

DRAFT Bikeways Plan *Recommendations*

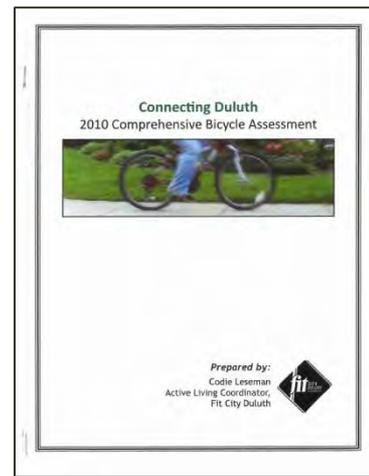
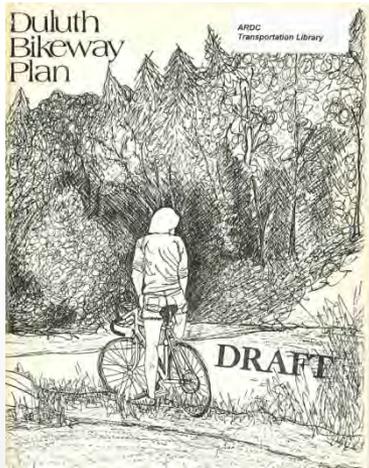
TAC

February 14, 2017



Bicycle Planning in the Twin Ports

1975 → 1994 → 2010 → 2011 → 2017



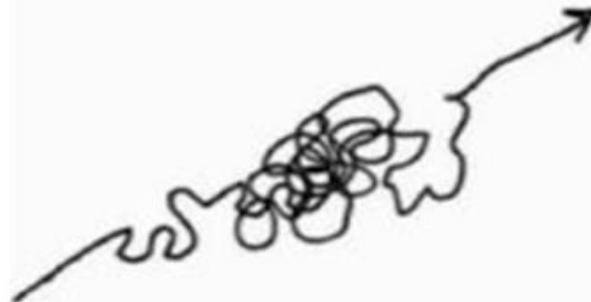
Bikeways Plan - Implementation

Success



what people think
it looks like

Success



what it really
looks like

Context

- Long Range 20+ year vision – 2040
 - Includes interim solutions in the meantime
 - Low \$ infrastructure - fill missing gap in system, curb ramps, bike racks
 - Corridors – at time of major work (utility, reconstruction, curb & gutter)
- Design for the “Interested, but concerned” of all ages & abilities
- Starting from anchors and then working out the paths:
 - Schools
 - Grocery Stores
 - Business Districts
 - Medical Districts



Performance Measures - Bicycling

Measuring the performance of a given street or network is a rigorous and imperfect process. A street that works extremely well for one set of users may be perilous for another, just as an intersection with no delay at one point may mask significant delay along a corridor.

- Crashes - injuries and fatalities
- Bicycle Level of Stress (LOS)
- Travel Time and Delay
- Economic Activity (sales, property values, etc)
- Bicycle counts
 - School Bike Counts
 - Mode Share - Journey to Work

