



Challenge Topic: Late Season Paving

Each year contractors are faced with challenges when striving to complete their paving work in the late fall months when the days are shorted and the temperatures are cooler. Our current specifications have temperature limitations to ensure adequate bonding—to reduce the risk of slip failures, density, and joint density. This past season the temperature limitations were lowered, however, anticipated outcomes were not achieved.

To this end, MHI is having an innovation challenge using the online tool, the Innovation Pipeline (TIP) to seek possible solutions from ministry staff, consultants and contractors to allow for late season paving. This innovation challenge is aligned to the MHI's strategic goals of improved road conditions and improved safety supporting the vision – Transportation – Connecting Saskatchewan to the world.

Our end-goal is to allow for late season paving while still producing quality asphalt concrete and to ensure the safety of the travelling public is paramount.

All ideas submitted will help inform the solution that the MHI will adopt for late season paving, beginning as early as Fall 2020.



Challenge Phases and Timelines

| Phase Name | Phase Description | Activities | Timing |
|---------------------------------------|---|---|-------------------------------------|
| Idea Submission | Participants submit their ideas. Other participants can comment and star rate submitted ideas. A 5 star rating scale is used (ideas can be rated using 1 to 5 stars). Star rating is a way to show approval of idea. | Idea submission, comment and star rate ideas (star voting). | February 18 – March 02, 2020 |
| Idea Collaboration | Participants who have submitted ideas can refine or edit their ideas. Other participants continue to comment on submitted ideas. | Commenting and voting on ideas, refining ideas. | March 02 – March 09, 2020 |
| Pairwise Prioritization | Participants use the pairwise voting system to vote for the top 5 ideas. In pairwise voting, ideas are paired together, and participants have to vote on paired ideas until all pairs have been voted on. This voting system is based on an algorithm controlled by Spigit (the platform host). | Pairwise voting with entire audience to prioritize ideas. | March 09 – March 16, 2020 |
| Expert Review | Subject matter experts review and evaluate ideas using an expert review criteria selected by the Challenge Lead. Typically, 3 or 4 subject matter experts evaluate the top ideas from pairwise voting. Six (6) subject matter experts from within the MHI will review ideas. | Expert team performs assessments of top ideas. | March 16 – 23, 2020 |
| Final Idea Selection (offline) | This is a formal meeting with the Challenge Sponsor or Lead to decide which ideas will be implemented or further examined for implementation. This meeting occurs offline and takes two hours (max). The ideas chosen are called the “winning ideas”. | Challenge lead will review ideas and determine implementation next steps. | March 26 or 27, 2020. |
| Winner Announcement | The winning ideas of the challenge are announced via mass email, TIP and ministry intranet site. | Announcement of winners. | Monday April 06, 2020 |



POST
IDEAS



COLLABORATE
WITH OTHERS



VOTE &
REVIEW



IDEA
PROGRESSION



POST
IDEAS

What is a TIP Challenge?

The Innovation Pipeline is a community for Government of Saskatchewan Ministry of Highways and Infrastructure to foster the most innovative ideas to make us better at everything we do, through thought provoking challenges. A challenge is, for the lack of a better term, an idea contest. These challenges look to solve a problem, or generate creative methods for capitalizing on opportunities. Each challenge will have a sponsor who poses the question and challenges typically last only a few weeks. The community is invited to share their ideas and collaborate amongst each other to craft the best solutions during this limited-time engagement.

How do I post my idea?

First, select an open challenge, either on the "Activity Stream" page or by clicking on the "Challenge Library" link in the navigation bar. If the challenge is currently accepting new ideas, click "Post Idea" and complete the form to submit your idea. Once submitted, your idea will be listed among the other submissions on the "View Ideas" page, where others can read, comment, and vote on your idea.

How do I share my idea?

Since the progression of ideas is dictated by the votes and comments of others, it is important to champion your idea. Ask your colleagues for their feedback. You can do this right from the idea itself by clicking the "Share" link. Just enter the email address of the recipient, along with your message, and a link to that idea will be emailed to the recipient. Please note that you will only be able to share with other registered members of TIP, so please contact mhi.innovations@gov.sk.ca if anyone needs access.

How do I control email?

You can check on the number and type of automatic notifications you have set for yourself in the *Notification Preferences* section of the [My Profile](#) page. It's here where you can customize what emails are sent to you. You can choose to have email sent to you Instantly, Daily, Weekly, or Never.

