Pipeline Research Council International



Research Steering Committee

Survey on implementation of PRCI research deliverables

Presented by RSC Members

Fall committee meetings
October 2026

PRCI™

LEADING PIPELINE RESEARCH

Goal

The RSC wants to better understand

a) How PRCI research is being implemented?
b) How we can improve the process of ‘using’ our research?
c) How can we effectively measure success?

The implementation survey was the first step…

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Survey Participation

- 59 responses to the survey.
- Assuming 300 individual members = 20% participation.
- Responses from 29 companies (multiple responses from individuals in the same company).
- 70 member companies = 41% company participation.

- Three thoughts…
  a) Surveys may not be the best approach to solicit feedback when we are busy.
  b) We have a strong working membership that ‘drives’, and a significant passenger membership that ‘observes’.
  c) It may be difficult to understand and measure how we implement our research.

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Survey Structure

- Section 1 - Respondent information.
- Section 2 - Implementation in your organization (barriers to implementation, examples of implementation, in what areas is it mostly implemented, what would help with implementation).
- Section 3 – Contribution to codes, standards and industry guidance.
- Section 4 – Free type (what research has had significant impact, how can PRCI help organizations ingest the work it does).

- We used ‘on a scale of 1-3’ format for ease and to give data for analysis

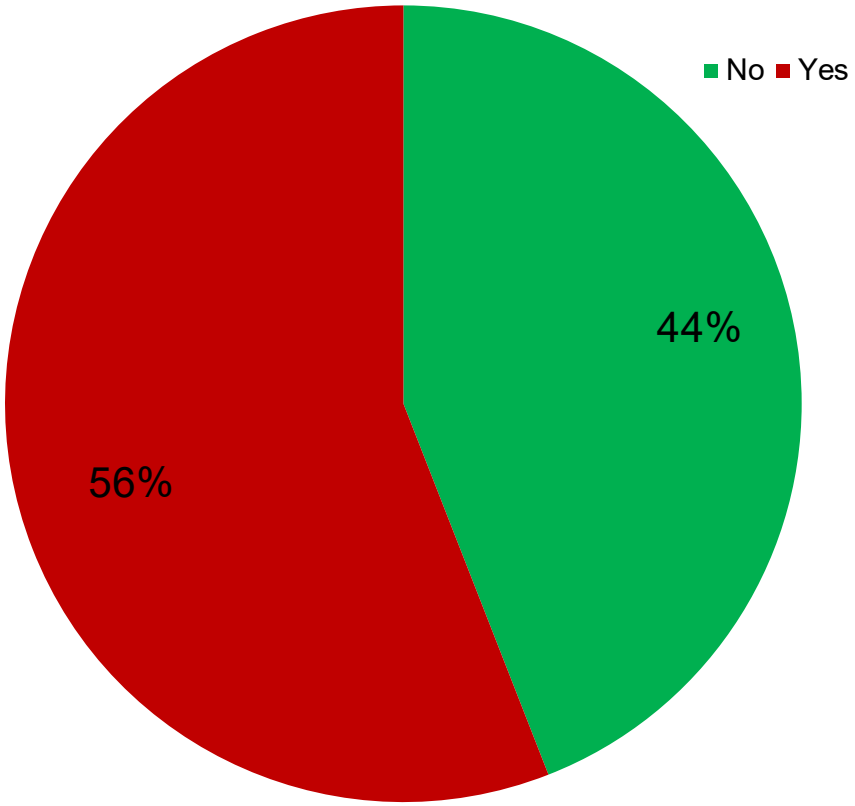
5. On a scale of 1-3 [1 is of limited help, 2 is moderate, 3 is helpful], what would help your organization implement research outcomes? (Answer all)

Clear implementation guidance in the reports	
Case studies and worked examples	
Research findings being implemented in standards and codes	
Specific implementation workshop or presentation	
Tools and software	
Other (specify)	

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Do we have a problem with implementing research ?

