

FRA-led Regional Rail Planning Study

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Development**

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Regional Rail Planning

FRA Planning Framework

Case Study: Southwest Multi-State Study

Southeast Regional Rail Planning Study

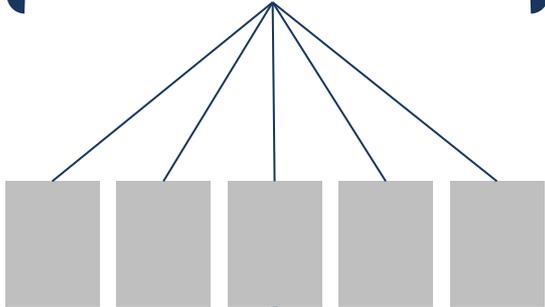


FRA Planning Framework

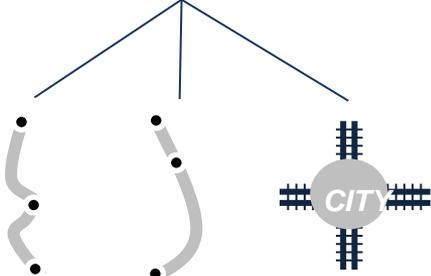
National Planning Parameters

Standardized Criteria, Tools, & Guidance

“Tier 0”
Regional Rail Plans



Tier I
Corridors & Terminal Areas



Tier II
Projects



Contents	<ul style="list-style-type: none"> • Criteria for federal investment • Models, methodologies, & guidance
NEPA	Guidance for project sponsors
FRA Role	Establish investment policies and develop models/guidance

What does the map look like?



FRA Planning Framework

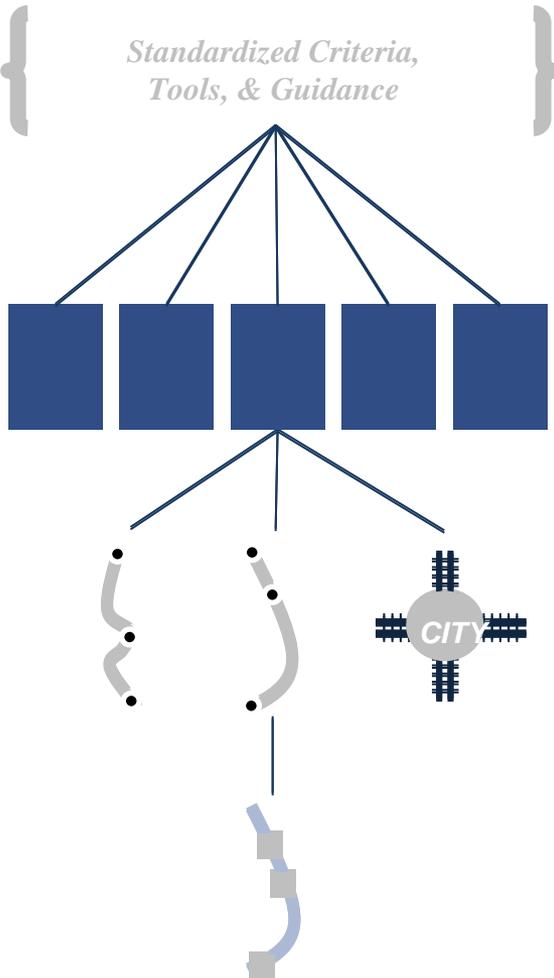
National Planning Parameters

Standardized Criteria, Tools, & Guidance

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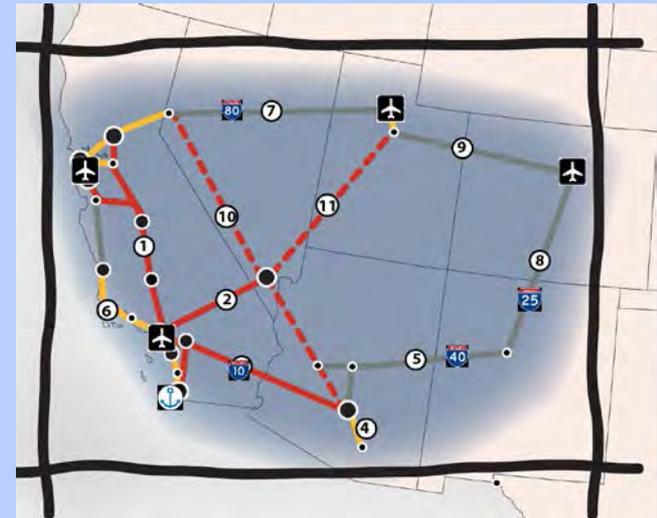
Tier I Corridors & Terminal Areas