How do I post comments?

Upon selecting an idea from the list on the "View Ideas" page, you will see a comment section at the bottom of the page. Add to the discussion by commenting on individual ideas or replying to comments already made by others. The goal of commenting is to help improve the idea, but please be candid, courteous and respectful in your comments.

How do I Follow an Idea?

You can "Follow" or "Subscribe" to ideas that you wish to actively follow, and you will receive notifications when any new content is posted to that idea. To follow an idea, click the "Follow" link on the Idea page. You can also subscribe when posting a comment to the Idea. You can see and manage the ideas to which you have subscribed on the *Following* tab of the [My Profile](#) page.



COLLABORATE
WITH OTHERS



How do I sort through the ideas?

Ideas with the most recent activity will appear at the top of the list and this view can be customized to your preferences using the options in the drop-down menu. You can also search by keywords, or click the "Advanced" tab to create a more detailed search.

How do I vote?

Rate ideas from 1 to 5 stars, or give a Thumbs-Up to comments you feel have the most potential, but don't be afraid to give a Thumbs-Down to any comments that you feel are lacking in quality or feasibility. You can vote on any idea from the list on the View Ideas page, or from the idea itself. You can change your vote as the idea owner refines their idea through collaboration with other users.

What is Pairwise?

Ideas square-off against each other in a final round of voting. You will be presented with a pair of ideas and asked which idea you like better. Vote on as many combinations as you would like to help determine which idea should be our top priority.

What is an Expert Review?

Ideas that receive the most positive feedback from the community will be promoted to our panel of experts for a more thorough review. The experts will rate the idea against pre-defined criteria that helps us assess the merit of the idea.

Who are the Experts?

An expert is someone with subject matter expertise and experience in a specific function (such as engineering or construction) that is related to the challenge topic. Experts provide insight on ideas, and they are tasked with reviewing ideas that graduate to the Expert Review stage to determine their potential. Members from the ministry's Roadways Technical Committee will be used to serve as subject matters. This committee is a subcommittee of a tripartite committee which consist of ministry employees, SHCA and ACEC-SK members.

How do ideas progress?

Ideas submitted to challenges go through the following stages as they move toward consideration for implementation:

- **Ideation:** Ideas must reach pre-determined criteria of a certain number of qualified page views to graduate to stage 2. Criteria has been set at 2 page views.
- **Collaboration:** Ideas must reach pre-determined criteria of a certain number of qualified page views, votes, comments, and have a minimum approval rating of to graduate to stage 3. The criteria is based on votes, likes and rating of the idea (using a 5 star rating scale).
- **Pairwise:** Ideas square-off against each other in a final round of voting. You will be presented with a pair of ideas and asked which idea you like better. Pairwise voting helps to prioritize the top ideas.
- **Expert Review:** A panel of subject matter experts evaluate ideas against the challenge criteria. All ideas must receive a minimum review rating out of 3.5 of 5 from the subject matter expert panel in order to graduate to the next stage.
- **Selection:** a formal in person meeting will be held to determine winners.

How are winning ideas selected?

Based on input from the community and experts, the winning ideas will be targeted for in-depth vetting by the challenge sponsor. Rewards and recognition will be issued to the submitters of the winning idea(s).



