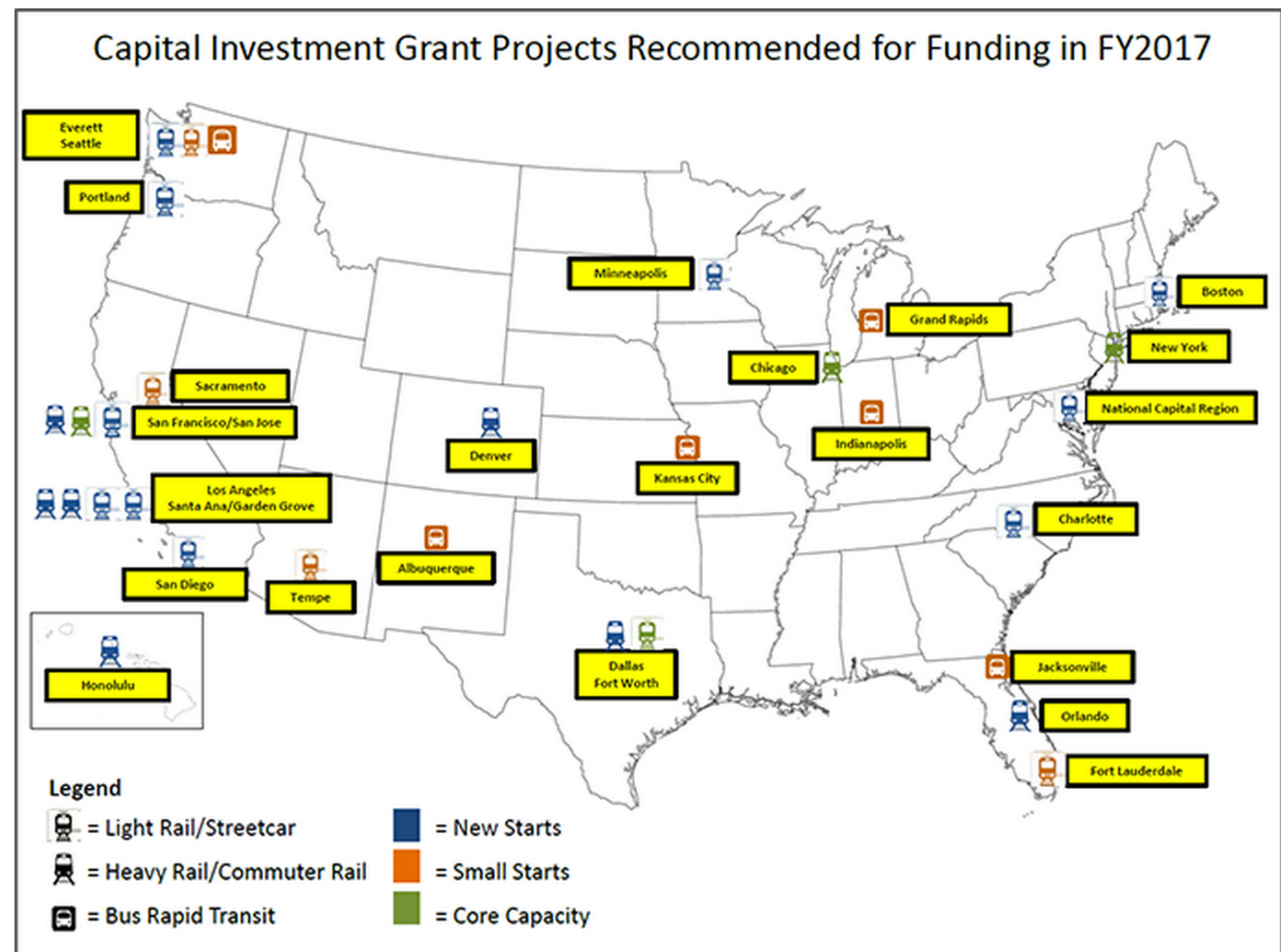


Santa Cruz: Next Steps

Santa Cruz, CA
February 15, 2016

Federal Funding

- Capital Investment Grant Program authorized at \$2.3B
- FY 17 Budget - \$3.5 B
- 31 projects
 - 10 Small Starts
 - 4 Core Capacity
 - 10 New Start FFGAs
 - 7 Proposed FFGAs



