



#### **ORANGELINE DEVELOPMENT AUTHORITY**

### **ARCADIS**

A Public Private Partnership





\* Santa Ana has voted to join the Authority

### **Supporting Agencies**

- Federal Government (\$280K)
- Gateway Cities Council of Governments
- Southern California Association
   of Governments
- City of Los Angeles (\$10K)
- City of Garden Grove
- City of Huntington Beach
- City of Long Beach
- City of Stanton
- City of Santa Ana\*

### Orangeline High Speed Maglev Environment-friendly Privately Funded

# **Purpose of Presentation**

- OCTA is preparing comments on the Draft 2008 RTP
- A number of issues must be resolved

   In particular, the assumption that OCTA will provide right-of-way at little or no cost.
- We hope to address all of your issues today and gain your support for keeping the Orangeline High Speed Maglev in the 2008 RTP

# We are Deeply Concerned

 Absent new information, I would expect that the OCTA Board will recommend the Southern California Association of Governments remove the Orangeline project from the financially constrained 2008 RTP and place it in the strategic plan, pending further study and consensus building.

Carolyn V. Cavecche, Chairman

January 11, 2008

# A Major Set-back

- You gain nothing by taking project out of RTP
- Keeping it in enables consensus building
- Six years of planning, millions of dollars spent to date, and hundreds of millions of dollars in benefits would be put at risk
- OCTA has been informed and has participated in study process – let's continue, not destroy
- Private partners have invested over \$1 million dollars; government credibility is at stake
- Your action will affect cities throughout the SCAG region, not just Orange County; the entire maglev program could be affected

## Questions

- July 26, 2007 staff report
- January 18, 2008 staff request
- Other issues relating to RTP discussions

### OCTA Staff Questions July 26, 2007

- OCTA has not committed right-of-way
- Financial plan appears extremely optimistic
- \$18 average fare is assumed for 20-mile trip
- Investor Concerns: row, approvals, ridership
- Redundancy with other services
- Lack of Local Support
- Maglev is assumed to be best technology

- Neither Metro nor OCTA has committed to making the P.E. Railroad ROW available
  - Making it available would put the ROW to productive use and for its intended use for transportation – the value is being lost now
  - OCTA LRTP does not commit funding to a project along the P.E. ROW
  - Metro staff has indicated their Board "would likely" make their ROW available

- Financial plan appears extremely optimistic; no other lines of such scale
  - Project could be first maglev project in the U.S.; maglev is new technology
  - Private transit systems do exist in U.S. and elsewhere; scale (\$19B is equal to the demand)
  - Project construction will be phased and extend over 8 years
  - Scale = recently approved bond measures

- \$18 average fare is assumed for 20-mile trip
  - Financial plans were tested for a range of fares
  - Fare comparable to other maglev studies
  - Toll lane use cost is up to \$1 per mile + auto costs (Over \$2 per mile vs. \$.90 for maglev)
    \$3,000 to \$18,000 savings from maglev use

- Investor Concerns: right-of-way, approvals and ridership
  - ROW issue must be addressed early
  - EIR and other approvals must be obtained
  - Ridership is comparable to other maglev studies based upon SCAG models
  - Ridership risks must be addressed (along with cost, schedule, etc.) and must be shared between public and private partners

- Redundancy with other services
- What is redundancy?
  - An excess or superfluous amount (of services)
    - That would be bad
  - Duplication of critical components to increase reliability
    - That would be good

- Redundancy with other services (excess?)
  - Demand within the corridor exceeds the capacity of combined projects
  - With all proposed transit, mode split is still heavily weighted to auto use; congestion
  - Project provides a different type of service
  - Project brings high-speed service to additional communities not otherwise served and complements other services

### Redundancy with other services (excess?)



Charting the course for Drange County's NEW future transportation system DIRECTIONS



The Balanced Plan is projected to <u>reduce delay</u> due to congestion by 37 percent, compared to the Baseline, and <u>improve morning peak freeway</u> <u>speeds</u> by 22 percent. Morning peak arterial street <u>speeds are projected to improve</u> by 27 percent over the Baseline. <u>Transit trips are expected to increase</u> by 26 percent, compared to the Baseline, with a <u>moderate expansion of transit systems in</u> the County.

