#### **Kern Council of Governments**

	2005	2008	2020		2035		2040		
Modeling Parameters[1]	(if available)	(base year)	With Project[2]	Without Project[3]	With Project	Without Project	With Project	Without Project	Data Source(s)
EMOGRAPHICS	,	(							
Total population	762,000	816,000	1,010,800	1,010,800	1,321,000	1,321,000	1,444,100	1,444,100	I
Group quarters population	33,700	35,800	44,300	44,300	57,800	57,800	63,200	63,200	
Total employment (employees)	286,432	297,016	365,700	365,700	460,674	460,674	501,710	501,710	
. ,	·	·	305,700	305,700	460,674	400,074	501,710	501,710	C-1:f:- DOF
Average unemployment rate (%)	8.4%	9.8%							California DOF
Total number of households	260,700		319,200	319,200	417,200	417,200	456,100	456,100	
Persons per household	2.92		3.17	3.17	3.17	3.17	3.17	3.17	
Auto ownership per household									
Median household income									
AND USE [4]									
Total acres within MPO	5,227,647	5,227,647	5,227,647	5,227,647	5,227,647	5,227,647	5,227,647	5,227,647	
Total resource area acres									
(CA GC Section 65080.01)									
Total farmland acres		784,485			783,763	783,352	783,572	783 121	FMMP 2010 Data/GIS Analys
(CA GC Section 65080.01) (2010 Base Year)		704,483			·	·	· ·	·	
Developed acres (Growth Only)			18,030	20,200	45,720	53,130	58,020	66,100	GIS Uplan Data
Commercial developed acres (Growth Only)			3,820	4,110	11,190	11,450	14,920	14,130	GIS Uplan Data
Residential developed acres (Growth Only)			14,210	16,090	34,530	41,680	43,100	51,970	GIS Uplan Data
Total housing units			319,200	319,200	417,200	417,200	456,100	456,100	
Housing vacancy rate									
Total single-family detached housing units			224,290	235,210	279,200	316,300	298,170	348,420	
Total small-lot single family detached housing units					·	·			
(x,xxx sq. ft. lots and smaller)									
Total conventional-lot single family detached units									
(between x,xxx and x,xxx sq. ft. lots)									
Total large-lot single family detached units									
(x,xxx sq ft. lots and larger)									
Total single-family attached housing units			64,240	58,970	89,260	69,360	101,290	73,420	
Total multi-family housing units			30,680	25,020	48,740	31,640	56,650	34,260	
Total mobile home units & other									
Total infill housing units (Growth Only)					21,750	1,020	33,040	1,080	
Total mixed use buildings									
Total households within 1/4 mile of transit stations and stops									
Total households within 1/2 mile of transit stations and stops									
Total employment within 1/4 mile of transit stations and stops									
Total employment within 1/2 mile of transit stations and stops									
ANSPORTATION SYSTEM									
Freeway general purpose lanes – mixed flow		7,350.72	7,917.39	7,991.27	9,572.96	9,641.55	9,578.51	9,869.48	
lane miles		7,350.72	7,917.39	7,991.27	9,572.96	9,041.55	9,578.51	9,809.48	
Highway (lane miles)		1,249.81	1,329.46	1,379.43	1,477.24	1,481.89	1,477.24	1,703.52	
Expressway (lane miles)		192.82	206.39	206.34	224.50	224.55	224.50	224.55	
HOV (lane miles)									
Arterial (lane miles)		5,109.27	5,552.20	5,571.65	6,799.91	6,863.00	6,808.58	6,861.10	İ
Collector (lane miles)		711.82	733.17	729.34	961.80	960.73	958.68	961.74	
Local (lane miles)		, 11.02	, 55.17	, 23.54	301.00	300.73	333.00	302.74	<del> </del>
		07.00	00.47	104.54	100.54	111 20	100 54	110 57	
Freeway-Freeway (lane miles)		87.00	96.17	104.51	109.51	111.38	109.51	118.57	



#### **Kern Council of Governments**

	2005 2008		2020		2035		2040		55()
Modeling Parameters[1]	(if available)	(base year)	With Project[2]	Without Project[3]	With Project	Without Project	With Project	Without Project	Data Source(s)
Local, express bus, and neighborhood shuttle operation miles								i	
Bus rapid transit bus operation miles									
Passenger rail operation miles									
Transit total daily vehicle service hours									
Bicycle and pedestrian trail/lane miles									
Vanpool (total riders per weekday) RIP DATA [5]								<u> </u>	
		2 220 270	2.005.261	2 817 220	2 610 414	2 C44 C04	2 000 255	2.052.510	
Number of trips by trip purpose		2,229,378 345,558	2,805,261 417,258	2,817,220 421,532	3,619,414 533,987	3,644,694 540,945	3,898,355 570,455	3,953,510 583,595	
Home-based work Home-based other		1,194,913	1,470,857	1,477,545	1,903,017	1,920,216	2,044,373	2,081,828	
Non-home-based work			220,728						
Non-home-based work  Non-home-based other		166,754 522,153	696,418	220,638 697,505	285,240 897,170	284,919 898,614	310,699 972,828	311,049 977,037	
Non-nome-based other		522,153	090,418	097,505	897,170	898,614	972,828	977,037	
Vehicle Mode Share (Peak Period)									
								<del>                                     </del>	
SOV (% of trips) HOV (% of trips)								+	
								+	
Transit (% of trips)									
Non-motorized (% of trips)									
Vehicle Mode Share (Whole Day)		44.500/	44.040/	44.470/	44.000/	44.000/	40.050/	44.000/	
SOV (% of trips)		41.69%	41.31%	41.47%	41.08%	41.36%	40.95%	41.30%	
HOV (% of trips)		49.64%	49.84%	50.06%	50.08%	50.39%	50.01%	50.54%	
Transit (% of trips)		0.73%	0.83%	0.63%	0.88%	0.56%	0.92%	0.52%	
Non-motorized (% of trips)		7.94%	8.01%	7.85%	7.96%	7.69%	8.13%	7.64%	
Average weekday trip length (miles)									
SOV									
HOV									
Transit									
Walk									
Bike									
Average weekday travel time (minutes)									
SOV		15.19	14.91	15.91	14.79	14.09	15.28	14.48	
HOV		13.79	14.11	17.1	14.03	13.41	14.54	13.57	
Transit		33.93	34.04	34.91	33.75	33.32	33.56	33.33	
Walk								ļļ.	
Bike								<u> </u>	
RAVEL MEASURES								· ·	
Total VMT per weekday for passenger vehicles (ARB vehicle classes of LDA, LDT1, LDT2 and MDV) (miles)		15,856,655	20,124,898	20,340,554	26,150,101	26,758,917	28,089,165	29,477,282	
Total II (Internal) VMT per weekday								+	
for passenger vehicles (miles)		10,671,654	13,195,827	13,382,856	17,010,530	17,528,075	18,625,796	19,381,787	
Total IX/XI VMTper weekday		1,867,266	2,129,291	2,157,942	2,441,973	2,531,756	2,579,958	2,774,360	
for passenger vehicles (miles)		1,007,200	2,123,231	2,137,342	2,771,373	2,331,730	2,313,336	2,774,300	
Total XX VMT per weekday for passenger vehicles (miles)		3,317,736	4,799,780	4,799,756	6,697,598	6,699,085	6,883,410	7,321,135	
Congested Peak Hour VMT on freeways								+	
(Lane Miles, V/C ratios >0.75)						_			
Congested Peak VMT on all other roadways									
(Lane Miles, V/C ratios >0.75)									



