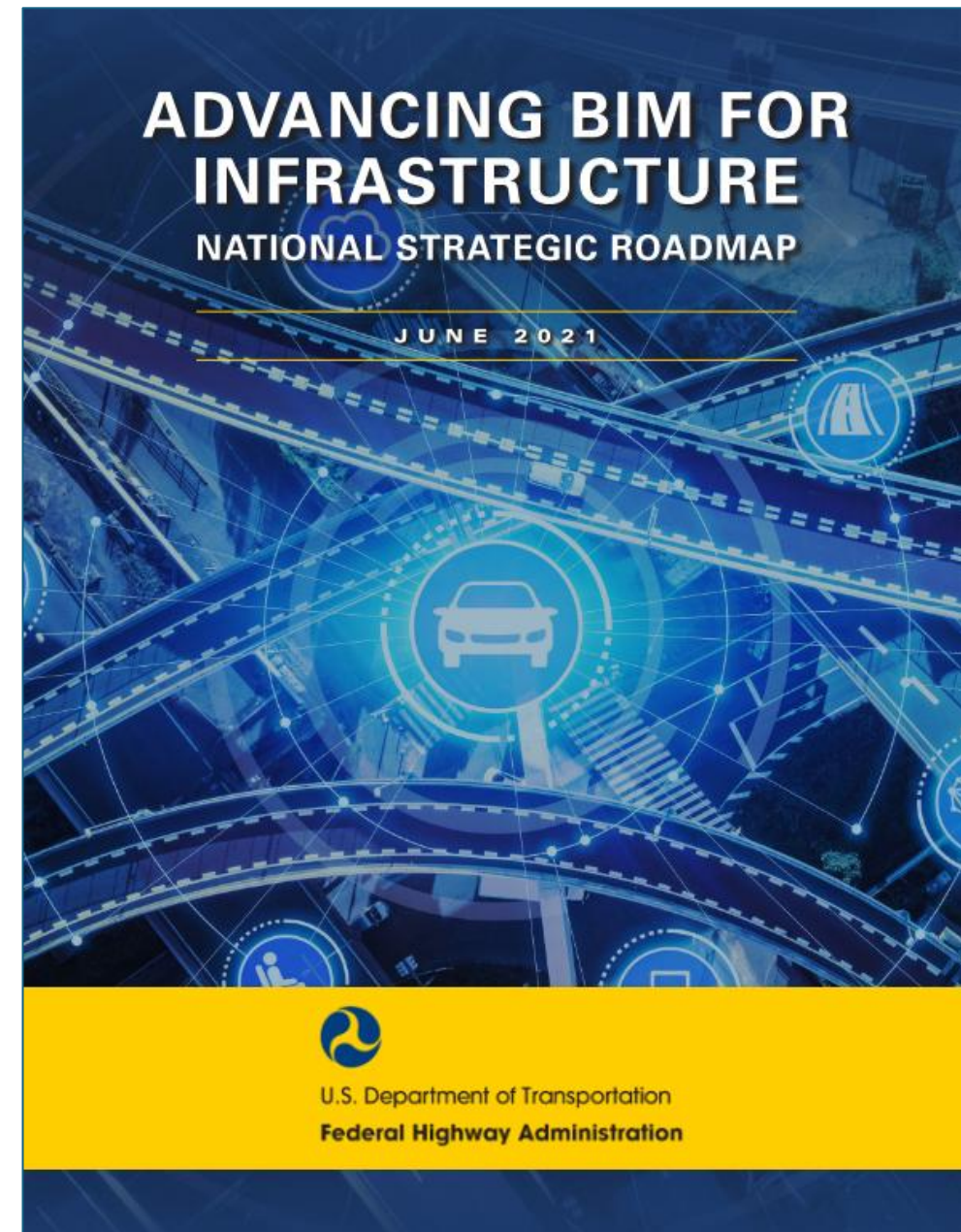


What is the NSR?

- 60-page PDF document published in June 2021
- Collaborative work involving numerous organizations
- Provides a template for DOTs to use to advance BIM for Infrastructure
- Approach is flexible to allow for multiple project workflows
- A ten-year plan, with defined milestones, procedures, recommendations and expectations
- A clear definition of BIM Maturity Levels 0-3
- Available for download at:
<https://www.fhwa.dot.gov/publications/research/infrastructure/pavements/21064/21064.pdf>



What are the NSR's most important features?