### **OCTA Long Range Transportation Plan**



<u>The Plan is not able to improve</u> <u>travel speeds or overcome</u> <u>roadway congestion</u>

- Speeds will drop 15-20%
- Travel congestion, delays will increase

<u>The Orangeline High Speed</u> <u>Maglev will offer 70-90 mph</u> <u>service, every 5 minutes with</u> <u>stations spaced an average of</u> <u>6 miles apart for easy access.</u>

### **OCTA Long Range Transportation Plan**

Figure 46: Long Range-Transportation Plan alternative costs (in millions)

	Constrained Alternative	Balanced Plan
Freeways	\$6,409	\$11,580
Roadways	\$8,758	\$13,004
Transit	\$13,297	\$16,129
Environmental Cleanup	-	\$237
Total	\$28,464	\$40,950

Note: costs from the constrained alternative to the balanced plan are cumulative. Includes \$921 million of non-Measure M funds (91 Express Lanes revenues and city maintenance of efforts). The Plan spends little (7.8%) for new transit programs and less for new transit infrastructure.

- \$11.6 billion Freeway Construction
- \$13.0 billion Local Streets and Roads
- \$16.1 billion Transit
  \$13.0 billion passenger subsidies
  \$ 2.8 billion new programs/services
- \$ 0.2 billion Environmental cleanup

### The Orangeline High Speed Maglev would add \$5 billion in new transit construction using private funding.

### Not Redundant - Not Superfluous



The Orangeline High Speed Maglev would serve the highly concentrated population in central and western Orange County and connect to Metrolink

### A Valuable Alternative



The Orangeline High Speed Maglev provides an alternative to freeways that will experience 10-20% growth in traffic and increased congestion, even with the Plan improvements in place.

The Orangeline High Speed Maglev will offer the capacity of an 8-lane freeway on a much smaller foot print within the P.E. right-of-way and along other existing railroad tracks.

- Political and community support is uncertain
  - Over half of cities have joined Authority
  - Additional cities are considering joining
  - Additional cities/agencies have passed prior resolutions supporting (Garden Grove, etc.)
  - Public reaction has generally been positive
  - State and federal support also demonstrated
    - SAFETEA-LU, AB2882, State PBI Initiative

- Maglev is <u>assumed</u> to be best technology (to achieve the objectives)
  - Value for system users (recover capex and o&m costs)
  - Value for Orangeline High Speed Maglev Cities
  - Distribution of Economic Benefits
  - Airport Access
  - Traffic Congestion and Air Quality
  - Intra-regional Connections
  - Freight and Container Cargo

- Maglev is judged to be best technology
  - Performance of maglev is superior to other technologies
    - Faster, faster acceleration, lower overall cost, higher capacity, quieter, lower energy consumption, lower maintenance costs
  - Other technologies do not achieve goals
    - Bus, BRT, Light Rail, Heavy Rail, Commuter Rail, Inter-city High Speed Rail
  - Selection not based on "assumption" but on comparative analysis