#### **Kern Council of Governments**

Madeling Develope[4]	2005	2008 2020		20	2035			2040		
Modeling Parameters[1]	(if available)	(base year)	With Project[2]	Without Project[3]	With Project	Without Project	With Project	Without Project	Data Source(s)	
O2 EMISSIONS[6]										
Total CO2 emissions per weekday for passenger vehicles (ARB vehicle classes LDA, LDT1, LDT2, and MDV) (tons)		7,730.65	9,799.13	9,927.85	12,699.04	12,973.00	13,606.74	14,203.72		
Total II (Internal) CO2 emissions per weekday for passenger vehicles (tons)		5,202.79	6,425.26	6,531.93	8,260.67	8,497.79	9,022.56	9,339.18		
Total IX / XI trip CO2 emissions per weekday for passenger vehicles (tons)		910.35	1,036.79	1,053.25	1,185.87	1,227.42	1,249.76	1,336.83		
Total XX trip CO2 emissions per weekday for passenger vehicles (tons)		1,617.51	2,337.09	2,342.67	3,252.49	3,247.78	3,334.41	3,527.71		
INVESTMENT (Billions)										
Total RTP Expenditure (Year XXXX \$)		\$7,474,000,000	\$2,629,590,000	\$2,358,490,000	\$9,260,730,000	\$5,326,482,000	\$11,433,000,000	\$0	2007 RTP As Amended	
Highway capacity expansion (S)		\$1,700,000,000	\$587,002,780	\$1,803,196,000	\$2,067,270,660	\$3,723,482,000	\$2,552,186,000	\$0	2011 RTP As Amended	
Other road capacity expansion (\$)		\$2,800,000,000	\$415,975,470	\$498,180,000	\$1,464,957,090	\$1,311,000,000	\$1,808,589,000	\$0	Administrative Draft RTP	
Roadway maintenance (\$)		\$1,550,000,000	\$545,560,000	\$589,000,000	\$1,921,320,000	\$1,550,000,000	\$2,372,000,000	\$0		
BRT projects (\$)		\$0	\$4,140,000	\$0	\$14,580,000	\$0	\$18,000,000	\$0		
Transit capacity expansion (\$)		\$700,000,000	\$554,300,000	\$42,864,000	\$1,952,100,000	\$112,800,000	\$2,410,000,000	\$0		
Transit operations (\$)		\$709,000,000	\$424,925,000	\$269,420,000	\$1,496,475,000	\$709,000,000	\$1,847,500,000	\$0		
Bike and pedestrian projects (\$)		\$15,000,000	\$97,686,750	\$14,250,000	\$344,027,250	\$37,500,000	\$424,725,000	\$0		
TRANSPORTATION USER COSTS										
Vehicle operating costs (Year XXXX \$ per mile)	11.34	15.34	17.78	14.55	18.85	11.35	18.85	10.29		
Gasoline price (Year XXXX \$ per gallon)	2.52	N/A	7.76	7.76	16.17	16.17	N/A	N/A		
Average transit fare (Year XXXX \$)		\$1	\$1	\$1	\$1	\$1	\$1	\$1		
Parking cost (Year XXXX \$)		Varies	No Change	No Change	No Change	No Change	No Change	No Change		

<sup>[1]</sup> When reporting \$ units, indicate whether they are current dollars, YOE (year of exchange), or other.

<sup>[2]</sup> This scenario includes modeling of all planned and programmed projects in RTP/SCS for respective calendar year.

<sup>3]</sup> This scenario should reflect the MPO's Business as Usual scenario, which for most is what would happen under the MPO's previously adopted RTP for the respective calendar year.

<sup>[4]</sup> In cases where "TOTAL" land use data is reflective of "GROWTH ONLY", please indicate those instances within the table.

<sup>[5]</sup> Please include any other trip type that may be applicable to your region.

<sup>[6]</sup> Please provide ARB staff with the EMFAC Input and Output files associated with these outputs

# 2014 Regional Transportation Plan Update Maintain, Fix and Finish What We Have



### WHY IS TRANSPORTATION IMPORTANT?



### 2014 Regional Transportation Plan (RTP)

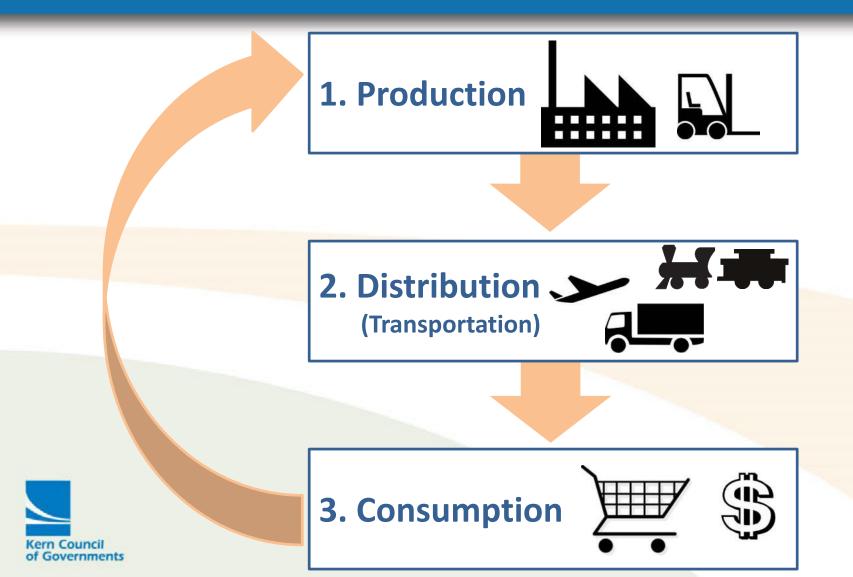
 20+ year long-range plan of projects for the region