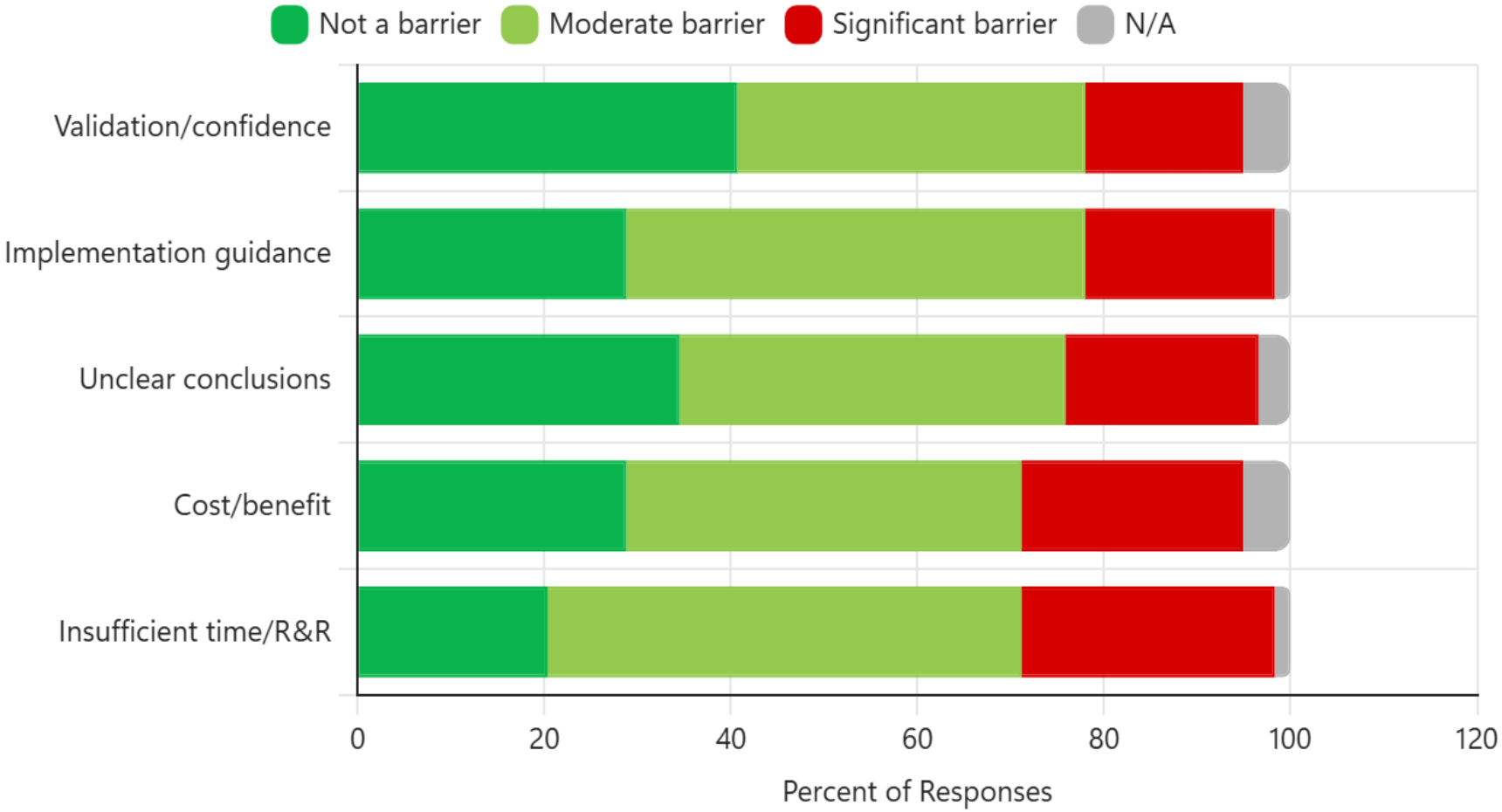
- The staring hypothesis is that it's sometimes difficult to implement our research. We asked, "Do you think there are barriers to implementing the results of PRCI deliverables?"



