Quick Build Networks for All (Part I)

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Amar Mohite  Harris County Precinct One
John Brazil  City of San Jose
Peter Bennett  City of San Jose
Matthew Dyrdahl  City of Minneapolis
Meet the Panel

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Matthew Dyrdahl
City of Minneapolis

John Brazil
City of San Jose

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Part I (Today)

Part II (Tomorrow)
Housekeeping

⇒ Submit your questions
⇒ Webinar archive: www.pedbikeinfo.org/webinars
⇒ Certificates and professional development hours
⇒ Follow-up email later today
⇒ Join us for Part II tomorrow
Quick Build Networks for All: OVERVIEW
OUTLINE

• What is Quick Build?
• Why Do It?
• Key Considerations
• Challenges
• Ingredients for Success
WHAT IS QUICK BUILD ALL ABOUT?
TRENDS

- Vision Zero
- Growing demand for active, sustainable transportation
- Cost
TERMS

**Project Type**

- **POP-UP**
- **PILOT**
- **QUICK BUILD**
- **PERMANENT**

**Time Interval**

- 1 Day to 1 Month
- 1 Month to 1 Year
- 1 Year to 5 Years
- 5 Years and Beyond

**Relative Cost**

- $
- $$
- $$$
- $$$$  

**Materials**

- Low durability, easily accessible or homemade, easily implemented and removed
- Semi-permanent, easily accessible and maintainable, easily and quickly implemented
- Semi-permanent and more durable, easily maintained while being flexible, quickly implemented
- Permanent and durable, incorporated into routine maintenance programs
SEVILLE

2006: 7 miles

2007: 48 miles

SOURCE: MARQUES AND HERNANDEZ-HERRADOR
SEVILLE

CRASH RISK

BICYCLE RIDERSHIP

CYCLE TRACK MILES

SOURCE: MARQUES AND HERNANDEZ-HERRADOR
WHAT DO THESE PROJECTS LOOK LIKE?
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Photo Credit: The Big Jump, PeopleforBikes, Baltimore, MD
WHAT DO THESE PROJECTS LOOK LIKE?
WHAT DO THESE PROJECTS LOOK LIKE?

Photo Credits: City of Calgary
WHAT DO THESE PROJECTS LOOK LIKE?
WHY?
RESULTS TAKE FOREVER

2009: Feasibility, Environmental Studies

2010: Public Involvement, 25% Design

2010/11: Structural, 50% Design

2012: Structure and Bridge Design Phase II

2013/14: New Survey, Structure and Bridge Design Phase I

2014/15: 60% Engineering Design, Public Hearing

2016: 90% Design, Public Hearing

2017/18: 100% Design, Construction Bid Phase

2019/20: Construction
RESULTS TAKE FOREVER

Use of Edmonton's bike lanes nearly doubled in first month, numbers show

'I love that Edmonton is becoming more accessible on the bicycle'

David Thurton · CBC News · Posted: Aug 10, 2017 6:00 PM MT | Last Updated: August 11, 2017

Protected bike lanes reduce stress, travel time for riders: study

Expanded connectivity means shorter trips and lower stress for bicycle commuters, U of A student's research shows.
FEAR OF CHANGE

Tone of 311 Calls Received

12 Ave Open
5 St Open
8 Ave/9 Ave and Stephen Ave Open

Positive
Neutral
Negative

SOURCE: CITY OF CALGARY
PERFECT AS THE ENEMY OF GOOD
IT IS ABOUT MORE THAN SIDEWALKS AND BIKEWAYS

HOUSTON OFFERS OPPORTUNITY FOR ALL. WE CELEBRATE OUR DIVERSITY OF PEOPLE, IDEAS, ECONOMY, CULTURE, AND PLACES. WE PROMOTE HEALTHY AND RESILIENT COMMUNITIES THROUGH SMART CIVIC INVESTMENTS, DYNAMIC PARTNERSHIPS, EDUCATION, AND INNOVATION. HOUSTON IS THE PLACE WHERE ANYONE CAN PROSPER AND FEEL AT HOME.

ADOPTED BY HOUSTON CITY COUNCIL OCTOBER 2015.

SOURCE: CITY OF HOUSTON
LIMITED FUNDING
STRENGTH OF QUICK BUILD

1. Doesn’t let PERFECT be the ENEMY OF THE GOOD.

2. Allows managing FEAR OF CHANGE.

3. Provides quick proof of concept instead of having RESULTS TAKE FOREVER.

4. Allows for changes to be made even when there is LIMITED FUNDING.
WHAT MAKES IT QUICK?

• Cheap materials, quick installation
• Consolidated/iterative planning and design process
• Field engineering
• Dedicated staff and consultant support
• Expedited review phases; Coordinated agency teams
• Political priority

• It is NOT a chance to skip or skim through:
  • Public engagement
  • Permitting / approvals
  • Engineering evaluation and quality control
KEY CONSIDERATIONS

• Who makes decisions?
• Design for safety, accessibility, equity
• Community engagement
• Maintenance
WHO MAKES DECISIONS?
DESIGN FOR SAFETY, ACCESSIBILITY, EQUITY
ENGAGEMENT & COMMUNITY KNOWLEDGE
ENGAGING THE PUBLIC