### **Alternatives Have Been Studied**

Fail         Fail         Fair         Good         Good <th< th=""><th colspan="9">Table 9 6. In Wall Taskaslam, Passasian</th></th<>	Table 9 6. In Wall Taskaslam, Passasian								
Buck         High-Speed HOV         Comm. Bus         Heavy Rall         High-Speed Rall         Magies           Parformance Criteria			Table 3-5: In	itial lechno	logy Screen	ing			
Performance Oriforia         Poor         Poor         Poor         Fair         Good         Good <thgood< th="">         Good         Good<!--</th--><th>Evaluation Criteria</th><th>Buc/ HOV</th><th>High-Speed Bus</th><th>Light Rail</th><th>Comm. Rall</th><th>Heavy Rall</th><th>High-Speed Rall</th><th>Maglev</th></thgood<>	Evaluation Criteria	Buc/ HOV	High-Speed Bus	Light Rail	Comm. Rall	Heavy Rall	High-Speed Rall	Maglev	
Capacity         Poor         Poor         Poor         Fair         Good	Performance Criteria								
Trip Time         Poor         Poor         Fair         Fair         Fair         Fair         Fair         Good	Capacity	Poor	Poor	Fair	Good	Good	Good	Good	
Trip Time Reliability         Poor         Poor         Fair         Fair         Fair         Good	Trip Time	Poor	Poor	Fair	Fair	Fair	Good	Good	
Headway         Fair         Fair         Fair         Good         Fair         Good	Trip Time Reliability	Poor	Poor	Fair	Fair	Fair	Good	Good	
Speed/Accel/Decel         Poor         Poor         Fair         Poor         Fair         Good         Good <td>Headway</td> <td>Fair</td> <td>Fair</td> <td>Good</td> <td>Fair</td> <td>Good</td> <td>Good</td> <td>Good</td>	Headway	Fair	Fair	Good	Fair	Good	Good	Good	
Safety         Poor         Foor         Fair         Fair         Fair         Good         Good           Passenger Confort/Accessibility         Fair         Fair         Fair         Fair         Fair         Fair         Fair         Good         Good         Good           Availability / Relability         Fair         Fair         Fair         Fair         Fair         Fair         Good         Fair         Fair         Fair         Fair         Fair         Fair         Fair <td< td=""><td>Speed/Accel/Decel</td><td>Poor</td><td>Poor</td><td>Fair</td><td>Poor</td><td>Fair</td><td>Good</td><td>Good</td></td<>	Speed/Accel/Decel	Poor	Poor	Fair	Poor	Fair	Good	Good	
Passenger Comfort/Accessibility         Fair         Good	Safety	Poor	Poor	Fair	Fair	Fair	Good	Good	
Availability         Fair         Good	Passenger Comfort/Accessibility	Fair	Fair	Fair	Fair	Fair	Good	Good	
Image         Poor         Poor         Fair         Fair         Fair         Good         Good         Good         Good         Good         Fair         Fair         Fair         Poor         Poor <t< td=""><td>Availability / Reliability</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Fair</td><td>Good</td><td>Good</td></t<>	Availability / Reliability	Fair	Fair	Fair	Fair	Fair	Good	Good	
Geometric Configuration Constraints         Good         Fair         Fair         Fair         Fair         Foor         Poor         Poor           Expandability         Fair         Fair         Good         Good </td <td>Image</td> <td>Poor</td> <td>Poor</td> <td>Fair</td> <td>Fair</td> <td>Fair</td> <td>Good</td> <td>Good</td>	Image	Poor	Poor	Fair	Fair	Fair	Good	Good	
Expandability         Fair         Fair         Good         Fair	Geometric Configuration Constraints	Good	Good	Fair	Fair	Fair	Poor	Poor	
Energy Type & Use         Diesel/CNG         Diesel/CNG         Electric         Diesel         Electric         Electric </td <td>Expandability</td> <td>Fair</td> <td>Fair</td> <td>Good</td> <td>Good</td> <td>Good</td> <td>Good</td> <td>Good</td>	Expandability	Fair	Fair	Good	Good	Good	Good	Good	
Capital Cost         Good         Good         Fair         Good         Fair         Mo	Energy Type & Use	Diesel/CNG	Diesel/CNG	Electric	Diesel	Electric	Electric/ Diesel	Electric	
O & M Cost         Good         Good         Fair         Fair         Fair         For         Poor         Poor           Tech. Maturity         Good         Fair         Poor	Capital Cost	Good	Good	Fair	Fair	Fair	Fair	Fair	
Technology Criteria         Composition         Good         Fair         Poor           Projeot Criteria         No         No         Yes         Yes         Yes         Yes         Yes         Yes         Yes         Y	O & M Cost	Good	Good	Fair	Fair	Fair	Poor	Poor	
Tech. Maturity         Good         Fair         Poor	Technology Criteria								
Tech. Stability         Good         Fair         Poor           Projeot Criteria         No         No         Yes	Tech. Maturity	Good	Good	Good	Good	Good	Fair	Poor	
Competition         Good         Fair         Poor           Projeot Criteria         No         No         Yes	Tech, Ştability	Good	Good	Good	Good	Good	Fair	Poor	
