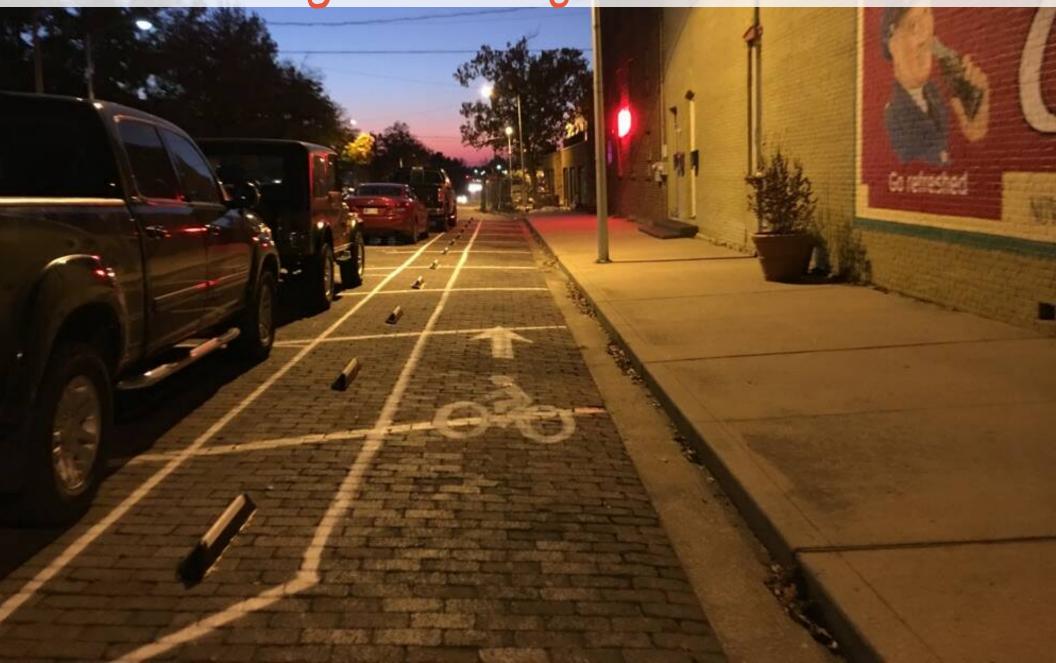
### Northwest Arkansas Protected Bicycle Pilot Projects



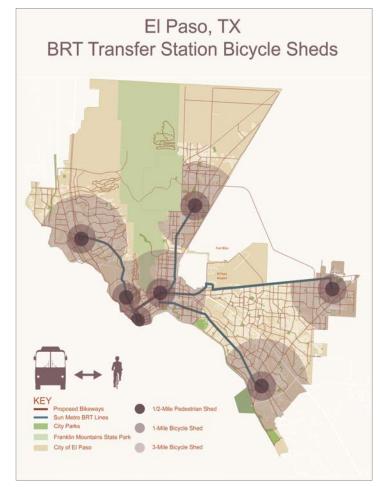


#### Better Streets, Better Places

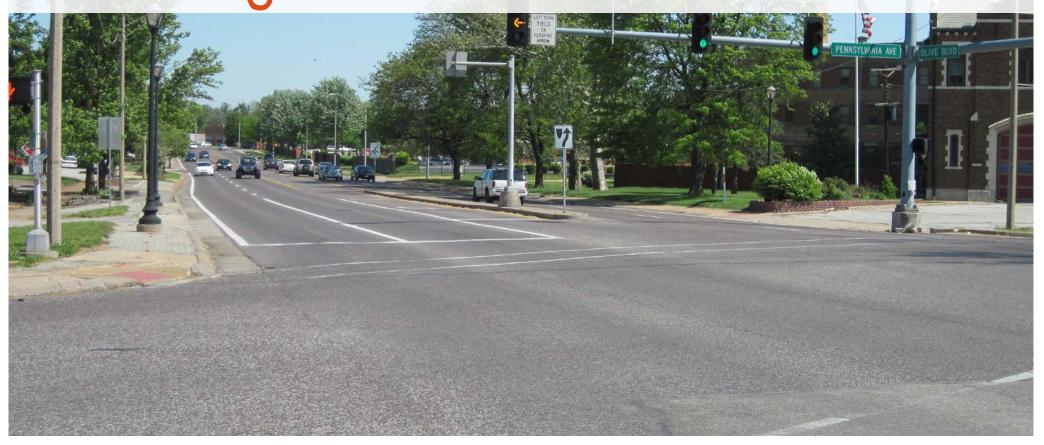
- Transportation Planning
- Placemaking + Tactical Urbanism
- Architecture
- Public Outreach
- Training | Workshops







### Visualizing Safe Streets



Existing Automobile Space: 80% People Space: 20%

### Awesome! Now What?!



Proposed Automobile Space: 50% People Space: 50%

# Real Change is Hard!



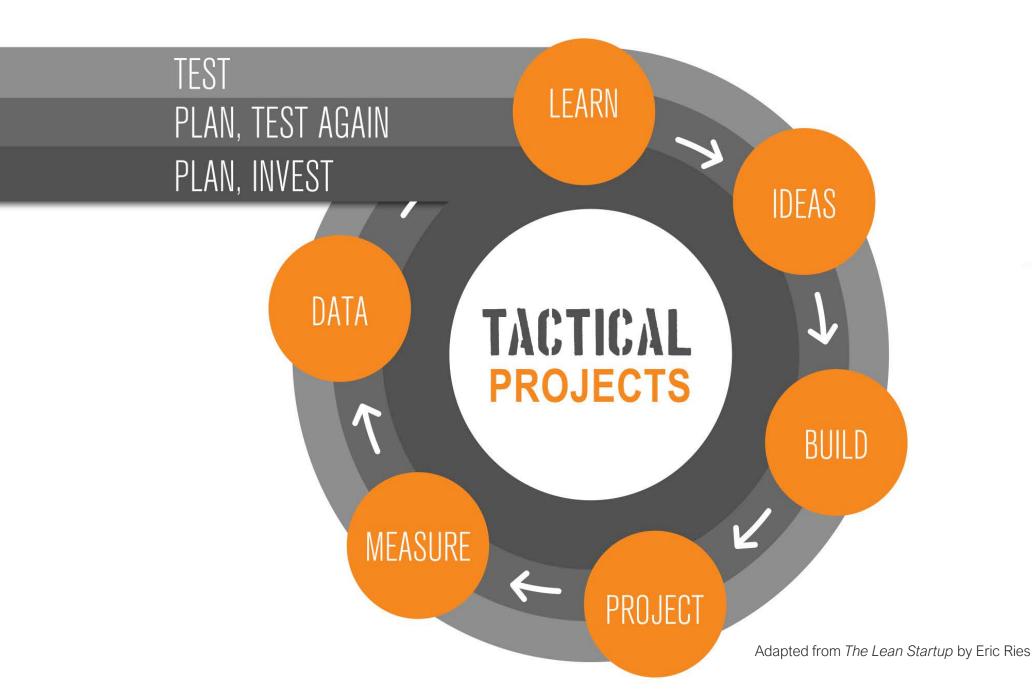


# Lessons In Iterative Design

- 2009 3-day pop-up plaza, with lawn chairs
- 2010 Pilot plaza with paint and temporary materials
- 2012 Iterate design, evaluate outcomes, move forward with permanent design
- 2014 Permanent plaza construction underway
- 2015 Project Complete!

