Protected Bike Lanes
The What, Why, and How

Presented by

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Build it...

Portland's Bikeway Network
6 miles

LEGEND
Existing Bikeways
- Pink: Off-Street Trails
- Green: Boulevards
- Blue: Separated In-Roadway

1980
Build it...

Portland's Bikeway Network
79 miles

LEGEND
Existing Bikeways
- Off-Street Trails
- Boulevards
- Separated In-Roadway

1990
Build it...

Portland's Bikeway Network
236 miles

LEGEND
Existing Bikeways
- Off-Street Trails
- Boulevards
- Separated In-Roadway

2000
Build it…

Portland's Bikeway Network
306 miles

LEGEND
Existing Bikeways
- Off-Street Trails
- Boulevards
- Separated In-Roadway

2010
...and they will come

Bridge Bicycle Traffic
Bikeway Miles

1992:
83 miles of bikeways
2,850 daily trips

2008:
274 miles of bikeways
16,711 daily trips

Cyclists Per Day

Bikeway Miles


Bridge Bicycle Traffic
Bikeway Miles

0 50 100 150 200 250 300 350

0 2,500 5,000 7,500 10,000 12,500 15,000 17,500
4 Types of Transportation Cyclists

- Strong & Fearless
- Enthused & Confident
- Interested but Concerned
- No way No How
Sunday Parkways 2011
5 Events--100,000 participants
Good for Business
Mode Split Strategy

1. Build out network
   - Safety
   - Comfort
   - Attractive
   - Direct
   - Cohesive

2. Focus on bicycle boulevards
   - Cost effective
   - Popular
   - Require crossing treatments

3. Major streets
   - Higher quality/emphasis on comfort
   - Cycle tracks/buffered lanes
What is a cycle track?
Cycle track

An exclusive bicycle facility adjacent to the roadway but separated from motor vehicle traffic by a physical barrier or other buffer.

City of Portland Bicycle Plan for 2030

A cycle track is an exclusive bike facility that combines the user experience of a separated path with the on-street infrastructure of a conventional bike lane. A cycle track is physically separated from motor traffic and distinct from the sidewalk.

NACTO Urban Bikeway Design Guide
Raised / Curb Protected Cycle Track
Why cycle tracks?
Why Cycle Tracks?

- 5’ Bike Lanes!?
- Not comfortable enough
Cycle Track—Comfortable & Attractive
Parking Buffered ‘Cycle Track’

Typical mid-block marking

Entry marking

Entrance to cycle track
Raised / Curb Protected Cycle Track

Two-Way Cycle Tracks
Cycle Track Left Turn Treatment

Two Stage, with Bike Box
Exclusive bike phasing
Bike Lane on 50' Wide Street
No Parking on Both Sides

NOTE: Measured curbface to curbface

Bike Lane Stripe
Thermoplastic pavement marking line 8" [200mm] wide solid white

No Parking Stripe
Pre-formed Inlay Tape marking line 4" [100mm] wide solid yellow
One-way Cycle Track
50' Wide Two-way Street (No Parking Both Sides)
In 2030 Portland is a clean, thriving city where bicycling is a **MAIN PILLAR OF THE TRANSPORTATION SYSTEM** and more than a quarter of all trips are made on bicycles.
Questions?

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