Cal. PUC Requirements         Good         Fair         Poor           Projeot Criteria         No         No         Yes	Competition	Good	Good	Good	Good	Good	Fair	Poor	
US CodelStandards         Good         Good         Good         Good         Good         Good         Fair         Poor           Project Criteria         No         No         No         Yes         Yes <t< td=""><td>Cal. PUC Requirements</td><td>Good</td><td>Good</td><td>Good</td><td>Good</td><td>Good</td><td>Poor</td><td>Poor</td></t<>	Cal. PUC Requirements	Good	Good	Good	Good	Good	Poor	Poor	
Project Criteria         No         No         No         Yes         Yes - Shared         Yes	US Code/Standards	Good	Good	Good	Good	Good	Fair	Poor	
Exclusive ROW         No         No         Yes         Yes         Yes         Yes         Yes         Yes         Yes           Integrated Baggage         No - By passengers         No - By passengers         Possible         Possible         Possible         Possible         Yes         Yes         Yes           Cargo/Freight         Yes - Ilmited         Yes - Ilmited         No         No         No         No         Yes         Yes           Community Acceptance         Good         Good         Good         Good         Good         Good         Good         Good         Fair         Good         Fair         Good         Fair         Good         Fair         Fair         Fair         Fair         Fair         Fair         Fair         Fair         Fair         Good         Good         Good         Good         Good         Good         Good         Good         Good         Fair         Good	Project Criteria								
Integrated Baggage Handling         No – By passengers         No – By passengers         Possible         Possible         Possible         Yes         Yes           Cargo/Freight         Yes – Ilmited         Yes – Ilmited         Yes – Ilmited         No         No         No         Yes         Yes           Community Acceptance         Good         Fair         Good         Fair         Good         Good         Good         Good         Good         Good         Fair         Good	Exclusive ROW	No	No	Yes	Yes – Shared	Yes	Yes	Yes	
Cargo/Freight         Yes - limited         Yes - limited         Yes - limited         No         No         No         Yes         Yes           Community Acceptance         Good         Good         Good         Good         Good         Good         Unknown         Unknown         Unknown         Unknown         Unknown         Unknown         Unknown         Unknown         Good         Fair         Good         Good         Good         Good         Fair         Good         Fair         Good         Fair         Fair         Good         Fair	Integrated Baggage Handling	No – By passengers	No – By passengers	Possible	Possible	Possible	Yes	Yes	
Community Acceptance         Good         Fair         Good         Good<	Cargo/Freight	Yes – limited	Yes – limited	No	No	No	Yes	Yes	
Acceptance by Related Providers         Good         Good         Good         Good         Good         Good         Fair         Good           Fits Area/Developments         Good         Good         Good         Good         Good         Good         Fair         Sood         Good         G	Community Acceptance	Good	Good	Good	Good	Good	Unknown	Unknown	
Fits ArealDevelopments         Good         Good         Good         Good         Good         Fair         Fair           Noise impacts         Fair         Fair         Fair         Fair         Fair         Fair         Good         Foor         Poor         <	Acceptance by Related Providers	Good	Good	Good	Good	Good	Fair	Good	
Noise impacts         Fair         Fair         Fair         Fair         Fair         Good         Good         Good         Good         Good         Good         Fair         Fair         Fair         Good         Good         Good         Good         Fair         Fair         Fair         Good         Good         Good         Fair         Fair         Fair         Fair         Good         Good         Good         Good         Fair         Fair         Fair         Good         Good         Good         Fair         Fair         Good         Good         Good         Fair         Fair         Fair         Good         Good         Good         Good         Fair         Fair         Fair         Good         Good         Good         Fair         Fair         Fair         Good         Good         Fair	Fits Area/Developments	Good	Good	Good	Good	Good	Fair	Fair	
Visual impacts Good Good Good Good Good Poor Poor	Noise Impacts	Fair	Fair	Fair	Fair	Fair	Good	Good	
	Visual impacts	Good	Good	Good	Good	Good	Poor	Poor	
Other Impacts (Including Fair Fair Good Fair Good Good Good Good Good	Other Impacts (including air quality)	Fair	Fair	Good	Fair	Good	Good	Good	