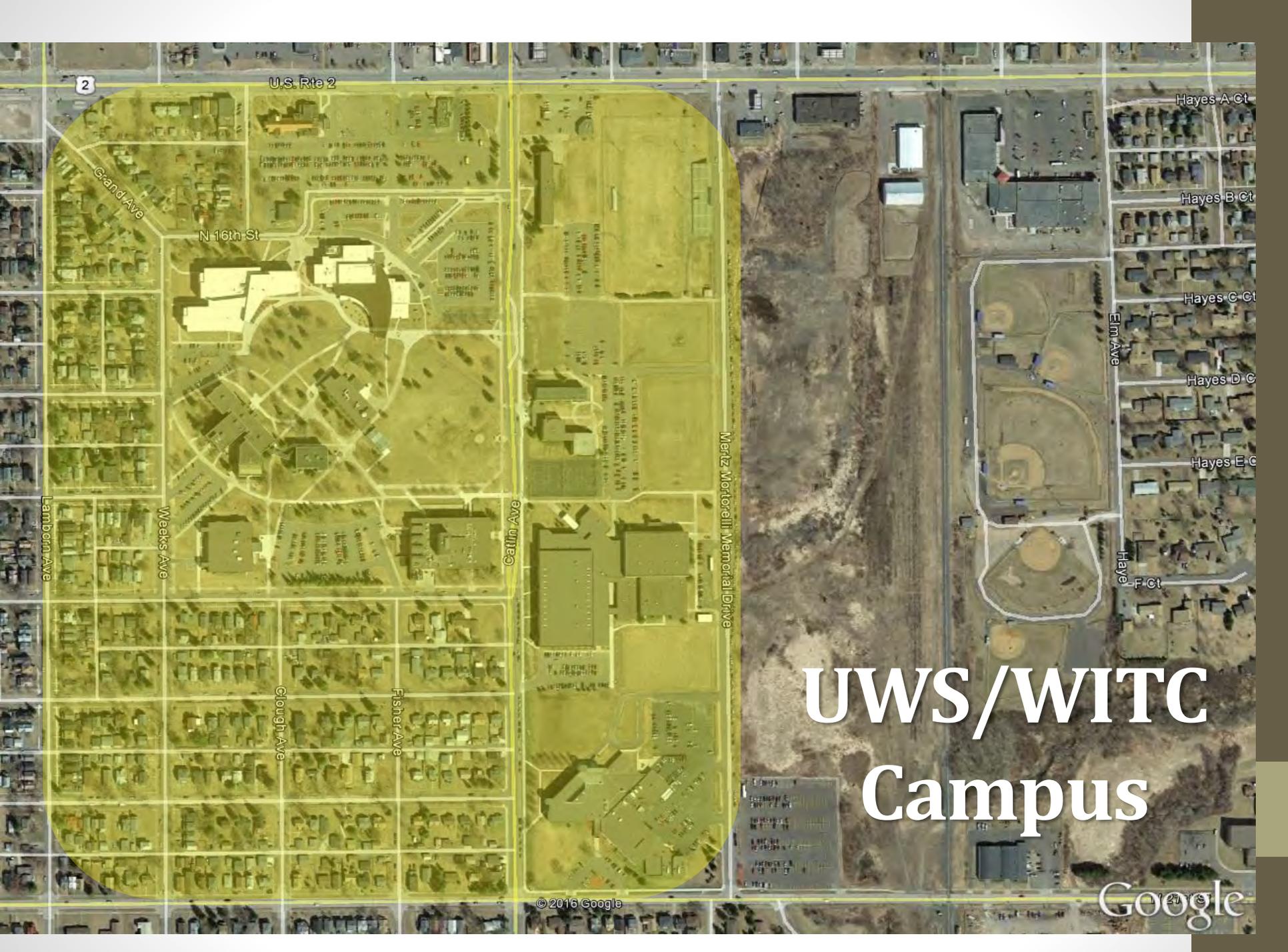
Bikeway Facilities - Classification

- **Bike Routes** – signed share the road system, travel in same lane as cars. May include sharrows or other markings to indicate space is shared by users.
- **Bike Lanes** – marked & designated space on street in restricted lane
- **Multi-Use Paths** – physically separated from car traffic, accommodate other bicyclists, pedestrians, & other non-motorized travel)
- **Protected Bike Lanes** – hybrid type – marked and/or designated space restricted to bicycles only and separated from car traffic with buffers and physical barriers.
- **Bike Boulevards** – prioritize bike travel above motorized vehicle traffic through traffic calming applications, applicable on local roads or residential streets

