



MIAMI BEACH
MOBILITY PARTNERS

AGENDA

- 01 Management & Organization
- 02 Financial Approach & Capacity
- 03 Design, Construction, Operations & Maintenance
- 04 Vehicle System Supplier
- 05 Why MBMP?



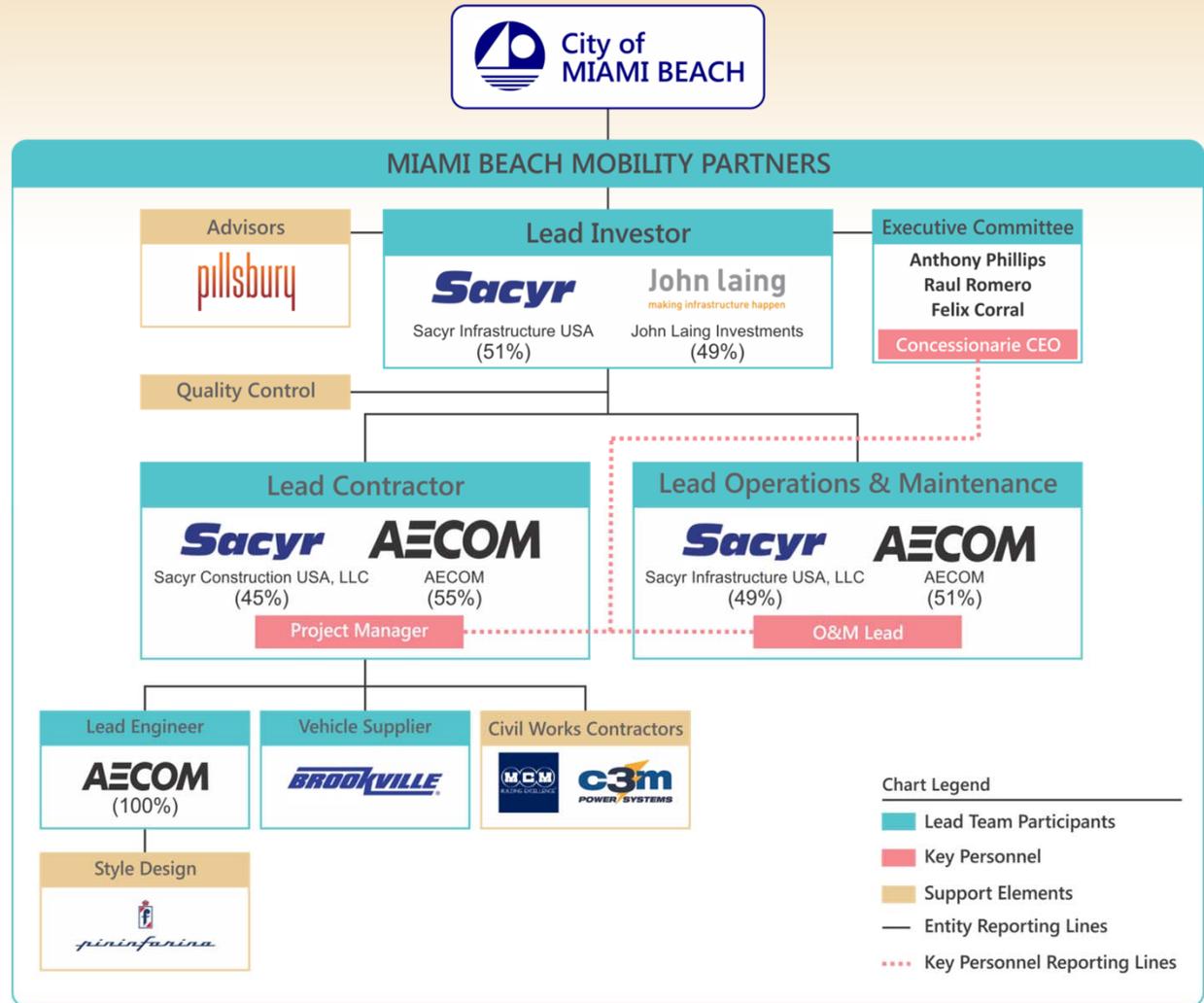


01

Management & Organization



Team Organization



We've Committed the Best in the Industry to Deliver Your Project

Arnon Klein



Financing Lead

Anthony Phillips



Executive Committee

Raul Romero



Executive Committee

Felix Corral



Executive Committee

Fernando Castro



Bid Manager

John Thompson



Technical Director

Greg Evans

Design
Quality Manager

Everette Adams

Independent
Quality Manager

Fernando Rodriguez



Legal Advisor



Edward F. Hrinewski, STS

Project Manager
(Construction)