Takeaway – yes, there are barriers

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What are the barriers

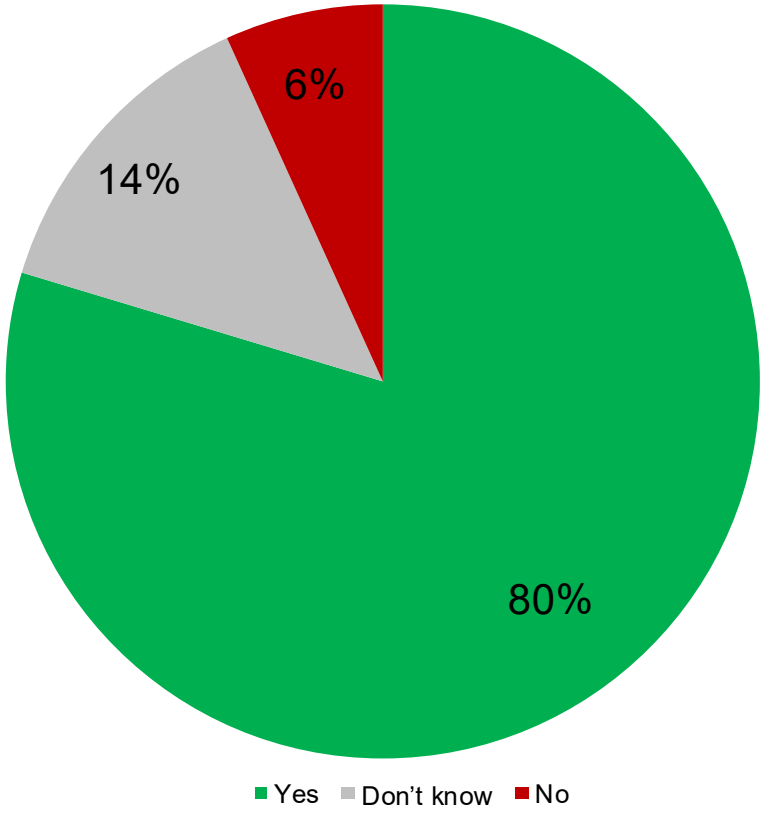


Takeaway – Our perceived barriers resonated with the respondents. They all play a part.

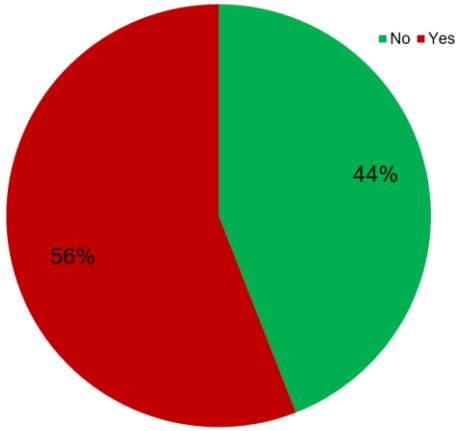
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Is our research being utilized ?

- We then asked, “has your organization implemented any PRCI-supported research findings in the past 3 years”?