Tier II Projects



Contents	<ul style="list-style-type: none"> • Regional network vision • Regional service plan • Institutional/financial plans
NEPA	n/a
FRA Role	<ul style="list-style-type: none"> • Provide toolkits and best practices • Facilitate cross-border institutional relationships • Fund projects consistent with adopted regional plans

What does the map look like?

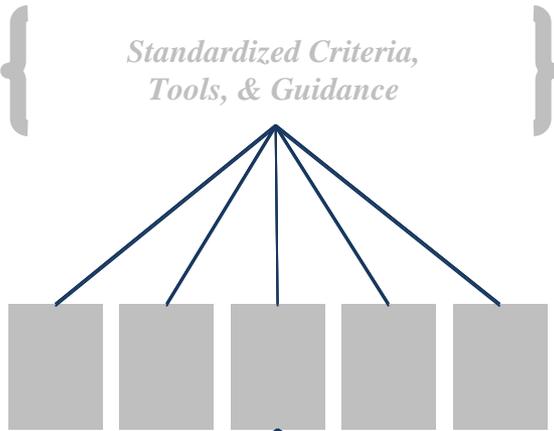


FRA Planning Framework

National Planning Parameters

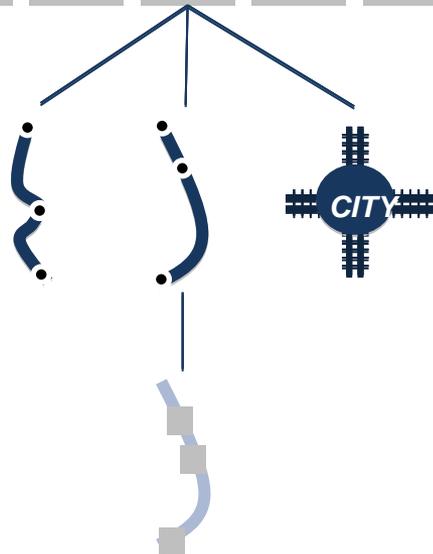
Standardized Criteria, Tools, & Guidance

“Tier 0” Regional Rail Plans

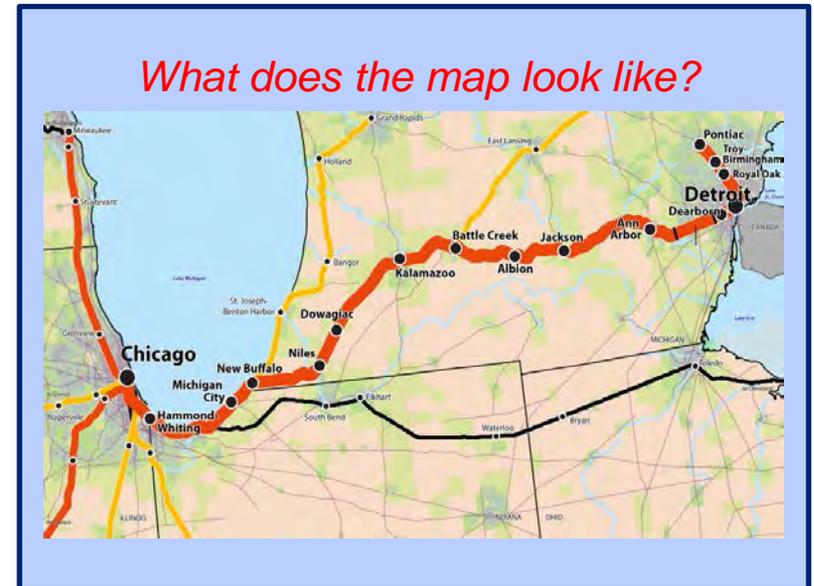


Tier I Corridors & Terminal Areas

Tier II Projects



Contents	<ul style="list-style-type: none"> • Corridor alignments • Terminal area plans • Detailed service plans
NEPA	Service-level (Tier I)
FRA Role	<ul style="list-style-type: none"> • Provide service development planning and NEPA guidance • Review/approve grant or loan deliverables



