

Proposed Transportation Control Measure Substitution of the
Placentia Metrolink Station and Access Bus Expansion Projects
with The Main Street BRAVO! Bus Line

April 26, 2022

TCWG SCAG

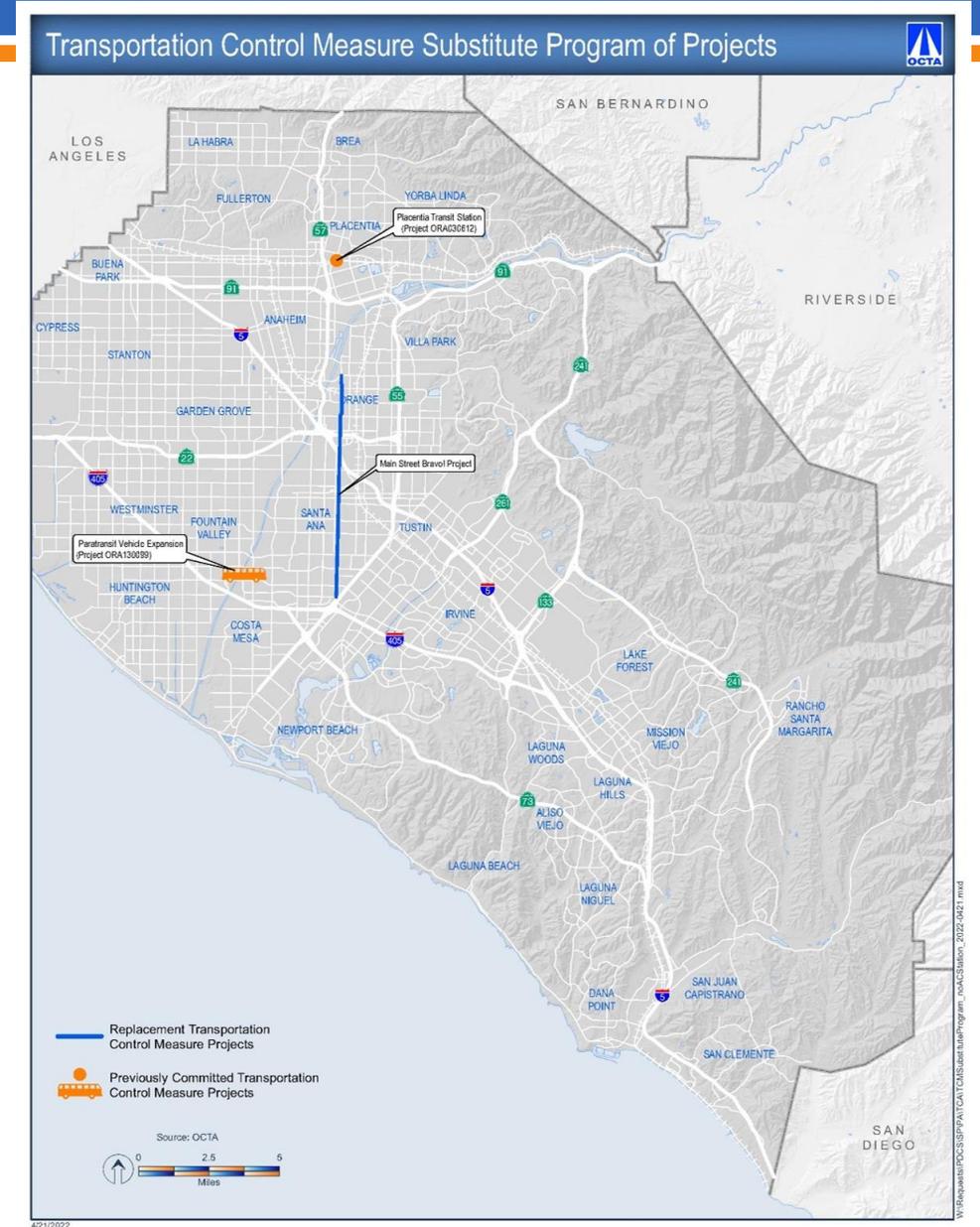
TCA TCM Substitution



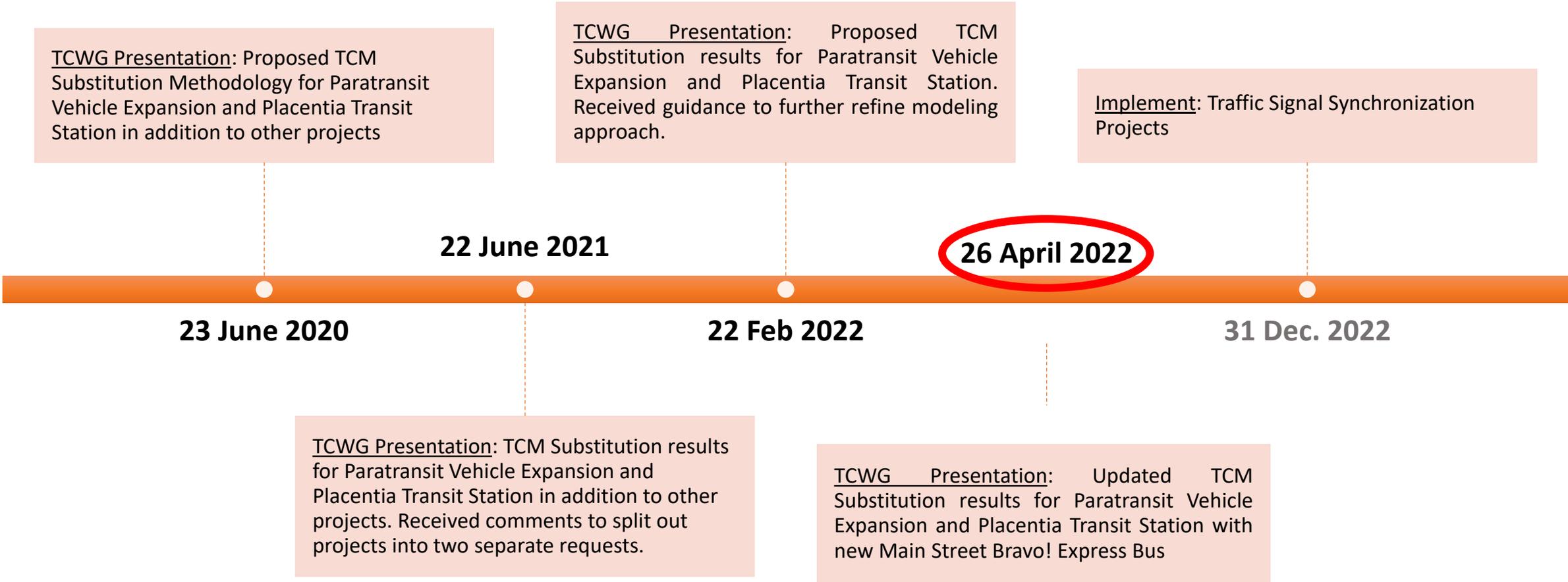
Replace Paratransit Vehicle Expansion and Placentia Transit Station (ORA130099 and ORA030612) in OC scheduled for completion by the end of 2022



Substitute with the new Main Street Bravo! Express Bus Service along Main Street to be completed by the end of 2022



TCA TCM Substitution Timeline



TCM Meets Substitution Requirements



Paratransit Vehicle
Expansion



Placentia Transit
Station



Main Street Bravo! Bus



EQUIVALENT
EMISSIONS REDUCTION



SIMILAR GEOGRAPHIC
AREAS



FULL FUNDING



SIMILAR TIME FRAME



TIMELY
IMPLEMENTATION



LEGAL AUTHORITY

Emissions Analysis Methodology

Step 1: Obtain roadway daily VMT and speed data from OCTAM for “No Project”, “Original Committed Projects”, and “With Proposed Substitute” Alternatives

- Existing 2016 and Future 2045

Step 2: Run EMFAC 2017 using input data from OCTAM for “No Project”, “Original Committed Projects”, and “With Proposed Substitute” Alternatives

- Performed for summer, winter, and annual

Step 4: Compare emissions outputs from Steps 2 and 3 between the alternatives to identify the emission-related improvements