Bill Houpermans, PE



Design Manager

Mickey Geiser

Lead
Design Engineer

Karl Niedzwecki

Construction
Manager

Steve Vecerina

Operations &
Maintenance

Panama Canal Expansion

Case Study

- 4.5 million cubic meters of structural concrete.
 - 2 Egyptian pyramids
- 220,000 tons of steel reinforcement.
 - 22 Eiffel towers
- 81 million cubic yards of excavation.
- 7.1 million cubic meters dredged material.
 - Enough to fill 2,840 Olympic swimming pools.
- 16 gates (the largest being 33 meters in height and with a weight of 4,300 tons)
- More than 10,000 highly-qualified workers at all levels



Panama Canal Expansion

Case Study

- The new locks fill and empty more rapidly, 7% less water; the nine lateral basins employed for the reuse of water make it possible to save up to 60% of this precious commodity.
- Unique design, manufacture, transfer and installation of the new gates (16 in total), of enormous dimensions and requiring a meticulous installation,



02

Financial Approach & Capacity



Contract Negotiation and Financial Plan Execution

Interim Agreement

- Business Plan with financial feasibility confirmed
- Risk Matrix outlining principles of risk transfer
- Scope of Work with Schedule and Key Milestones

Comprehensive Agreement

- Design and Construction Obligations
- Light Rail Vehicle (LRV) Specifications
- Operations and Lifecycle Maintenance Performance Standards

Financial Plan

- Project Equity ~ \$20 - \$30 million
- Milestone Debt Facility ~ \$80 - \$120 million
- Long-term Debt Facility ~ \$80 - \$120 million

Denver Eagle P3 Case Study

- Design, Build, Finance, Maintenance and Operation of two new commuter rail lines in the Denver Metropolitan area
 - East Line, 23 mile route to airport
 - Gold Line, 11 mile route to western suburbs
- Deliver and operate the entire rail system, from civil works and structures right through to the rolling stock and related systems

Client:	Regional Transportation District (Denver, CO)
John Laing Interest:	45% equity stake
Contract Value:	\$1.55 billion
Contract Term:	30-year operating term following 6-year construction
Contract Status:	Operations (Line 1)



I-4 Ultimate Case Study

- Design, build, finance, maintenance and operation of new express lanes along a 21 mile section in Orlando
 - Reconstruction of 15 major interchanges
 - Construction of 145 bridges
- Operations, maintenance and lifecycle of the full right of way, including O&M during construction

Client:	Florida Department of Transportation (Orlando, FL)
John Laing Interest:	50% equity stake
Contract Value:	\$2.3 billion
Contract Term:	30-year operating term following 6-year construction
Contract Status:	Construction





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03

Design, Construction,
Operations & Maintenance





Innovative track slab design:
reduced cost and saves time



Construction Sequence to minimize community disruption/outreach:
keeps businesses open, streetcar program becomes part of the community fabric, maintains vehicular and pedestrian traffic, ensures public safety during construction.