FRA Planning Framework

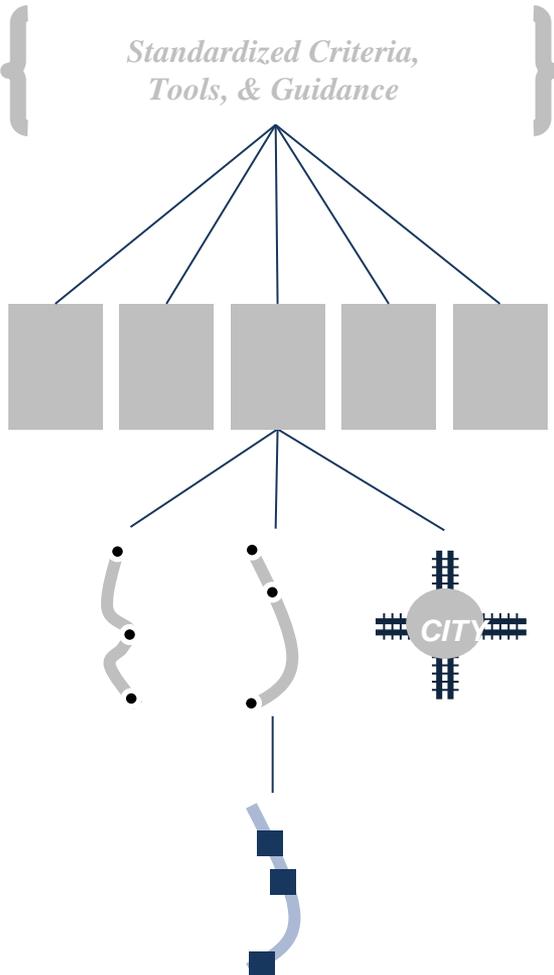
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Standardized Criteria, Tools, & Guidance

