

Caltrans Division of Rail Corridor Investments San Joaquin Corridor

Past, Present and Future

***Presented to the
San Joaquin Valley Rail Committee
August 30, 2012***



San Joaquin Corridor Capital Projects

- Caltrans is a Partner with BNSF/UPRR/Amtrak and the San Joaquin Valley Community
- \$240 million in SJ Track Improvements in Past 20 Yrs
 - Constructed over 80 Miles of New 2nd Main Track
- Guaranteed 90% On Time Performance
- Ongoing Modeling to Provide Continued Improvements



Some of What We Do

Capacity Projects
Station Platform Upgrade
Capitalized Maintenance



Kings Park Double Track



Hanford Station and Double Track



Pittsburg Siding



Crossover Installation



Ballast Renewal



Rail Relay



Bridge Replacement



LA Triple Track



Projects 1993-2012

Project	Cost	Track Miles	Benefit
4 to 6 Train	\$53.8	21.5	Two Round Trips
Oakley to Pt Chicago CTC	\$21.5	2	Capacity, OTP
Shirley to Hanford	\$22	5	Capacity, OTP
Kings Park Dbl Track	\$18.5	4.5	Capacity, OTP
Calwa to Bowles	\$26.7	8.5	Capacity, OTP
Stockton Dbl Track	\$10	6	Capacity, OTP
Empire	\$11	8.2	Capacity, OTP
Keddie Xover	\$0.8		Capacity, OTP
Escalon Siding Ext	\$10	2.5	Capacity, OTP
Merced Xover	\$2.1		Capacity, OTP
Sac – Stockton Upgrade	\$39	16.6	Two Trains Sac to Stock
Mococco Upgrade	\$9.0	6.2	2 Trains Oak to PC
Cap Maintenance	\$1.7		Ride Quality, OTP
Design and Engineering	\$14.4		Eng, Modeling, Environmental
Total	\$240.5	81	



Projects Currently Under Construction

Project	Cost	Track Miles	Benefits
Oakley to Pt. Chicago Segment 3	\$26.5	3.5	Capacity
Stockton to Escalon Segment 1	\$8.4	2.5	Capacity
San Joaquin PTC	\$10	Corridor	Capacity, Safety
Capitalized Maint	<u>\$1.0</u>	Corridor	Ride Quality, OTP
Total	\$44.9	6	



Corridor Modeling

- 1991 RTC Modeling -

Developed the 4 to 6 Train Growth Scenario

Became the Backbone of the
Current San Joaquin Corridor Service



The 4 to 6 Train Scenario

- **\$53.8 Million Investment from 1990 Rail Bonds**
- **8 Projects Throughout the Corridor**
- **Constructed**
 - 21.5 Miles of Second Mainline
 - Two Major Bridges
 - Major Signal Upgrade
- **Resulted in Two Additional Round Trips**

