SUSTAINABLE

AVEMENTS



#### Vision and Mission

- To advance the knowledge and practice of designing, constructing, and maintaining more sustainable pavement through:
  - -Stakeholder engagement -Education
  - -Development of guidance and tools

**Key Takeaways**  Definition and characteristics of pavement sustainability · Benefits of moving toward sustainable pavement systems Sustainable Pavements and Current sustainability practices the Pavement Life Cycle · Emerging trends and technologies Tools to measure and quantify sustainability

https://www.fhwa.dot.gov/pavement/sustainability/ref\_doc.cfm



# SUSTAINABLE PAVEMENTS

SUSTAINABLE PAVEMENTS

## **Definition: Sustainable Pavements**

- Achieve the engineering goals.
  Preserve and (ideally) restore surrounding ecosystems.
- 3. Use financial, human, and environmental resources wisely.
- 4. Meet basic human needs such as health, safety, equity, employment, comfort, and happiness.























## SUSTAINABLE

## Reasons to Measure Sustainability

- Achieving sustainability and performance goals
- Satisfying accounting mandates
- Providing decision support
- Improving agency processes
- Improving public image







