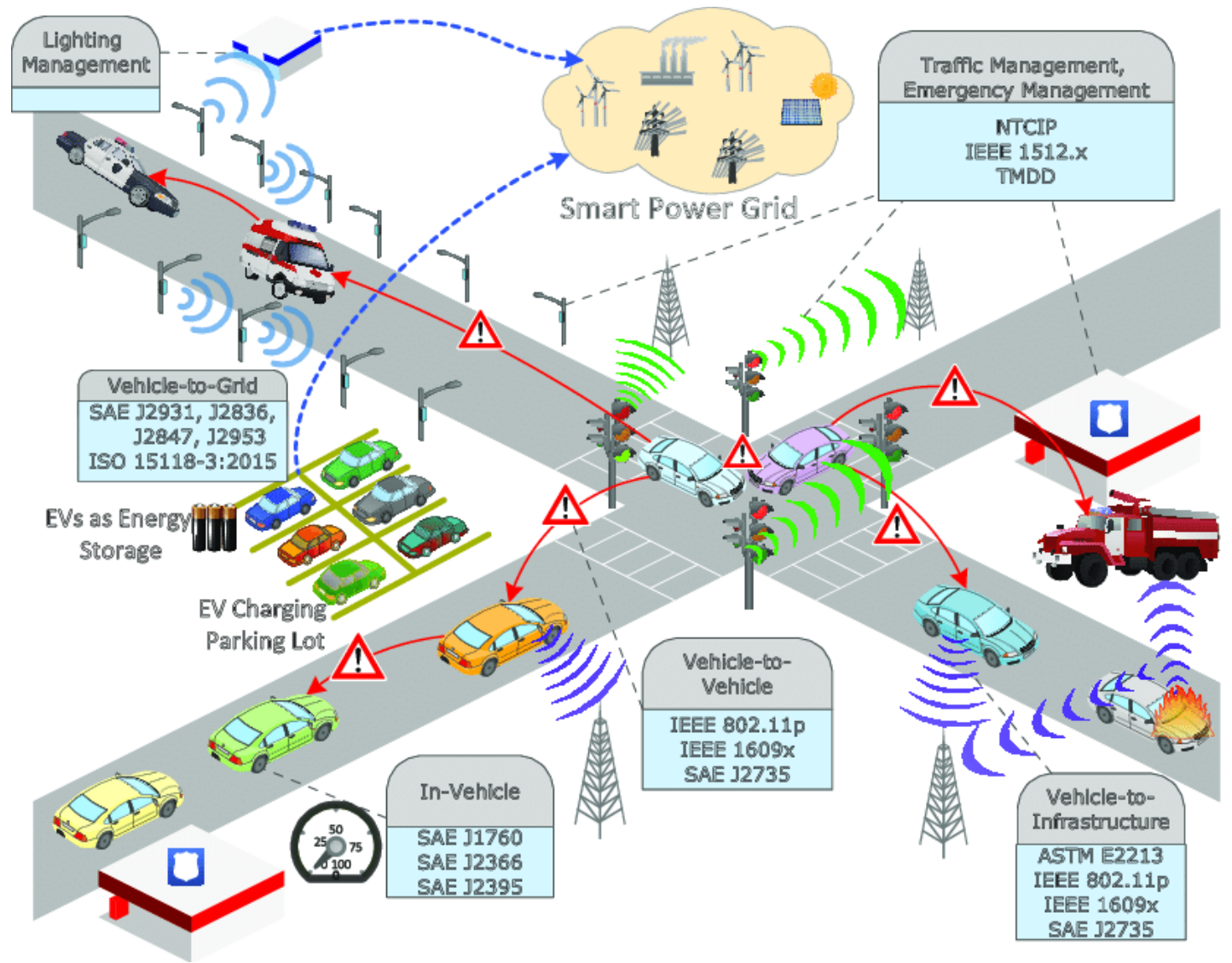


# AUTOMATED TRAFFIC SIGNAL PERFORMANCE MEASURES

PREPARING SAN RAFAEL FOR  
ADVANCED MOBILITY



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## PROJECT GOALS

- Improve synchronization of signals for all modes of travel
- Collect multimodal data for the Downtown
- Improve conditions for pedestrians' safety
- Use technology to maximize system efficiency for all users



# WHAT ARE SIGNAL PERFORMANCE MEASURES?

- Report High Resolution Signal Performance Data
- Makes Recommendations to Improve The Systems' Timing Daily
- Highlights Pedestrian Delays
- Reports Split Failures, Red Light Violations
- Bring efficiencies to All Users

## Turning Movement Count

Explore Turning Movement Count data with vehicle classification and pedestrian volumes in DataLink.