Images: Left; Nina Munteneau, Middle: NYCDOT, Right: Street Plans

# BUILD, MEASURE, LEARN



### Publications

550,000+ downloads / impressions across 150+ countries



Vol. 5 (Italy) Coming Soon!

# Tacticalurbanismguide.com

# The Tactical Urbanism Spectrum

#### UNSANCTIONED

#### CONDITIONS FOR AN UNSANCTIONED PROJECT

- » Intervention is smaller in scale
- » There are few if any organizational champions
- Leaders aren't willing to address existing plans, policies, project delivery protocols with action
- » Can't find a way to utilize the system
- City/entities will not help obtain/expedite permits, traffic control plans etc.

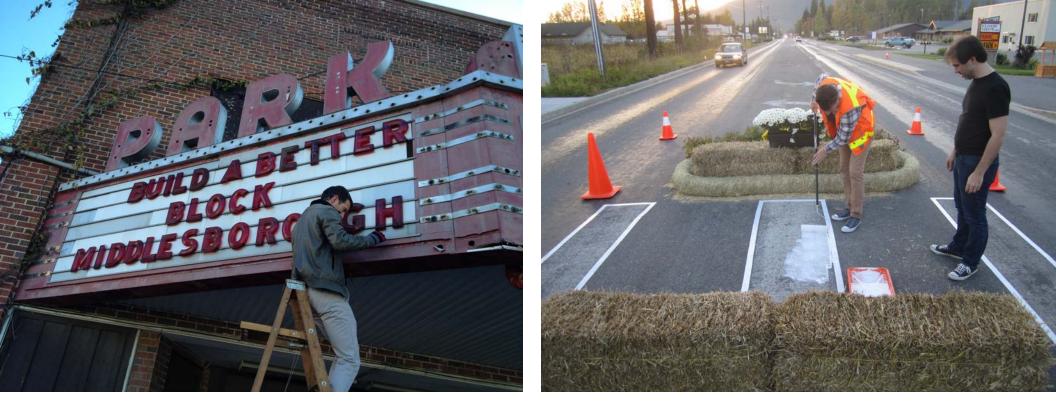
#### CONDITIONS FOR A SANCTIONED PROJECT

SANCTIONED

- » Intervention is larger in scale
- » You have identified organizational champion(s)
- » There are existing plans and/or policies that city leaders want to address with action
- » There are ways to use the system creatively
- » City/entities will help obtain/expedite permits, traffic control plans etc.

In Planning by Doing, Gehl Studio created a Scope Compass, providing another way to outline how a project could be positioned within the spectrum of sanctioned to unsanctioned, and across the axes of time intervals, from short-term to long-term. To read more in the Planning by Doing document, visit: bit.ly/GehlPlanningbyDoing

**INTRODUCTION** • 17

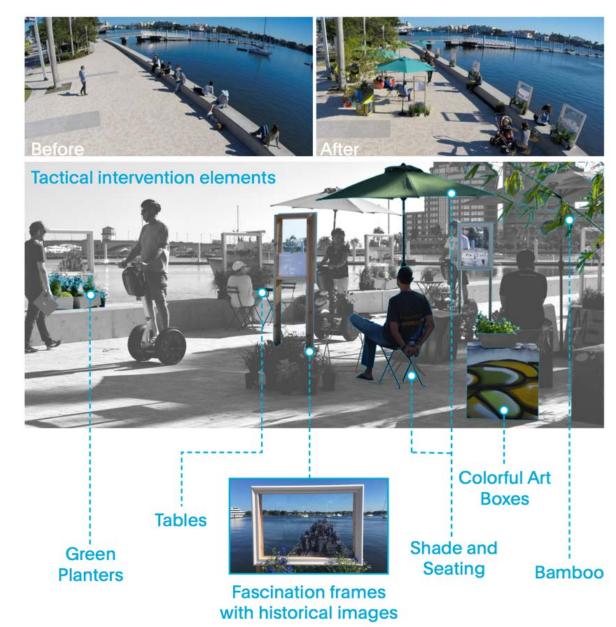






# We've Learned 2 Important Things

- Communities are really hungry for a new approach to civic engagement and project delivery.
- 2. Cities and citizens need policies, programs, design, and materials guidance that enable this new approach to civic engagement and project delivery.







## TACTICAL URBANIST'S GUIDE TO MATERIALS AND DESIGN VOLUME 1

OCTOBER 2016 CREATED BY THE STREET PLANS COLLABOARTIVE, WITH FUNDING FROM THE JOHN D. AND JAMES L. KNIGHT FOUNDATION.

THANK YOU

#### To our funders:

John S. and James L. Knight Foundation

#### For review support:

National Association of City Transportation Officials (NACTO), the Vision Zero Network, People for Bikes, Team Better Block, and Rick Chellman, P.E.

#### To our project partners and the many practitioners who provided information through interviews, emails, or phone calls:

Robin Abad | Urban Designer & Planner, San Francisco Planning Dept. | San Francisco, CA Michael Andersen | Staff Writer, PeopleForBikes | Portland, OR Janet Attarian | Livable Streets Director, Chicago DOT (Former) | Chicago, IL Nate Baird | Mobility Officer, Long Beach Public Works | Long Beach, CA Ariel Ben-Amos | Green Infrastructure Partnership Manager, Transportation, Philadelphia Water Dept. | Philadelphia, PA Rob Berry | Partner, Berry & Linné | Los Angeles, CA Rachael Bronson | Associate City Planner, City & County of Denver | Denver, CO Seth Budick | Manager, Policy & Research, University City District | Philadelphia, PA Dave Campbell | Advocacy Director, Bike East Bay | Oakland, CA Lee Crandell | Executive Director, Lakeview Chamber of Commerce | Chicago, IL Jessica Cronstein | Urban Designer, NYCDOT | New York, NY Ray Dang | Graphic Designer, Los Angeles County MTA | Los Angeles, CA John DeVito | Technical Sales Rep, GAF | Martinez, CA Laura Dierenfield | Active Transportation Program Manager, City of Austin | Austin, TX Monica Diodati | Communications Director, Team Better Block | Dallas, TX Dan Emerine | Senior Transportation Planner, DC Office of Planning | Washington D.C. Nick Falbo | Senior Planner, Alta Planning + Design | Portland, OR Cara Ferrentino | Transpo. Systems Policy Manager, City of Philadelphia | Philadelphia, PA Nat Gale | Principal Project Coordinator, LADOT | Los Angeles, CA Elizabeth Gallardo | Assistant Project Coordinator, City of Los Angeles | Los Angeles, CA Shari Glickman | City Planner/Project Manager, Public Space Unit, NYCDOT | New York, NY Michael Goodno | Bicycle Program Specialist, DDOT | Washington D.C. Colin Harris | Engineering Associate, Alta Planning + Design | Minneapolis, MN Doug Hausladen | Director of Transportation, City of New Haven | New Haven, CT Nate Hommel | Director of Planning & Design, University City District | Philadelphia, PA Ethan Hutchings | Manager of Operations, City of New Haven | New Haven, CT Andrew Howard | Partner & Project Manager, Team Better Block | Dallas, TX