Utility coordination & leave in place where possible:
reduces impact to the third-party utilities, saving cost and minimizes schedule risk



Design & Construction begins with O&M in mind:
ensures quality and maintainability in finished product, minimizes risk of delays achieving rail activation



We Design to Budget

Our Approach

- Establish baseline design
 - Retrofit where possible
 - Look for efficiencies
 - Establish project scope (60%)
- Analyze each design element
 - Essential
 - Ancillary
 - Discretionary / betterments
- Design with construction approach in mind
 - Minimize scope
 - Minimize disruption
 - Public outreach



Minimize construction footprint

Construction Sequencing to Keep Businesses Open



Built to Integrate with the Fabric of the Community

- Two Phased Approach
- Streetcar to Operate in Exclusive Lanes
- Catenary-free / Off-wire Technologies
- Bi-directional Loop
- Interoperable with Future Extension to Miami

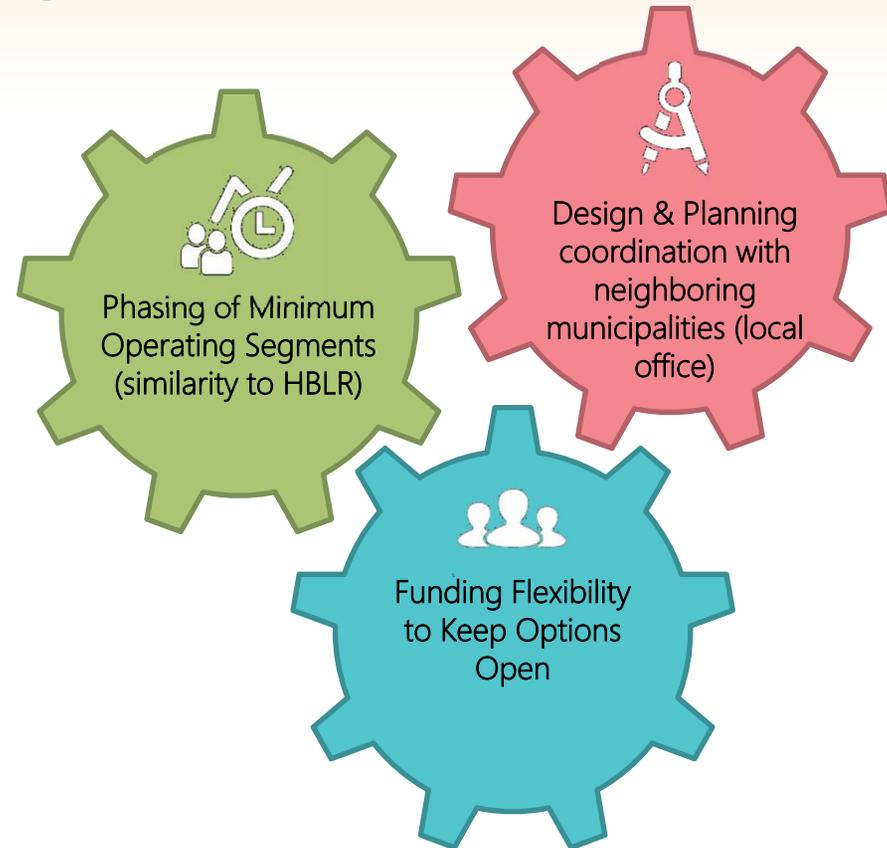


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Keeping Options Open for Future Expansion



