



# The LOSSAN Optimization Study

Update and material preview to TAC members

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LOSSAN Rail Corridor Agency | September 3<sup>rd</sup>, 2020

# Management Summary



- The LOSSAN Optimization Study leads the way to a premier, customer-focused and integrated passenger rail system
- The Study has developed a roadmap of optimized and integrated service plans through 5 tasks
- New schedules will deliver services that are simple to market, easier to operate and which drive transparent investment needs
- Operators can access new markets through a system that offers anywhere-to-anywhere travel
- Train slot regularization provides connections-by-design at transfer stations on the LOSSAN Corridor
- Agencies will have a catalog of train paths that can be activated to tailor supply to demand
- Identified infrastructure investments are linked to service outcomes and are prioritized on operating needs
- Proposed recommendations will transform passenger rail in Southern California through three phases
- In the long-term, the study leverages regional plans to meet 2018 State Rail Plan Goals
- In the mid-term, the study recommends prioritizing key projects to support service growth
- To implement the study's near-term service improvements, agencies must plan and agree on a day-to-day operating plans collectively

# The LOSSAN Optimization Study leads the way to a premier, customer-focused and integrated passenger rail system



## Passenger services are restructuring:



Peak-focused with gaps



Frequent all-day



Irregular, duplicated



Regular-repeating



Corridor focused



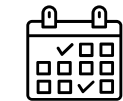
Network connected



Uncoordinated planning



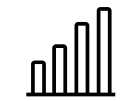
Joint planning



Frequent schedule changes



Consistent schedules with rare changes
















Uncertain incremental growth



Step change expansion

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# The LOSSAN Optimization Study has developed a roadmap of optimized and integrated service plans through 5 tasks

Task			Activities	Status	
1		<b>Review and document current operations</b>		Reviewed prior initiatives, current infrastructure and operating state to inform the study	 Complete
2		<b>Engage our stakeholders</b>		Hold operator meetings with Amtrak, BNSF, Metrolink, NCTD and UPRR at project milestones	 Final operator meeting in Sept
3		<b>Develop optimized and integrated service and operating scenarios</b>		3 concepts were developed iteratively to expand service to 2028 (see subsequent slides)	 Final review
4		<b>Capital project review &amp; Plan development</b>		Necessary capital projects have been identified and prioritized	 Documentation
5		<b>Cost and revenue options</b>		A report on cost and revenue sharing for passenger rail services operating on the LOSSAN rail corridor is available	 Complete

# New schedules will deliver services that are simple to market, easier to operate and which drive transparent investment needs