 Earliest stage of transportation planning process





## The Components of an Economy



### How Transportation Drives the Economy

Greater economic opportunities

More jobs

Need for more production

Investment in transportation

The upward economic spiral

Increased demand

Efficient transportation

Expanded market area and lower distribution cost

Lower cost for consumers



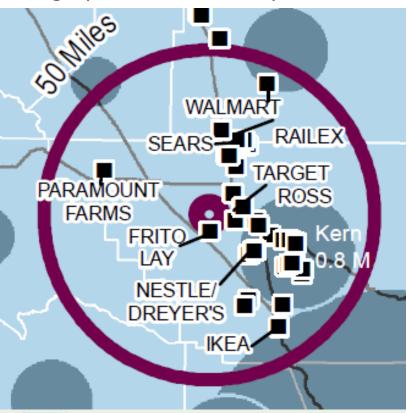
## Transportation Investment Benefits



Kern County's 8-lane freeway to Southern California connects us with 22 million consumers

# Kern Logistics Industry Cluster

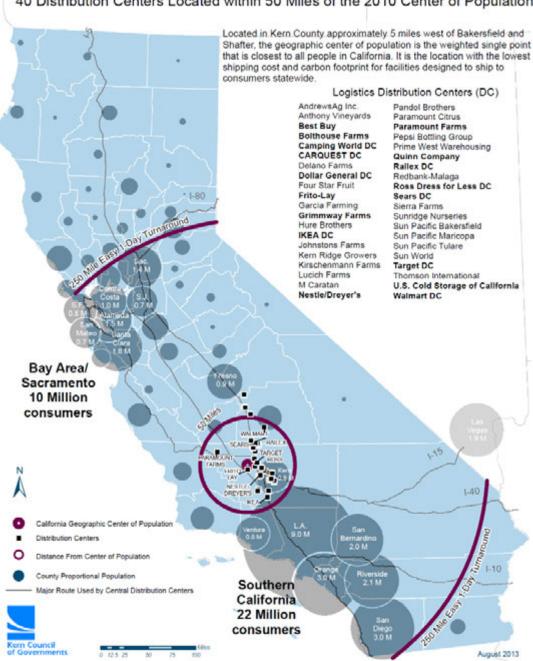
Geographic Center of Population





#### **California Logistics Distribution Center Cluster**

40 Distribution Centers Located within 50 Miles of the 2010 Center of Population



# **Goods Movement Priority**







## Growth and Air Emissions

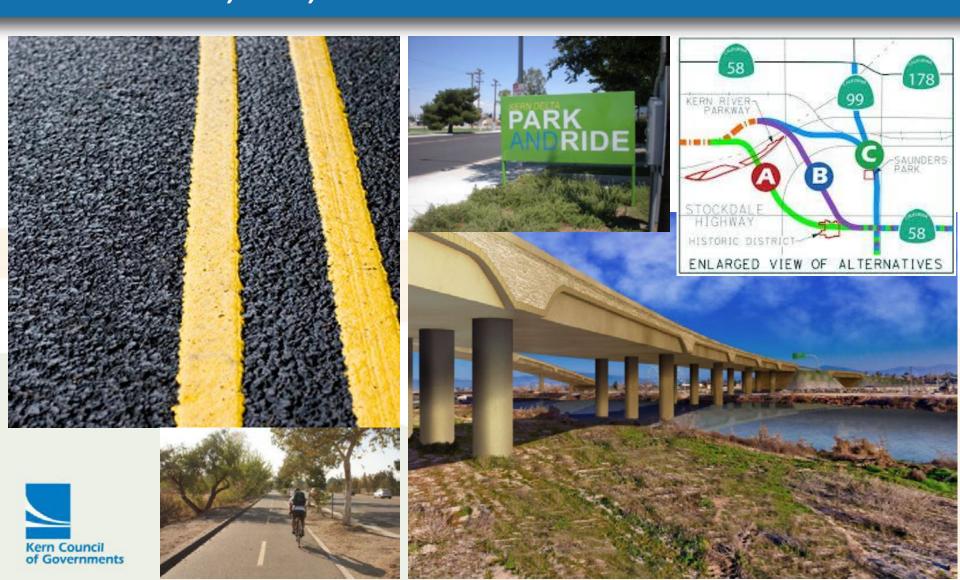
- Significant portion of air emissions are from transportation.
- RTP must meet federal air standards or projects could be delayed.
- Kern must accommodate future growth out to 2040.
- RTP focuses on meeting federal and state requirements.



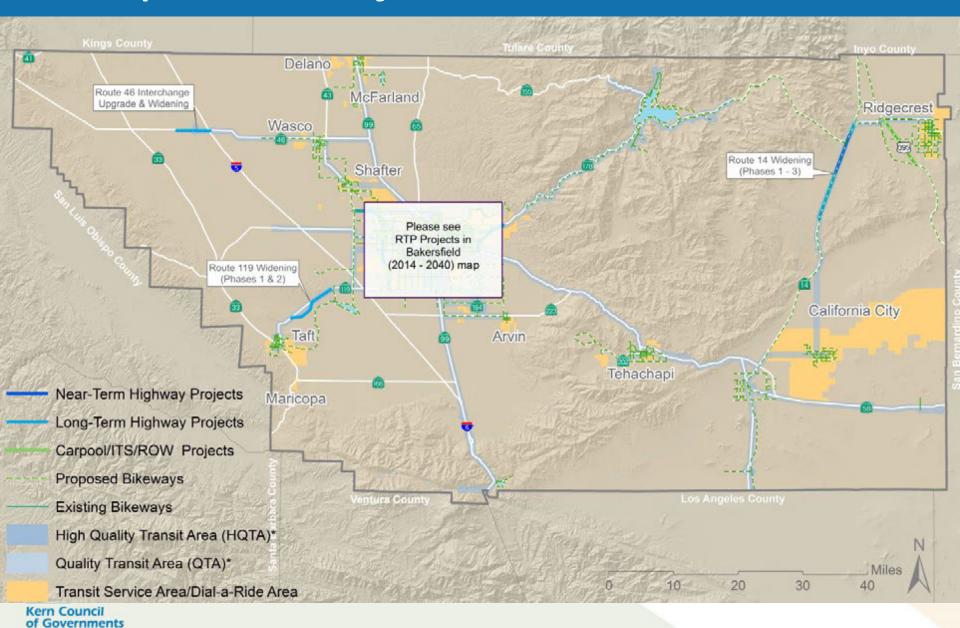
## WHAT'S PROPOSED FOR THE PLAN?