# INNOVATIVE DEPLOYMENT OF ENHANCED ARTERIALS (IDEA) GRANT PROGRAM (MTC)



Federally funded but administered by Metropolitan Transportation Commission (MTC)



\$13M to assist Bay Area agencies improve the operation of major arterial roadways by enhancing mobility, sustainability, and safety along major arterials and get them ready for future technology



Category 1 provides funding for mature, commercially available technology

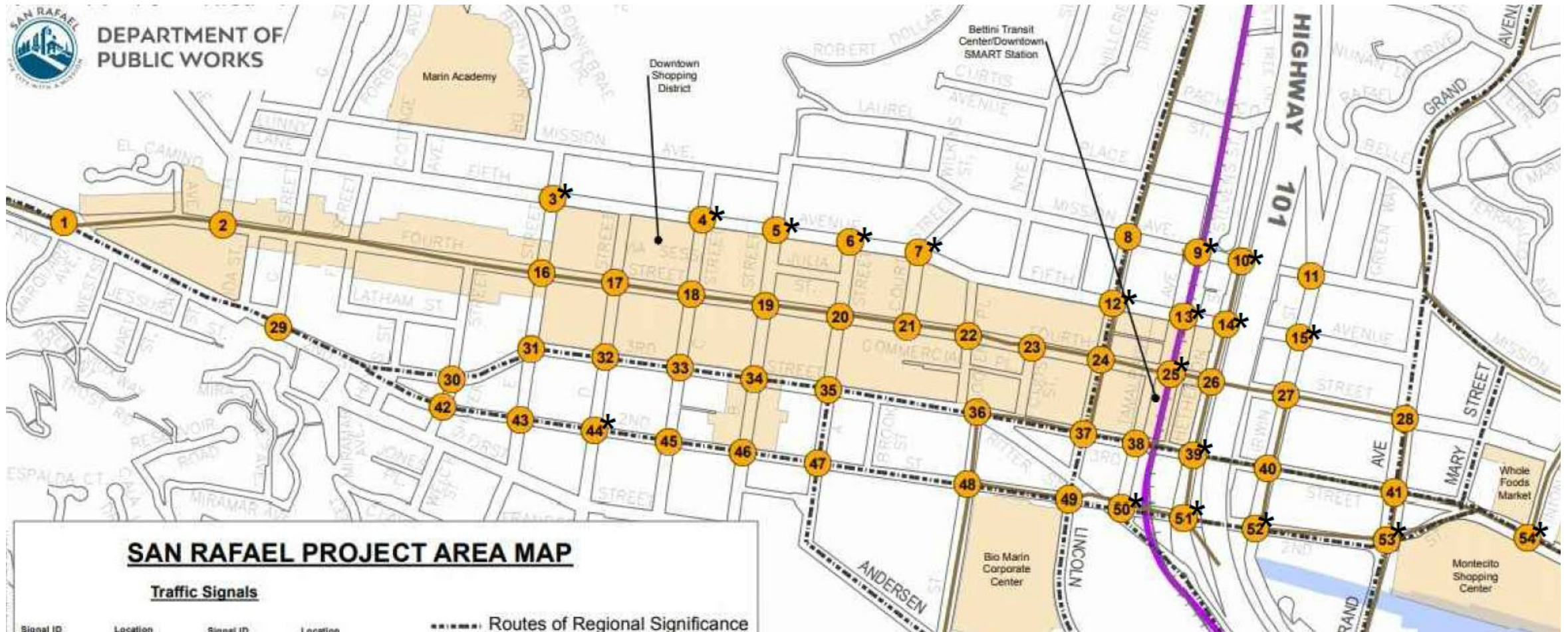


Category 2 deploys newer, higher risk connected and automated vehicle technologies