Clear definition of
BIM for Infrastructure

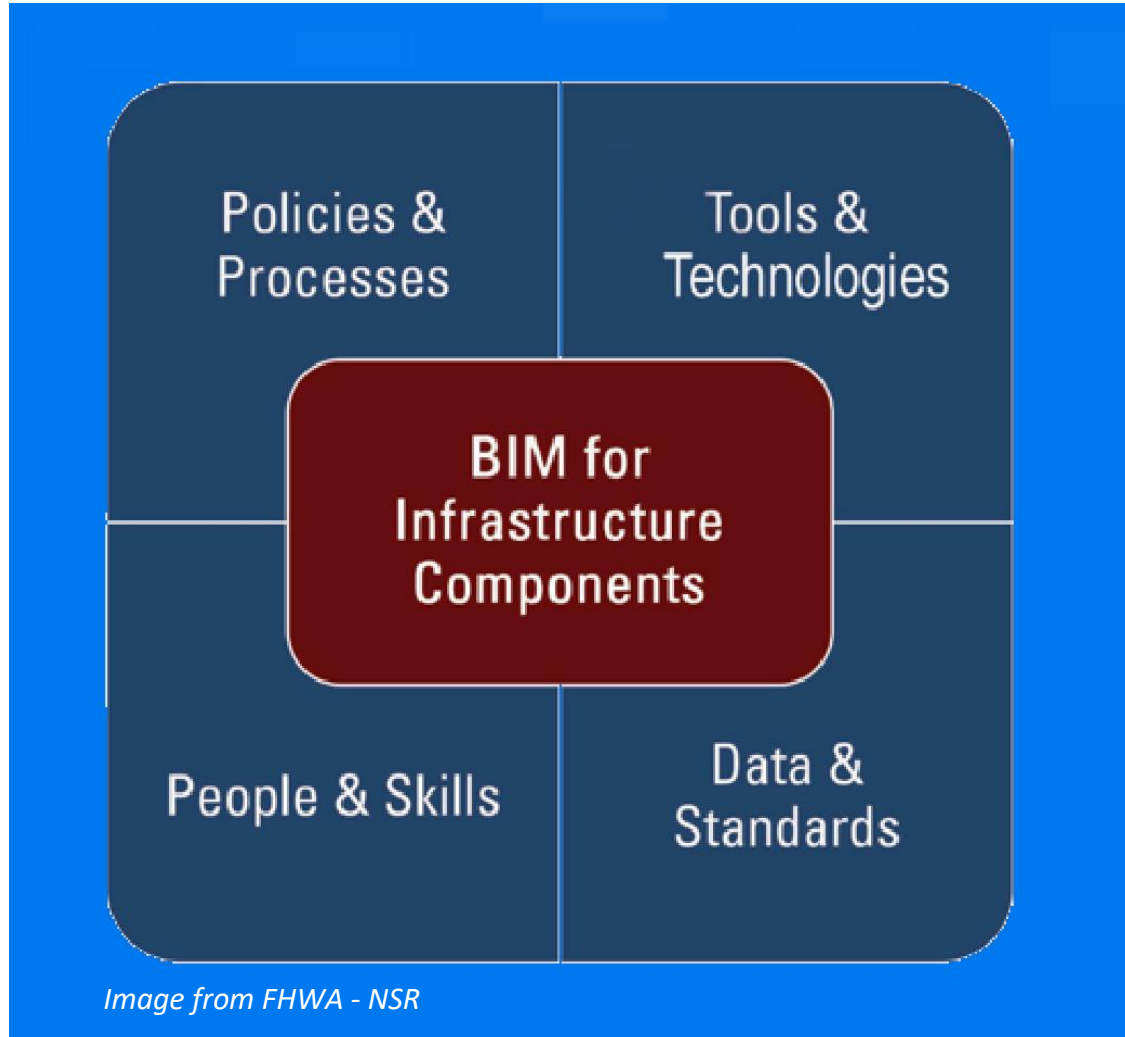
Clear definition of
the benefits and
challenges to
implement BIM for
Infrastructure