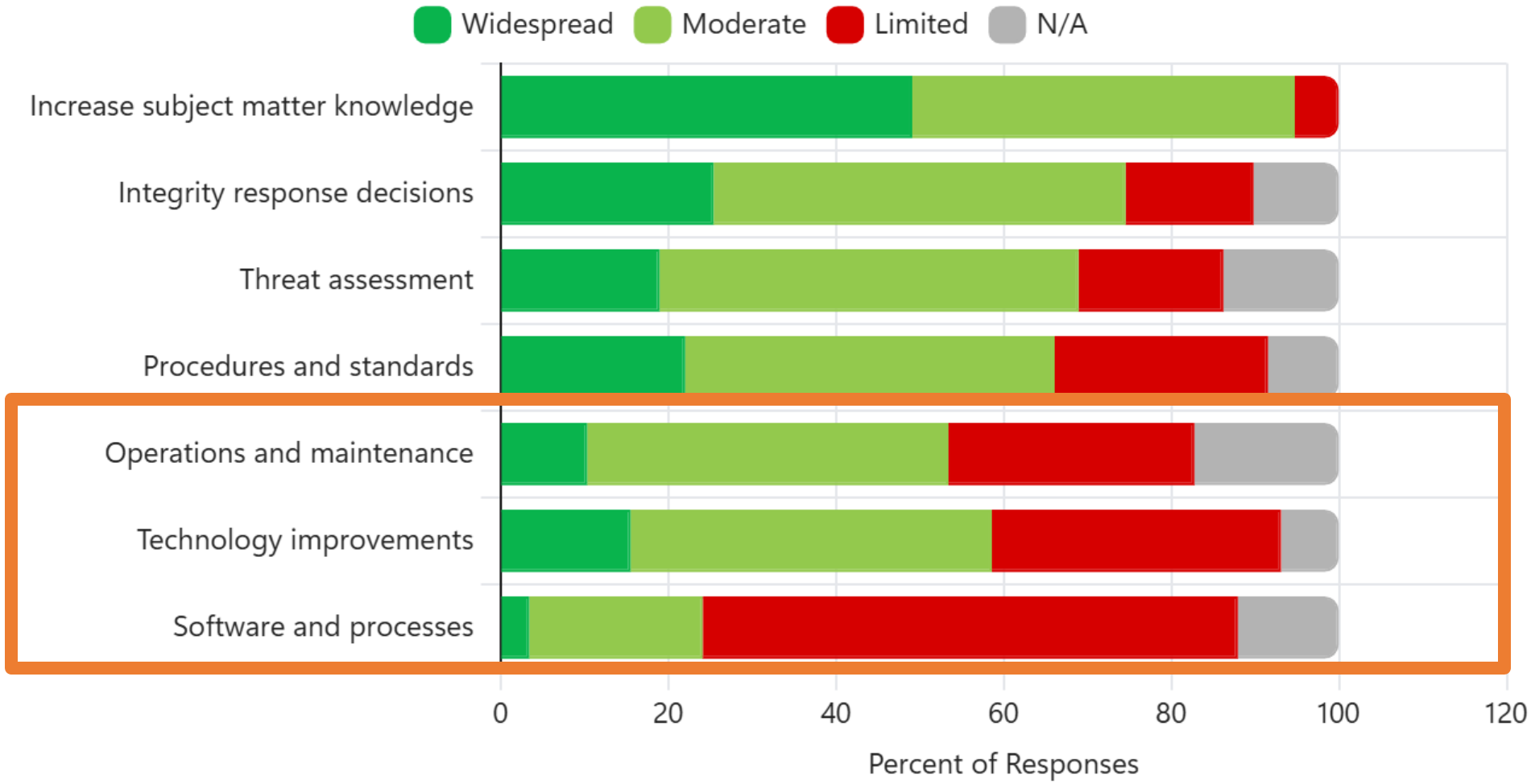
- “Do you think there are barriers to implementing the results of PRCI deliverables?”



Takeaway – Despite having barriers we have implemented research effectively - so we have something to build on to increase implementation