MINISTRY OF HIGHWAYS AND INFRASTRUCTURE

The Innovation Pipeline (TIP) Manual

HOW TO USE TIP

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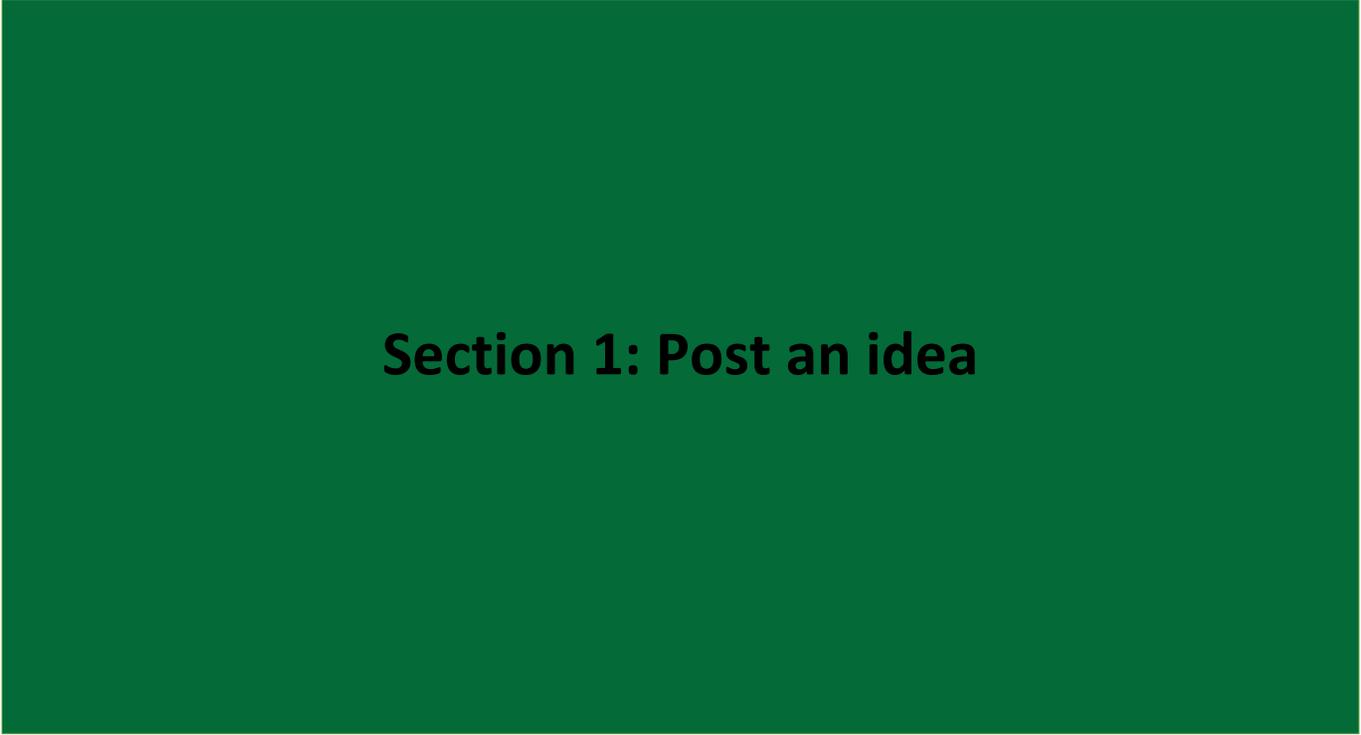
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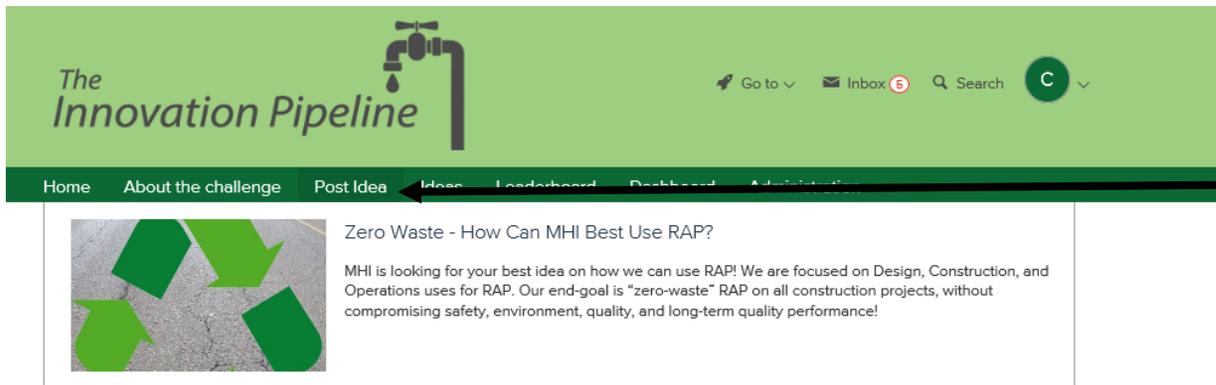
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Section 1: Post an idea

Post an idea



Click on Post idea tab to post an idea

Post Your Idea

Title

Give idea a Title – short, concise!