Vanessa Irizarry | Coordinating Planner, Chicago DOT | Chicago, IL David Isaacs | Regional Sales & Support Manager, Ennis-Flint | New York, NY Ryan Johnson | Senior Planner, Alta Planning + Design | Los Angeles, CA Bryan Jones | Principal, Alta Planning + Design | San Diego, CA Daveed Kapoor | Director, Utopiad.org | Los Angeles, CA Matt Lasky | Project Manager, SFMTA | San Francisco, CA Nicole Losch | Transportation Planner, City of Burlington | Burlington, VT Craig MacPherson | Sybertech Waste Reduction Ltd | White Rock, Canada Emily Morishita | Senior Designer, Hunt Design | Los Angeles, CA Anna Martin | Traffic Engineer, City of Austin | Austin, TX Ryan McCann | Policy and Outreach Manager, BikeDenver (former) | Denver, CO Joshuah Mello | Chief Transportation Official, City of Palo Alto | Palo Alto, CA Alyse Nelson | Strategic Advisor, Seattle DOT | Seattle, WA Lilly O'Brien | Program Manager, LA Great Streets Initiative, Office of Mayor Eric Garcetti | Los Angeles, CA Brian Oh | Transportation Planner, City of Los Angeles | Los Angeles, CA Stephen T. Patchan | Senior Planner, Active Transportation, SCAG | Los Angeles, CA Max Podemski | Planning Director, Pacoima Beautiful | Los Angeles, CA Dan Raine | Senior City Planner, City & County of Denver | Denver, CO Jason Roberts | Partner & Co-Founder, Team Better Block | Dallas, TX Matt Roe | Designing Cities Director, NACTO | New York, NY Jay Ruegner | Western U.S. Regional Sales Manager, PEXCO | Boise, ID John Paul Schaffer | Program Director, Livable Memphis | Memphis, TN Craig Schulz | Technical Sales/Design Engineer, PEXCO | Tacoma, WA Shahram Shariati | Project Manager & Transportation Engineer, SFMTA | San Francisco, CA Krysia Solheim | Owner, Viosimo | New Haven, CT Andrew Stober | VP Planning/Economic Dev., University City District | Philadelphia, PA Matt Vander Sluis | Program Director, Greenbelt Alliance | San Francisco, CA Jason Van Driesche | Deputy Director, Local Motion | Burlington, VT Randy Wade | Director of Pedestrian Projects, NYCDOT | New York, NY Valerie Watson | Transportation Planning Associate II, LADOT | Los Angeles, CA Eric Widstrand | City Traffic Engineer, City of Long Beach | Long Beach, CA Nathan Wilkes | Engineer, City of Austin | Austin, TX Bob Wilson | CFO, Statewide Striping | Parsippany, NJ Cliff Wilson | Director of Operations, Statewide Striping | Parsippany, NJ Howard Wu, AICP | Associate Transportation Civil Engineer, City of Seattle | Seattle, WA

# Project Delivery Spectrum

BikeNWA



#### ARMADILLOS

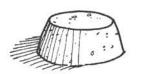
#### CONCRETE "TURTLE" BUMPS



**Typical Dimensions:** Available in 3 and 5" length sizes, Requires 1.5ft of width for buffer area.

**Estimated Cost:** \$40-50 per unit, depending on size and quantity ordered.

**Overview:** Low, mountable plastic bump that can be used to achieve a curb-like barrier effect.



Typical Dimensions: Require 1.5 ft. of width.

Estimated Cost: \$3-5/ft. (\$15k-\$30k/lane, per mile)

**Overview:** Often used as barrier near light rail tracks, these low, mountable bumps can be used to achieve a curb-like barrier effect.

#### Demo (1 day-1 wk.) Pilot (1 month - 1 yr.)

1 yr.) ► Interim (1-5 yrs.)

#### **Recommended Applications and Installation**

Bike Lanes: Place cones along edge of lane, 1 every 5-8 ft. Installation does not require specialized equipment. Simply drill holes and install. A team of three people can install about 100 meters in a day. The product's pre-sunk bolt holes can accommodate anchors of various sizes.

#### **Tips and Considerations**

- » Easily Installed and removed.
- » Durable and mountable for emergency vehicles, city service vehicles, etc.
- » Minimal/no stormwater obstruction.
- » Set armadillos at an angle to allow cyclists to cross barrier if necessary.
- » Low visual profile can lead to a decreased perception of safety for people walking or biking.
- » Manufacturer recommends using mechanical anchors with chemical adhesives. Plastic mechanical anchors are not recommended.

#### **Potential Sources**

» Purchase from traffic control or construction equipment suppliers.

#### Demo (1 day-1 wk.)

#### ▶ Pilot (1 month - 1 yr.) ▶ Interim (1-5 yrs.)

#### **Recommended Applications and Installation**

- Bike Lanes: Place cones along edge of lane, 1 every 5-8 ft. Affix to pavement using chemical adhesives such as epoxy.
- Curb Extensions and Plazas: May be combined with planters or other barrier elements to define the edge of a plaza or curb extension. Affix to pavement using chemical adhesives such as epoxy.

#### **Tips and Considerations**

- » Note that installation/set time will be impacted by weather and temperature. Buttons should be allowed to fully set before sustaining any impact.
- » Durable and mountable for emergency vehicles, city service vehicles, etc.
- » Minimal/no stormwater obstruction.
- » Low visual profile can lead to a decreased perception of safety for people walking or biking.

#### **Potential Sources**

» Purchase from traffic control or construction equipment suppliers.

# Why Tactical Urbanism?

- ✓ Expedite implementation and deliver public benefits faster.
- Test aspects of a program, project or plan before making large political/financial investments.
- ✓Allow people to physically experience alternative options and re-imagine how streets and public spaces could be used (marketing).
- ✓ Widen public engagement, gather data from the real-world users of streets and other public spaces.



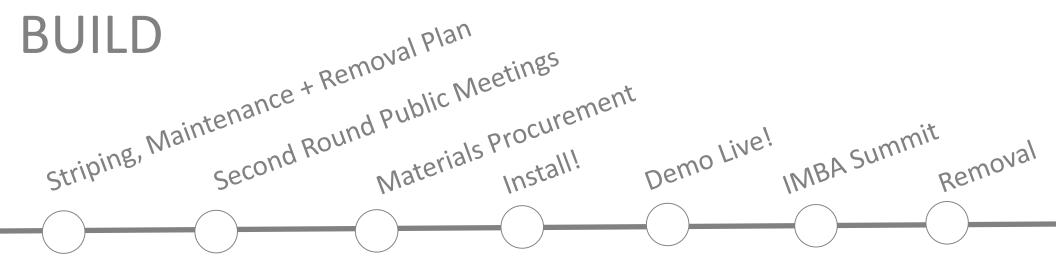
# Bike NWA

- 3 cities, 2 months!
- \$30,000 material budget
- 1 month duration
- Project Goals
  - Test bikeway types + materials
  - Build protected bikeways
  - Bikeway education
  - Building relationships + local capacity





Sep 1 Sep 6 - 9 Sep 12 - 16 Sep 19 - 23 Sep 26 - 29



Oct 3 -7 Oct 10 - 14 Oct 3 - 21 Oct 26 - 31 Nov 1 - 30 Nov 1 - 30 Dec 1 +

### So you have an idea? Assemble your Core Project Team

- The core project team must include community partners.
   Cannot be exclusively consultants and city staff!
- Your team should have political cover; look for a high ranking champion.
- Core project team members should be in regular contact (these are your new best friends).