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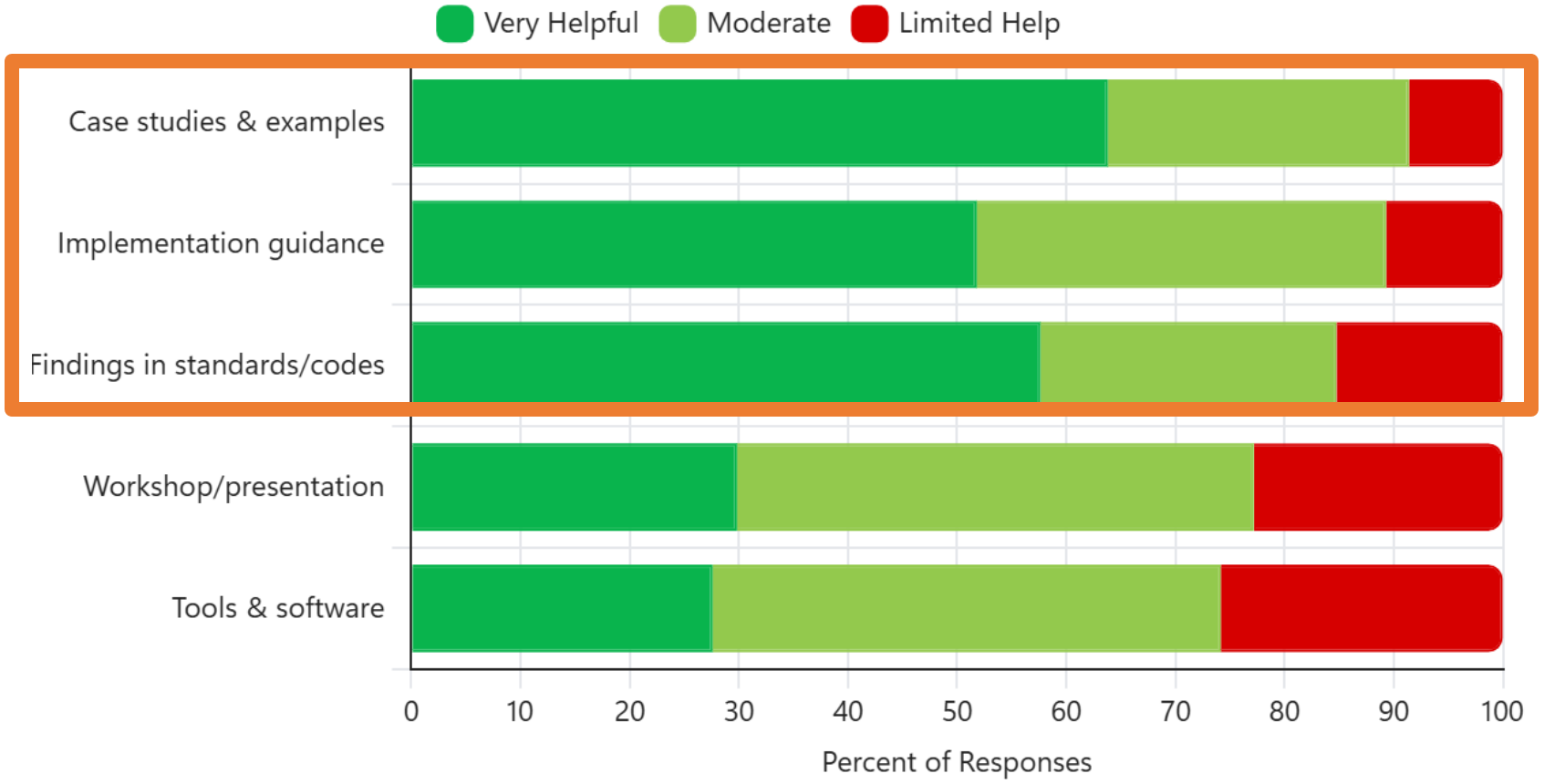
Where is it being utilized most?



Takeaway – Primary use is increasing knowledge and helping make decisions. Less use in operations, driving technology, software and processes

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What improvements can we make?



Takeaway – Cases studies, worked examples, implementation guides, and incorporation into standards are key – i.e., show and tell.

Maybe software isn't as important as we think it is?

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Free type feedback

Q. How can PRCI further help your organization ingest the research outcomes?

Executive Summary

Member feedback indicates that PRCI should remain focused on improving the translation of research into practical industry implementation. The most common recommendation was to produce more actionable deliverables, including recommended guidelines, procedures, equations, software tools, acceptance criteria, and step-by-step implementation guidance that can be directly incorporated into company practices.