Clear definition of
BIM Maturity Levels
0-3

Goal to have all US
DOTs reach BIM
Maturity Level 1, by
2026

Goal to have all US
DOTs reach BIM
Maturity Level 2, by
2031

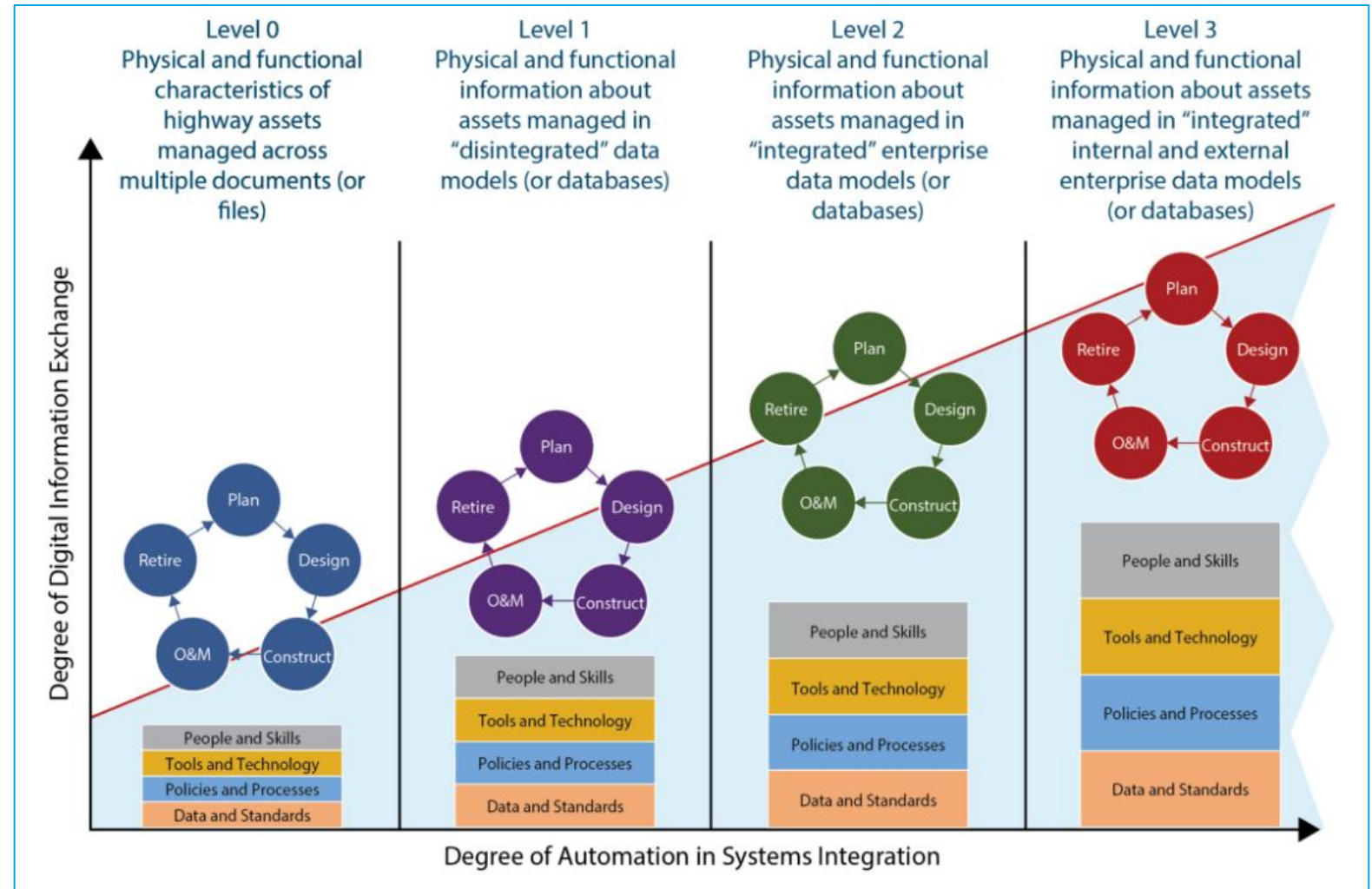
What is BIM for Infrastructure / Digital Project Delivery?