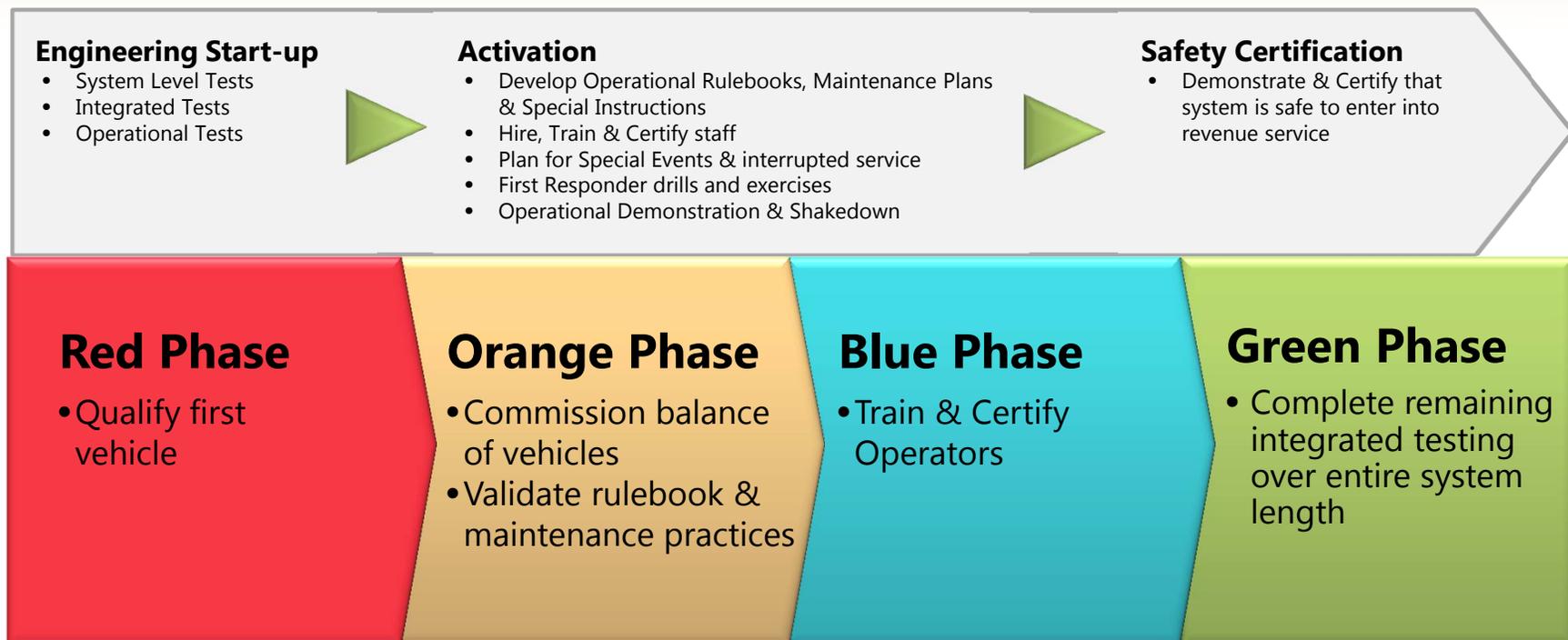
Hudson-Bergen Transit System Case Study

- It is the largest public works program in New Jersey history as well as the first and largest completed DBOM transit project in the United States.
- With a weekday daily ridership of over 52,000, the success and contribution of the HBLR is clearly demonstrated by the enormous growth of commercial and residential