“Tier 0” Regional Rail Plans

Tier I Corridors & Terminal Areas

Tier II Projects

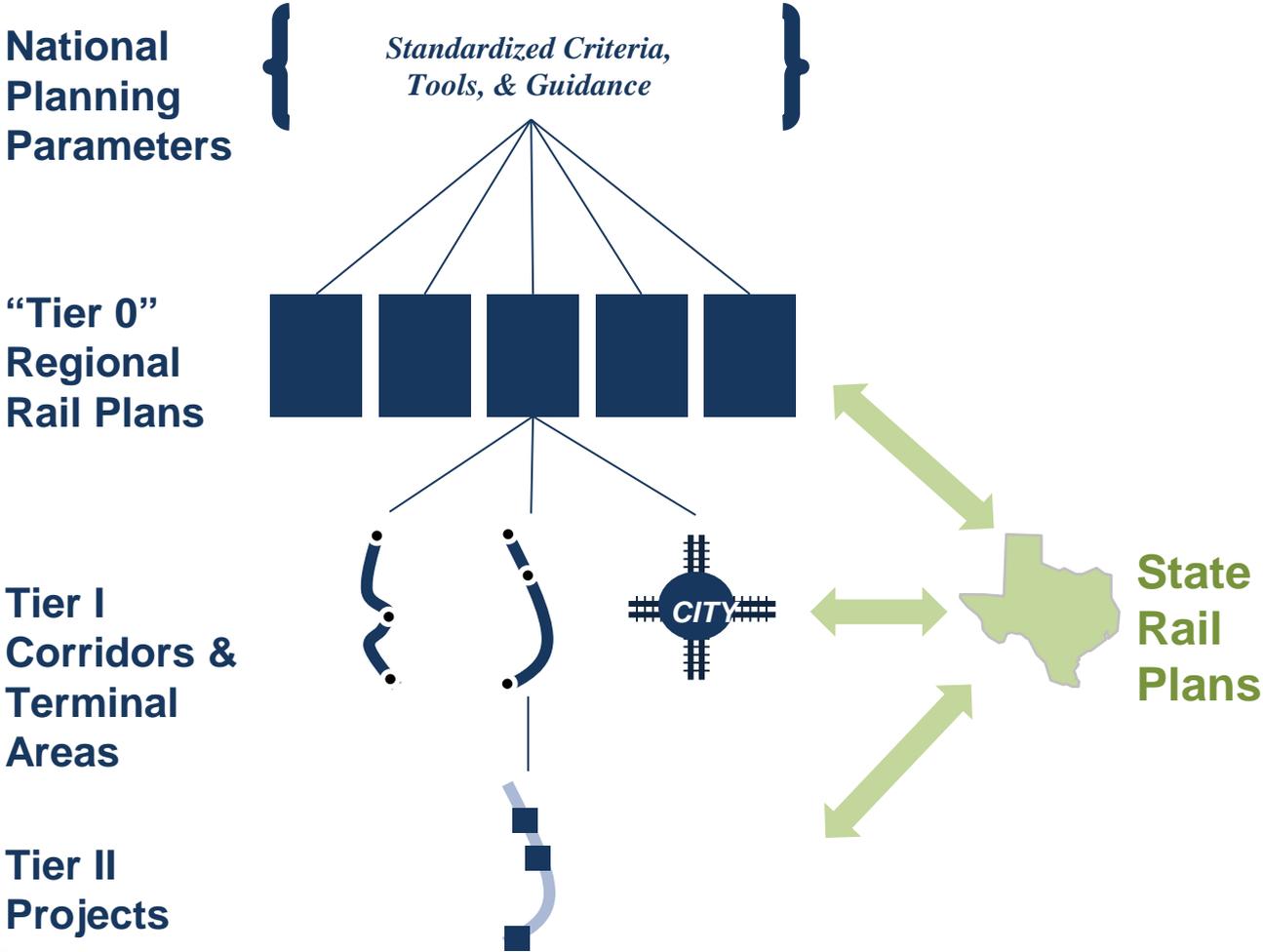


Contents	<ul style="list-style-type: none"> • Project-level engineering • Construction/delivery plans • Project management plans
NEPA	Project-level (Tier II)
FRA Role	<ul style="list-style-type: none"> • Provide project delivery guidance • Review/approve grant or loan deliverables

