

# Streetcar Vehicle Selection

## Streetcar Vehicle Selection: Heritage or Modern?

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# Streetcar Vehicle Selection

## Infrastructure



# Streetcar Vehicle Selection

## Operates in Mixed Traffic



**Vintage**



**Modern**

# Streetcar Vehicle Selection

## Operates in Exclusive ROW



**Vintage**



**Modern**

# Streetcar Vehicle Selection

## Operates in Pedestrian Environments



Vintage



Modern

# Streetcar Vehicle Selection

## Compatible with Parking / Buses



**Vintage**



**Modern**

# Streetcar Vehicle Selection

## Supports Development



Vintage



Modern

**Summary: The infrastructure doesn't know the difference**

# Streetcar Vehicle Selection

## Differences?



# Streetcar Vehicle Selection

## Differences: Perception vs. Reality

1. Air conditioning
2. ADA
3. Capacity
4. Availability
5. Ride quality / noise & vibration
6. Trolley Pole / Pantograph compatibility
7. Safety / Standards

# Streetcar Vehicle Selection

## Perception vs. Reality

### 1. Air conditioning



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# Streetcar Vehicle Selection

## Perception vs. Reality

### 2. ADA Access



# Streetcar Vehicle Selection

## Perception vs. Reality

### 3. Capacity



San Francisco F-Line  
20,000 riders / day

APTA Rail Transit Conference 2007

# Streetcar Vehicle Selection

## Perception vs. Reality

### 4. Availability



65 USA-made replica cars built since 1985

140+ restored original cars in service

# Streetcar Vehicle Selection

## Perception vs. Reality

### 5. Ride Quality / Noise & Vibration



# Streetcar Vehicle Selection

## Perception vs. Reality

### 6. Trolley Pole / Pantograph compatibility



# Streetcar Vehicle Selection

## Perception vs. Reality

### 7. Safety / Standards



# Streetcar Vehicle Selection

## The Real Differences

1. Appearance / Theming
2. Level Boarding vs. Steps
3. Cost / Size / Capacity
4. Technology / Maintenance Philosophy
5. Performance

# Streetcar Vehicle Selection

## The Real Differences

Appearance / Theming



Vintage



Modern

APTA Rail Transit Conference 2007

# Streetcar Vehicle Selection

## The Real Differences

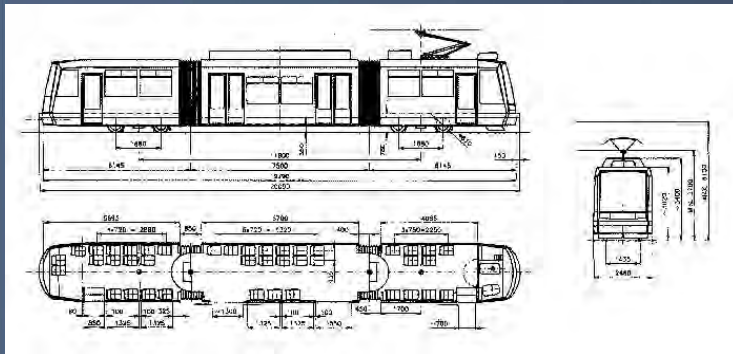
Level Boarding vs. Steps



# Streetcar Vehicle Selection

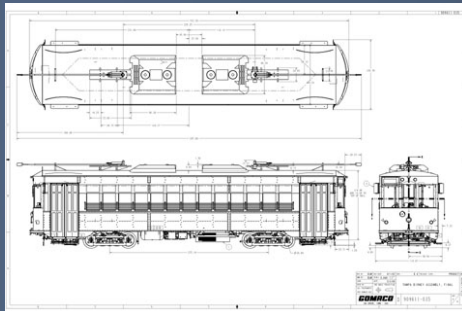
## The Real Differences

### Cost / Size / Capacity



**Imported modern articulated streetcar (Portland)**  
Length: 66 feet    Width: 8 feet  
Capacity: 156 passengers; 30 seated, 127 standing

Cost: Approximately \$3M



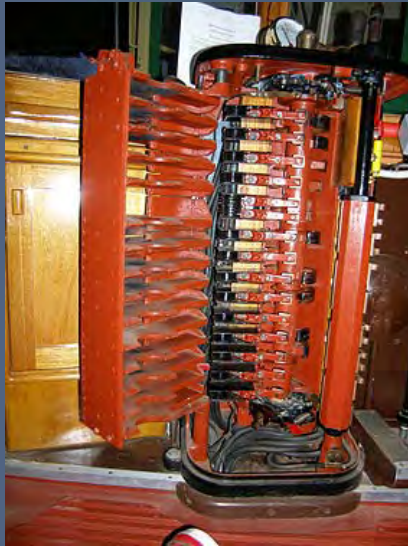
**Domestic replica vintage car (Tampa)**  
Length: 46 feet    Width: 8 feet 6 inches  
Capacity: 88 passengers; 44 seated, 44 standing

Cost: Approximately \$900,000

# Streetcar Vehicle Selection

## The Real Differences

Technology / Maintenance Philosophy



*The technology gap is narrowing*

# Streetcar Vehicle Selection

## The Real Differences

### Performance



Let the operating environment guide your choice.

How much performance can you actually use?

# Streetcar Vehicle Selection

## Summing Up

1. You have a variety of choices in streetcar vehicle selection; operating both is also an option
2. Both imported modern streetcars and domestic replica vintage cars have their benefits
3. Vintage Cars continue to become more modern “under the hood”
4. Local Conditions will drive choice-  
“let the corridor define the mode”