Idea Image

Stock Gallery Custom Image

Navigation arrows: left, right

Select idea image from stock gallery or upload a custom image

1. What is ONE way that MHI can use RAP in Design/Construction or Maintenance/Operations?

* ⓘ

Rich text editor toolbar: Undo, Redo, Bold, Italic, Bulleted List, Numbered List, Indent, Outdent, Link, Unlink, Image, Table

Text input area

Publish an idea

Words: 0, Characters: 0

6. What would be the estimated time needed to implement the solution? * ⓘ

- Less than 1 year
- 1 to 2 years
- 3 to 5 years
- over 5 years
- 5 to 10 years

7. Which groups would be involved in the implementation of the solution? (internal and external)?

- Design branch
- Construction branch
- Operations
- SHCA
- ACEC-SK
- Other

If other, please identify group ⓘ

Words: 0, Characters: 0

Tags ⓘ

* Required

Click on
publish to
post idea on
TIP

Saving a draft idea

Words: 0, Characters: 0

6. What would be the estimated time needed to implement the solution? * [?](#)

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- Design branch
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- SHCA
- ACEC-SK
- Other

If other, please identify group [?](#)

← ↶ **B** *I*

Words: 0, Characters: 0

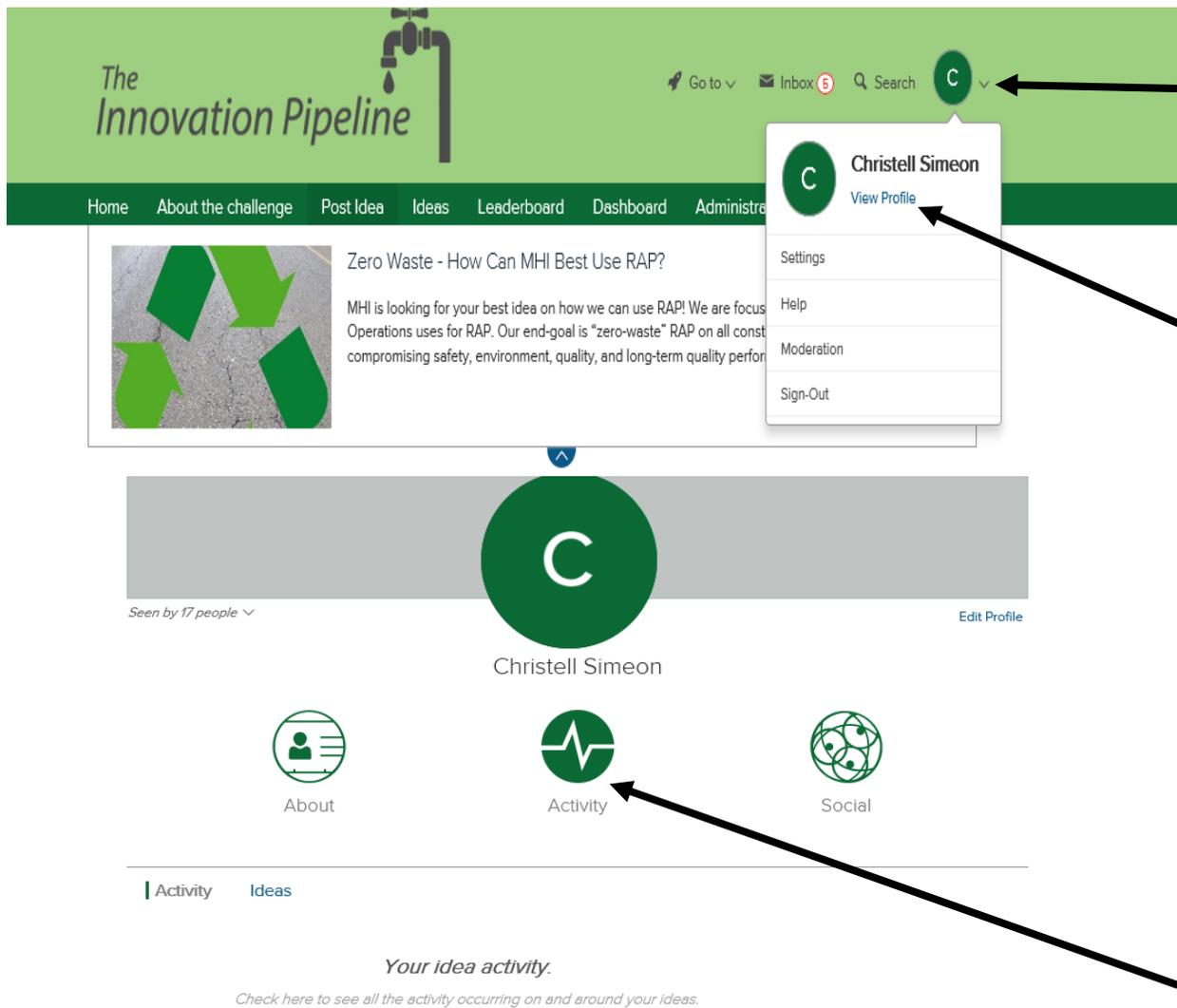
Tags [?](#)

