LRRB Annual Update

Michael Marti, PE SRF Consulting



LRRB Key Facts





NEW PROJECTS EACH YEAR







100+ TAP CITY/
COUNTY MEMBERS



MN Rules 8820.3200 LOCAL ROAD RESEARCH BOARD.

Subpart 1. Appointment.

The commissioner shall appoint a local road research board consisting of the following members:

- A. four county highway engineers,
- B. two city engineers
- C. two Department of Transportation staff engineers
- D. one University of Minnesota representative; and
- E. one ex officio secretary, who must be the department's research coordination engineer.

Subpart 2. Terms.

Appointments of county highway and city engineers are for four years.



Who is the Local Road Research Board?



Lon Aune (Chair)Marshall County



Kristine ElwoodMnDOT State Aid



Brian GiesePope County



Duane Hill MnDOT D1



Katie Walker MnDOT R&I



Matt LeonardCity of Monticello



Kyle Shelton MnDOT R&I



Andrew Witter Sherburne County



Mark RayCity of Burnsville



Wayne SandbergWashington County

Who is the Research Implementation Committee?



Will Manchester (Chair) City of Minnetonka



Darrick Anderson Cass County



Brian Giese Pope County



Aaron Holmbeck Nobles County



Ryan Thilges Blue Earth County



Matt Wegwerth City of Grant Rapids



Ted Schoenecker MnDOT State Aid



Fausto Cabra MnDOT D1



Ben Worel MnDOT Road Research



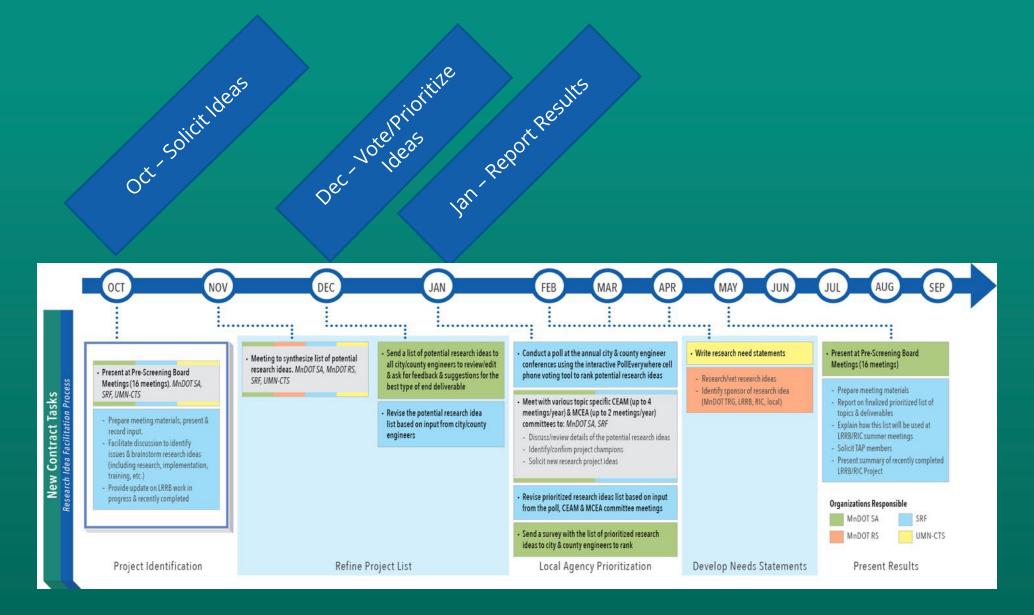
U of M CTS





国 Status of LRRB New Ideas

The Research Process

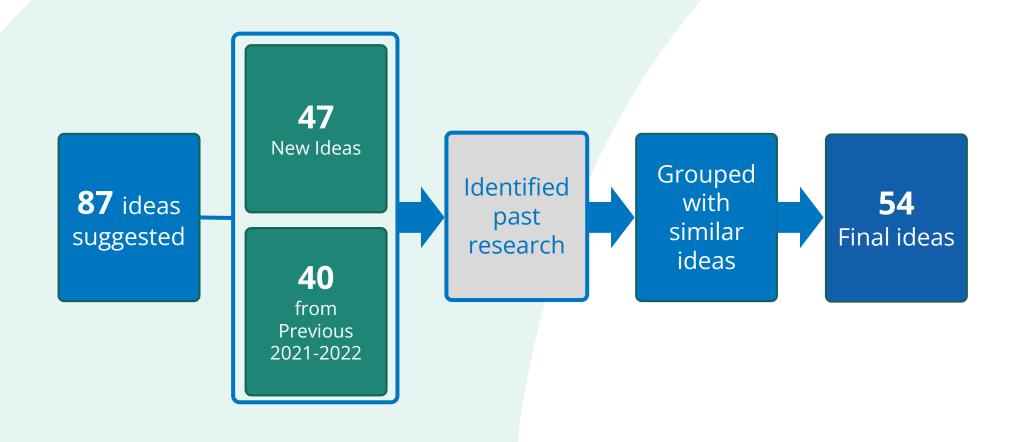


Brainstorming at Pre-Screening Board Meetings

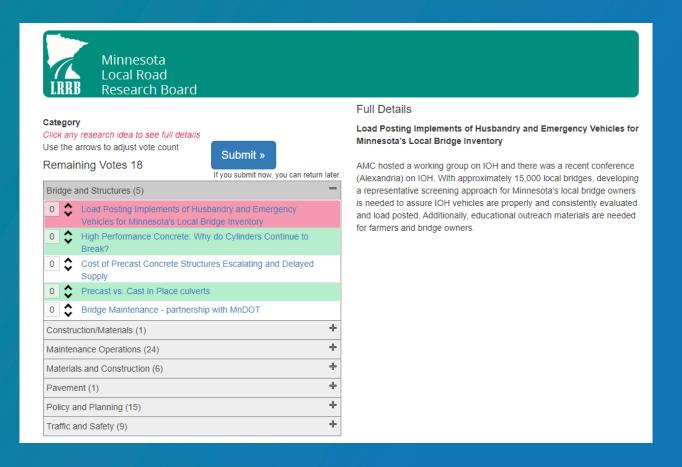
- 12 Meetings
- 10 Locations
- 150+ Participants

Mtg	Date	District	Attendees	Location
1	4-Oct	All	Maint	St. Cloud
2	5-Oct	8	County	Montevideo
3	9-Oct	М	County	Roseville
4	10-Oct	7/8	City	Redwood Falls
5	11-Oct	6	City	Rochester
6	16-Oct	3	County	Waite Park
7	16-Oct	М	City	Shoreview