# 4 Main elements of TU Project Planning

- Communication (Branding + Public Outreach)
- Planning (Site Plan + Install Plan)
- Build (Procurement + Equipment)
- Evaluation (Data collection + Surveys)

# Communication

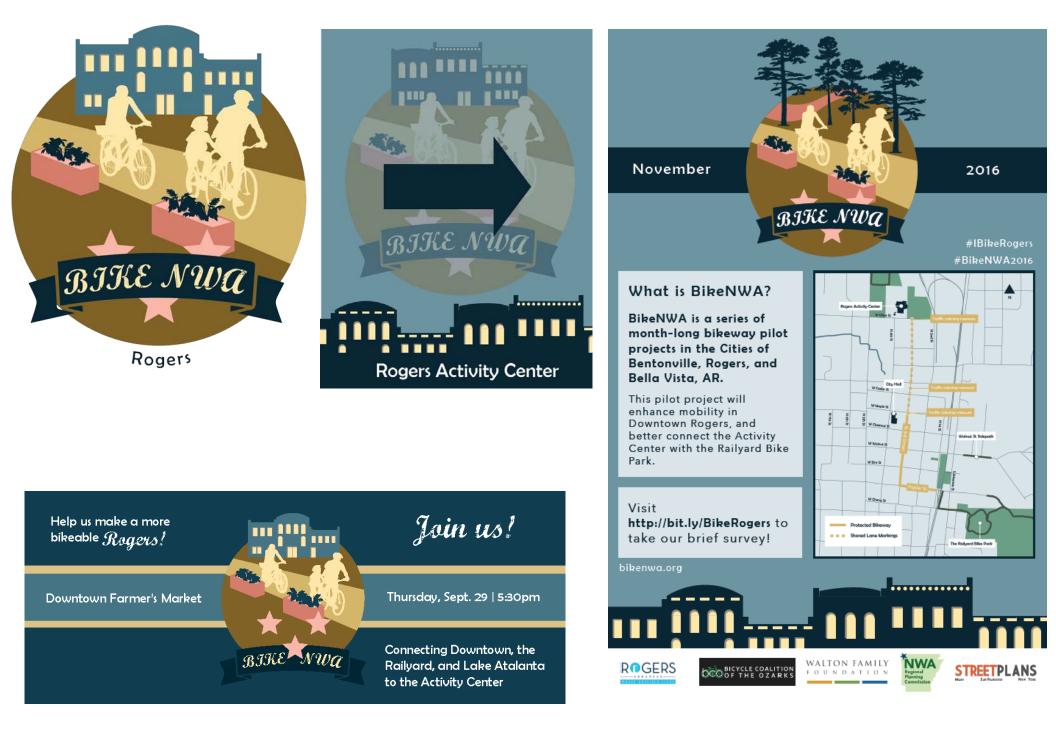
Project Branding Digital Communications Public Outreach Media Outreach

### Start with a communication plan

	🖪 BikeNWA Bella Vista - Go 🗙					
← -	← → C • https://docs.google.com/spreadsheets/d/14_x7OccriiK-IARHFbB7LnfT7jcu4HxUyKOp1israP8/edit#gid=952326980					
	BikeNWA Bella Vista 😒					
	File Edit View Insert Format Data Tools Add-ons Help Last edit was on October 31					
0						
fx	Communications Plan					
_	Α					
1	Communications Plan					
2						
3	Kick-off Meeting #1 - September 28th, 2016, 6:30 – 8:00 pm (Central time), Cooper Elementary					
4	Post the meeting information through a press release to local newspaper, BikeNWA website, and social media.					
5	Press Release sent out September 19, 2016					
6	September 20: Local News – Press Release to be sent by Cassi Lapp					
7	September 21-23: Social Media post/Facebook Invite through City of Bella Vista to be shared by BCO and city.					
8	September 28th Morning: TV Interview – Bella Vista TV; canceled					
9	September 27th Morning: Radio Interview – Sherryl to reach out					
10	Social Media ongoing starting on September 21-23					
11 12	Hand out postcards to invite and include people in the demonstration project, volunteer solicitation.					
	Demonstration Deviced October 97.00					
13	Demonstration Project, October 27-28					
14	Press Release - send out Friday, October 21					
15	Monday, October 24rd – Reach out to state newspaper, radio stations					
16 17	Octover 27 - TV interview with Cassi, TV 5					
17	October 27 - Photographer takes before pics October 28 - Dem Gazette Photographer on Site					
19						
20	October 28 - Time Lapse Photography - All day October 29 - After photos					
21						
22	On-going Social Media Strategy					
23	Cassi Lapp will post on City of Bella Vista Social Media, everyone else should forward information.					
24						
25	- September 21 - 25 (3 posts):					
26	o Save the date: Sept 28 event invite and info					
27	o Every other day post on general information of bicycle infrastructure and the different types of bicycle lanes/ways/tra					
28	o 1st Meeting Event invite and information on general project idea (no specific maps)					
29						
30	- September 26-29 (daily - one post):					
31	o General information with event date countdown					
32 33	Castandar 20 (master live analy)					
33 34	- September 28 (meeting live posts):					
35	o Stream video, pictures as meeting occurs					
	· · · · · · · · · · · · · · · · · · ·					
	+ = To Do List * TIMELINE * Materials Budget * Staffing (day of) * Materials Calcs * Volunteers * Communication Plan * Stakeholders *					
	🔾 Ask me anything 🛛 📮 🐢 🌍 🔯 🕅 🐢 😰 🧔					

- ✓ Communications plan includes:
  - ✓ Dates for Media outreach
  - ✓ Dates for Public outreach
- ✓ Talk to folks who already have media connections + outlets.
- Rely on partners to spread the word and make connections