* Required

Publish **Save Draft** **Cancel** QuickSave Enabled [?](#)

If not ready to post, click on save draft

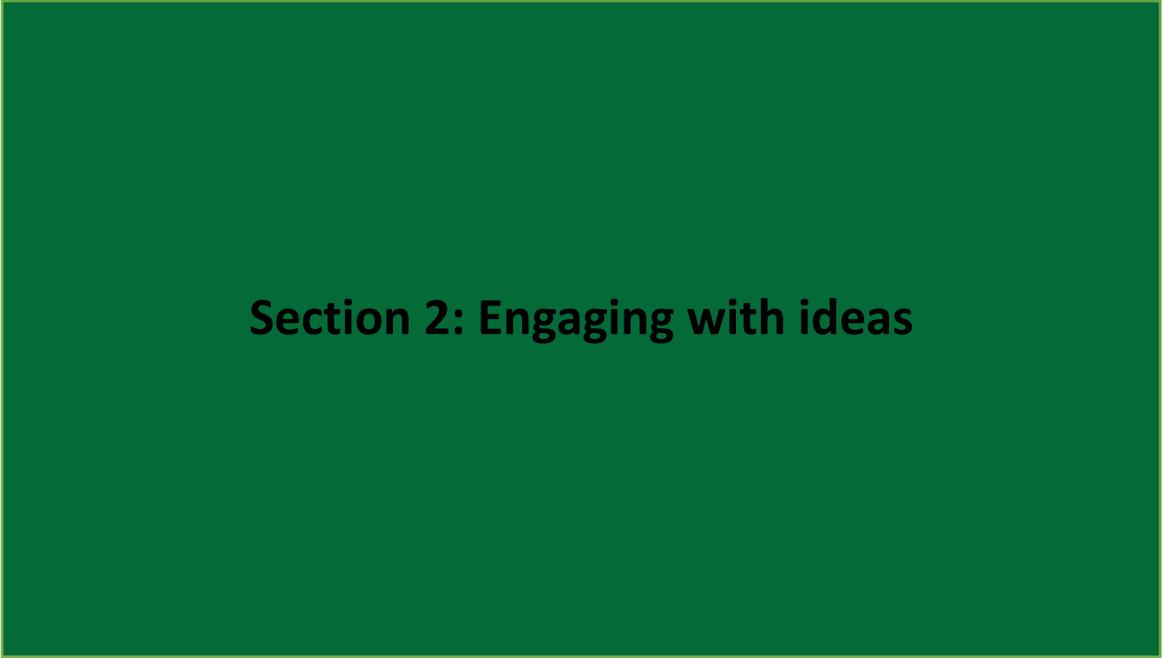
Viewing the draft idea



Click on down arrow.