OCTAM Model Information

Traditional 4-
Step Model

TransCAD
Platform

Consistent with
SCAG Model

OCP 2018
SCAG RTP

Base Year 2016
Future Year 2045

OCTAM VMT and
Speeds Input to
EMFAC 2017

Emissions Analysis Findings



Compared projected emissions from the “Originally Committed Projects” and “With Proposed Substitute” alternatives with No Build



Results show “With Proposed Substitute” alternative will yield less than or equivalent amounts of emissions for all criteria pollutants for all milestone years compared to “Originally Committed Projects”



The results are summarized in the staff reports tables

Emissions Reductions from No Build (Kg/Day)

Year 2022 Emissions Reduction (Kg/Day)	Paratransit and Placentia	Proposed TCM Substitute Project
Summer		
ROG	0.0	- 0.1
NOx	0.0	- 0.3
Winter		
NOx	0.0	- 0.2
CO	0.0	- 1.4
Annual		
ROG	0.0	- 0.1
NOx	0.0	- 0.2
PM10	0.0	- 0.1
PM2.5	0.0	0.0

Year 2037 Emissions Reduction (Kg/Day)	Paratransit and Placentia	Proposed TCM Substitute Project
Summer		
ROG	0.0	- 0.3
NOx	0.0	- 0.8
Winter		
NOx	0.0	- 0.9
CO	- 0.1	- 4.7
Annual		
ROG	0.0	- 0.3
NOx	0.0	- 0.9
PM10	0.0	- 0.4
PM2.5	0.0	- 0.1

Year 2045 Emissions Reduction (Kg/Day)	Paratransit and Placentia	Proposed TCM Substitute Project
Summer		
ROG	0.0	- 0.5
NOx	0.0	- 1.1
Winter		
NOx	0.0	- 1.1
CO	- 0.1	- 6.5
Annual		
ROG	0.0	- 0.4
NOx	0.0	- 1.2
PM10	0.0	- 0.5
PM2.5	0.0	- 0.2

Questions?