TRUE PARTNERSHIP



# PROJECT AREA







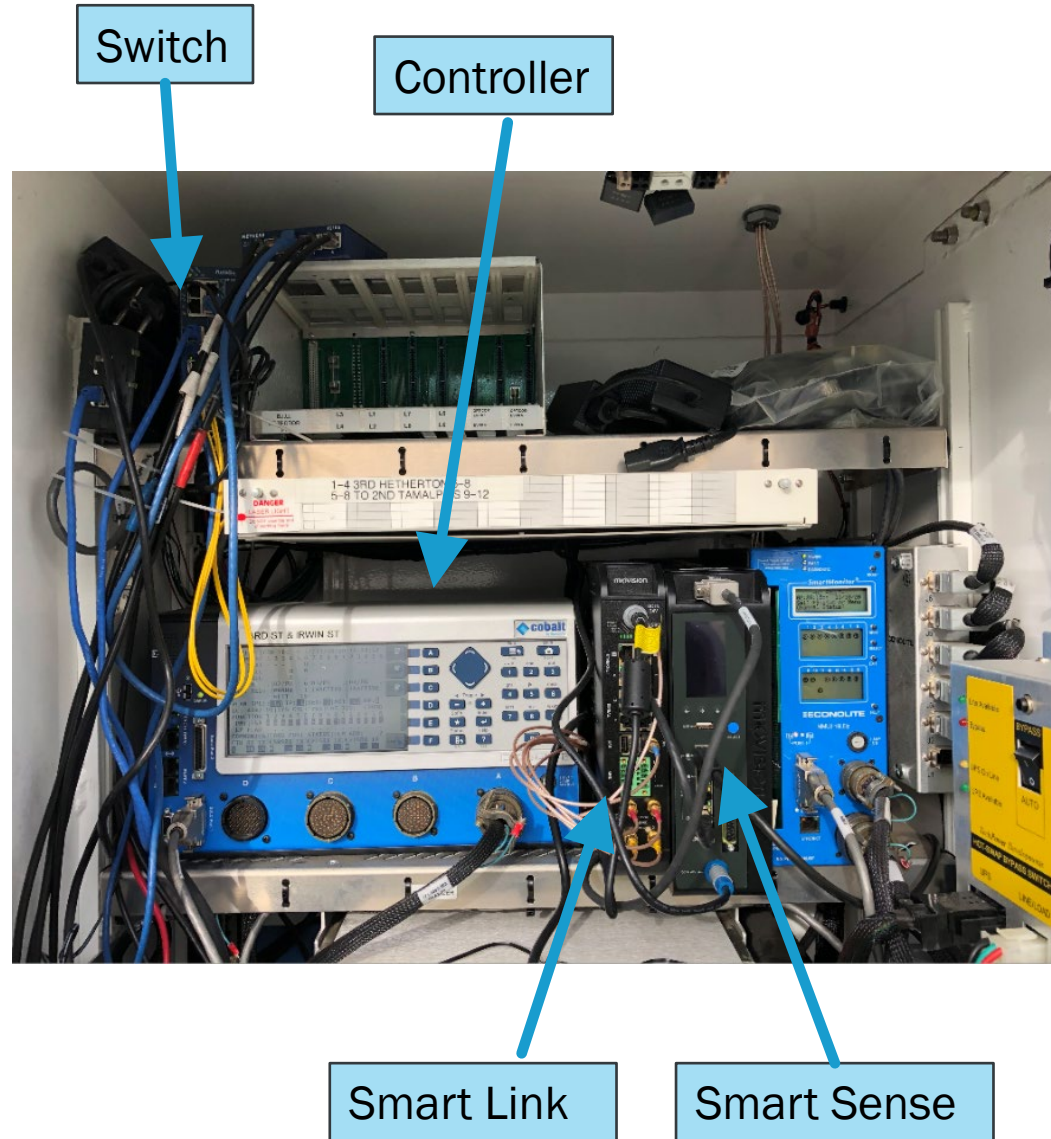
# COMPONENTS OF A MODERNIZED TRAFFIC SIGNAL

Communications

Traffic control Equipment

Video Detection

All in Clouds



Smart View 360



# PROJECT TIMELINE

City applies for Innovative Deployment of Enhanced Arterials (IDEA) grant funding sponsored by MTC. City was seeking Category 2 funding for an Adaptive Traffic Signal Control system

The City + AMG prepared an RFP for a Signal Performance Measure System. Econolite was selected out of 6 vendors for the system, which fits well with our existing traffic management system, Centrac

2017

2018

2019

2020

MTC evaluated the City of San Rafael project and recommended us for Category 1 funding (automated traffic signal performance measures)

MTC hired DKS to take us through the Systems Engineering process

Traffic Engineering + DC Electric did leg work to get downtown ready for the IDEA improvements

AMG designed the project, with controller and cabinet upgrades, Miovision video detection, radios, and switches

Mike Brown Electric won the bid for construction  
It has been a team effort to get this system up and running

# THE PROJECT TEAM



**SAN RAFAEL**  
THE CITY WITH A MISSION

- Finance
- IT Department
- Traffic Engineering
- Public Works Maintenance



METROPOLITAN  
TRANSPORTATION  
COMMISSION



**ELECTRIC**  
Group, Inc.



Mike Brown Electric Co.  
An Employee-Owned Company



**AMG** ADVANCED  
MOBILITY  
GROUP



**TREEMASTERS**