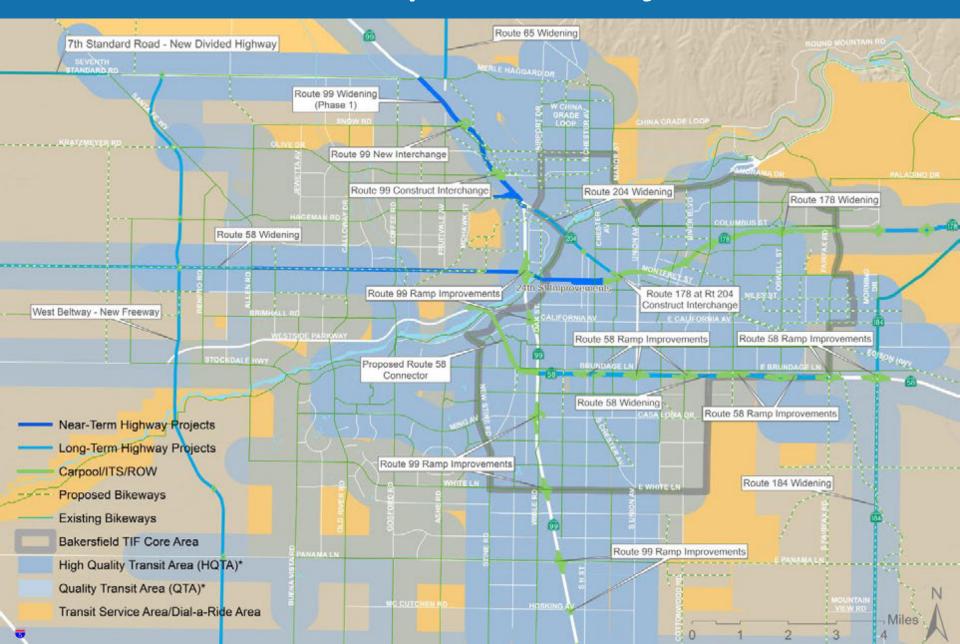
# Outreach Process 8,000+ Participants: Maintain, Fix, and Finish What We Have



# **Proposed Projects**

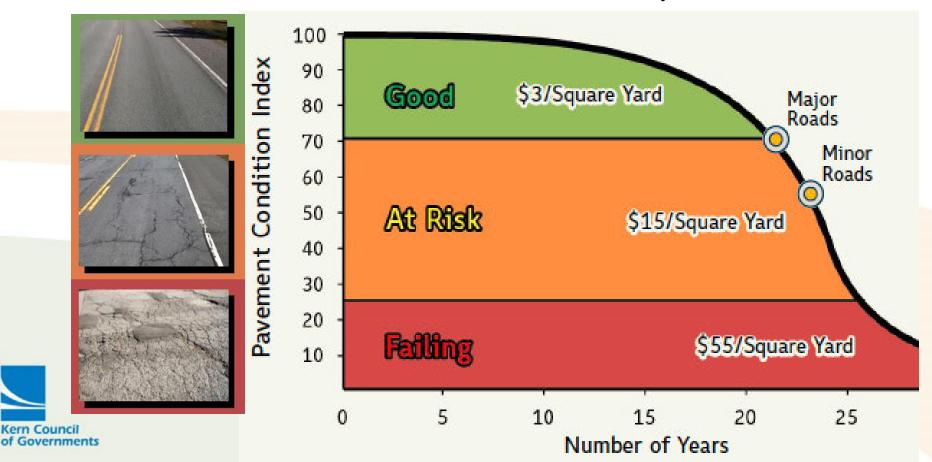


## 2014 RTP - Proposed Projects



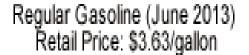
#### Maintain & Fix What We Have

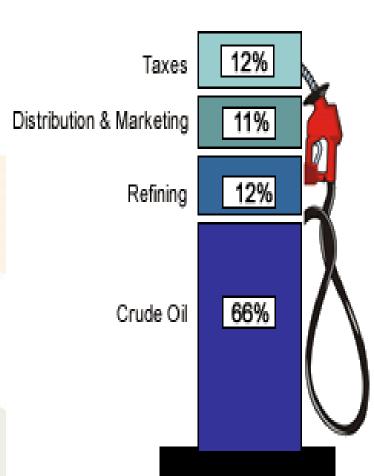
 At current funding levels, 25% of Kern roads will need to be rebuilt at 4 times the cost by 2022