Source: UKS Corp., September 2001

### **Alternatives Have Been Studied**

Table 3-6: Technology Screening/Applicability							
Technology	Appropriate for Incremental Improvements	Appropriate for Major Investment	Comments				
Bus							
Conventional Bus	No	No	Could be used as support for major investment				
Bus/HOV Lanes	Yes	No	Used as support for major investment				
High-speed Express	Yes	No	Used as support for major investment				
Fixed Guideway							
Light Rail	No	No	Non-exclusive guideway				
Commuter Rail	No	No	Non-exclusive guideway				
Heavy Rail	No	No	Guideway cannot be converted				
AGT/People Mover	No	No	Not enough capacity				
Monorail	No	No	Not enough capacity				
High-Speed Rail	No	Yes	Long-term investment only				
High-Tech							
Low-Speed Maglev	No	No	Cannot meet system roles				
High-Speed Maglev	No	Yes	Long-term investment only				
Source: URS Corp., September	r 2001		- 8				

# **OCTA Locally Preferred Strategy**



### Light Rail or Maglev or Both?

### End to End Travel Time

#### (35 miles Santa Ana to downtown LA)

Station Spacing	Average	Average Wait Time	Travel Time
Spacing	Sheen (mhu)		
1 *	30	12-40	91-119
4 **	70-90	3	26-35

- \* OCTA Locally Preferred Strategy
  - Centerline: Santa Ana to Cypress
  - •BRT: Cypress to Green Line
  - •Green Line: to Blue Line
  - •Blue Line: to downtown L.A.

#### \*\* Orangeline High Speed Maglev

Maglev: Santa Ana to downtown L.A.



### High Speed Maglev Operating in Shanghai













Shanghai

19 miles

267 mph











Since 2003 99.9% Reliable



Built in 3 years



12 million passengers

100-mile extension





### Maglev – Coming to Japan

- To launch its High Speed Maglev in 2025
- Will replace the Shinkansen High Speed Rail from Tokyo to Osaka and Nagoya "reached its technology and capacity limits"



High Speed Rail



High Speed Maglev



### Maglev – Coming to Munich









#### **Central Station – Airport**

Route length	approx. 38 km
Stations	2
Travel time	10 minutes
Vehicles	5, each 3 sections





# **OCTA Staff Questions**

January 18, 2008

- Ridership assumptions
- Right-of-way assumptions
- Financial Plan
- Project schedule
- Fare schedule
- Community support
- Interface with other transit systems
  - Bus, Metrolink, CAHSR
- Station locations in O.C.

- Ridership assumptions
  - Ridership estimate: 255,000 per day in 2027
  - Ridership modeling assumptions are similar to other maglev studies; we used SCAG model
  - Recognize value people put on time and cost;
    - avoiding stress, gaining comfort and safety
  - Reflect that traffic conditions will get worse, not better, under the RTP and LRTPs

### **Draft Regional Transportation Plan**

Large Investment (\$569 Billion) Unable to Meet Growing Demand



### **More Congestion - Slower Speeds**

#### FIGURE 5.1 AVERAGE DAILY SPEED

20.00



### More Congestion – More Delays

#### FIGURE 5.2 DAILY PERSON HOURS OF DELAY



35

### More Congestion – More Trucks

#### FIGURE 5.4 AVERAGE DAILY HEAVY DUTY TRUCK DELAY



# **OCTA Staff Questions**

Growth and Latent Demand – If you build it they will come.