A major opportunity exists to improve how research results are shared and adopted. Members want more operator case studies, implementation success stories, and peer examples that clearly show the value created by applying PRCI research. Quantifying safety, operational, and cost-saving benefits was identified as critical for supporting internal business cases and overcoming organizational barriers.

Implementation barriers are generally not technical in nature. Instead, they are driven by internal factors such as Management of Change requirements, software approvals, resource limitations, and cost-benefit assessments. To help address these barriers, members recommended dedicated implementation support, validation guidance, and simplified pathways for integrating research into company procedures.

Members also expressed support for expanding webinars, training, and knowledge-sharing activities while improving their visibility and focus on practical implementation. Enhancing digital access to PRCI research, including AI-enabled search capabilities and improved database access, was viewed as a significant opportunity.

Finally, respondents emphasized the importance of selecting projects with clear operator value, measurable outcomes, and direct applicability to industry challenges. Increased executive engagement, broader member participation, and stronger representation from sectors such as offshore operations, storage, and production facilities were also identified as important factors in maximizing the impact of PRCI research.

List of comments received

1. Focus $ and manpower on research. Do not stray from this course.
2. Step 10 captures the main ways implementation can be helped
3. Sharing examples from other operators that have leveraged PRCI research to improve Company processes is helpful.
4. Turn technical reports and findings into "Recommended Guidelines" for industry partners.
5. The most easily-implementable projects are the ones that have clear guidance: equation, software, procedure, criteria, action thresholds, etc.
6. I think there is a key growth opportunity with how results are shared and connection to scoring and the ILI vendor calls. In the SSWC project, this was a clear gap. The report includes a table showing how each participating vendor had differing report calls. When this was distilled into total performance results across the same set of feature calls, it proved to be somewhat confusing for operator and vendor understanding of results.
7. Have a specific PRCI employee who is directly responsible for working with member companies on increasing adoption of PRCI research.
8. For the Subsea Committee in specific we are being to identify research opportunities for our offshore assets
9. Continuing with webinars and training opportunities. I've found them to be valuable and informative over the years.
10. Convince management to invest time and money into sending representatives to the PRCI conferences
11. Develop the ability for company AI or IT to access the PRCI database, essentially PeRCI access for members so that when we have access to the PRCI catalogue with our day to day work.
12. If there was more specific and step by step instructions on how to simplify the research into a company procedures or processes, I would expect more research to get adopted more readily. But given how our workforce is structured, we don't have a lot of free time to take on the research results and implement them effectively.
13. An easy one is to suggest and highly encourage the TC members to go home and proactively set up a one hour meeting of sharing findings with managers, project managers, and team leaders.
14. The webinars are placed our there, and not well advertised. And no direct guidance on how this could be implemented at organizations.
15. Have cost effective solutions to existing challenges in pipeline materials, material property verification, and welding. Better software availability or access with limited or minimal fees.
16. Challenges to implementation are largely internal, resource challenges associated with understanding research aren't a significant barrier. The largest challenge is internal (company specific) cost benefit analyses/impact assessments prior to making significant programmatic adjustments.
17. Our barriers are largely internal: Bringing new software into the organization, Management of Change of internal practices.
18. implement the suggestions above.
19. Some vendors make a business in concluding "more research is needed" to get the next project. Project must answer questions
20. Extend the research to O&G production
21. Sharing of implementation by other operators and value it created would be helpful. e.g. there was resistance internally to applying hot tapping on ethylene lines research but another operator shared success stories and it gained more interest internally as a result
22. If the research outcomes are incorporated into 49 CFR Part 192, they can be adopted directly into company procedures. However, if the research has not been incorporated into the regulations, companies should establish a validation program to evaluate how the findings apply to their specific assets and operating conditions. This enables the organization to assess the potential safety, integrity, and economic impacts before implementation.
23. Demonstrate the research or technology at one of our facilities with tangible results.
24. Continue the great work and forum for collaboration.
25. Mandatory quantitative analysis of project cost-saving benefits. Less SRPs so that we can use our funds to fit our needs more appropriately given very tight R&D budget going forward.
26. That is a good question. Maybe a top down approach? Have PRCI "sell" to our senior leaders that more participation is needed / wanted at PRCI and essentially force the companies to spend more resources to support?
27. Not sure. It is difficult being a member in Australia to be involved in the research in my area of interest to an extent that the research is relevant
28. Provide a summary report at the end of the year list the research outcomes, the applicability to each organization (verified by member representatives, estimated benefits and roadblocks with a clear plan to address i.e. regulation changes). The implementation plan should be summarized in a central location and presented to the EA at the beginning of each year to identify opportunities to improve and what is needed to implement.
29. As a storage operator, I would say, more storage operator representatives in all TCs (like I&I, MEAS etc.) would help to push topics and projects valuable for solving gaps, improving practices, technologies and methodologies specific to wet gas, H2s impurity in natural gas (or H2) such as specific issues for metering, analysis, corrosion, inspections etc. Sometimes we feel a bit alone.
30. I do think that the recorded webinars are helpful and most of the examples listed above are also helpful. The biggest way that we can improve, in my opinion, is by making sure we pick projects with useful outcomes. There is a push out there by the research organizations / contractors to spend money on certain subjects that don't necessarily return much value, and we need to be careful about advancing those just so they don't turn into a sales pitch. That said, I think there is something interesting to be learned from most projects, just maybe not a tangible, implementable practice every time.
31. It is important to note that some of the research is aimed at helping smaller organizations improve knowledge and outcomes and in many cases, TCenergy already has equivalent or better processes or procedures.
32. When the projects are out for funding, more focus needs to be on "how do operators use this research directly?" to help understand the intent of funding. Internally, we often fund by "how fast will this research impact our IMP" is this of internal value or external value.
33. Enhance member involvement in PRCI programs by creating more opportunities for remote participants to contribute to technical committee work, research project development, voting activities, and knowledge-sharing sessions.