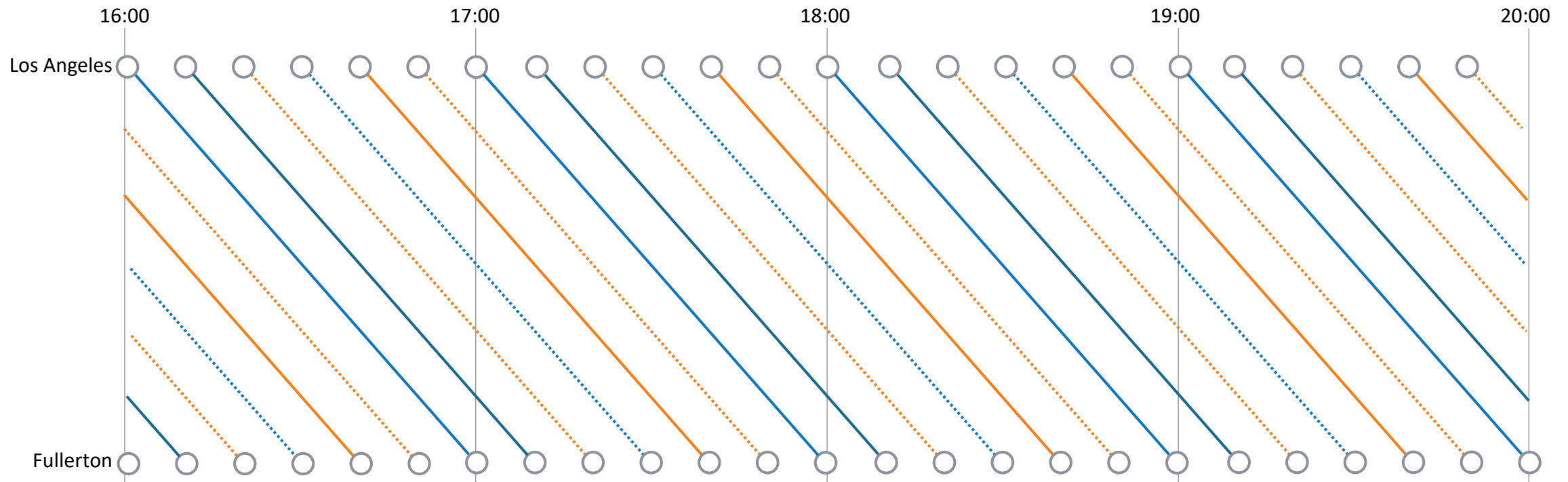
## Benefits of pulse schedules

<b>Service</b>	<b>Anywhere to anywhere connectivity</b>		<ul style="list-style-type: none"><li>– Simple to market</li><li>– Attracts diverse types</li><li>– Leads to increased revenue</li></ul>
<b>Operations</b>	<b>Repetitive, consistent operations</b>		<ul style="list-style-type: none"><li>– Increased equipment productivity</li><li>– Increased crew productivity</li><li>– Easier to operate and dispatch</li></ul>
<b>Infrastructure</b>	<b>Service driven investments</b>		<ul style="list-style-type: none"><li>– Provides schedule consistency</li><li>– Improved recovery from disruptions</li><li>– Investments linked to operating needs</li></ul>

# Agencies will have a catalog of train paths that can be activated to tailor supply to demand

Illustrative

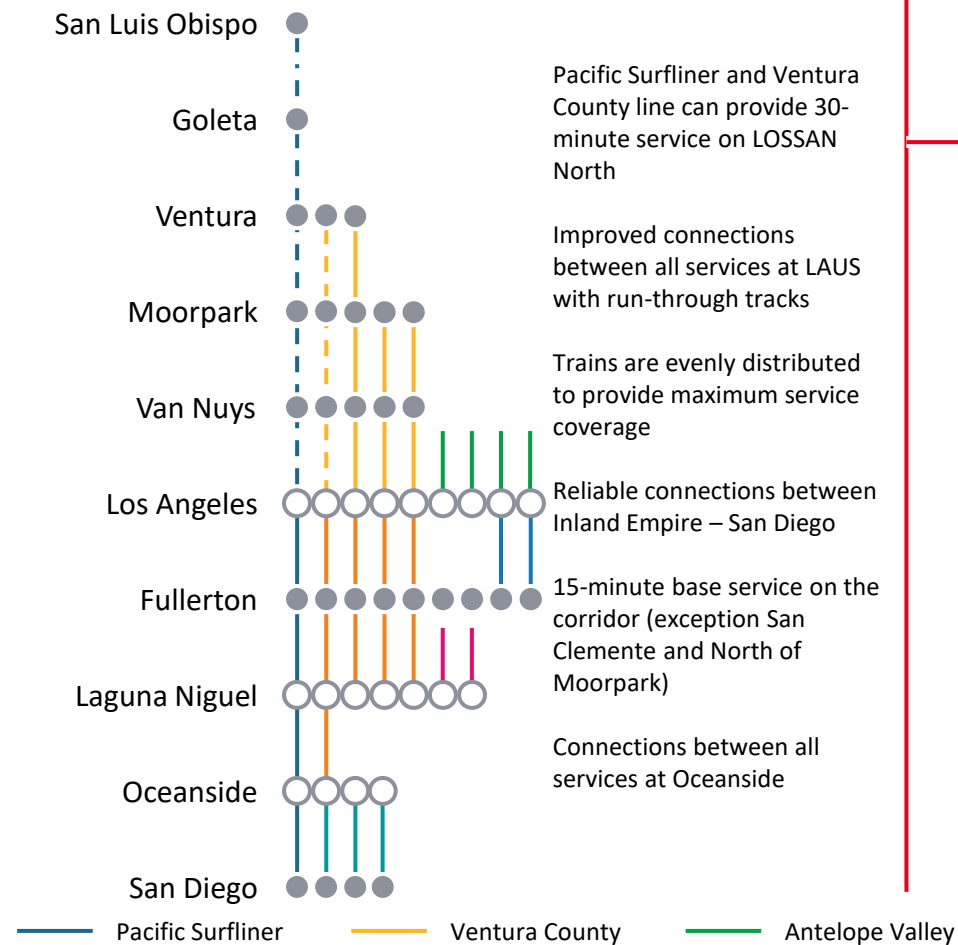
Train slot activation enables the base timetable structure to be retained