8	17-Oct	3	City	Waite Park
9	17-Oct	М	Maint	Golden Valley
10	18-Oct	7	County	Kasota
11	18-Oct	1	City	Virtual
12	23-Oct	1	County	Carlton

Process to Reduce the Number of Ideas



Survey Sent to Cities and Counties



District	City	County	Total
1	2	8	10
2	0	7	7
3	4	8	12
4	3	10	13
М	26	11	37
6	7	9	16
7	3	8	11
8	1	7	8
Total	46	8	114

1st

Wayne Sandberg (Washington)

20th

Joe Meemken (Isanti)

24th

Justin Bergerson (Isanti)



2024 Winners



Voting Results

	멸	_	₹			
Rank	Total	City	Cnty	SA	CategoryName	ItemName
1	113	34	78	1	Maintenance & Operations	Patching and Crack Filling Best Practices
2	105	69	31	5	Traffic & Safety	Evaluation of Driver Speeds After Implementation of Speed Limit Reduction on Urban Streets
3	103	54	47	2	Traffic & Safety	Guidance for Installation of Pedestrain Crossings
4	97	63	33	1	Environmental	Innovative Solutions for Construction Stormwater Solutions for Linear Urban Projects
5	85	32	50	3	Policy & Planning	Understanding Vehicle Miles Traveled (VMT) Reduction Expectations for Cities and Counties
6	83	17	65	1	Environmental	Environmental Permitting Requirements & Best Practices
7	81	36	45	0	Administration	Best Practices for Developing Request for Proposals (RFPs)
8	71	14	56	1	Maintenance & Operations	Drone Guidelines for Maintenance Use
9	69	3	66	0	Maintenance & Operations	How to Gather Striping Data Through the Pathways Van?
10	69	14	55	0	Administration	Effective Purchasing of Public Works Materials, Vehicles and Equipment
11	68	9	58	1	Administration	Maintenace Worker Wage Study for Commercial Operators
12	66	35	30	1	Materials & Construction	Best Practices forTurf Establishment in Drought Years
13	65	43	19	3	Policy & Planning	Guidance for Reducing Urban Street Signage
14	63	23	37	3	Environmental	Feasability of Solar Street Lighting
15	61	34	26	1	Policy & Planning	Best Practices for Electric Vehicles Charging Stations and Public Fleet Conversion