### Fuel Tax and Price of Gasoline

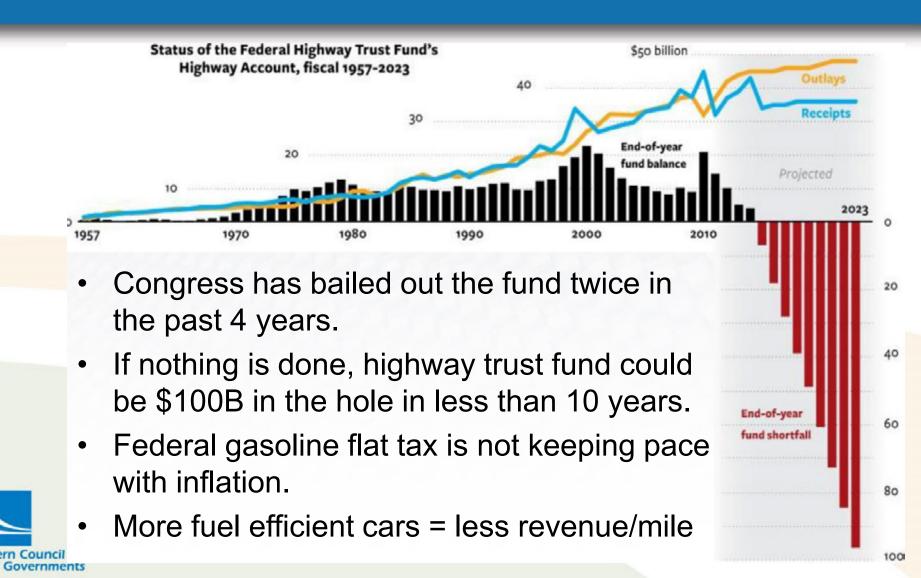
- National Highway Trust Fund is broke
- Nationally, average tax on fuel has dropped to 12% from 30% in 2000
- Average price of gasoline:
  - \$3 in 2000
  - \$4 in 2012







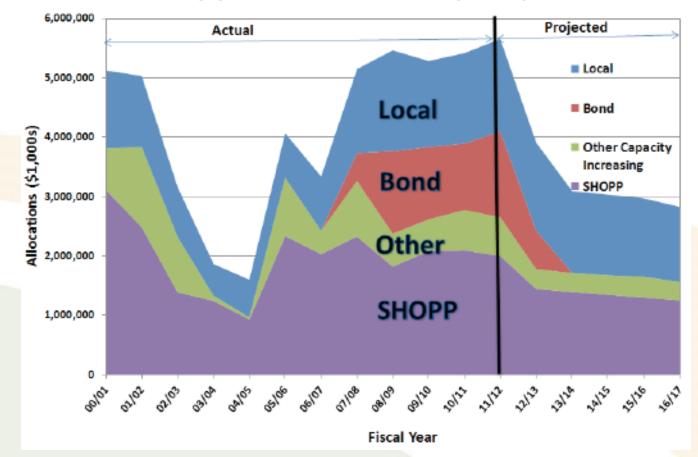
### Federal Highway Trust Fund Insolvent



### State Transportation Funding Falls 50%

- 2014 Bond funding has dried up
- 50% of all funding and 75% of new projects statewide are funded by local funds

#### On-System Allocations and Projected Allocations (Adjusted for Construction Cost Index, in 11/12 dollars)



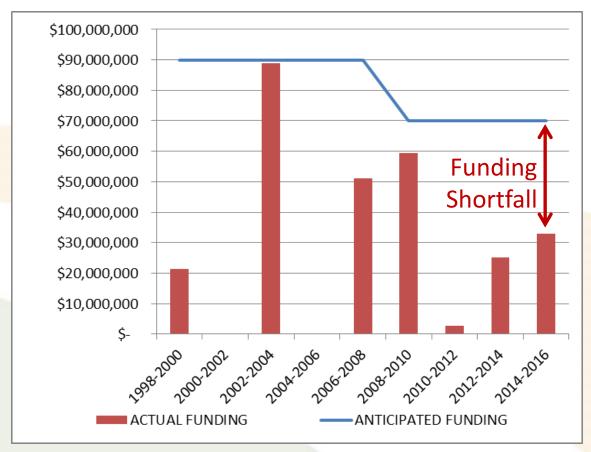


## Kern COG: Doing More With Less

- Average \$25 million shortfall per year
- 60% less funding than RTP anticipated in 1998
- Up to \$35 Billion need still unfunded
- Environment for creative solutions
- Still the 2014 RTP may create 124,000 job yrs. over 26 yrs.

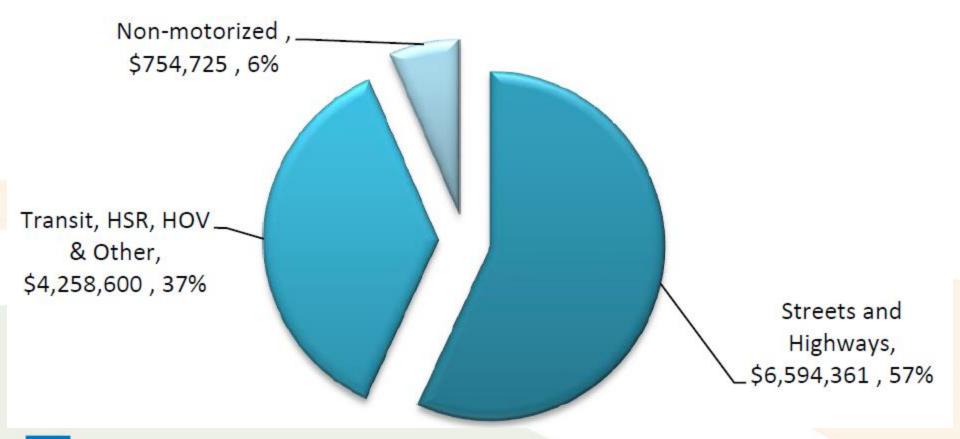
Governments

# 2-Year Funding Cycles Regional Transportation Improvement Program (RTIP)



## Draft Expenditure Plan

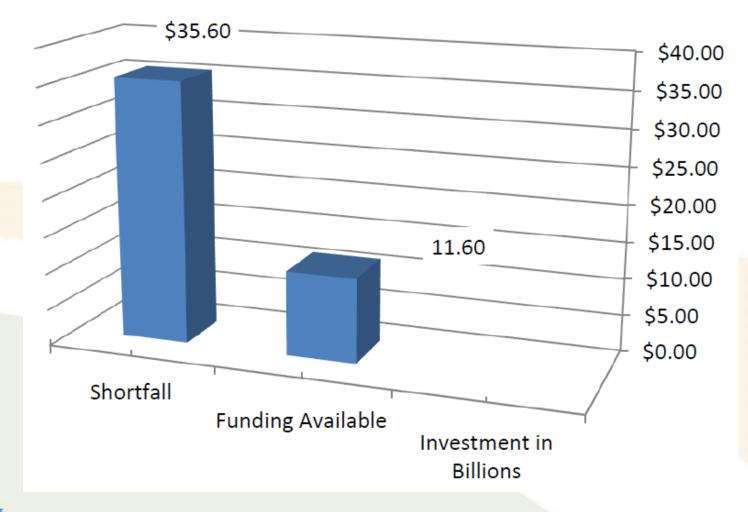
Figure 6-2: Investments by Mode 2014–2040 (\$ x 1,000)





Assumes an 11% increase in funding from various potential new sources to be used primarily for road maintenance.