development in this formerly depressed area along the Hudson River waterfront.

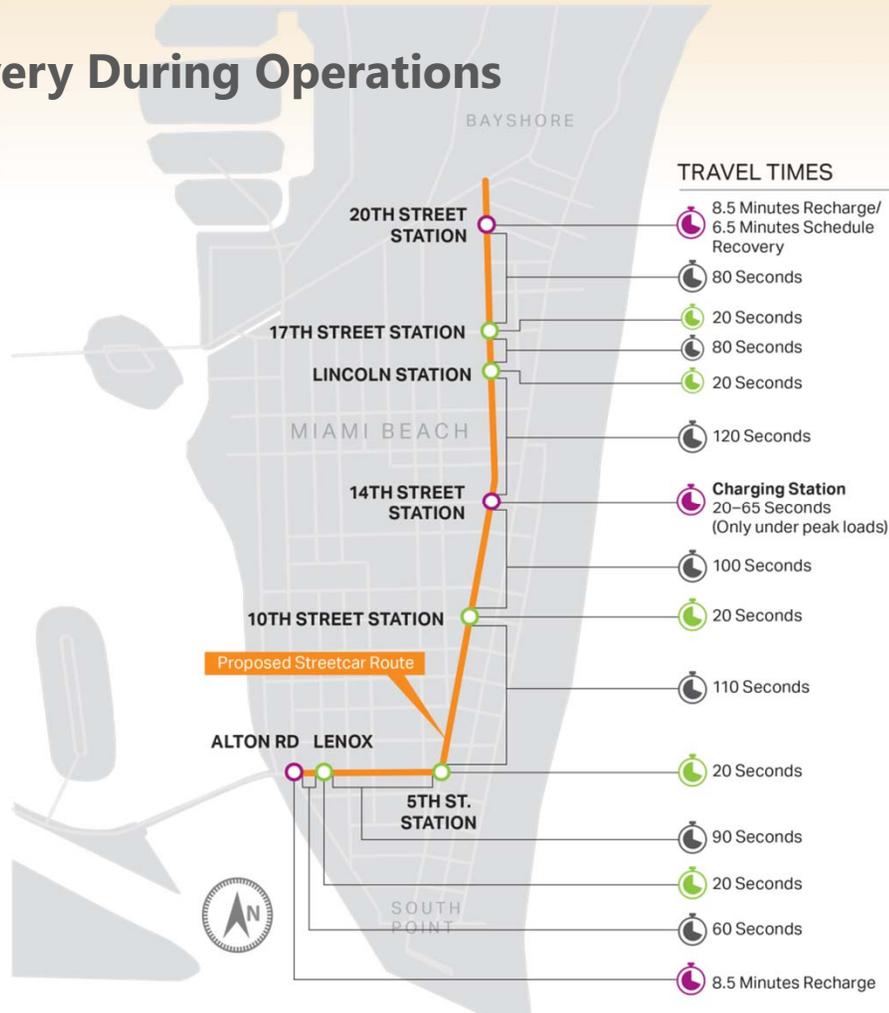
Client:	New Jersey Transit Corporation (Hudson County, New Jersey)
AECOM Role:	Designer, Constructor, Operator, Maintainer
Contract Value:	\$2.25 Billion
Contract Term:	30-year operating term following 6-year construction
Contract Status:	NTP: 1996 DB: 1996 to 2011 O&M: 2000 to 2020