UMD Campus



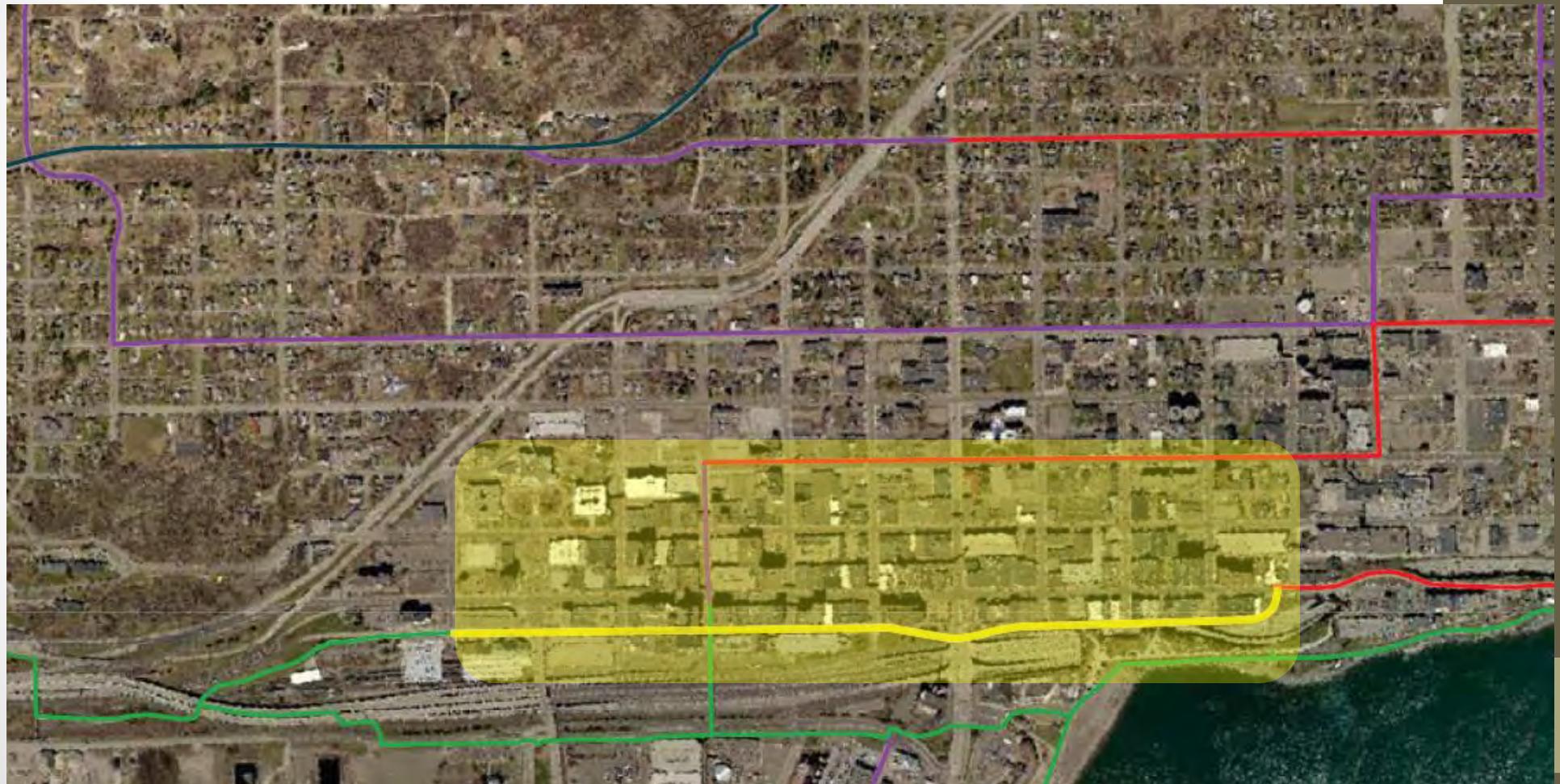
- On Road Bike Lane
- Future Path
- Multi-Use Path
- On Road Signed (No Bike Lane)



UWS/WITC Campus

Downtown Duluth

- On Road Bike Lane
- Future Path
- Multi-Use Path
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