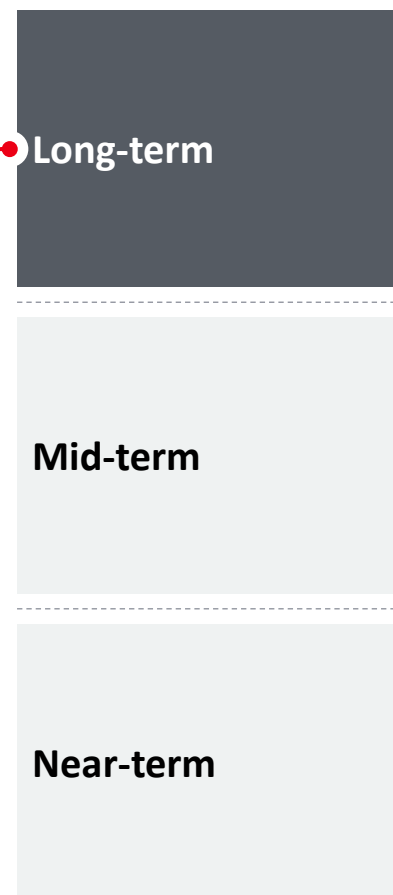
Pacific Surfliner    Orange County    91 Line/ Perris    Base slot    Peak slot

# Proposed recommendations will transform passenger rail in Southern California through three phases

## Corridor services



## Planning horizons



## Proposed implementation results

- Build services to meet 2027 CSRP objectives
- Support the 2028 Olympics by increasing service frequencies
- Leverage early HSR investments and completion of regional infrastructure project plans

# In the long-term, the LOSSAN Optimization study leverages regional plans to meet 2018 State Rail Plan Goals



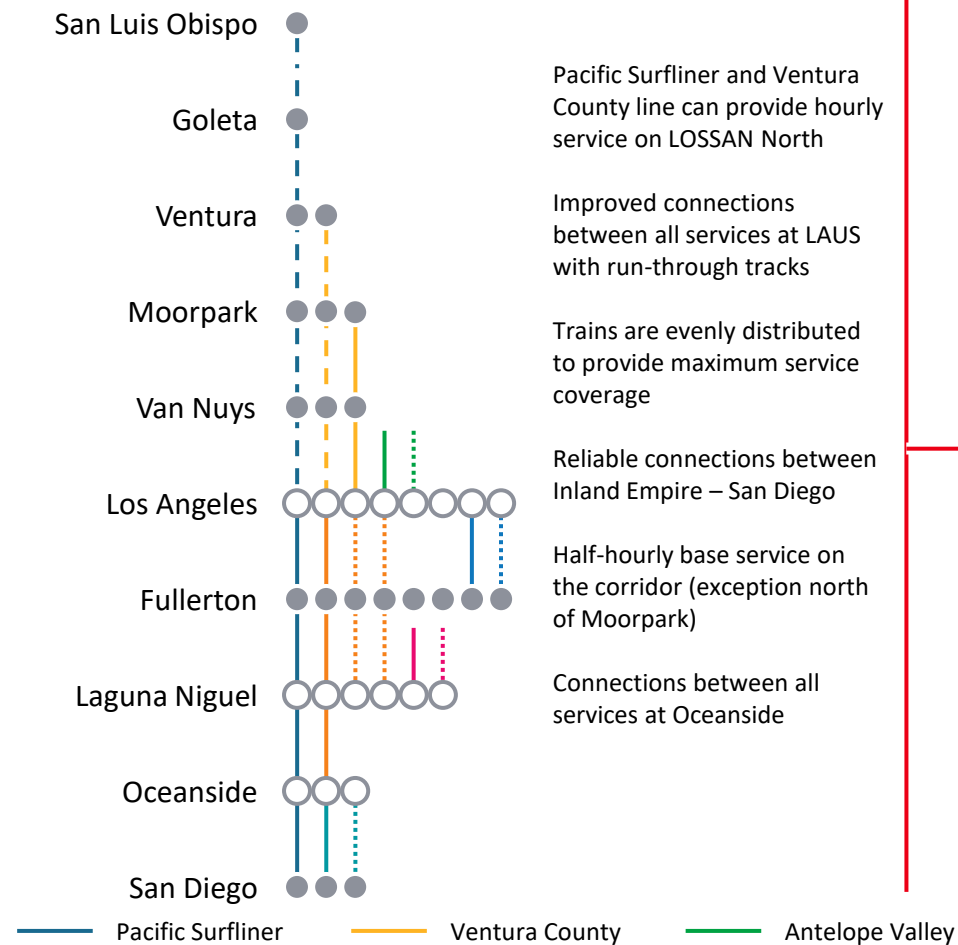
## Programs reflected in the LOSSAN Optimization Study