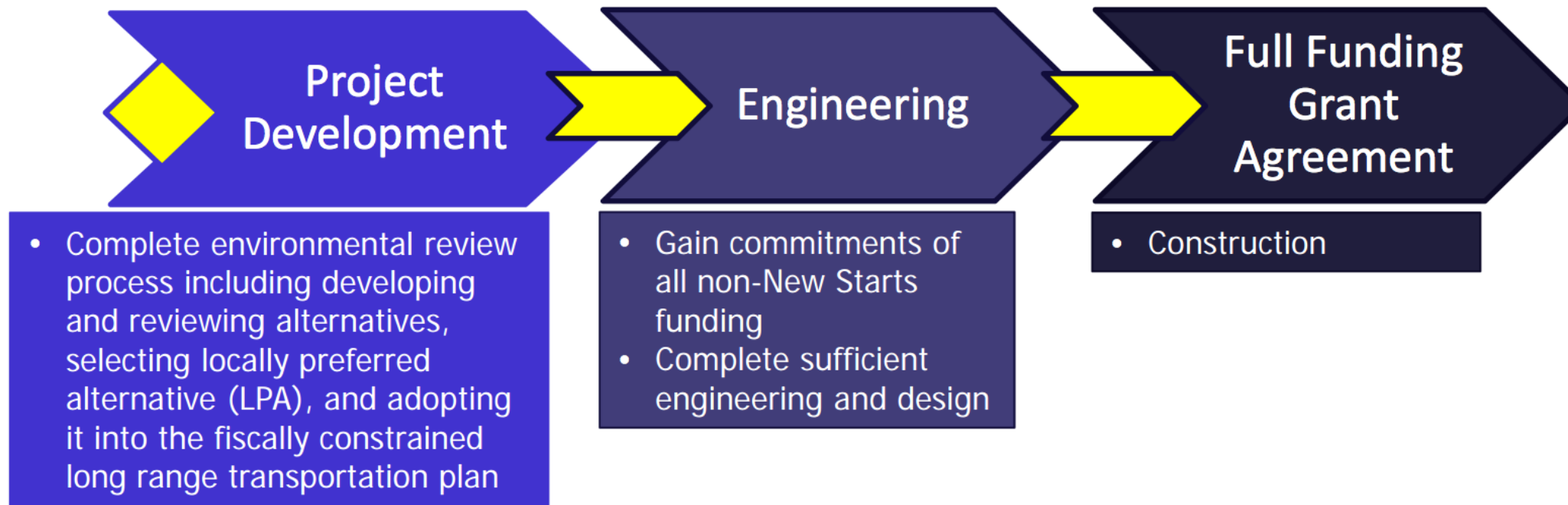
Federal Funding

- **New Starts**
 - **Fixed guideway projects - \$300 M or more in capital cost**
 - **Federal share is typically 50 percent**
 - **Fixed Guideway includes light rail, streetcar, commuter railroad and dedicated right of way bus rapid transit**