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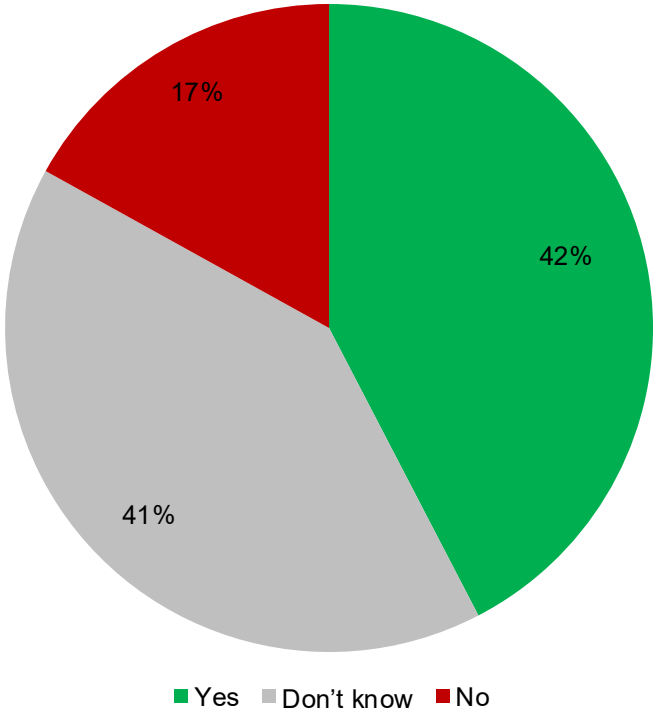
Theme analysis