SOURCE: CITY OF HOUSTON
ENGAGEMENT DOESN’T STOP WITH OPENING DAY

SOURCE: CITY OF EDMONTON
MAINTENANCE
DESIGN & OPERATIONS WORKING TOGETHER

SOURCE: CITY OF EDMONTON
HOW CAN WE DO THIS HERE?
INGREDIENTS FOR SUCCESS

MAINTAIN CHAMPIONS

EMPHASIZE the NETWORK in PUBLIC ENGAGEMENT

DESIGN SHOULD PRIORITIZE SAFETY

FOCUS ON PROJECTS that SHOW RESULTS QUICKLY

ONE COLLABORATIVE TEAM of DESIGNERS and OPERATORS

INITIAL PROJECTS are ONLY THE BEGINNING
Fast facts about the cycle track pilot

- 2% of 300 km of downtown travel lanes used for 6.5 km of cycle tracks, allowing more people to choose to travel by bike.
- 1.2 million bicycle trips between June 18, 2015 and November 20, 2016.
- 90 seconds longest delay to people driving travelling entire 12 Avenue cycle track corridor during morning peak period.

- Council approved budget: $7.1M
- Pilot cost (to date): $5.45M (under budget)
- Net increase of parking stalls created downtown to offset the loss of parking along cycle track routes.
- 30% of people riding cycle tracks are women, up from 22% before cycle tracks.

- Unlawful sidewalk riding has decreased from an average of 16% (pre-cycle tracks) to 2%.

67% of Calgarians support the pilot project.

100+ adjustments made to improve traffic, loading and parking during the pilot.
MEASURE PERFORMANCE & SHARE STORIES

Another 80s Erin
@physedchick

Replies to @tylergolly and @tooledesign
Our 4.5yo biked 13km in protected bike lanes one day this summer. She's got confidence, power and a sustainable future.

Greg Wengreniuk
@GregWengreniuk

Replies to @tylergolly and @tooledesign
This year I turned 50. I started cycling and now commute 12.5 km to work on the grid and shared paths. My rush hour commute decreased from 40 to 35 mins, my stress decreased, and I'm in better shape now than in my 30s. My energy levels are up and match my pride.

Richard Liebrecht
@rwliebrecht

Replies to @tylergolly @YEGclimate and @tooledesign
It's made riding around with our 21-month old in a chariot far less nerve wracking. A big part of our family's fitness plan.

Calvin Binnema
@phiphophy

Replies to @tylergolly and @tooledesign
Age 59 - decided to start cycling to work this spring because there is now a fairly direct route to yegdt from S Clareview along mostly MUP or bike grid. Now committing to trying year round. Commute is no longer than transit. Improved physical & mental health.

J I Schmid
@jarvischmids

Replies to @tylergolly and @tooledesign
In yyc, my 7 y/o rode to drama camp downtown with me for 10 days (I was going to work). 6.5 km each way during rush hour. Without lanes, we would have drove or not done the camp.

Recovering Yoga Teacher
@erinlovesyoga

Replies to @tylergolly and @tooledesign
Safe bike infrastructure makes me feel seen (literally & figuratively). It acknowledges that I exist, & that my safety matters. It's as simple & profound as that.
QUICK BUILD
HARRIS COUNTY – CITY OF HOUSTON

Amar Mohite
Director, Planning & Infrastructure
Office of Commissioner Rodney Ellis
BAYOU GREENWAY 2020

150 MILES OF TRAILS
3,000 ACRES OF GREENSPACE
$220 M PUBLIC-PRIVATE PARTNERSHIP
EVERYTHING IS BIGGER IN TEXAS

San Francisco

33 MILES PLANNING PHASE ~ 18 MILES UNDER CONSTRUCTION
AGREEMENT FRAMEWORK

HARRIS COUNTY
• FUNDING
• NETWORK PLANNING
• DESIGN
• CONSTRUCTION
• 1-YEAR MAINTENANCE

CITY OF HOUSTON
• COMMUNITY & STAKEHOLDER ENGAGEMENT - OUTREACH
  • PLANNING
  • DESIGN
  • CONSTRUCTION
• DESIGN REVIEW & APPROVAL
• LONG TERM MAINTENANCE

DEPARTMENTS
• HARRIS COUNTY ENGINEERING

DEPARTMENTS
• PLANNING & DEVELOPMENT
• PUBLIC WORKS
• PARKS & RECREATION
• SOLID WASTE
• PARKING
DESIGN TEAM & PARTNERS

PLANNING & DESIGN
• TRAFFIC ENGINEERS INC.
• TOOLE DESIGN

PROJECT MANAGEMENT
• JONES | CARTER

OTHER AGENCIES
• HOUSTON METRO
• TXDOT
• MANAGEMENT DISTRICTS

ORGANIZATION
• BIKE HOUSTON
• HOUSTON BIKE SHARE
• SUPER NEIGHBORHOODS
LESSONS LEARNT

LEADERSHIP MATTERS
LESSONS LEARNT

LEADERSHIP MATTERS

ROLES & RESPONSIBILITIES
LESSONS LEARNT

LEADERSHIP MATTERS

ROLES & RESPONSIBILITIES

RULES OF ENGAGEMENT

COMMUNITY ENGAGEMENT
LESSONS LEARNT

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MAINTENANCE
LOOKING FORWARD
Discussion

⇒ Send us your questions

⇒ Follow up with us:
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⇒ Archive at www.pedbikeinfo.org/webinars