- ❶ Santa Barbara Subdivision upgrades
- ❷ Four through-track platforms at LA Union station
- ❸ Early HSR investments on the San Bernardino Subdivision
- ❹ Metrolink's SCORE program
- ❺ San Diego's Corridor Infrastructure Development Plan

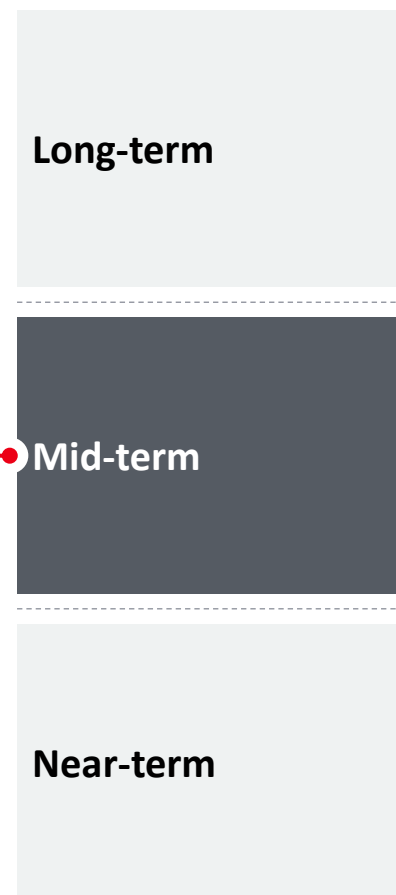
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# Proposed recommendations will transform passenger rail in Southern California through three phases

## Corridor services



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## Proposed implementation results

- Build services to meet 2027 CSRP objectives
- Support the 2028 Olympics by increasing service frequencies
- Leverage early HSR investments and completion of regional infrastructure project plans
- Fill in service gaps
- Utilize through-tracks at LA Union Station
- Prioritize key projects from Metrolink SCORE and SANDAG's Infrastructure Development Plan