Voting Results

Rank	Total	City	Cnty	SA	CategoryName	ItemName
16	60	2	57	1	Bridge & Structures	Load Posting Implements of Husbandry and Emergency Vehicles for Minnesota's Local Bridge Inventory
17	58	27	29	2	Traffic & Safety	Evaluation of Roundabout Crash Rates and Effectiveness
18	57	10	47	0	Maintenance & Operations	Best Practices to Prevent Seal Coat Damage from Underbody Plow Blades
19	47	7	40	0	Maintenance & Operations	Use of Social Media or Other Apps for 511 Communication on Local Roads
20	47	8	36	3	Maintenance & Operations	Guardrail Replacement and Maintenance Guidelines (Update 2010 Resource)
21	43	17	26	0	Traffic & Safety	Best Practices for Effective Completion of Crash Reports by Law Enforcement
22	43	34	8	1	Materials & Construction	Best Practices for Storm Water Pond Dredging Projects to Minimize Quantity Disputes
23	42	14	28	0	Maintenance & Operations	Best Practices to Deter Beavers and Other Animals from Obstructing Waterways
24	38	21	16	1	Traffic & Safety	Create Roundabout Driver Education for Local Agency Use
25	38	23	14	1	Materials & Construction	Best Practices Addressing Conflicts with Private Irrigation Systems in ROW
26	38	8	30	0	Materials & Construction	Design Guidance and Best Practices for the Use of Light Fill
27	38	3	35	0	Environmental	Benefits of Voluntary Conservation Agreements for ROW Management to Improve Habitat for Threatened or Protected Species
28	36	26	7	3	Policy & Planning	Agency Guidance for Addressing Artistic/Creative Pavement Painting on Public Roads
29	36	10	26	0	Maintenance & Operations	Winter Maintenance Solutions for Challenging Areas like Hills Curves and Shaded Areas
30	33	3	30	0	Traffic & Safety	Best Practices for Facility and Employee Safety





Research Need Statement

Date: 4/1/19

Need Statement Champion: Agency:					
Agency: Email:					
Phone:					
Idea Submitted by:	LRRB via Priority Process (3/19/19 Mtg)				
Idea Originated from:	2019 LRRB Idea Solicitation Process (Pre-Screen Board mtgs)				
Salari Barrara					
Select Program: ☐ MnDOT OR ☑ Local I	Pond Personeth Pened (LDDD)				
LIVINDOI OR M. Locali	Road Research Board (LRRB)				
☑ Research OR ☐ Impler	mentation				
Need Statement Title:					
Need Statement: Describe the	problem or the opportunity. Include background and objective.				
Provide a summary of the potential benefits:					
How does this project build upon previous research (include title or reference to a completed research effort)?					
Provide names to consider for a technical advisory panel:					

Please submit completed form to

10

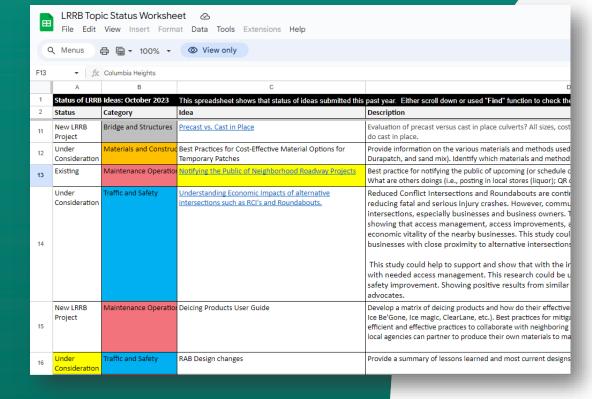
395 John Ireland Blvd., MS 330, St. Paul, MN 55155





Tracking Your Research Idea

 Added LRRB Idea Tracker which indicates the status of ideas previously suggested



New, Improved LRRB Website

- Redesign of the search function
- Works like a "Google" search
- Filters to narrow search results
- Available early 2024



Recruitment Videos

- Transportation career highlighting engineering, technician, and maintenance careers.
- Focused on young people (high school and middle school)
- 4, 1-minute video available in January





New Project Funding

- 2024 project will be announced soon
- <u>TAP members recruitment</u> will begin shortly
- VOLUNTEER!!!!!!!







Michael Marti, SRF Consulting mmarti@srfconsulting.com