CITY OF OXNARD
INTELLIGENT TRANSPORTATION SYSTEM
CITY COUNCIL PRESENTATION

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• ITS Master Plan finalized in 2008
  • 38 Miles of underground conduit with 32 miles of fiber optic cable and 6 miles of twisted pair copper
  • 38 fixed wireless links
  • All of the City’s traffic signals connected to Traffic Management Center (TMC)
• Phase I Completed in 2013
  • 140 Traffic Signals
  • 18 Closed Circuit TV (CCTV) Cameras
  • 16 Video Detection Systems
• Phase II Completed in 2016
  • 25 Traffic Signals
  • 6 CCTV Cameras
  • 3 City Buildings
• **Traffic Management Center (TMC)**
  
  • The traffic management center is currently used to:
    
    • Identify and troubleshoot traffic signal and intersection lighting issues
  
  • Centralized Software manages traffic signal data including:
    
    • Loop Detection
    • Traffic Signal Timing
    • Coordination/Synchronization
    • Networks
    • Controller Clocks
• **Traffic Management Center (TMC)**
  
  • Centralized Video Processing Software:
    
    - Manages data feeds from CCTV and Video Detection Cameras
    - Used during activation of the Emergency Operations Center to monitor traffic conditions during Winter Storm 1.
The current Intelligent Transportation System has achieved 90% of what was envisioned by the ITS Master Plan.

However, only 50% of what the System is now capable of has been utilized due to technological advancements.

- Through careful master planning and deployment, the System is able to scale using existing equipment.
- The System will be able to evolve over time as needs and technologies change.
Future Improvements:

- Replacement of all twisted-pair copper with fiber optics (approximately 6 miles).
- Installation of conduit to River Park by way of Wagon Wheel Road and Ventura Road to cross U.S. 101.
- Upgrading existing integration software to enhance existing capabilities, including centralized reporting of performance measures, tracking assets and inventory, and enabling connected vehicle infrastructure. Staff will return to council within 6 months with an update on progress.
- Deployment of an adaptive traffic signal system to dynamically alter signal timing on major arterials. Staff will return to council within 6 months with an update on progress.
- Transit priority using existing emergency vehicle preemption equipment
• **Additional Potential Improvements:**

  • Additional CCTV Camera installations.
  • Intersection vehicle detection enhancements.
  • Smart-City initiatives to monitor intersection safety lighting.
  • Anonymous data collection (Bluetooth) systems to monitor Average Daily Traffic (ADT) and corridor travel times in real time.
  • Dynamic message signs with real-time traffic information throughout the City.
• Presentation was provided to the Transportation Policy Committee on February 22, 2018
QUESTIONS?