Rail Activation & Transition to Operations – A Unique Approach



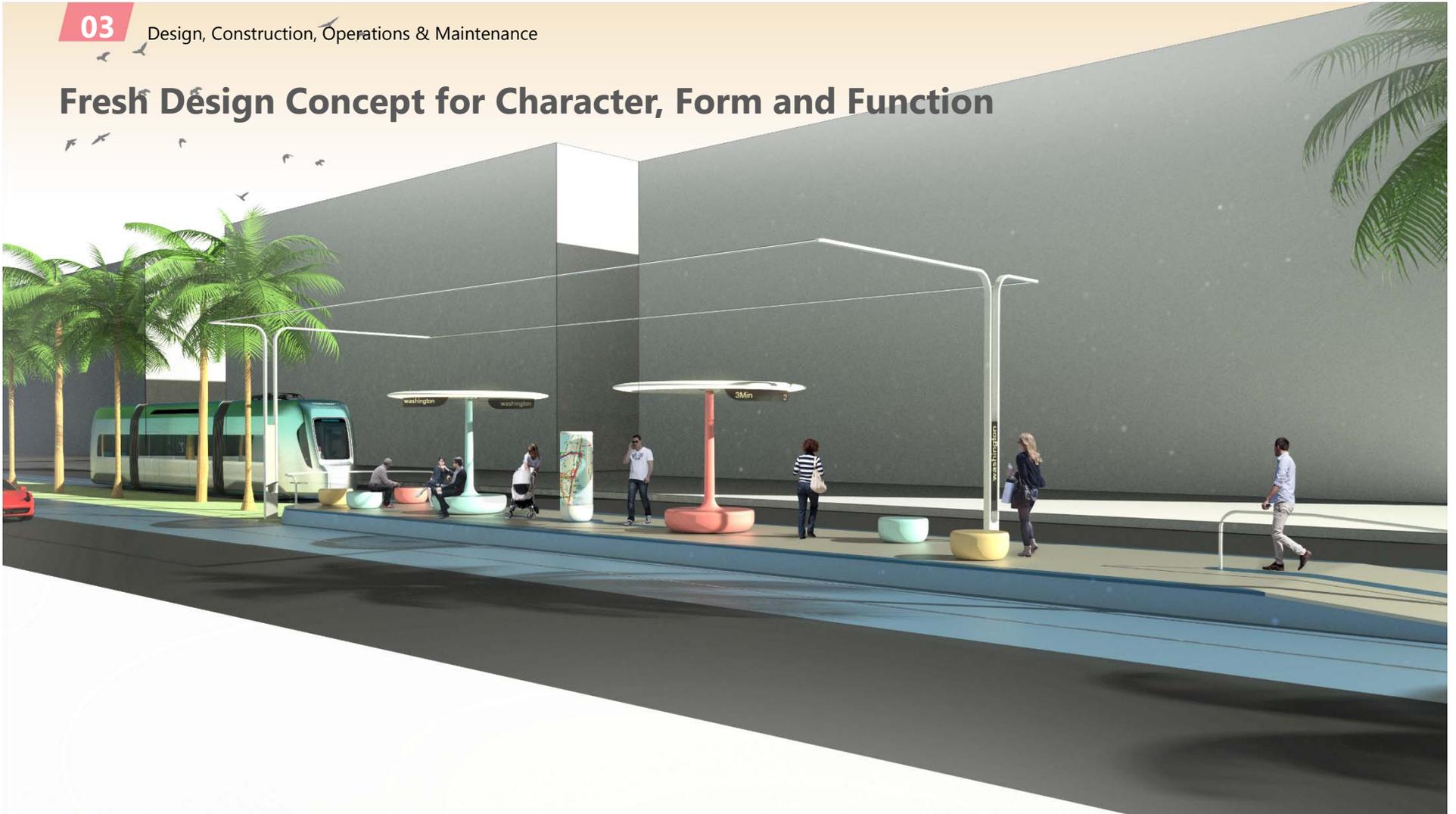
Service Delivery During Operations



03

Design, Construction, Operations & Maintenance

Fresh Design Concept for Character, Form and Function



Fresh Design Concept for Character, Form and Function



We Design to Budget

Case Studies



OKC Streetcar
 \$131M Budget
 2.5 route-miles
 6 streetcars

- Wireless Streetcars (ESS)
- Vehicle Delivery
5 months early
- Projected to be
within budget



First Hill Streetcar
 \$133M Budget
 2.5 route-miles
 6 streetcars

- Wireless Streetcars (ESS)
- Delivered within
budget



Portland Streetcar
 \$149M Budget
 3.5 route-miles
 6 streetcars

\$2M Under Budget



Interstate MAX
 \$360M Budget
 6.5 route-miles
 17 LRT vehicles

\$10M Under Budget

4 Months Early



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04

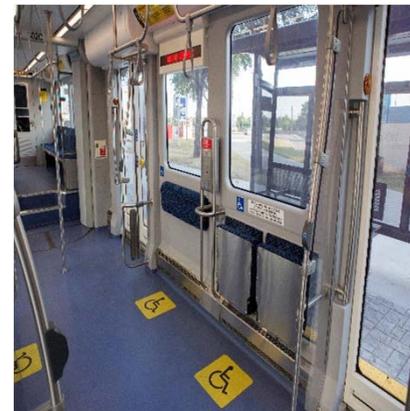
Vehicle Systems



BROOKVILLE®

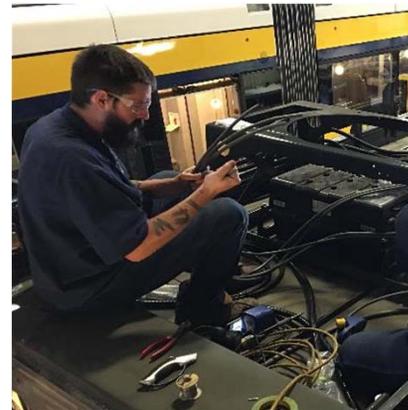
Vehicle Built for the Future

- American Designed and Manufactured (Buy American)
- Right-sized for Miami Beach (length, turning radius, etc.)
- All doors fully ADA accessible with 100% level boarding
- Proven climate control in similar environment
- Fastest vehicle delivery available in the market
- Configurable to match Miami Beach to mesh with the fabric of the City



Truly Wireless Operation Reliable, Safe and Seamless

- 20+ years experience with battery technology
- The most advanced battery technology
- Built in reliability
- Resilient design - key to safe operation in flood prone environments
- Seamless and flexible operation on future expansions