# Still A Huge Need

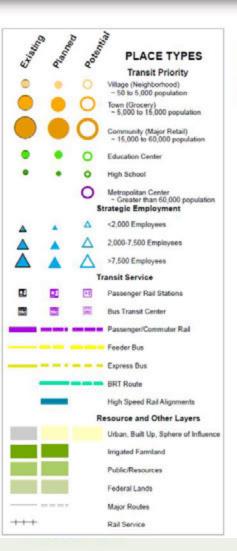


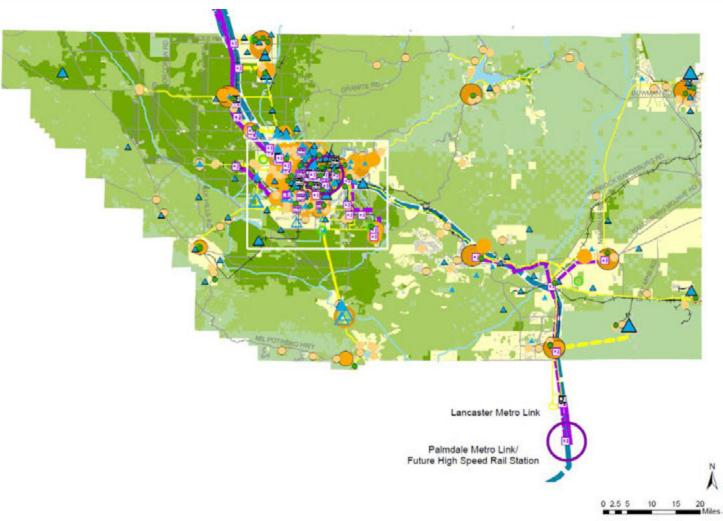


# WHAT ARE THE STRATEGIES TO MEET OUR GOALS?



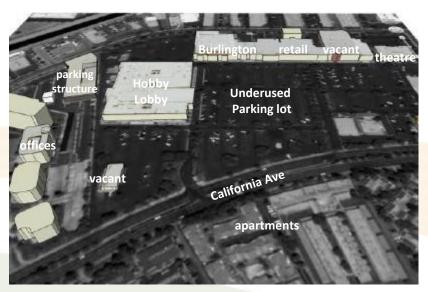
# Coordinating Transportation and Local Land Use – Preliminary SCS



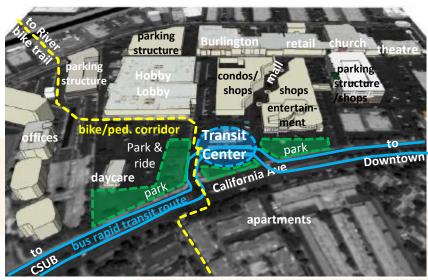


#### Potential Revitalization of Existing Centers

# Existing Bakersfield Plaza on California Ave



Add Parking Structures, Shopping, Transit Center



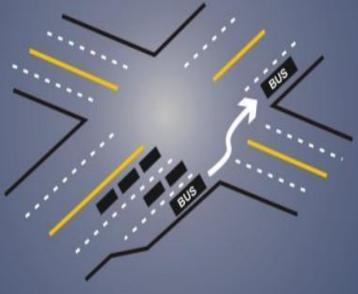
Conceptual Visualization By Kern COG

- Increasing the presence of people in traditional retail centers supports business and transit investment while providing "eyes-onthe-street" at night and weekends, making for a safer community.
- Kern COG and GET are working on a Transit Centers Study for Metropolitan Bakersfield to be completed next year.