Rank	Theme	Frequency	Representative Comments
1	Clear Implementation Guidance Needed	Very High	"step-by-step instructions", "implementation playbooks", "recommended guidelines", "clear guidance"
2	More Case Studies / Success Stories	High	Requests for examples of how operators successfully implemented PRCI research
3	Workshops, Webinars & Training	High	More implementation-focused webinars, training sessions, and presentations
4	Software, Tools & Calculators	High	Spreadsheet tools, calculators, software deliverables, validation tools
5	Standards & Regulatory Integration	High	API, ASME, CSA, AMPP/NACE adoption seen as key enabler
6	Resource Constraints	High	Lack of time, personnel, and internal bandwidth to implement findings
7	Validation / Confidence in Results	Moderate-High	Need stronger proof, field validation, and qualification pathways
8	Demonstrate Business Value / ROI	Moderate	Cost savings, quantified benefits, implementation economics
9	Share Results More Effectively	Moderate	Better communication, visibility, knowledge management
10	Increase Member Participation	Moderate	More engagement opportunities, especially remote participation

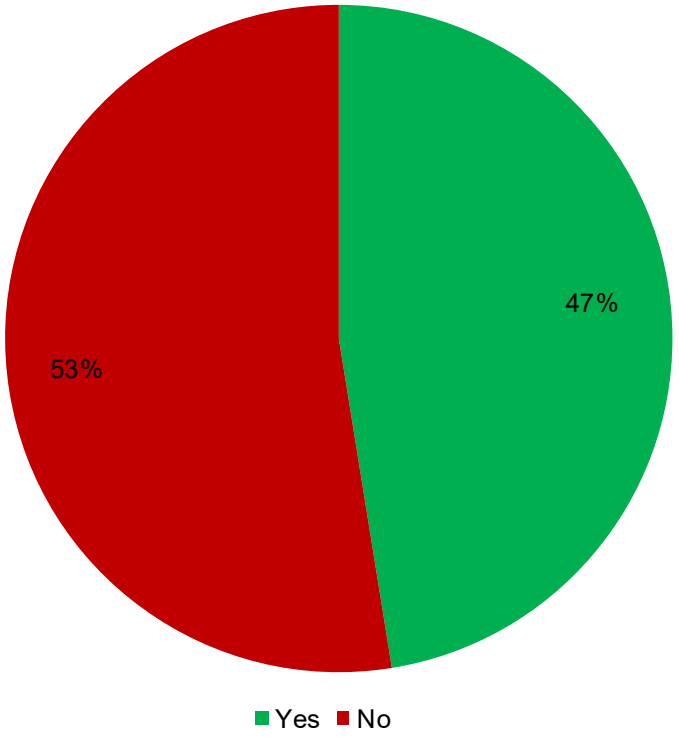
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Are we effective at driving codes/standard/RP?

Are you aware of instances where PRCI deliverables have been incorporated into standards codes and industry guidance



Are you part of other industry committees such as API, ASME etc.?



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Which codes/standards/RP has PRCI research been incorporated into?

- **ASME B31 family (B31.4, B31.8, B31.8S, B31.12, B31G)**
- **API standards (1104, 1163, 1176, 1183, 1192, 579, various RPs)**
- CSA Z662
- AMPP / NACE standards (SP0169, SP0207, CP training)
- PHMSA / US Regulations
- HDD specifications and repair manuals

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Voice of the participants

"Make it easier to use“, respondents repeatedly requested:

- Playbooks
- Checklists
- Procedures
- Workflow diagrams
- Templates

"Give us tools“, the most praised projects often included:

- Spreadsheets
- Software
- Calculators
- Validation methodologies

"Show me who already succeeded“, Respondents want:

- Operator success stories
- Implementation examples
- Lessons learned
- Estimated benefits

"Connect research to standards"

- Respondents see standards adoption as one of the most powerful pathways for broad industry implementation.

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Exec. summary

The survey suggests that technical quality is not the primary adoption challenge. The dominant challenge is implementation.

PRCI's greatest opportunity is to strengthen the pathway from research output → operational implementation through guidance, tools, training, and standards integration.

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Where do we go from here?

Development of an Implementation Tracker

- Map timing of final reports to each project
- Indicate whether a project requires further research or is ready for implementation
- List the Industry Standards where the results can be integrated for adoption
- Assign communication accountability to key ASME, API, CSA representatives
- Report out on successful adoption



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