 to 2022

- Transportation is projected to add 417,000 net jobs due to industry growth
- The average employment growth rate of 11% across transportation subsectors is similar to that of the entire economy (10.8%) and of the infrastructure industry (11%) which includes transportation, logistics, water, energy, telecommunications, and public works
- An additional 4.2 million transportation workers will need to be hired to fill vacancies created by separations

The Challenge

- Difficulty in recruiting women and minorities to the transportation workforce
- Initiatives around the country promoting transportation careers; but there seems to be little coordination

The Challenge

- Combining growth and separations...

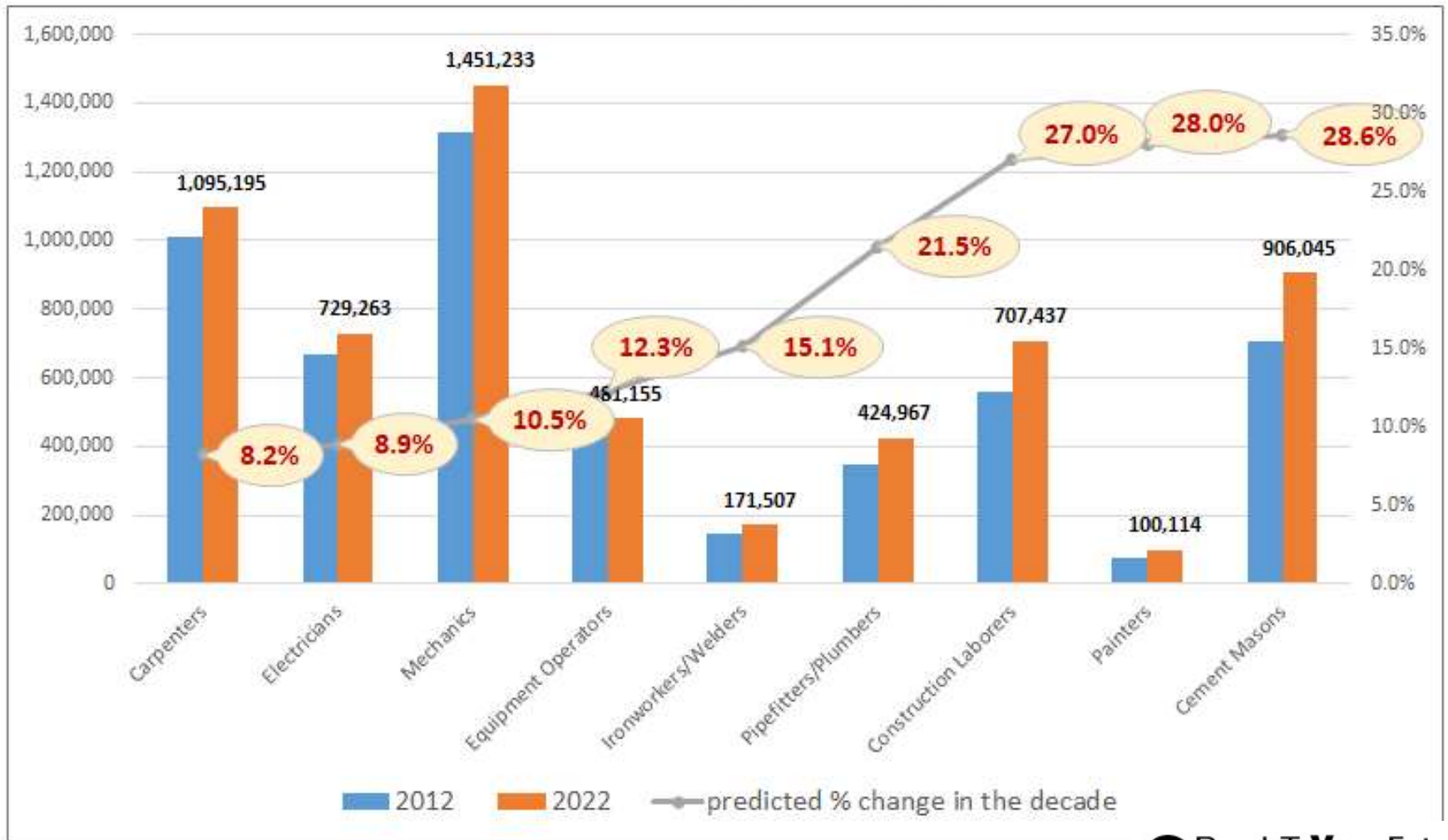
The transportation industry employers will need to hire approximately 4.6 million workers, an equivalent of 1.2 times the current transportation employment