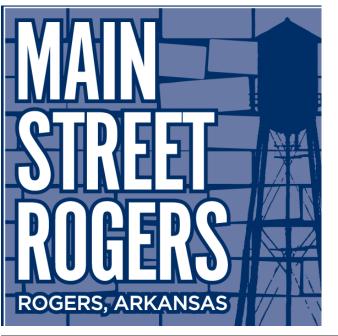
# Project Branding



### Digital Communication



## Look for partners!



#### BICYCLE COALITION OF THE OZARKS





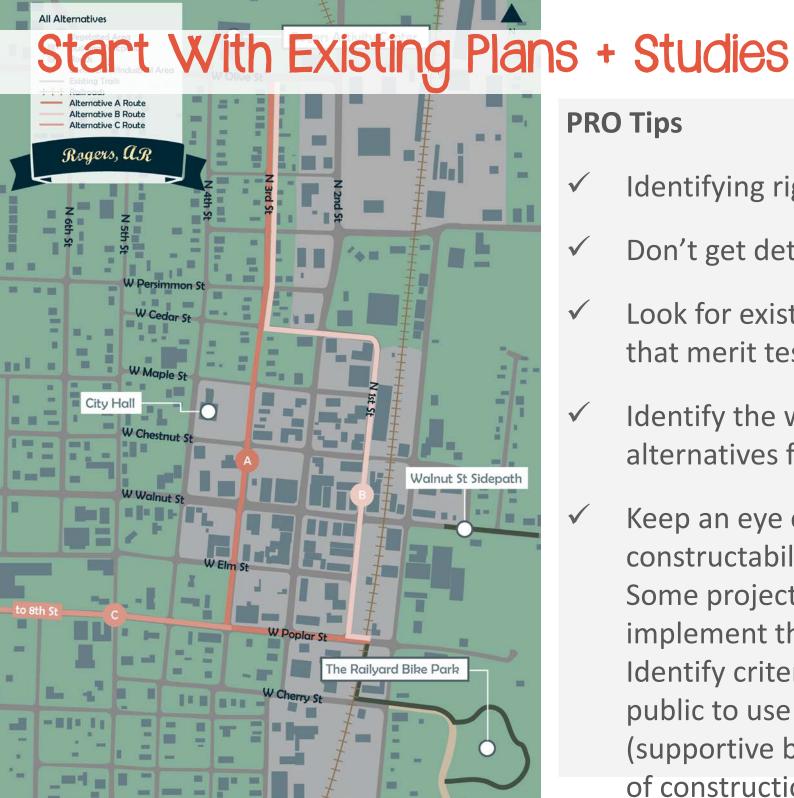
- Non-profits
- Downtown Associations
- Neighborhood associations
- BID
- Relevant industry partners
- Tourism Board
- Chamber of Commerce
- Local businesses

# Planning

Site Planning

**Install Planning** 

Programming\*



- Identifying right project is key
- Don't get detailed yet
- Look for existing plans /studies that merit testing
- Identify the widest number of alternatives from the start
- Keep an eye on constructability + red flags. Some projects are easier to implement than others. Identify criteria for team and public to use to decide (supportive businesses, ease of construction, politics...etc.)

### Share plans early +often with Public







- Hash out site plan ideas
   IRL
  - Identify champions,
     volunteers, sponsors
- Leave meetings with homework – for you and public

### Ideate: Skill-Sharing

Sk	ills/Resources	Inventory
BJFCE NWA	I have or can get access to     Plants/trees     Tools (drills, hammers, etc.)     Wheelbarrow     Shovel     Wood pallets/crates     A truck (pick-up or larger)	<ul> <li>Paint</li> <li>Safety vests</li> <li>Cinder blocks</li> <li>Something else</li> </ul>
I want to VOLUNTEER! Have any skills or passions you could translate into programming for the event?	I can help lead(and/or recruited in the second s	uit someone to help lead)  Supply procurement  Supply transport  Partnership with local clubs Something else
I can help the group sp We'll need everyone to help pro Please note the listservs or chan to for promoting the event. (e.c	omote the event! mels you have access	
classes you attend, clubs, etc.)	nt to be part of the Action Name: Phone: Email:	— — — — — — — — — — Team? -
Help us m	For more information: www.bikemwa.	

- $\checkmark$  Follow up with folks 1 on 1.
- Go door to door. The best way to communicate is still face to face.
- Make changes to the site plan based on what you hear and what resources start to pop up.







### Talking to People We Don't Normally Talk To



### The Build Team - Identify Team Roles

- Moneymakers (fundraisers)
- Hunter-Gatherers (materials)
- Makers (design/construction)
- Coordinators (logistics)
- Mouthpieces (communication)
- Documentarians (film, blog etc.)

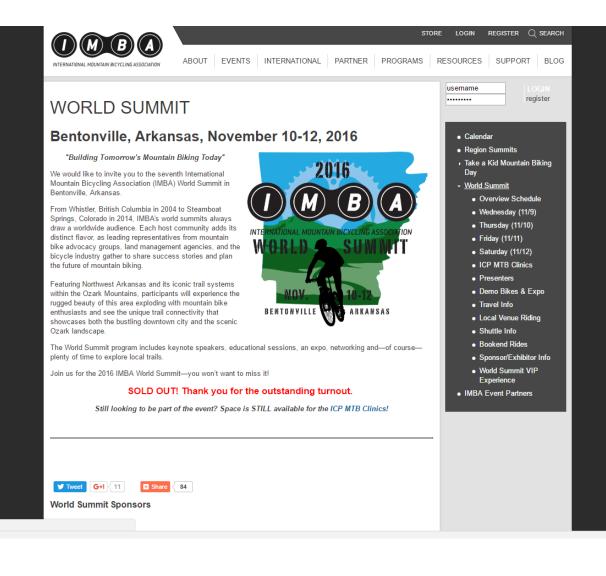
SE 4th St

#### Develop a site plan...



- Include typical dimensions
- Note materials + install notes
- MUTCD Sign locations
- More clarity here means a smooth procurement process

# Setting the Date



- ✓ Set a date early and stick with it! (Blackmail yourself)
- ✓ Look at the event calendar and leverage existing events (i.e.. opening of trail, IMBA).
- ✓ Be aware of events that may impact your build.
- Pay attention to the weather. Have a contingency plan.