Deliver an accurate, geospatially aware as-built representation of a project, to be maintained throughout the asset's lifetime

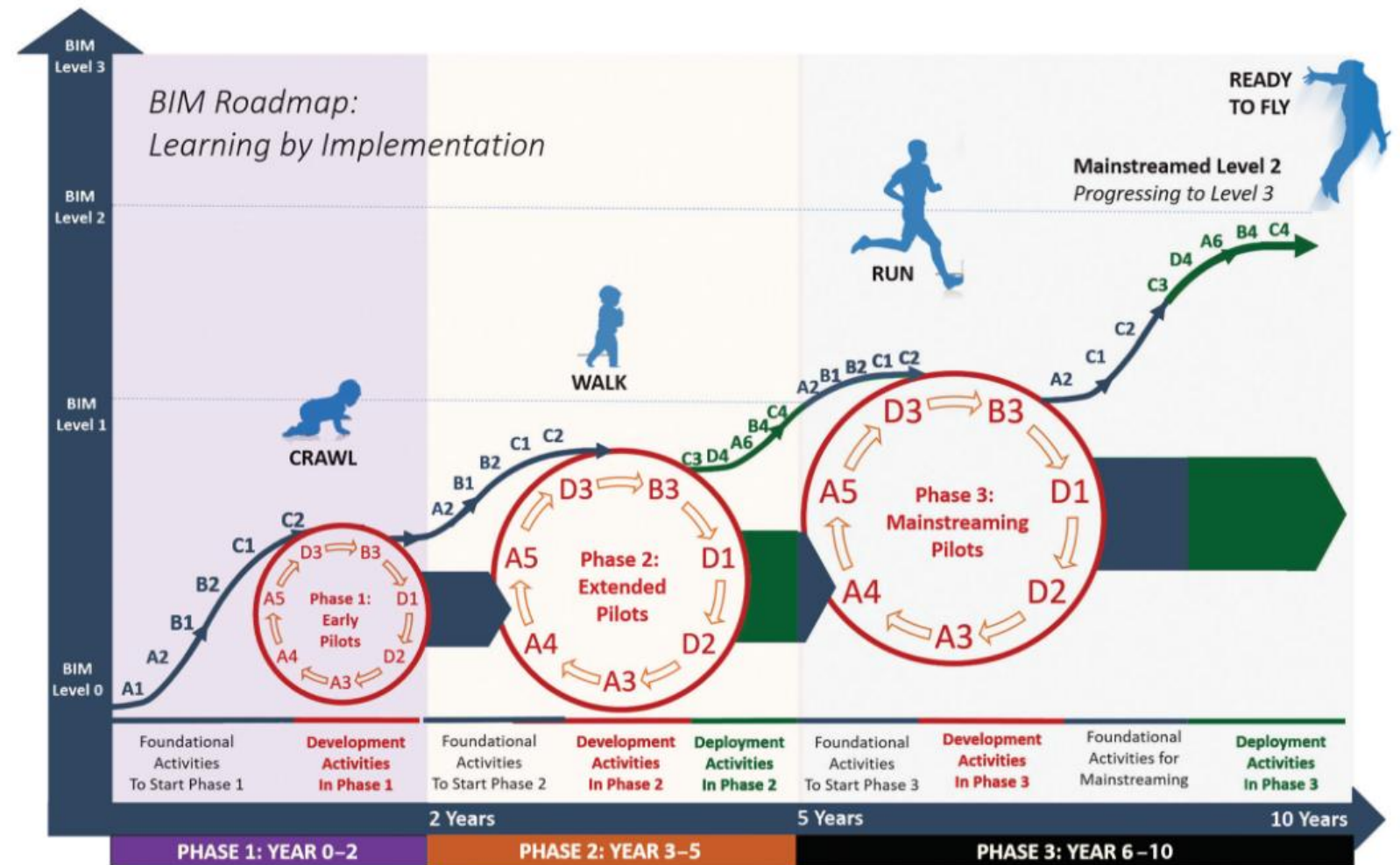
BIM Maturity Levels 0-3 Defined

- **Level 0**
Document Based
- **Level 1**
Non-Integrated
Data Models
- **Level 2**
Integrated Data Models
- **Level 3**
Enterprise Data Models