# In the mid-term, the LOSSAN Optimization study recommends prioritizing 8 key projects to support service growth



## Recommended projects for prioritization

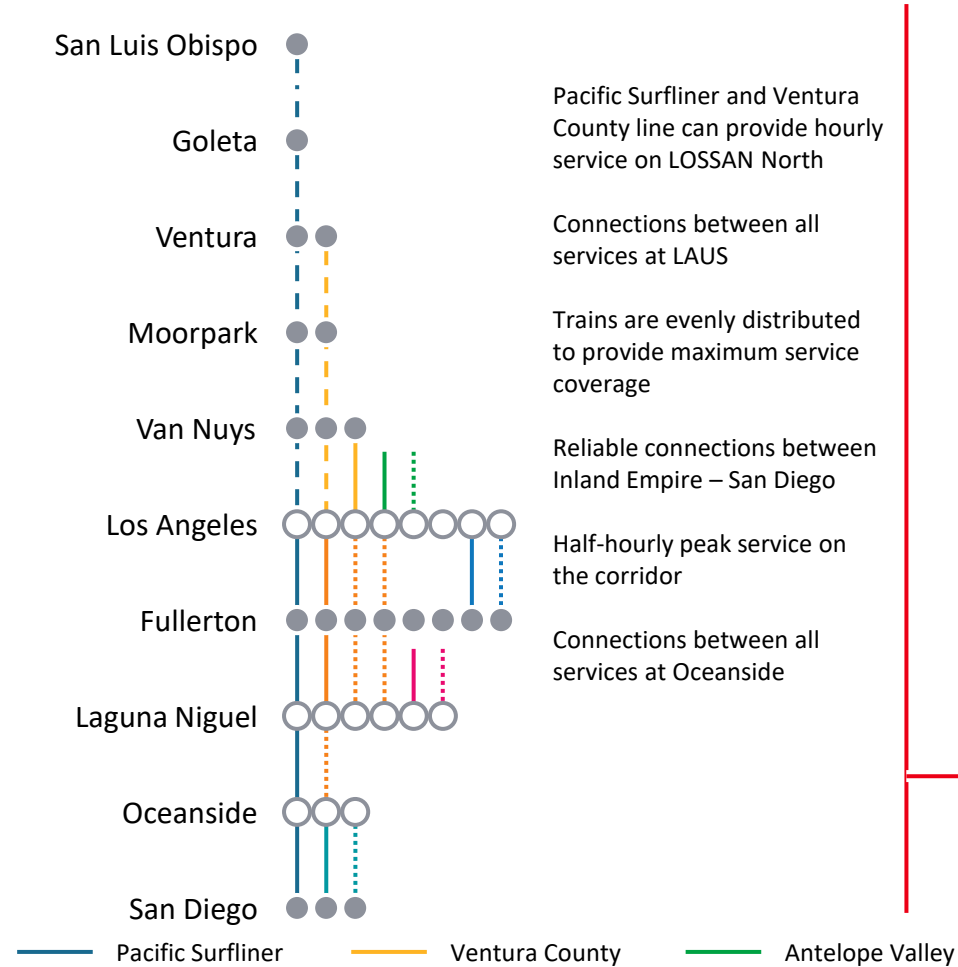
- 1 Santa Barbara siding extensions, maintenance and CTC
- 2 Travel time savings between Santa Barbara and Moorpark
  - Dwell reduction program and /or line speed increases and/or consist performance improvement OR
  - Seacliff siding extension OR
  - double-tracking south of Santa Barbara
- 3 Carpinteria and Oxnard stations improve schedule robustness
- 4 Simi Valley Station double tracking project
- 5 Holdout rules at Chatsworth and Moorpark to be removed
- 6 Serra siding extensions and CP Songs relocation
- 7 San Dieguito and Batiquitos Lagoon projects
- 8 Dwell reduction program OR Carlsbad Village project

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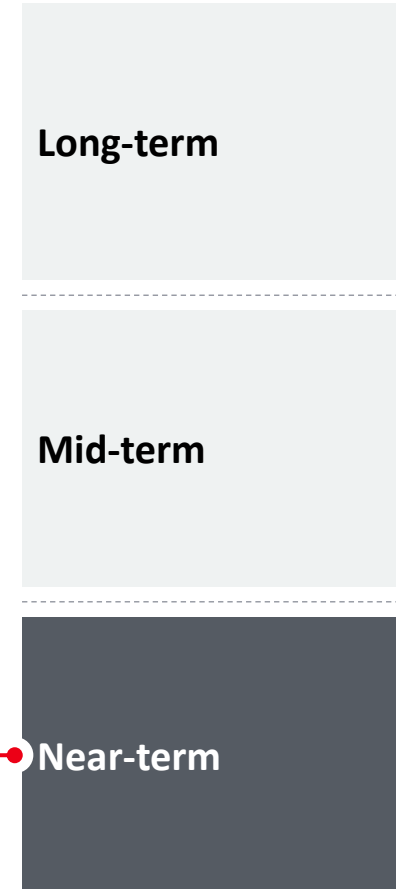
# Proposed recommendations will transform passenger rail in Southern California through three phases



## Corridor services



## Planning horizons



## Proposed implementation results

- Build services to meet 2027 CSRP objectives
  - Support the 2028 Olympics by increasing service frequencies
  - Leverage early HSR investments and completion of regional infrastructure project plans
- 
- Fill in service gaps
  - Utilize through-tracks at LA Union Station
  - Prioritize key projects from Metrolink SCORE and SANDAG's Infrastructure Development Plan
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- Restructure services using pulse schedules
  - Deliver consistent frequencies and connections-by-design ("anywhere to anywhere travel")
  - Provide a basis to grow service from depressed COVID levels with improved reliability

# To implement the study's near-term service improvements, agencies must plan and agree on a day-to-day operating plans collectively

## Four themes to build upon



Joint planning



Design services to cater to all travel needs



Coordinate services



Improve corridor efficiencies by removing duplicate service



Monitor schedule performance



Refine schedules and processes based on observed data within timetable structure



Rebuild service



Activate further train slots as demand recovers and capital projects come online

# Thank you!

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