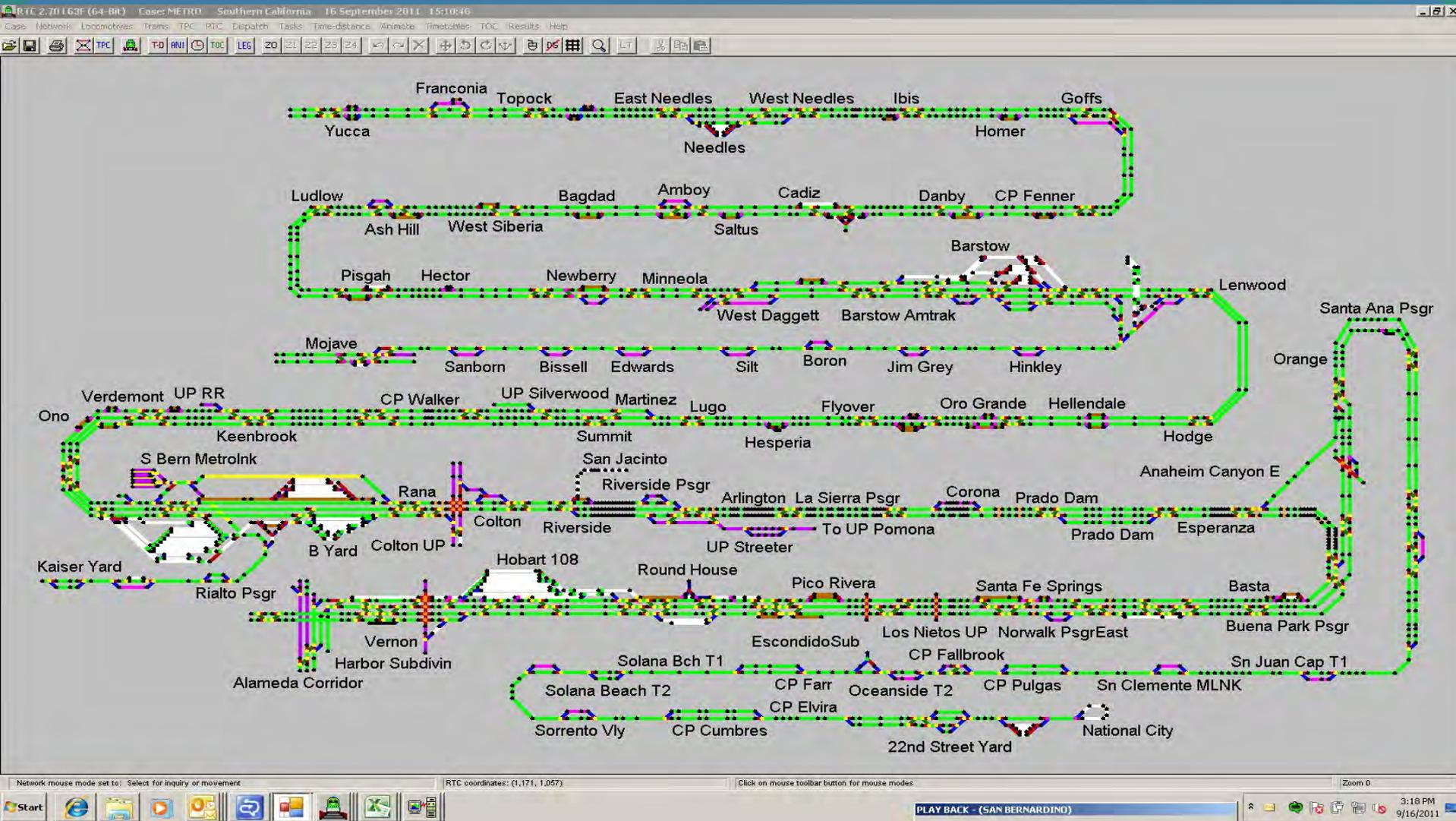


Rail Capacity Modeling

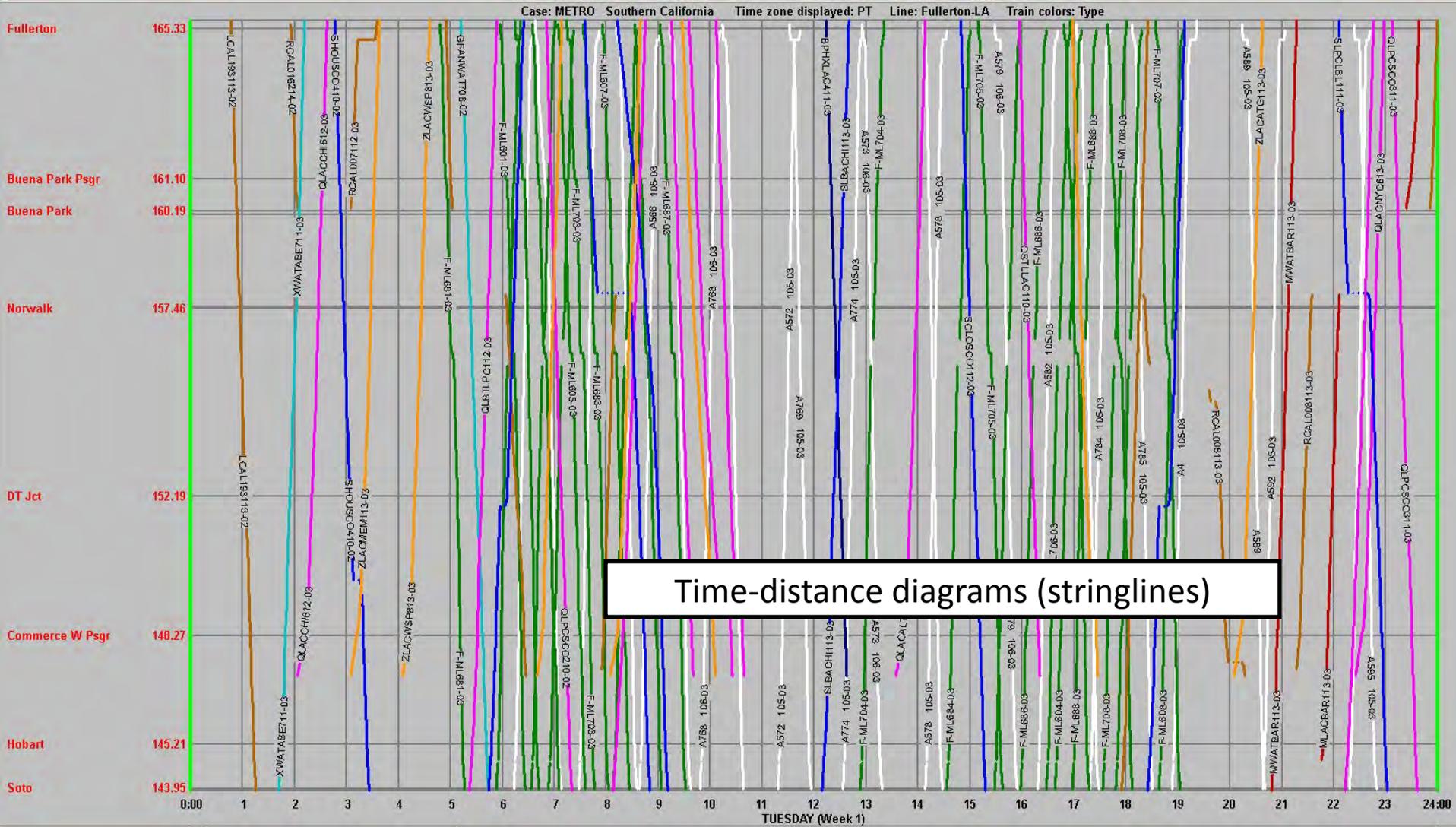
Looks a lot like.....



Capacity Planning – RTC network



RTC Model Outputs - Stringline



What This Means

Ability to Add One Round Trip

- 2010 Modeling - 8 and 11 Round Trips Modeled at 79 and 90 mph



San Joaquin Corridor

Modeled/Proposed Projects to Provide
Eight Round Trips at 90 MPH

OAKLEY TO PORT CHICAGO
3 MILES OF DOUBLE TRACK

STOCKTON TO ESCALON
5.5 MILES OF DOUBLE TRACK

MERCED TO LE GRAND
17 MILES OF DOUBLE TRACK

JASTRO TO SHAFTER
13 MILES OF DOUBLE TRACK

GREGG SIDING
5 MILES OF DOUBLE TRACK



QUESTIONS?