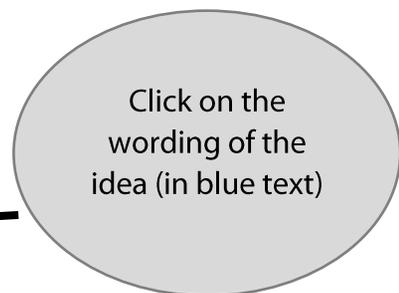
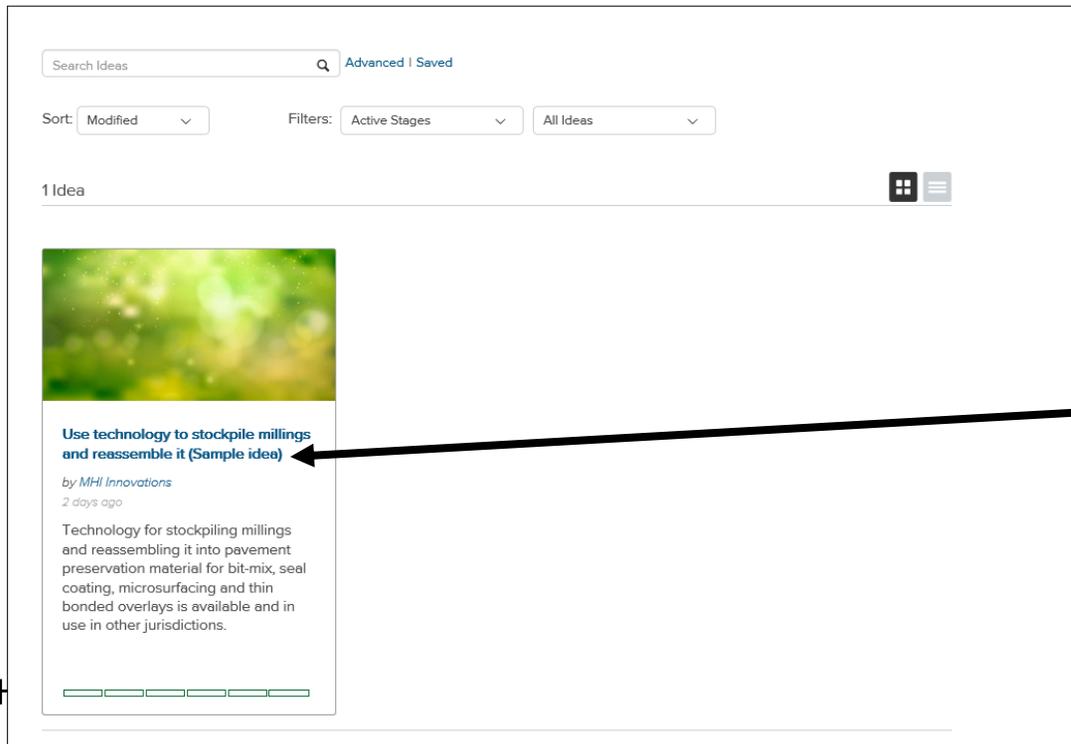
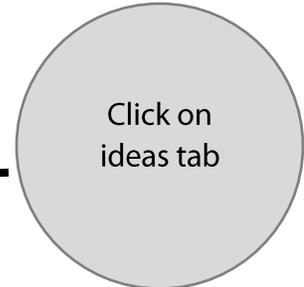
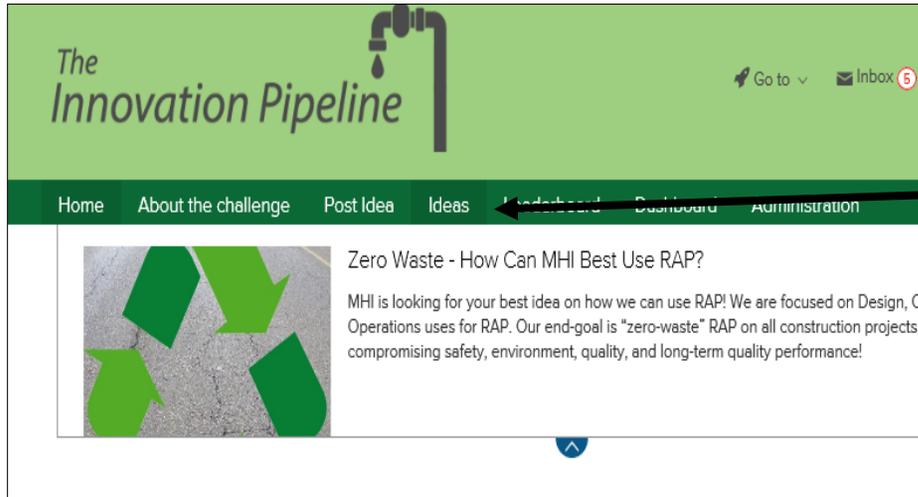
Click on view profile

