GIS Tools for Displaying 4-Year Plan Projects
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TxDOT District Pavement Engineer develops a 4-year plan for their District each year based on PMIS data and other criteria, and usually meets with the Area Engineers to finalize the 4-year plans. A mapping tool based on ArcGIS is developed to help this process.

Methodology
- **Data Acquisition**
  - PMIS database
  - 4-year plan list
  - Candidate list

- **Data Process**
  - Check validation
  - Calculate B-DFO and E-DFO
  - Clean data format

- **Data Mapping**
  - Desktop version
  - Publish desktop version map online
  - Online version

Map Demonstration — Online Version
The online version tool does not require ArcGIS software. It is a web-based tool.
- Currently can be accessed at: [http://146.6.92.8/austin_map_new2/](http://146.6.92.8/austin_map_new2/)

Data Process
- **Data Processing**
  - Desktop version
  - Publish desktop version map online
  - Online version

Map Demonstration — Desktop Version
The desk version tool requires ArcGIS software. The layers and corresponding category criteria are:
- **PMIS Condition/Distress Score Layer:**
- **PMIS Skid Score Layer:**
- **PMIS Traffic Information Layer:**
- **4-Year Plan by Fiscal Year/Work Type/Funding Type:**
- **Overlapped Projects of 4-Year Plan and Candidate Projects:**

Conclusions
To summarize, this mapping tool:
- Visualize PMIS database
- Show planned project locations, treatment types and treatment timing to District Administration for further consideration
- Assist TxDOT District Pavement Engineer during meetings with the Area Engineers

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Research Overview

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Conclusions

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