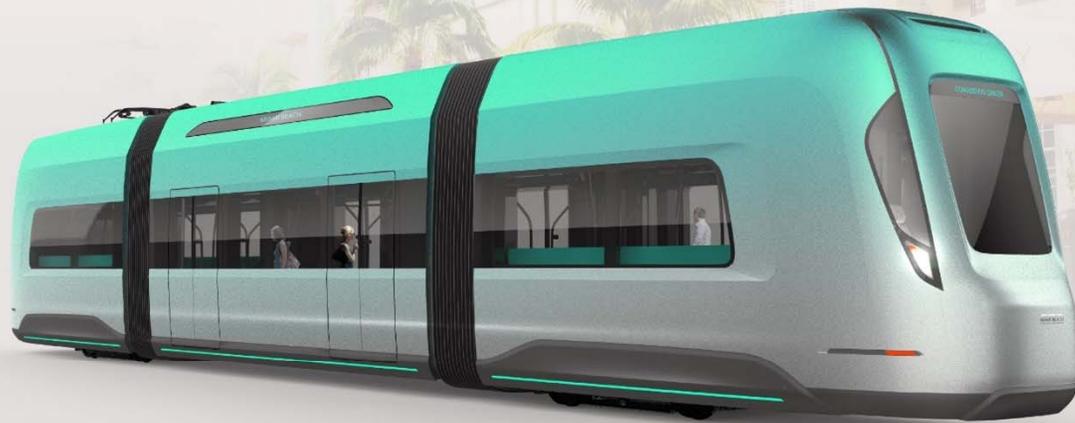
Dallas Streetcar Case Study

- Design & Build low floor modern streetcars for the new Downtown to Oak Cliff starter line
- Vehicles requires OESS for extended off-wire operation traveling 2 miles on wireless segment
- Base vehicle delivered 24 months from NTP
- Option vehicle delivered 11 months from NTP

Client:	Dallas Area Rapid Transit (Dallas, TX)
Number of Vehicles	4 Vehicles
Contract Value:	\$15.8 million
Contract Term:	5 Years
Contract Status:	Vehicles In Service (Inauguration: April 2015)



Streetcar Enhancements by Pininfarina



04

Vehicle System Supplier

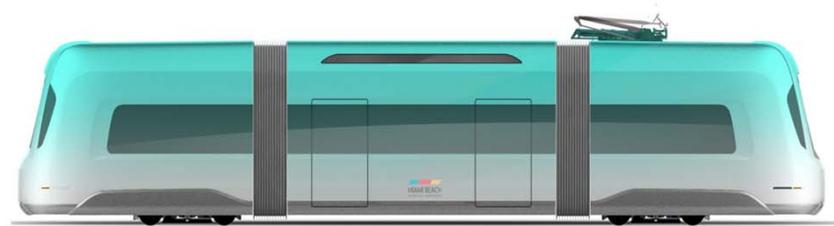
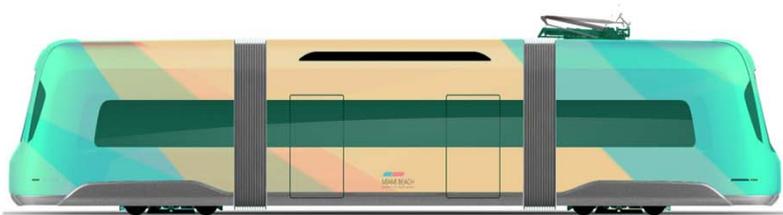
Streetcar Enhancements by Pininfarina



04

Vehicle System Supplier

Streetcar Enhancements by Pininfarina





05

Why MBMP?



A Partnership for Success

- World renowned successful financial partners with unparalleled P3 experience
- Seasoned design veterans having designed 80% of US streetcars in operation, on time and within budget
- Vehicle provider with the only wireless streetcar currently in operation in the US
- World class, cutting edge, vehicle and architectural design options provided by Pininfarina
- A strong local presence and in-depth understanding of Miami Beach issues and concerns
- Team members have decades of work experience in Miami Beach including current work on the Resiliency Program
- Unwavering commitment to quality, safety and delivering a successful project, on time and on budget





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www.miamibeachmobilitypartners.com