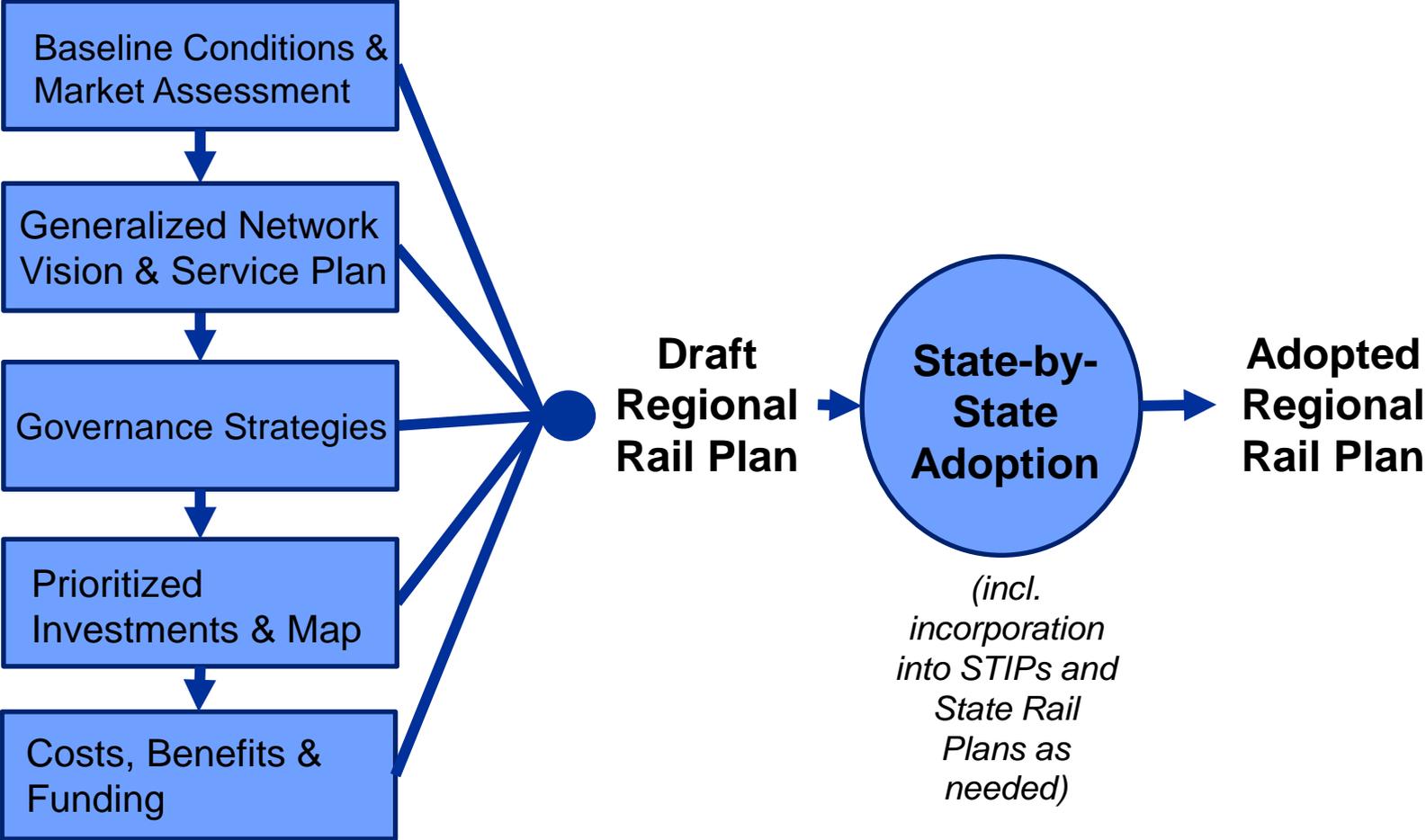
What does the map look like?



FRA Planning Framework



Elements of a Regional Rail Plan



Southwest Multi-State Study

Study Overview

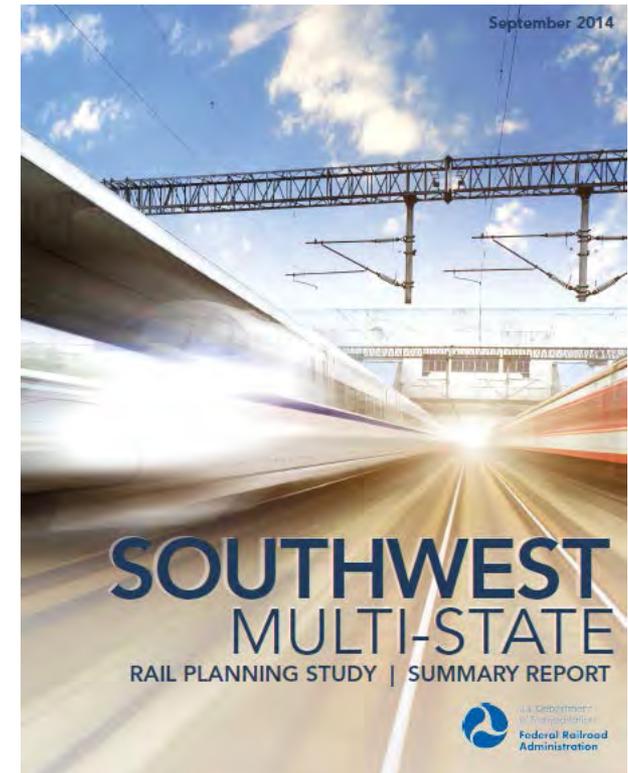
Planning Context

Network Analysis Approach

Preliminary Network Vision

Study Recommendations

Lessons Learned about Process



Overview

Study Purpose and Objectives:

- Identify network of “candidate corridors” for further evaluation and planning using CONNECT tool.
- Identify institutional challenges and opportunities related to multi-state rail development and delivery.