- Transit and ground passenger transportation have the highest percentage of total job openings at 133%
- Developing a qualified and trained workforce will be a critical task



The Challenge

Bureau of Labor Statistics (BLS) project change in demand for skill sets



Emerging Skills

- Identify of Emerging Skills
- Develop of the Capacity to Integrate Them into the Industry
- Develop Needed Training
- Implementation of Training



Future Technologies & Trends

- Autonomous Vehicles
- Next-Gen GPS Devices
- High-Speed Rail Networks
- Gyroscopic Vehicles
- Connected Vehicles & Smart Infrastructure
- Advanced Analytics and Machine Learning
- Unmanned Aircraft Systems (aka Drones)
- Additive Manufacturing (3D Printing)



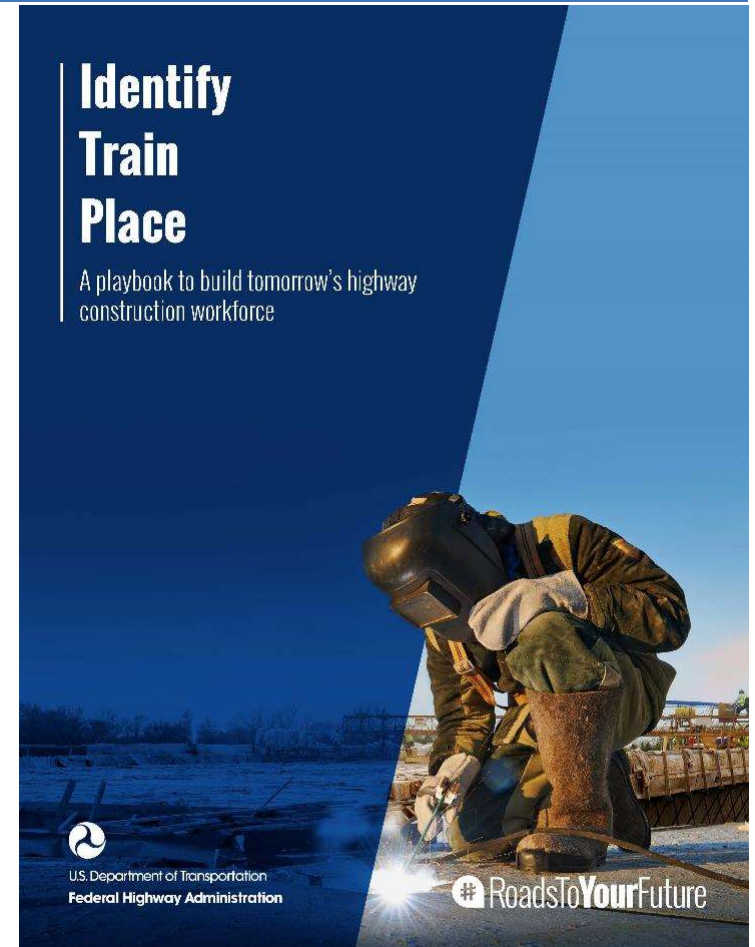
Future Technologies & Trends (cont...)

- Hyperloop
- Weather-Response Strategies
- Radio Frequency Identification (RFID)
- Water-fueled Cars
- Commercial Space Flight
- Advanced Geotechnical Methods in Exploration
- Crowdsourcing for Operations



Partnerships

- Establish Working Partnerships
 - Transportation Industry (Private Industry)
 - Academia
 - Federal, State, and Local Government



The Playbook



Other Efforts

NCHRP

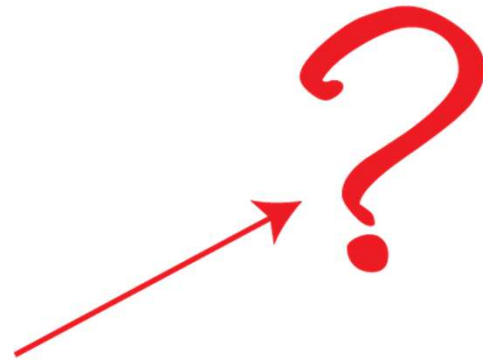
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Questions & Conclusion



Any Questions?



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