Achieving the TOD Vision

Overcoming Challenges to Station Design and TOD Implementation
Best Intentions

• Placemaking
• Pedestrian Orientation
• Density and Mixed Use
• Seamless Intermodal Connections
• Parking Solutions
Design Challenges in Practice

• Buses
• Parking
• Distance Matters
• The Details
Bus Bays

- Underutilization
- Space Requirements
- Long Walks
- Crossing Conflicts
- Storage and Layover
Bus Bays

- Optimize Layout
  - Minimize crossings
  - Avoid long curb lengths
  - Segregate circulation
  - Consolidate access

Sacramento, CA Intermodal Transportation Facility
Bus Bays

• Shared Bays

Ottawa, Canada
Bus Bays

- Dynamic Bay Assignment
Parking

• Occupies land with TOD potential
• Barrier for pedestrians
• Encourages auto use

• But, it supports ridership
Parking

- Rationalize and reduce supply
- Design and placement
- Ground floor retail
- Centralized facilities
- Zoned vs. reserved
- Unbundled from residential
- Phased implementation
- Shared parking potential
- Leverage underutilized supply
Shared Parking

- Site specific

- Uses compatible with transit parking:
  - Retail
  - Entertainment
  - Events

- Shared parking analysis
  - ULI

- Data collection

Richmond, CA Ferry Terminal (Proposed)

Source: WTA, DC&E, SMWM
Parking

• Re-thinking replacement parking

• “Access BART” Study
  • Evaluated trade-offs of
    • TOD Opportunities
    • Access Improvements (parking, ped and bike)
  • System and corridor level parking allocation
  • Considered system capacity constraints
  • Station classification
Parking

- **Access BART Study: Key Findings**
  - Some parking can be removed to support residential TOD
  - Ridership gains from mixed-use TOD and feeder bus can offset parking loss
  - Land use intensification holds the greatest potential to build valuable off-peak ridership
  - Need to look at corridor and system-wide scale
  - Station access typology can help inform investment choices
Distance Matters

- Percent of population using transit at least once in two-day survey period

Source: MTC
Distance Matters
Treasure Island, San Francisco, CA

- 6,000 new units
- New ferry service to downtown San Francisco

Source: TICD
Distance Matters
Treasure Island, San Francisco, CA
• 100% of residences within 15 minute walk to transit hub or town center
• 75% within 10 minute walk

Source: TICD
The Details

• Good idea, bad execution
The Details

• The sidewalk to nowhere
The Details

• Pedestrian connectivity is a relative term
The Details

• Wayfinding?
Details

- Master Planning
- Codes and Plans
- Design Review
- Follow-Through
Details

- Master Planning
- Codes and Plans
- Design Review
- Follow-Through
Achieving the TOD Vision

• Translate guidelines into reality
• Apply innovative solutions
• Use a collaborative approach
• Deliver on the details