

# Peninsula Rail Corridor Capacity Analysis

*(Caltrain and HSR Service)*

*Prepared for : MTC, Planning Committee  
Location: MTC Offices  
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# High Speed Rail Context

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- HSR Priority Segments
  - Merced to Fresno
  - Fresno to Bakersfield
- HSR Business Plan
  - Initial Operating Segment being defined
  - Extend North? South?
- SF to SJ Segment
  - Design and EIR/EIS work on hold

# Peninsula Vision

- Blended System
- What?
  - Support both Caltrain and HSR
  - Upgrade railroad from SJ to Transbay Terminal
  - Maximize use of existing tracks
- Why?
  - Minimize community impact
  - Lower project cost
  - Advance project delivery

# Corridor Capacity Analysis

- Is the “blended system” concept feasible?
- Multiple considerations

## Operational

- Infrastructure
- Funding Strategy

# Scope of Work

- LTK Engineering Services
- Build simulation model
  - Main Line
  - Terminals
- 1<sup>st</sup> set of model runs / analysis
- Preliminary findings
- 2<sup>nd</sup> set of model runs / analysis
- Draft analysis

# Model Description: System, Trains

<b>System</b>	Electric Advanced Signal System
<b>Trains</b>	Caltrain EMU trains HSR trains

# Model Description: Tracks, Stations

<b>Base</b>	Mainline (4 <sup>th</sup> & King to Diridon)
<b>HSR Stations</b>	4 <sup>th</sup> and King Millbrae Diridon

# Model Description: Passing Tracks

<b>Tested</b>	North (4 track section)  Middle (4 track section)
<b>To Be Tested</b>	South (4 track section)  Long (3 track section)

## Preliminary Findings

- Blended system concept has merit
- Potential: Up to 10 trains / hour / direction

# of Trains	With Passing Tracks	Without Passing Tracks
Caltrain	6	6
HSR	2	4

# Tested Service Characteristics

	Caltrain	HSR
<b>Travel Speeds</b> ( <i>up to</i> )	79mph, 110 mph	79mph, 110 mph
<b>Headways</b> ( <i>peak hour</i> )	6 trains (5 - 20 min.)	1 train (60 min.) 2 trains (30 min.) 3 trains (20 min.) 4 trains (15 min.)
<b>Station Stops</b> ( <i>one-way</i> )	13 -14	3

# Next Steps

## Fall

- Capacity Analysis Part I Report

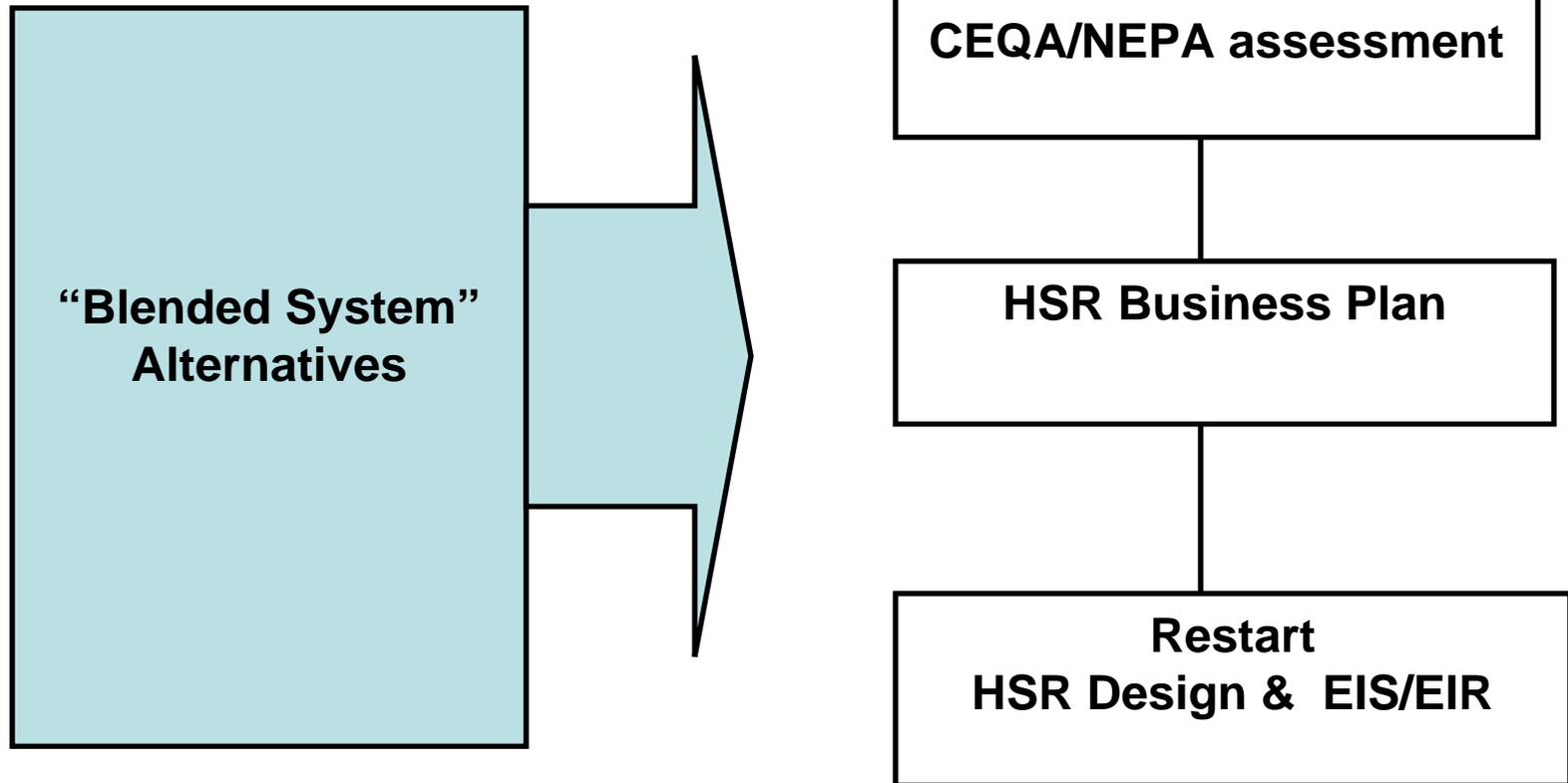
## Winter

- Capacity Analysis Part II
- Conduct Grade Crossings Study

## TBD

- Project Alternatives for EIR/EIS

# Input to HSR



# Discussion