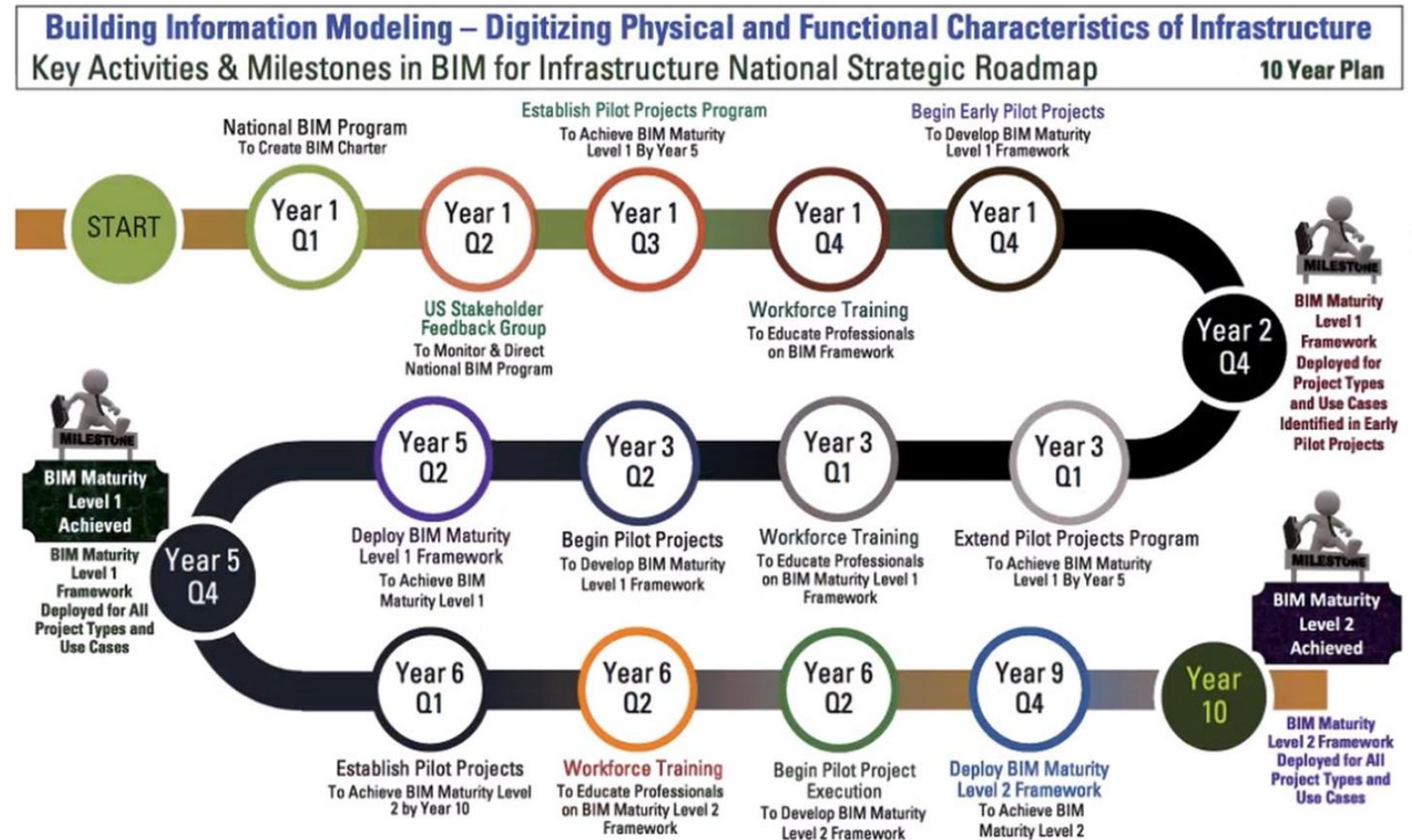
Ten-Year Phased Timeline to reach BML 2

- **Years 0-2**
Short Term:
Pilot Projects Phase
- **Years 2-5**
Medium Term:
Extended Pilot Projects Phase
- **Years 5-10**
Long Term:
Mainstreaming Phase



Time-scaled Roadmap Established

- **Years 0-2**
Short Term:
Pilot Projects Phase
- **Years 2-5**
Medium Term:
Extended Pilot Projects Phase
- **Years 5-10**
Long Term:
Mainstreaming Phase



Begin with the end in mind

State DOTs, in cooperation with their external partners, will have mature BIM processes in place and trained and skilled personnel who use openBIM data standards, information-exchange specifications, and digital workflows to collaborate with each other to create, collect, store, process, share, analyze, and autonomously exchange data and information across a large number of key systems of record, including those related to planning, programming, surveying, design, engineering analysis, contract letting, construction management, asset and maintenance management, GISs, and linear referencing.

What can the DDSG do to help us get there?