### 3-4 weeks out - Have a Detailed Budget

	🔳 BikeNWA orgers - Goog x 🔪 — 🗇 X								
< -								☆ 🖸 :	
	← → C https://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=1009499328								
Ħ	Bike WA Rogers ★ 🖿							©streetplans.org ▼	
	File dit View	Insert Format Data Tools Add-on:	s Help Last edit was on October 31		•			Comments	🚔 Share
fx	Yellow ablight =								
<i>J</i> ~	· · · · · · · · · · · · · · · · · · ·	В	С	D		F			
1	Yellow Highlight =	Need to purchase		Question to discuss					
2	Category	Item	Quantity/Amount	Est. Total Cost	Source/Link	<b>Delivery Date</b>	Delivery Location	Removal Plan	Notes/Ques
3	Traffic Control	cones	100+ cones	Donated	City	Nov 1	Distribute along route		
	Traffic Control	Safety Vests	We purchased 11	Donated	Street Plans	We have them	Street Plans		
5	Preparation	Industrial Trash Bags	1 box	Included Below	Home Depot	Nov 1			We may have the
6	Preparation	Push broom + dust pan	2-3 push brooms and dust pans	Donated	Paxton has 1 push broom	Nov 2			for sweeping cros
7	Painting	Disposable respirator mask	Ideally need 2-3 for people spraying spray chalk. Masks sold in packs of 20 at ~\$20	Included Below	Home Depot	Nov 1	Street Plans		
8	Wayfinding	Bike Signs (colorful, branded)	To create and print in house	Donated	City	Nov 1	City of Rogers City Hall		
9	Wayfinding	Zip ties for sign attachment (8")	3, 20-packs at \$4/pack	Included Below	Home Depot	Nov 1	Street Plans		
	Misc Materials	TBD	TBD	\$254	Home Depot, Lowes	11-2-2016	Street Plans		
	Bike Path, Buffer, + Parking Striping	WHITE PAINT	34 Cases White	\$1,111	http://usscproducts.com/field-marking-paints/aerosol-field-ma rking-paints/spraychalk-temporary-chalk/p/16/2	Oct 31	Rogers Farmers Market		
	Diverter	Planters	4 barrels, 10 - 9" Trough	\$1,239	https://secure.potterybarn.com/customer-service/order-shipme		Rogers Farmers Market		
					nt-tracking/results.html?z0=33143&ordernum=063017785712& bnrid=3301019&cm_ite=order_tracking&tp=i-H43-Q2M-SmS-Y				
12					MA317-3Z-4A1CY-1c-VkyCVK-1eEG2e&cm_ven=Transact&c				
					m_cat=OrderConfirm&cm_pla=TransactionalOrderConfirm&cm _em=TONY@STREETPLANS.ORG				
13	Bike Lane Marking	BLACK OUT TAPE for existing	3 rolls of 8" x 120'	\$978	http://stop-painting.com/pavement-markings/black-line-mask.a				
		markings			sp				
	Conflict Zone + Diverter Paint	GREEN PAINT	26 Cases Green	\$849	http://usscproducts.com/field-marking-paints/aerosol-field-ma rking-paints/spraychalk-temporary-chalk/p/16/2	Oct 31	Rogers Farmers Market		
15	Center Line Striping	4" YELLOW TAPE	796', 265.3 yd, 1 roll = 120yd @ \$650/roll, 3 rolls	\$1,642	https://www.uline.com/Product/Detail/S-19407/3M-Specialty- Tapes/3M-A270ES-White-Stamark-Pavement-Marking-Tape-4	Nov 1	Rogers Farmers Market		
			0.1010		-x-30-yds				
	Stop Bars		3 x 30 yd rolls, \$726/roll	\$2,581	https://3m.pack-n-tape.com/3M-A380IES-Stamark-High-Perfo	Nov 1	Rogers Farmers Market		
16		12" WHITE TAPE			rmance-Tape-White-12-in-x-30-yd-1-per-carton.html?gclid=CM iB2d2g6s8CFQUehgodMREOHw				
	Conflict Zone		796', 265.3 yd, 1 roll = 120yd @ \$650/roll,	\$1,642	https://www.uline.com/Product/Detail/S-19407/3M-Specialty-	Nov 1	Rogers Farmers Market		
17	Striping	4" WHITE TAPE	3 rolls		Tapes/3M-A270ES-White-Stamark-Pavement-Marking-Tape-4 -x-30-yds				
18	Bike Lane Protection	Armadillos	42 @ \$58.09 each @ 6' on center	\$2,369	https://www.trafficsafetystore.com/road-markers/zebra-lane-se parator-5#Z13YL	Oct 31	Rogers City Hall		
	Bike Lane Protection	Surface Mount Plastic Delineators	80 for Rogers - \$24 each @ 10' on center	\$2.095	https://www.crowdcontrolstore.com/sm-700-surface-mount-pos	Nov 1	Rogers Farmers Market		
19					t.aspx		~		
	Bike Lane Protection	/	45 for Rogers - \$50 each @ 8' on center	\$2,859	http://trafficlogix.com/productsservices/cyclelane	Nov 3 - Nov 4	Rogers Farmers Market		Rogers has 48 of
21	Diverters	Planters		\$768		44.4.2040	0		
22	Misc Planting Materials	Plants	Plants	\$250	Home Depot	11-1-2016	Street Plans		
23	TOTAL			\$17,620					
	+ 🔳 To Do Lis	st v TIMELINE v Staffing (day of) v	Materials Budget - Materials Calcs -	Volunteers - Stakeho	Iders - Evaluation - Signage Plan - Communication Pl	an 👻 DayOf Sched	v		Explore
	Lapine Capital								

🕂 🔿 Ask me anything

💽 🛐 dp 💵 📭 🧑 dp 📻

へ (4) 😫 🐿 腐 📰 11:18 AM 😽

### 3-4 weeks out - Detailed Budget

	BikeNWA orgers - Goog ×						
← -	C https://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=1009499328						
Ш	Bike WA Rogers 🔆 🖿 File tit View Insert Format Data Tools Add-ons Help Lasteditwason October 31						
	● • <b>~</b> 7	\$ % .0, .00 123 - Arial -	10 · B Z - A · 🌺 · 🗄	- EE - Ì - I	과 - σο 国 교 平 Σ		
fx	Yellow ablight =						
	-	В	С	D			
1	Yellow Highlight =	Need to purchase	Red Text =	Question to discuss			
2	Category	Item	Quantity/Amount	Est. Total Cost	Source/Link		
3	Traffic Control	cones	100+ cones	Donated	City		
4	Traffic Control	Safety Vests	We purchased 11	Donated	Street Plans		
5	Preparation	Industrial Trash Bags	1 box	Included Below	Home Depot		
6	Preparation	Push broom + dust pan	2-3 push brooms and dust pans	Donated	Paxton has 1 push broom		
7	Painting	Disposable respirator mask	Ideally need 2-3 for people spraying spray chalk. Masks sold in packs of 20 at ~\$20	Included Below	Home Depot		
8	Wayfinding	Bike Signs (colorful, branded)	To create and print in house	Donated	City		
9	Wayfinding	Zip ties for sign attachment (8")	3, 20-packs at \$4/pack	Included Below	Home Depot		
10	Misc Materials	TBD	TBD	\$254	Home Depot, Lowes		
11	Bike Path, Buffer, + Parking Striping	WHITE PAINT	34 Cases White	\$1,111	http://usscproducts.com/field-marking-paints/aerosol-fie rking-paints/spraychalk-temporary-chalk/p/16/2		
12	Diverter	Planters	4 barrels, 10 - 9" Trough	\$1,239	https://secure.potterybam.com/customer-service/order-s nt-tracking/results.html?z0=33143&ordemum=06301778; bml=3301019&cm_ite=order_tracking&tp=iH43-2QM-S MA317-3Z-4A1CY-1c-VkyCVK-1eEG2e&cm_ven=Transi m_cate=OrderConfilm&cm_pla=TransactionalOrderConfir em=TONY@STREETPLANS.ORG		
13	Bike Lane Marking	BLACK OUT TAPE for existing markings	3 rolls of 8" x 120'	\$978	http://stop-painting.com/pavement-markings/black-line-m sp		
14	Conflict Zone + Diverter Paint	GREEN PAINT	26 Cases Green	\$849	http://usscproducts.com/field-marking-paints/aerosol-fie rking-paints/spraychalk-temporary-chalk/p/16/2		
15	Center Line Striping	4" YELLOW TAPE	796', 265.3 yd, 1 roll = 120yd @ \$650/roll, 3 rolls	\$1,642	https://www.uline.com/Product/Detail/S-19407/3M-Spec Tapes/3M-A270ES-White-Stamark-Pavement-Marking-T -x-30-yds		
16	Stop Bars	12" WHITE TAPE	3 x 30 yd rolls, \$726/roll	\$2,581	https://3m.pack-n-tape.com/3M-A380IES-Stamark-High- rmance-Tape-White-12-in-x-30-yd-1-per-carton.html?gclic iB2d2q6s8CFQUehgodMREOHw		
17	Conflict Zone Striping	4" WHITE TAPE	796', 265.3 yd, 1 roll = 120yd @ \$650/roll, 3 rolls	\$1,642	https://www.uline.com/Product/Detail/S-19407/3M-Spec Tapes/3M-A270ES-White-Stamark-Pavement-Marking-T -x-30-yds		
18	Bike Lane Protection	Armadillos	42 @ \$58.09 each @ 6' on center	\$2,369	https://www.trafficsafetystore.com/road-markers/zebra-la parator-5#Z13YL		
19	Bike Lane Protection	Surface Mount Plastic Delineators	80 for Rogers - \$24 each @ 10' on center	\$2,095	https://www.crowdcontrolstore.com/sm-700-surface-mour <u>t.aspx</u>		
20	Bike Lane Protection	Cycle lane delinator	45 for Rogers - \$50 each @ 8' on center	\$2,859	http://trafficlogix.com/productsservices/cyclelane		
21	Diverters	Planters		\$768			
22	Misc Planting Materials	Plants	Plants	\$250	Home Depot		
23	TOTAL			\$17,620			
	+ To Do List * TIMELINE * Staffing (day of) * Materials Budget * Materials Calcs * Volunteers * Stakeholders * Evaluation * Signage Plan * Communical						
	🖬 🔿 Ask me anything 🖉 📮 🕸 🌍 📴 🛂 🔮 👰						

- ✓ Identify materials storage location early.
- Make sure you have access to storage for build day.
- ✓ Include a removal plan for everything.
- ✓ Identify stewardship of materials after project.
   Who will take care of removal and storage of items post-build?