Table 3-6.12 – 2030 Growth Rates					
	Growth Rates				
Alternative	Northbound	Southbound			
No Build	1.21 - 1.85	1.06 - 1.45			
4 Mixed Flow + 1 HOV	1.85 - 2.30	1.46 - 1.85			
4 Mixed Flow + 2 HOV	1.57 - 2.34	1.46 - 1.88			
5 Mixed Flow + 1 HOV	1.65 - 2.46	1.55 - 1.97			

### More hours of delay and congestion (Level of Service F)

Table 3-6.14 –Hours of LOS F during each 24-hour Period								
Verr	No E	Build	4+	4+1		- 2	5+1	
1 ear	NB	SB	NB	SB	NB	SB	NB	SB
2013	7	13	1	0	1	0	0	0
2030	17	6	7.5	13.5	7.5	13.5	$\sum$ 4	4.5

Source: I-5 Corridor Improvement Project Traffic and Transportation Study Technical Addendum, August, 2006

- Competition and interaction with other auto and transit options
- All planned and programmed improvements in most recent RTP
- Most recent SCAG regional travel models
- 3,217 TAZs more detailed analysis
- Modified for proper modeling of maglev
- 2025 socio-economic forecasts

## **OCTA Staff Questions**

### LAX-Irvine Maglev Study

People were asked, "Why do you Ride Metrolink?"					
Less	More Less Safety				
Stressful	Comfortable	Expensive			
82%	37%	35%	34%		

Metrolink passengers who made the same trip prior to using Metrolink (N = 526) attribute their switch to Metrolink because Metrolink is "less stressful," mentioned by 82 percent of participants. Other top ranking motivators for change include: "more comfortable" (37%), "less expensive" (35%), and "safety" (34%).



### There is a Market for a system that is:

### Faster, Safer, More Comfortable,

### Less Stressful, Lower in Cost



- Right-of-way assumptions
  - Same assumption of other maglev studies
  - Public rights-of-way provided at no cost
  - Aerial alignment (allows other at-grade uses)
  - Financial plan could absorb cost; fairness and equity is the issue
  - Some private rights-of-way required at cost

### Financial Plan

- Project Surplus \$23B
- Reserves\$ 2B
- Station / Feeder Services
- Investor Earnings \$23B
- User Cost Savings
- User Delay Savings
- Total Benefits
- Project Cost

\$21B

\$ 3B

\$36B

\$98B

\$23B

- Financial Plan
  - Dense, heavily congested corridor
  - Fast, convenient service
    - 70-90mph; 5 minutes frequency; 6-mile station spacing
  - Affordable: less cost than auto
    \$3,000 \$18,000 per year savings
  - Connects three airports
    - Palmdale, Burbank, Orange County
  - Passenger and freight

- Financial Plan
  - Project Cost (2007\$) = \$19 B
  - 255,000 riders in 2027 (5% of market)
    SCAG ridership models
  - Average Fare: \$9.00-\$18.00
    - (91 Express Lane \$10.00 10 miles)
    - (Virginia toll road \$41.46 31 miles)
  - Revenues: Passenger Fares, Cargo Fees, Station Concessions, Advertising

Maglev Line	Daily	Riders	Riders	Miles
	Riders	per Mile	per Station	per Station
IOS (WLA-LACBD-Ontario)	65,000	1,204	16,250	18.0
IOS+LAX	115,000	1,917	23,000	15.0
IOS+LAX+Palmdale	205,000	1,627	25,625	18.0
LAX - Palmdale	102,500	1,424	20,500	18.0
LAX - LACBD - Palmdale	141,500	1,489	23,583	19.0
Orangeline (PMD-LACBD-Irvine)	255,000	2,361	14,167	6.4
LAX-Long Beach-Irvine	124,589	2,265	11,326	5.5
LAX-LACBD-Irvine	155,360	2,428	19,420	9.1
LACBD-WLA-LAX-LB-Irvine	202,400	2,933	20,240	7.7

- Financial Plan
  - Serves area projected to grow from 13 to 17 million by 2050
  - Provides an essential service
  - Offers significant return on investment
  - Generates positive cash flow linked to inflation
  - Adds capacity to a congested corridor
  - Offers better service at lower cost