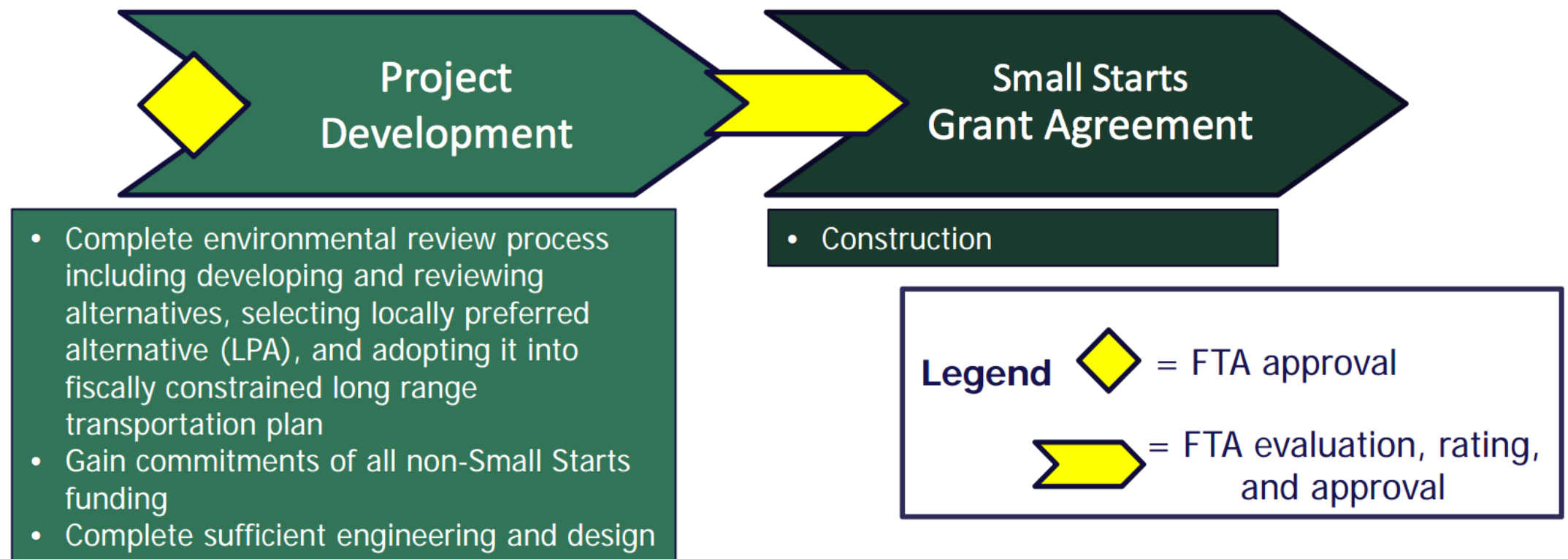
Federal Funding

- **Small Starts**
 - **Fixed guideway and corridor-based Bus Rapid Transit**
 - **Capital cost of less than \$300 million, section 5309 funding limited to \$100 M**
- **Local match comes from non-section 5309 monies from local, State, flexible highway monies or private sector**

New Starts and Core Capacity Process



Small Starts Process



Project Next Steps

- **Completed an initial feasibility study of potential technology options, alignments**
- **Initiate analysis of alternatives**
 - **Corridor(s), potential alignments, technology options**
 - **Identify corridor-specific issues that must be resolved in order to move forward**

Project Next Steps

- **Develop Purpose and Need**
 - What issues will a project resolve?
 - What are the goals of the proposed project?
- **Engineering and Design**
 - Help identify project issues and initial cost estimates
 - Recommend between 5-10 percent prior to initiating environmental clearance process
 - If there are complexities in the project corridor and, if the project is a New Start, recommend more than 30-35 design and engineering

Project Next Steps

- **Initiate NEPA process**
 - **Engage Federal Transit Administration (FTA) Region IX on both Purpose and Need and Class of Action**
 - **FTA recommends no less than 30-35 percent engineering and design completed during NEPA process**

Project Development

- **Make formal request to enter into Project Development (PD)**
 - **Identifying the process that lead to the LPA selection**
 - **Identify the project by technology, alignment and corridor that is being advanced into PD**
 - **Stakeholders engagement process**
 - **Source of funding to complete PD**

Project Development

- **Complete NEPA and publish NEPA finding in the *Federal Register***
- **Adopt the LPA into the Long Range Transportation Plan of AMBAG**
- **Prepare information for FTA to rate and evaluate the project in order to enter into Engineering**
- **Complete within two years if a New Start project - no two year limitation if a Small Start**

New and Small Starts Project Evaluation and Rating under MAP-21

Individual Criteria Ratings

Mobility Improvements
(16.66%)

Environmental Benefits
(16.66%)

Congestion Relief
(16.66%)

Cost-Effectiveness
(16.66%)

Economic Development
(16.66%)

Land Use
(16.66%)

Current Condition
(25%)

Commitment of Funds
(25%)

Reliability/ Capacity
(50%)

Summary Ratings

Project Justification[†]
(50% of Overall Rating)