# Choosing the right materials



- Consider durability How long can the materials stay in the ground?
- Donated materials work for some items.
- Be mindful of long lead times for bulk/special orders.
- Expect things to go wrong.
- Use this as an opportunity to test materials.

# 2-3 weeks out - Build Day Schedule

	🗉 BikeNWA Rogers - Goog 🗙										
← -											
BikeNWA Rogers *         File Edit View Insert Format Data Tools Add-ons Help Last edit was on October 31											
	e • • • • •	\$%.0 <u>,</u> .0 <u>0</u> ,123 -	Arial - 10 - <b>B Z</b> - 5	<u>A</u> -	[ eə ,  ⊊  - <u>†</u> - ≣	Ξίμίγ - Σ -					
fx	Time Slot										
	А	В	С	D	E	F					
1	Time Slot	Job Name	Job Description	Staffing Lead/Captain	Total Volunteers Needed	Staffing Plan / Details					
9	Tuesday 11/1										
10	Pre-Event / Set-up										
11	All Day	Prep Install Holes	Drill holes in agreed locations.	Nathan (Rogers)							
12	Anytime	Street Sweeping	Ensure that debris is removed, and locations where bike lanes will be installed is clean.	Nathan (Rogers)							
13	Anytime	Block Parking Lane	Ensure that parking is clear by morning of install	Nathan (Rogers)	0						
14	Wednesday 11/2										
15	Pre-Event / Set-up										
16	6:00 AM	Soft Closure	Soft Closure of Street for install	Nathan (Rogers)	0	City of Rogers					
17	7:30 am - 8:30 am	Materials Delivery	Supply pick-up/transport to site	Tim (NWARPC)?	0	Distribute plastic delineators;					
18	7:30 am - 8:30 am	Chalk Line	Start Chalking to prep for teams	Tony + Dana							
19	8:30 AM	Call time for Captains	All NWARPC, Street Plans, and lead City Staff on site. Radios distributed. Jobs reviewed.	Tony (Street Plans)	0	Once check-in is done, all Captains assist with load-in until other duties require attention, as assigned					
20	Demo Build Shift 1										
21	8:40 am - 12:00 pm	Bike Lane Chalking	Use of chalk lines to draw bike lanes	4 teams							
22	8:30 AM - 12:00 PM	Bike Lane - Striping - outer	use stripping machine to paint outer two lines	Paxton + Tony							
23	8:30 AM - 12:00 PM	Bike Lane - Striping - inner	Cut yellow stripes and align with chalk lines	Dana Wall (Street Plans)							
24	9:00 AM - 10:00 AM	Posting Sign/Wayfinding	Place signs throughout event per site plan		1-2						
	8:30 AM - 12:00 PM	Bike Lane - Protection				Stan?					
26	8:30 AM - 12:00 PM	Bike Lane - Protection	Plastic Delineators								
27	8:30 AM - 12:00 PM	Bike Lane - Black Out, Hatch Marks; stop bars	Cut 12" stop bars, black out tape and hatch marks	Sherryl?	2						
28	8:30 AM - 12:00 PM	Bike Lane - Stencils	Bike stencils along route	Nathan?	2						
29	Demo Build Shift 2										
30	1:00 - 5:30 PM	Bike Lane - Striping - outer	use stripping machine to paint outer two lines	-	0						
31	1:00 - 5:30 PM	Bike Lane - Striping - outer	Cut yellow stripes and align with chalk lines	Dana Wall (Street Plans)	-						
32	1:00 - 5:30 PM	Bike Lane - Black Out, Hatch Marks; stop bars	Cut 12" stop bars, black out tape and hatch marks		1						
33	1:00 - 5:30 PM	Bike Lane - Stencils	Bike stencils along route		1-2						
	4.00 4.00 PM	- · · ·			4.2						
	+  To Do List * TIMELINE * Staffing (day of) * Materials Budget * Materials Calcs * Volunteers * Stakeholders * Evaluation * Signage Plan * Communication										
📲 🔿 Ask me anything 🛛 📮 🟚 🏟 🗖 🗖 🗖											

- The team should have one captain. The person who is directing work and knows all.
- Designate activity captains. Practice makes perfect!
- Set up should happen in the days before. Blocking lanes, parking, prelim install can all happen prior.
- Make sure area is clean and dry

# Ongoing - follow up, follow up, follow up!

• BikeNWA Rogers - Googl 🗙 🔪

A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=1091871906
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=109187190
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=109187190
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=10918719
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=10918719
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI/edit#gid=10918719
 A ttps://docs.google.com/spreadsheets/d/1bHKDy2FhhPdGI7Kzyq6AtGWfy3Xfuk-TTyWqVLqi4KI

#### BikeNWA Rogers

File Edit View Insert Format Data Tools Add-ons Help Last edit was on October 31

		\$ % .0 <sub>↓</sub> .0 <u>0</u> 123 - Arial	10 * B I ÷ A · ϕ <sub>0</sub> · ⊞ · ⊡ · ≡ · † · □, · co □ □ □ ∇ · Σ ·	
fx	Assigned to:			
	A	В	С	D
1	Assigned to:	Request	Result	
2	City of Rogers	Drone Video	Lt from Fire Dept will use his drone; pick day with best weather	Confirmed
3	WWF	Documentation	Take before photos Nov 1.	Confirmed
4	SP	Documentation	Tony to call TJ about lift	
5	Nathan	Street Sweeping	Schedule around weather	In progress
6	Nathan	Predrilling Holes	Scheduled for Nov 1. Nathan to check on chalk line.	In progress
7	Nathan	Evaluation	Company doing video counts, volume and street data next week; will deliver in spreadhseet form; Nathan already did counts on Poplar + Ark, 1, 2, 3 and speed data; and bike ped data at peak times at these intersections; Paxton to follow up with Nathan; \$800 for an intersection	in progress
8	Paxton	Programming	Working with Bike Rogers; waiting to see where we land with northern section on 3	in progress
9	SP/Paxton/Rogers	Evaluation	Post counts?	
10	Nathan	Blocking Parking	"No parking" signs	
11	SP	Communications	Dana needs to send survey number	In progress
12	SP	Communications	Send PR to Ben	In progress
13	SP	Communications	Blurb about project to Karen; will go out in chamber newsletter	In progress
14	SP	Procurement	See materials list, need to finish buying protective barriers, paint and tape	in progress
15	Ben	Communications	Booth @ upcoming events	?
16	Ben	Communications	Send out press release (coordinate with Luis)	waiting on Tony
17	Ben	Communications	print posters - both paper and corrugated board	good to go after today
18	SP	Site plan	making adjustments - paint through intersections; use paint for striping to save money; price out Olive and Maple intersections, and sharrow plans.	in progress
19	SP	Site plan	Traffic signs - Sp to get a list to Nathan	
20	SP	Communications	send out email today 10-21 to volunteers	
21	SP	Procurement	need a fork lift	
22	SP	Stencils	Create stencils	
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35		1		
Waiting	To Do L	ist - TIMELINE - Staffing (day of	h v Materials Budoet v Materials Calcs v Volunteers v Stakeholders v Evaluation v Signag	e Plan 👻 Communica
	O Ask me anyth	ning 📮	📄 🕕 🧿 🚾 🛛 🗊 🚱	

- Increase internal communications in final weeks.
- Triage plan know when to hold 'em and when to fold 'em. Be realistic about resources.
- Expect last minute changes and adjustments.
- ✓ Get lots of rest night before!