# BRT and Jump Lanes

Queue Jump Lane

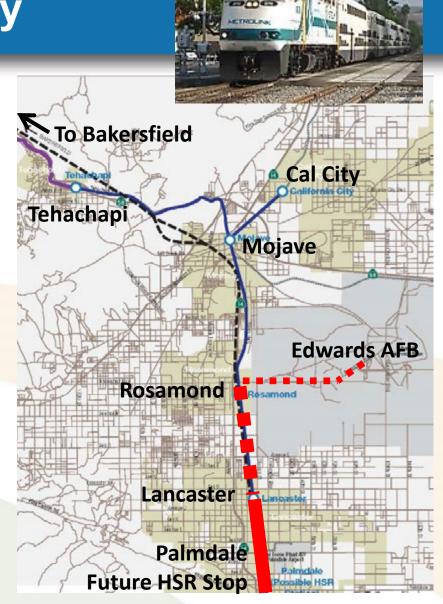




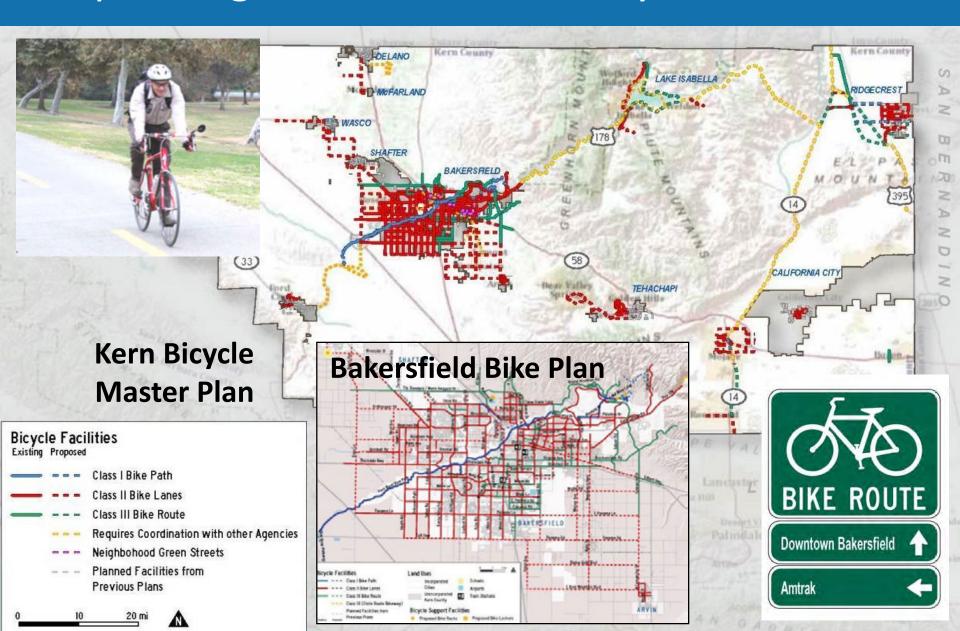


# Kern Commuter Rail StudyEastern Kern County

- Extend Metrolink service to: Rosamond
- Shuttle to Edwards AFB = 10,000 employees with 5,500 from Palmdale/Lancaster
- Long-term recommendations (15 years +)
  - Finalize JPA requirements with Metrolink
  - Explore the potential for purchasing rights-of-way along Southeast corridor
  - Estimated Cost- \$40,571,937
     (includes under and over crossings \$27,000,000)



### Expanding the Bike Network by 1,100 Miles



## Complete Streets – Walkable Communities





of Governments





### Kern Commuter Connection

#### BECAUSE YOU'RE GOING PLACES

- Vanpooling
- Telework
- Walking
- Park and Ride facility use
- Flexible scheduling

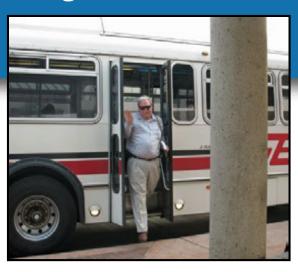
- Outreach to employers
- Resources to commuters
- Forum for discussion and sharing resources
- Daily tracking

Nearly half of all cars on Kern's roads have more than 1 occupant



Carpooling

#### **Using Public Transit**



**Bicycling** 





# Success Story: CalVans Vanpool Program



- Provides 7, 8, and 15passenger vans
- 65 vanpools currently in operation in Kern
  - Equivalent to 1.7 million miles less travel annually
- Joined the JPA to expand service in Kern to 200 vanpools







# Two New Park & Rides Express Transit Centers California City & Greenfield

Cal City – West Way Station - Multi-modal **Transit Center on City** owned property at the southwest corner of California City Blvd. and Wonder Ave. The Transit Center includes a parking lot, lighting, restrooms, landscaping, and Kern Regional Transit bus stops.









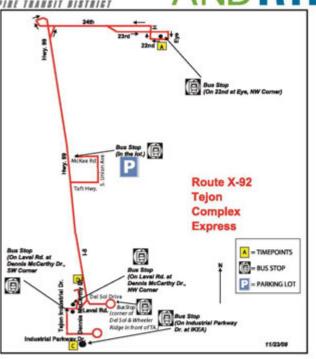








#### **DOLLAR GENERAL**



Downtown Transit Center	Park & Ride McKee Rd	IKEA	Park & Ride McKee Rd	Downtown Transit Center	
3:50 AM	4:10 AM	5:00 AM	5:30 AM	5:50 AM	
5:55 AM	6:15 AM	7:00 AM	7:30 AM	7:50 AM	
7:55 AM	8:15 AM	9:00 AM	9:30 AM	9:50 AM	
9:55 AM	10:15 AM	11:00 AM	11:30 PM	11:50 PM	
12:30 PM	12:50 PM	1:35 PM	2:05 PM		
	2:05 PM	2:45 PM	3:25 PM		
	3:25 PM	3:55 PM	4:35 PM	4:55 PM	
5:15 PM	5:35 PM	6:05 PM	6:40 PM	7:00 PM	
10:30 PM	10:50 PM	11:40 PM	12:10 AM		

Bus also stops at TA on east side of freeway

### Employer Subsidized Transit

- 19,000 employee trips per year
- 1.4 Million Miles
   Less Travel Annually

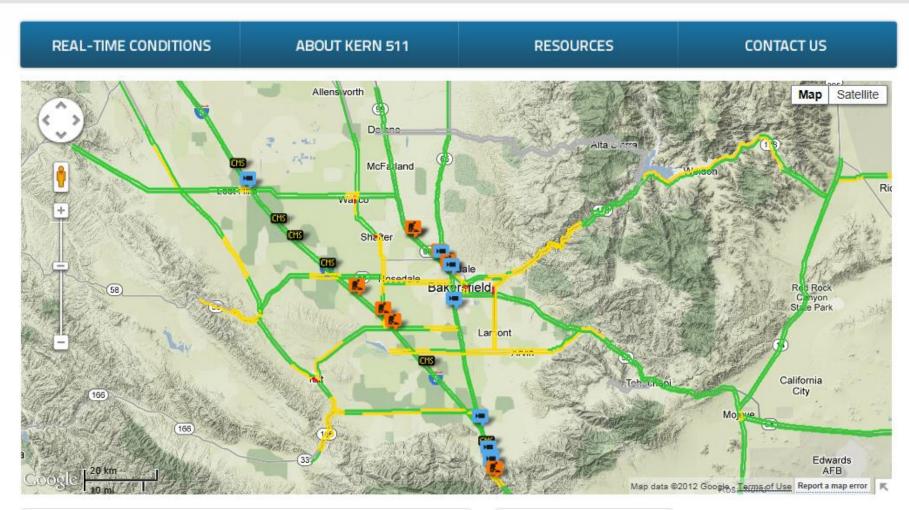






#### Real-time Travel Info







Text Alternatives

Travel Times
Incidents
Cameras
Changeable Message Signs
Construction

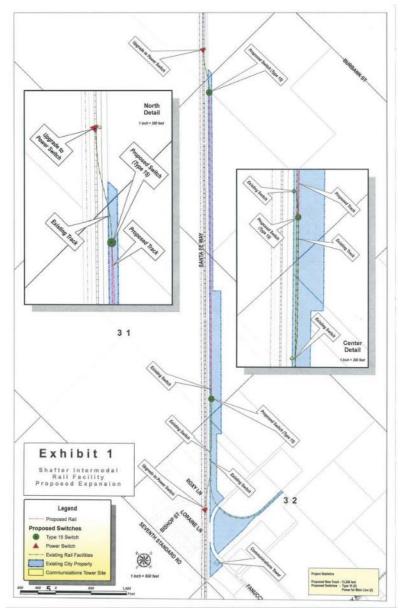
REFRESH kern511.org

#### **Diverting Trucks to Rail:** Shafter Intermodal Rail Facility (SIRF) Expansion

The rail facility will establish a dedicated reliable intra-state rail shuttle connecting the Port of Oakland in northern California with the southern San Joaquin Valley.