Project schedule



- Fare schedule
  - Has not been set
  - Likely vary by time of day, distance, etc.
  - Set to achieve ridership and financial objectives
  - Reflect public interests

- Interface with other transit systems (e.g. Bus, Metrolink, CAHSR)
  - Seamless connections and transfers
  - Coordinated fare payment
  - Joint Marketing
  - Coordinated feeder services
  - Anticipate increased ridership on other systems

- Community Support
  - Over half of cities have joined Authority
  - Additional cities are considering joining
  - Additional cities/agencies have passed prior resolutions supporting (Garden Grove, etc.)
  - Public reaction has generally been positive
  - State and federal support also demonstrated
    - SAFETEA-LU, AB2882, State PBI Initiative
  - Outreach will continue in next EIR phase

- Station Locations
  - To be decided in next phase
  - Orange County Stations assumed in ridership modeling:
    - Irvine
    - Tustin
    - Santa Ana
    - Garden Grove/Anaheim
    - Stanton
    - Cypress



Irvine Transit Center

ut pa Technologies 2007 Tele Atlas inc. 111111111 100%



52

ner



West Washington Avenus West 11th Street

thistreet

22

West 5th Stree West 2nd Street

o Pointer 33°45'38.84" N 117°52'47.51" W elev 117.11 T-North Baker Street reterman Street orth Lowell Street

Santa Ana

West 1st Street

2007-

West Myrtle Street

Europa Technologiest 2007 Tele Atlas Bush Street

Santa Ana Station

Enclifeth Educet

West Walnut Street 2 3 4 5 5

West Pine Street









- Threats to RTP Approval
  - Financial Constraint Requirements
    - No letter of Commitment
    - Meets Reasonably Available Funding
  - Air Quality Compliance
    - If Feds take project out, no longer compliant
    - Project's air quality benefits not included in RTP
  - Lack of Right-of-Way agreements
    - No different than many other projects; not a federal RTP issue
  - Delay in RTP approval; loss of all federal funds
    - SCAG is evaluating project's for compliance

 Information given to the SCAG Maglev Task Force and Transportation & Communications Committee was factually incorrect.

stated that the Orangeline is more of a light-rail line that will run from Union Station to Central Orange County with a proposed fourteen stops within a distance of thirty-three miles which is not conducive to a high-speed rail or Maglev system. **Conducted** added that another issue is MTA and OCTA own the Pacific Electric Right-of-Way and there does not appear to be any movement to give the Orangeline that land. Both entities are planning for some sort of transit in that corridor. Therefore, it made sense to move the Orangeline into the transit matrix rather than leave it in the HSRT matrix.

- "Orangeline is more of a light-rail line that will run from Union Station to Central Orange County with a proposed fourteen stops within a distance of thirtythree miles which is not conducive to a high-speed rail or Maglev system." (Report to SCAG Maglev Task Force and SCAG TC&C Committee)
- These assertions are wrong, the facts are:
  - 108 miles Palmdale to Irvine
  - 18 stations modeled; no final decision on stations
  - Speeds comparable to other maglev lines (70 to 90 mph)

 "After the several presentations that have been made to OCTA, the Orangeline has been eradicated and will more than likely be a conventional transit rail line."

responded that after the several presentations that have been made to OCTA, the Orangeline has been eradicated and will more than likely be a conventional transit rail line. After some discussion agreed to proceed with removing the Orangeline from the HSRT matrix and including it in the Transit discussion.

Concurrence was made to support staff recommendation to remove the Orangeline from the HSRT matrix and include it in the Transit discussion.

## Conclusion

- We urge OCTA to support project in RTP
  - Significant benefits to Orange County
  - Delays will increase costs and result in loss of transportation and economic benefits
  - Lack of your support will hamper efforts to secure private funding
  - Project does not threaten other projects; helps make other transit projects perform better
  - Increases investment in transit
  - Makes use of an idle asset
  - Impacts extend beyond Orange County





#### **ORANGELINE DEVELOPMENT AUTHORITY**

### **ARCADIS**

**A Public Private Partnership** 

For further information call 310.871.1113

www.orangeline.calmaglev.org