More than 20 stakeholders from six states met multiple times over seven months.



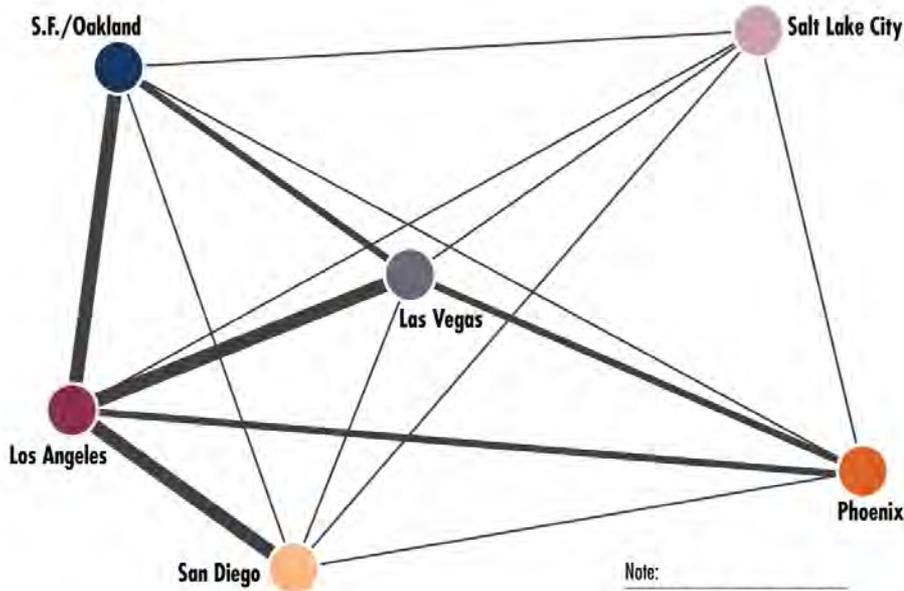
Planning Context

Land Development Patterns

Demographics

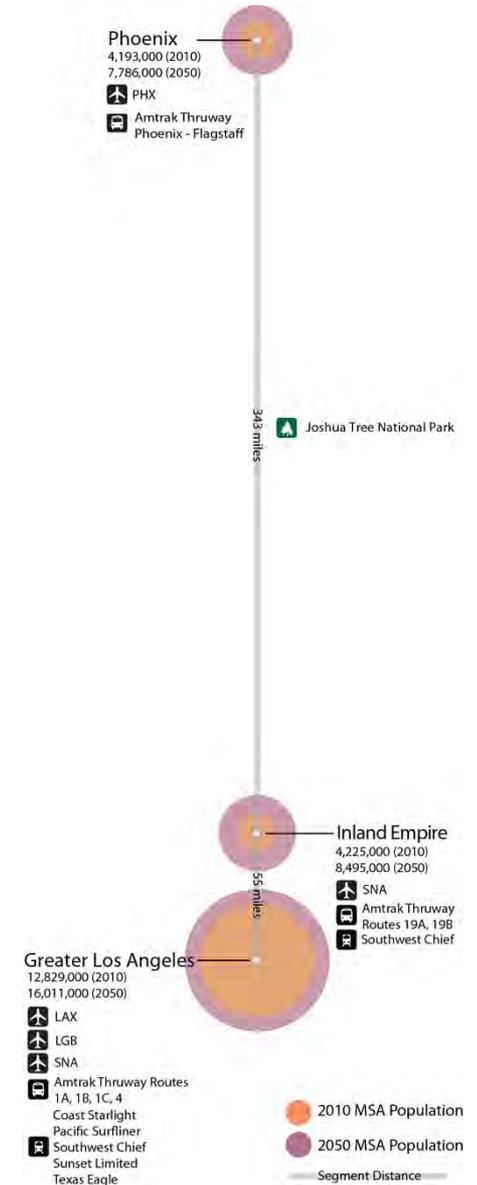
Economic Activity

Existing and Forecast Travel



Note:
Annual one-way trips in year 2050

- > 10 Million
- 4 M - 10 M
- < 4 M

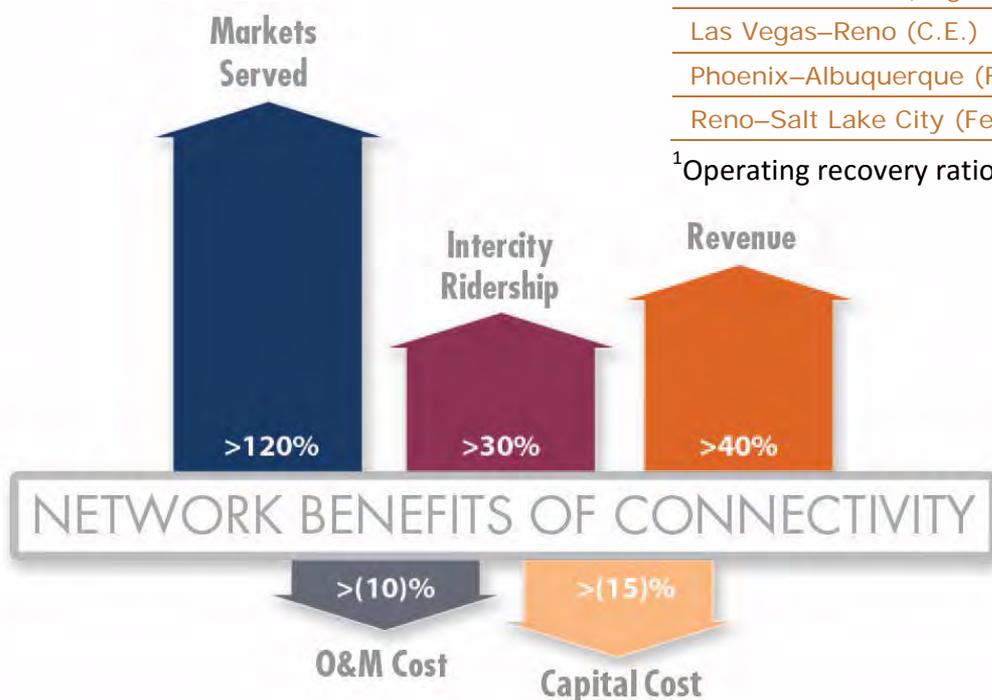


Network Analysis Approach

Table 1 Operating recovery ratio performance

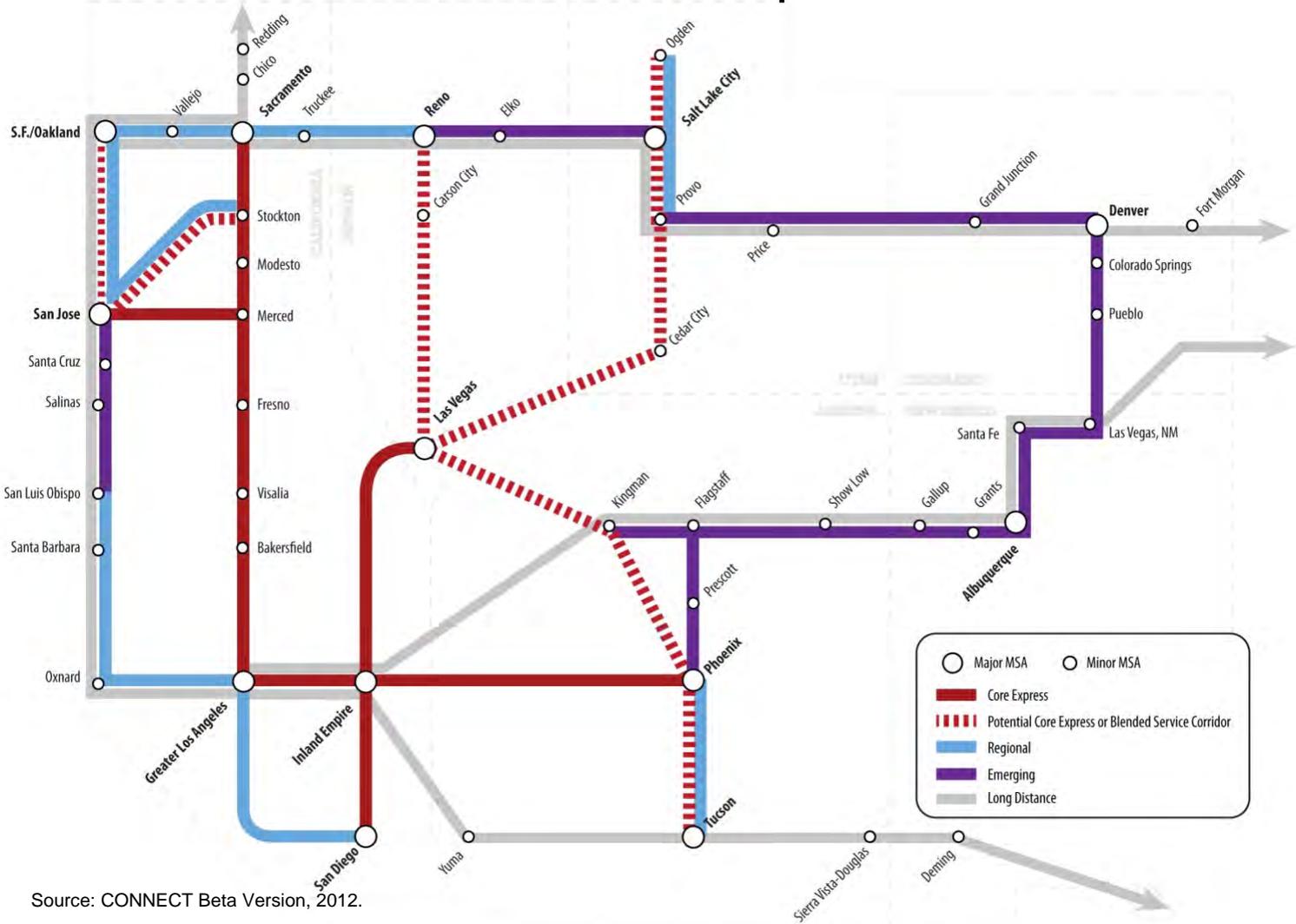
		Stand-alone ¹	Network ¹	Multi-state Corridor
San Diego–San Francisco (C.E.)		●	●	
Las Vegas–Los Angeles (C.E.)		●	●	✓
Los Angeles–Phoenix (C.E.)		●	●	✓
San Diego–Phoenix (C.E.)		●	●	✓
Las Vegas–Phoenix–Tucson (C.E.)		●	●	✓
San Francisco–Reno (Regional)		●	●	✓
Las Vegas–Salt Lake City (C.E.)		●	●	✓
Phoenix–Tucson (Regional)		●	●	