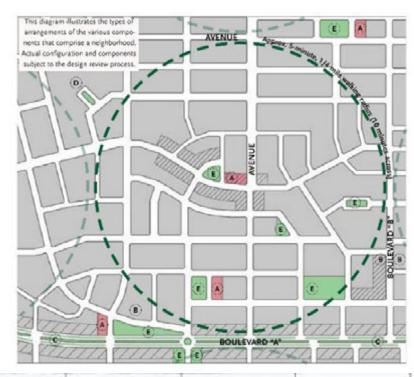




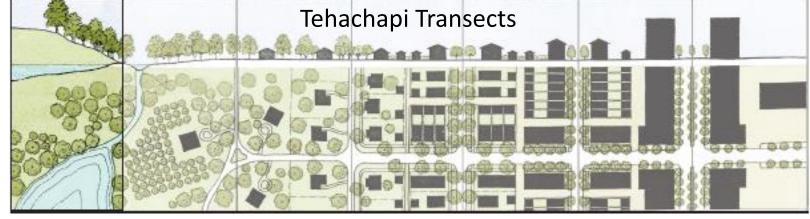


# City of Tehachapi Form Based Code General Plan

The City of Tehachapi adopted the 2035 General Plan Update, and the new General Plan will contribute towards the implementation of SB 375. The new General Plan is characterized as a Form Based General Plan because it emphasizes facilitating mixed use, walkable neighborhoods and developments.







# San Joaquin Valley Air Pollution Control District's Indirect Source Review (ISR) Rule 9510

Examples of Smart Growth Development located in Downtown Bakersfield









# City of Bakersfield Redevelopment Projects Mill Creek, Baker Street, Arts District



Mill Creek Linear Project



Downtown Arts District

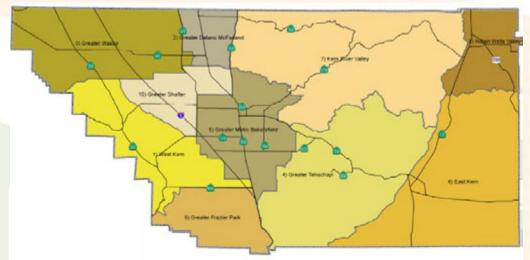


# Kern's Voluntary Performance Monitoring by Community - Lowering Auto Travel

	Old Plan (A10)						Preliminary Plan (C35)						
Subarea	HHLD	EMP	VMT	% VMT	VMT per HHLD+EMP	HHLD	EMP	VMT	% VMT	VMT per HHLD+EMP			
West Kern	9,024	14,869	897,183	3.3%	37.55	9,053	14,908	887,471	3.3%	37.04			
Delano McFarland	16,792	29,262	1,316,671	4.8%	28.59	16,798	29,310	1,309,587	4.9%	28.40			
Greater Wasco	10,664	18,061	1,237,210	4.5%	43.07	10,708	18,035	1,230,233	4.6%	42.80			
Greater Tehachapi	22,640	22,823	2,200,533	8.0%	48.40	27,330	22,810	2,373,061	8.9%	47.33			
Metro Bakersfield Area	277,007	267,121	15,861,358	57.8%	29.15	275,513	267,086	15,068,578	56.3%	27.77			
Southeast Kern	25,483	37,046	1,552,845	5.7%	24.83	25,484	37,074	1,550,542	5.8%	24.79			
Kern River Valley	11,851	5,554	918,598	3.3%	52.78	11,335	5,573	913,033	3.4%	54.00			
Indian Wells Valley	17,440	22,743	764,526	2.8%	19.03	17,444	22,737	753,739	2.8%	18.76			
Greater Frazier Park	9,125	6,418	692,671	2.5%	44.57	8,135	6,402	672,464	2.5%	46.26			
Greater Shafter	17,849	35,524	2,009,945	7.3%	37.66	16,113	36,603	1,998,936	7.5%	37.92			
Total	417,874	459,420	27,451,540	100.0%	31.29	417,912	460,537	26,757,644	100.0%	30.46			

Source: Vehicle Miles Traveled (VMT) is from the Kern COG MIP Transportation Model for 2035 Old Plan and 2035 Draft Plan and includes travel outside each the sub area.





## **HOW CAN I SHARE MY IDEAS?**



#### RTP Process Schedule

### March 2013

- Preliminary RTP Sustainable Communities Strategy
- Continue RTP growth scenario development

#### May – July 2013

 Presentations to 11 - City Councils, Board of Supervisors, Tribes, GET, other stakeholders

#### March 12, 2014

Begin 55-day Public Review Period:

- Draft 2014 RTP w/RHNA
- Draft EIR
- Draft FTIP
- Conformity

#### April 15 & 17, 2014

- 2 Public
   Workshop/Open
   House Events
- 2 Public Hearings

#### May 6, 2014

- Close of Public Review Period
- Begin response to comments

#### 2014

- **Scheduled Adoption:**
- **2014 RTP** w/RHNA

June 19,

- RTP Final EIR
- 2015 FTIP
- Conformity



## Comments Due Tues., May 6, 2014

- Draft RTP(with SCS/RHNA), EIR, FTIP, Conformity available for review at: <a href="http://www.kerncog.org/">http://www.kerncog.org/</a>
- 2015 FTIP Raquel Pacheco at 661/861-2191, <a href="mailto:rpacheco@kerncog.org">rpacheco@kerncog.org</a>
- 2014 RTP or EIR Becky Napier, 661/861-2191, <a href="mailto:bnapier@kerncog.org">bnapier@kerncog.org</a>
- RHNA Plan or Conformity Analysis Robert Ball, 661/861-2191, <u>rball@kerncog.org</u>
- 2 Public Hearings will be held:
  - April 15, 2014 6:00 P.M. (California City)
  - April 17, 2014 6:30 P.M. (Bakersfield)
  - Public Workshop/open house will be held ½ hour prior to each advertised public hearing