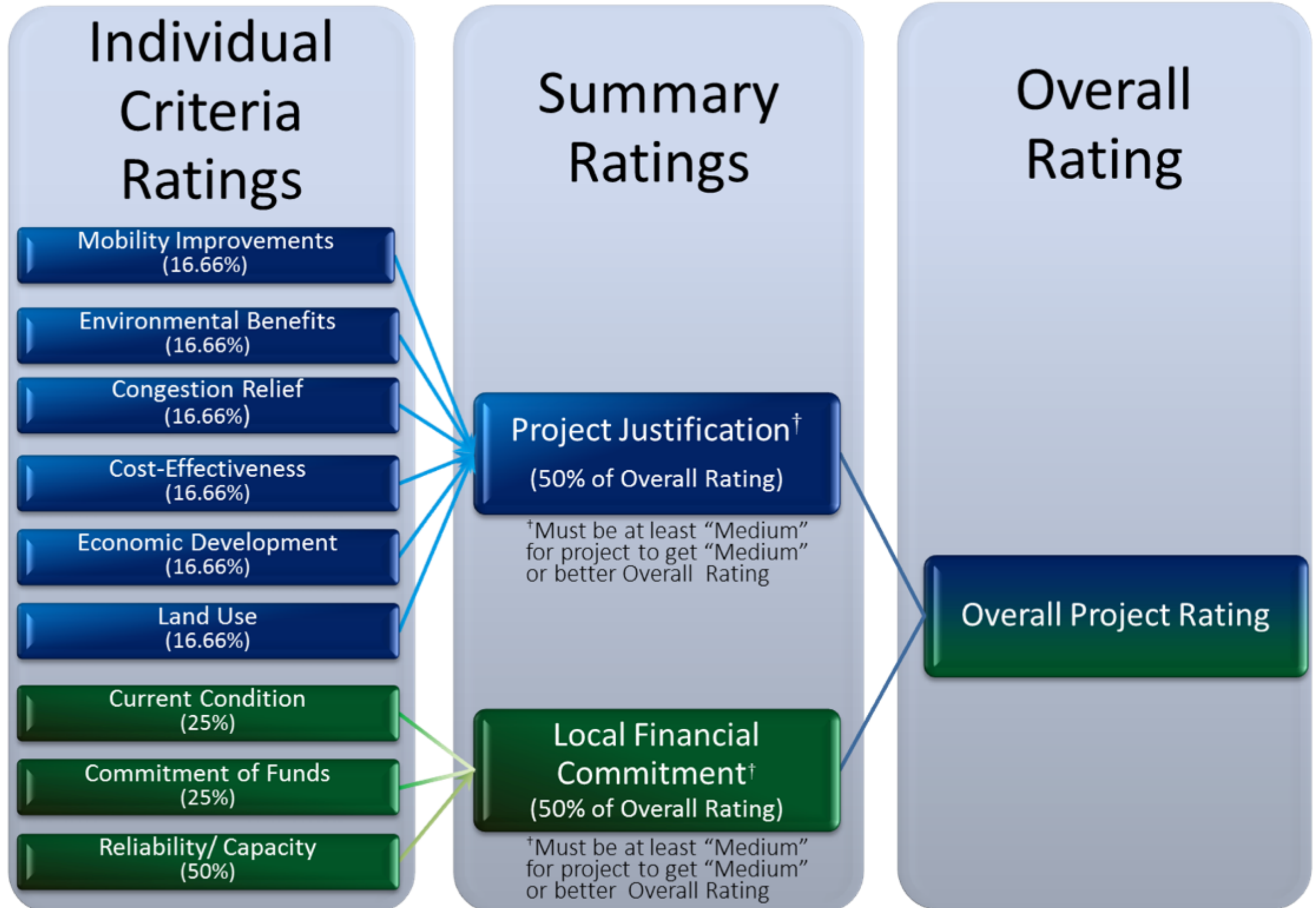
[†]Must be at least "Medium" for project to get "Medium" or better Overall Rating

Local Financial Commitment[†]
(50% of Overall Rating)

[†]Must be at least "Medium" for project to get "Medium" or better Overall Rating

Overall Rating

Overall Project Rating



Super-Capacitor Streetcars

Dubai - Opened in 2014

Reims - Opened in 2011



Nice - Opens in 2018



Battery Powered Streetcars

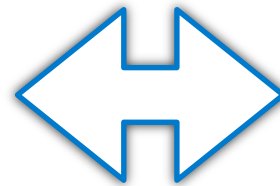
- Vehicle is in use in Dallas and will also be operated in Detroit



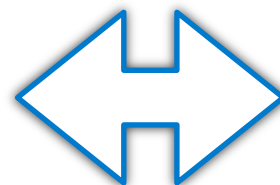
Overhead Wire Streetcars



Operated
in Kansas
City and
Cincinnati



Operated
in Salt
Lake City
and
Atlanta



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Where Policy and Project Development Intersect