Las Vegas–Reno (C.E.)		●	●	
Phoenix–Albuquerque (Feeder)		●	●	✓
Reno–Salt Lake City (Feeder)		●	●	✓

¹Operating recovery ratio: $X = <1$; $1 < X < 2$; $X > 2$;



Preliminary Network Vision

Rail Network and Service Concepts



Source: CONNECT Beta Version, 2012.



Study Recommendations

Integrate the SW Multi-State Rail Planning Study into existing and ongoing transportation planning efforts

Establish a SW Rail Working Group to initiate implementation of the Study's governance recommendations

Convene a voluntary CA-AZ-NV Passenger Rail Policy & Planning Group

Form a Blue Ribbon Commission to guide a Phoenix-Southern California Corridor Study



Lessons Learned about Process

Federal involvement is important

Provide clear definition of study purpose and potential outcomes

Incorporate other modes into process

Initiate development of goals and P&N early in multi-state process

Concentrate stakeholder efforts on in-person workshops

No one-size-fits-all governance approach

Needs for multi-state coordination

Multi-phase

Ownership
Knowledge sharing

Operations

Marketing and customer service
Service standards
Cost and revenue sharing

Design and Construction

Interoperability standards

Planning

Multi-State Vision
Data for Project Evaluation
Grant Applications
Operating Standards
Safety Standards



Southeast Regional Rail Planning Study

FRA received funding to conduct additional regional planning studies through FY14 Omnibus Appropriations Act

Groups of states submitted Statements of Interest to participate in additional FRA-led regional studies

Southeast and Midwest selected in 2015

Next Steps



Thank you!

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