# Evaluation

# Surveys

#### What is BikeNWA?

BIKE NWA

We need your feedback

Visit http://svy.mb/2f8X59

BICYCLE COALITID

**PRO Tips** 

✓ Get data early on for:

✓ Traffic volumes + speeds

✓ Bike/Ped Counts

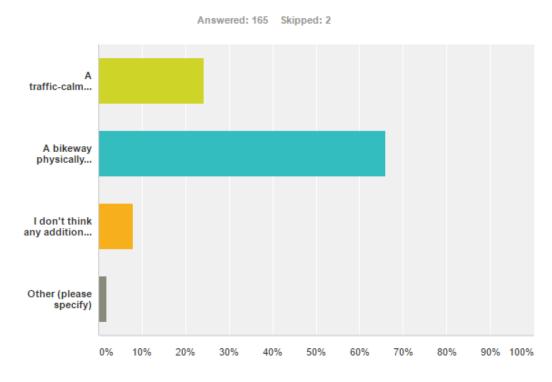
✓ Use Intercept surveys – both digital + paper to get more info

✓ Make sure you get actual

Users, and not trolls.

## What we learned

What type of cycling facility would you like to see connect the Crystal Bridges Trail, the Bentonville Square, and the Downtown Trail?



Ans	Respons	Responses 👻	
-	A traffic-calmed, slow speed street shared by people driving, walking, and cycling.	24.24%	40
-	A bikeway physically protected from moving traffic with a barrier.	66.06%	109
-	I don't think any additional cycling or traffic-calming facilities are needed at this time.	7.88%	13
-	Other (please specify) Responses	1.82%	3
Tota	al		165

"Absolutely I'd like a stronger/permanent connection. The option for using Cherry St instead of Poplar between 1st and 3rd is not given below. That is the route I think would be safest, most direct and the best overall option. Glad to have the experiment and hope you get a lot of feedback."

# Documenting the Project

- ✓ Get creative with locations!
- Look for aerial shots from local buildings, cranes.
- Don't forget about time lapse photography and drone footage.
- Think about how the photos with build out

# The Build!

# Putting it all together

USSC

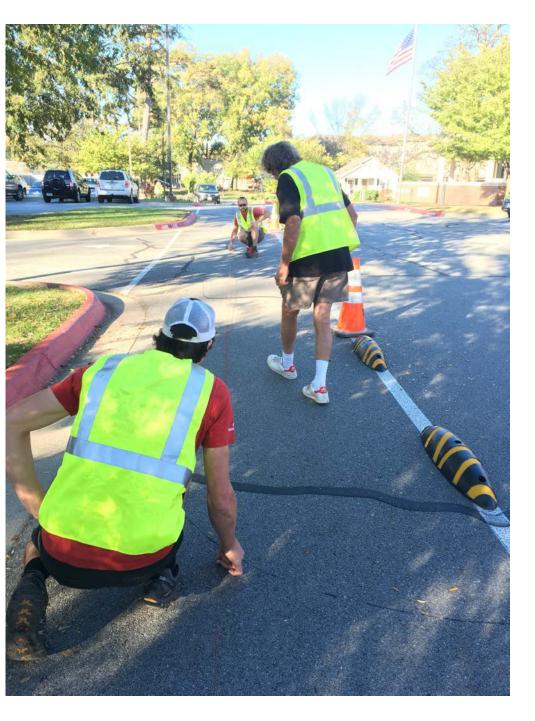
RA

689

ECOSTRIPE

LTYCBATINES COM

## Draw + measure first





- Critical first step measure + chalk out lines – this time saver will make everything else move smoothly.
- Expect variations from the site plan.

# Installing protective barriers

## **PRO Tips**

 ✓ Some devices will need to be drilled, others can be glued.
 Gorilla Glue works wonders!





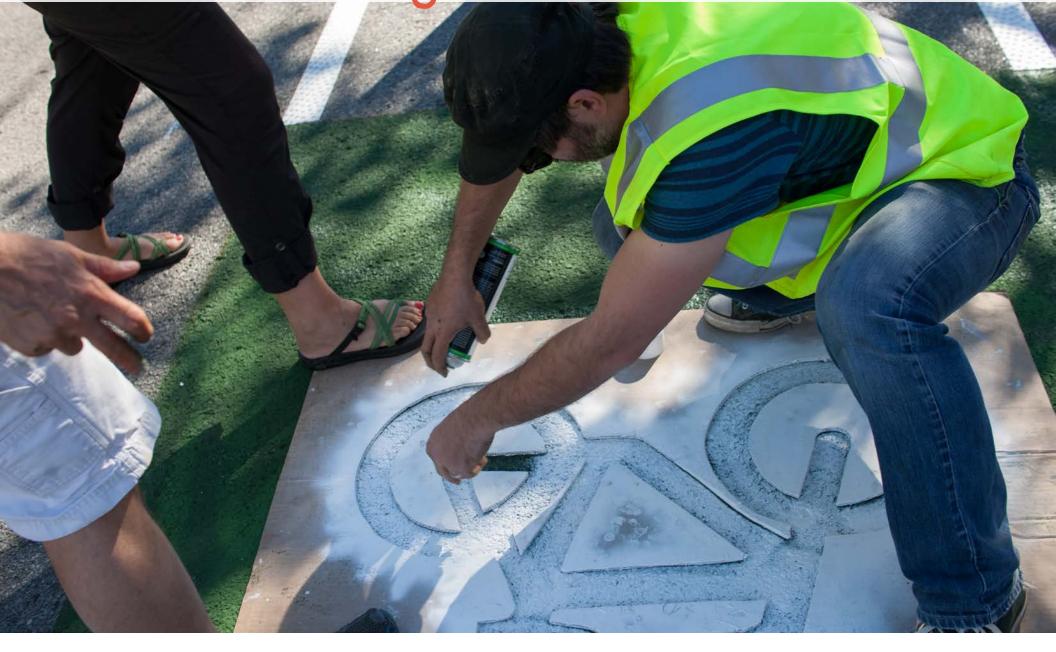
# Lay down tape and striping

- Use a striping machine for easy, straight lines.
- Depending on project duration, you may want to change the type of paint used. Some are more permanent than others.





# Pavement Marking Stencils





# Testing Materials + Types















# NWA's First Neighborhood Greenway



- ✓ Find a steward for any live plants
   these will need to be watered!
- ✓ Diverters are for low speed, low volume streets.





# Signs = wayfinding, educational, MUTCD



## There will be adjustments and follow-up...



Tim's Car!

# Most Important Rule: HAVE FUN!



# tony@streetplans.org