Click activity to see draft idea



Section 2: Engaging with ideas

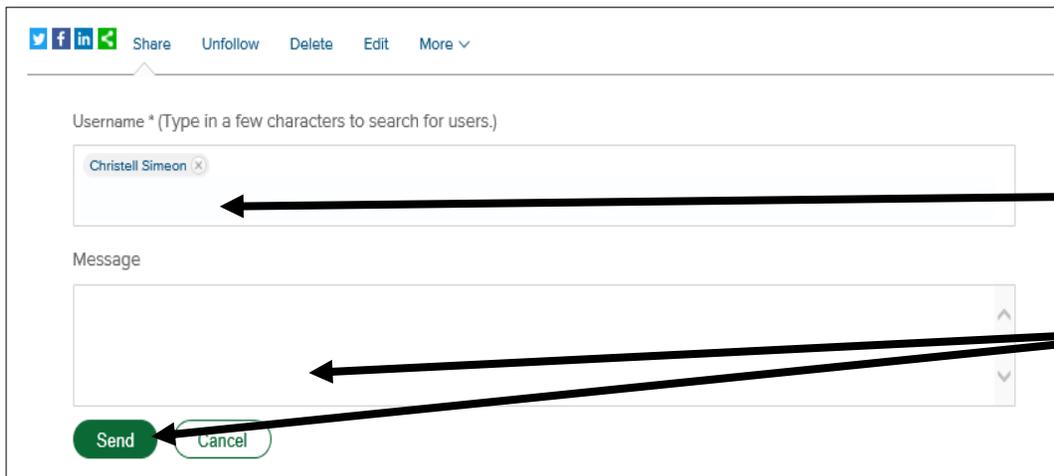
View Ideas



Share Ideas



Click on Share to share the idea with another participant in challenge



Type in participant name, type in message, click send.

Join Project Team and Make Project Teams

1. What is ONE way that MHI can use RAP in Design/Construction or Maintenance/Operations?

Technology for stockpiling millings and reassembling it into pavement preservation material for bit-mix, seal coating, microsurfacing and thin bonded overlays is available and in use in other jurisdictions.

2. How much RAP would be used on a typical project? Provide an estimate of how much RAP will be used with your idea.

Reuse up to 100% of existing materials, often in-place, preserving valuable non-renewable resources.

3. Would your idea be well-received by ministry stakeholders such as contractors and consultants?

Unsure

4. From the Ministry's perspective and stakeholder's perspective, what are the potential benefits to be gained by implementing the proposed solution?

Improved Safety, Improved Efficiency, Cost Savings, Improved Service to the Public, Improved Quality, Environmental Impact, Improved Sustainability

5. Are there any drawbacks to your idea? (Consider feasibility, cost, performance, etc.)

Cost

6. What would be the estimated time needed to implement the solution?

Less than 1 year

7. Which groups would be involved in the implementation of the solution? (internal and external)?

Design branch, Construction branch, Operations, Other

If other, please identify group

We have contacts and access to technology transfer through our membership with the midWest Pavement Preservation Partnership (MPPPP). Funding maybe available to bring in training and education for Ministry and our industry partners. We may also be able to partner with MB and ON (other Canadian Provinces in the MPPP group).

Team Members 0

[Invite Members](#)

[Become a Team Member](#)

If you are interested in an idea, ask to become a team member

If you are the idea submitter, invite another participant to form a project team

Comment on ideas

5. Are there any drawbacks to your idea? (Consider feasibility, cost, performance, etc.)
Cost

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Less than 1 year

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Team Members

[Invite Members](#)
[Become a Team Member](#)

Comments | [Tasks](#) | [Statistics](#) | [Comparable Ideas](#) | [Activities](#)

Help to Improve This Idea.

← This is a good idea!

Words: 5, Characters: 20

Click on comments

Type in the box.
Click on submit when done.

Star Rate the Idea



Preliminary Cadastral Fabric
by Nicole Anderson 09/17/2019 12:14 PM CDT

Prev | Next

Attachments [Share](#) [Follow](#) [Delete](#) [Edit](#) [More](#) ⌵

Be the first to rate it



Seen by 4 people ⌵

Star rate idea using the star scale. Click on the number of stars you wish to rate idea.

Brief description of the project:

At the beginning of a project where land is anticipated to be required have the preliminary cadastral fabric completed by a Saskatchewan Legal Surveyor (SLS) to ensure the integrity of the fabric.

What is the core issue of the submission?

By not getting the initial fabric surveyed, it may cause land acquisition concerns with landowners (loss of trust on changing areas throughout negotiation) acquisition delays (*roughly month or more*) and increased work for contractors (multiple re-works of survey information).

Is it currently in use?

No