

# Problem-Solving Toolkit

INCREASING PRACTICAL APPLICATION  
AT FRONTLINE LEVELS

Missouri Leadership Academy Capstone Team E – Spring 2021



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# Essential skills for the workplace

## Problem solving and critical thinking skills

help us use knowledge, facts, and data to effectively solve problems and make informed decisions

But...according to a 2016 survey of over 60,000 managers,

**60%**

say that critical thinking/problem solving is the most commonly lacking soft skill in new hires

Source: 2016 Workforce-Skills Preparedness Report, PayScale.com

# Understanding the skills

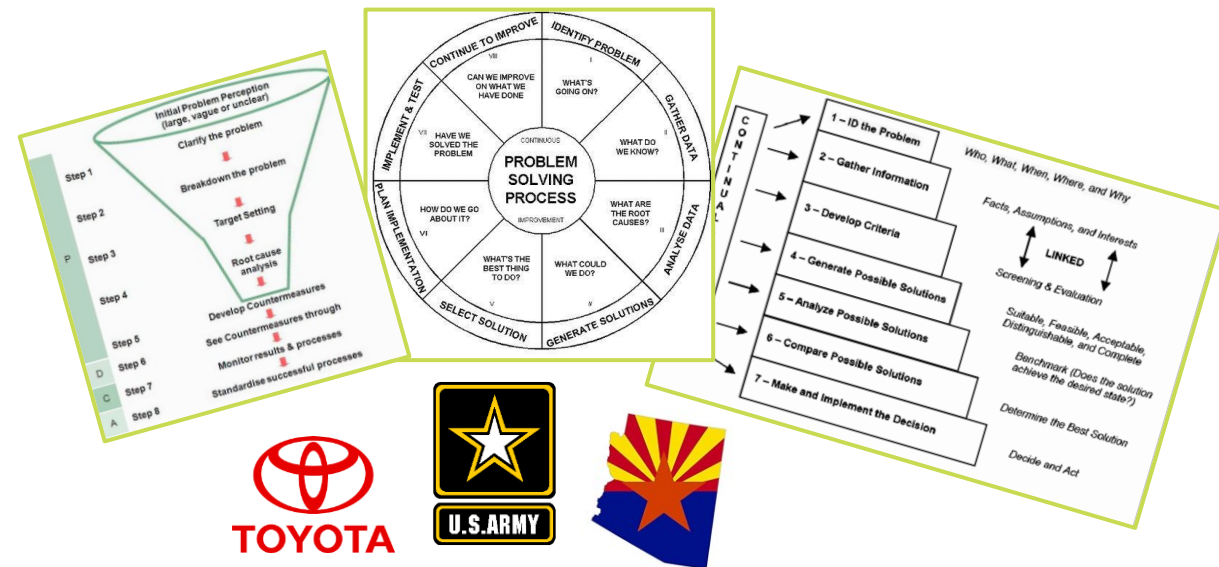
## CRITICAL THINKING

A **way of thinking** that is intentional and reflective



## PROBLEM SOLVING

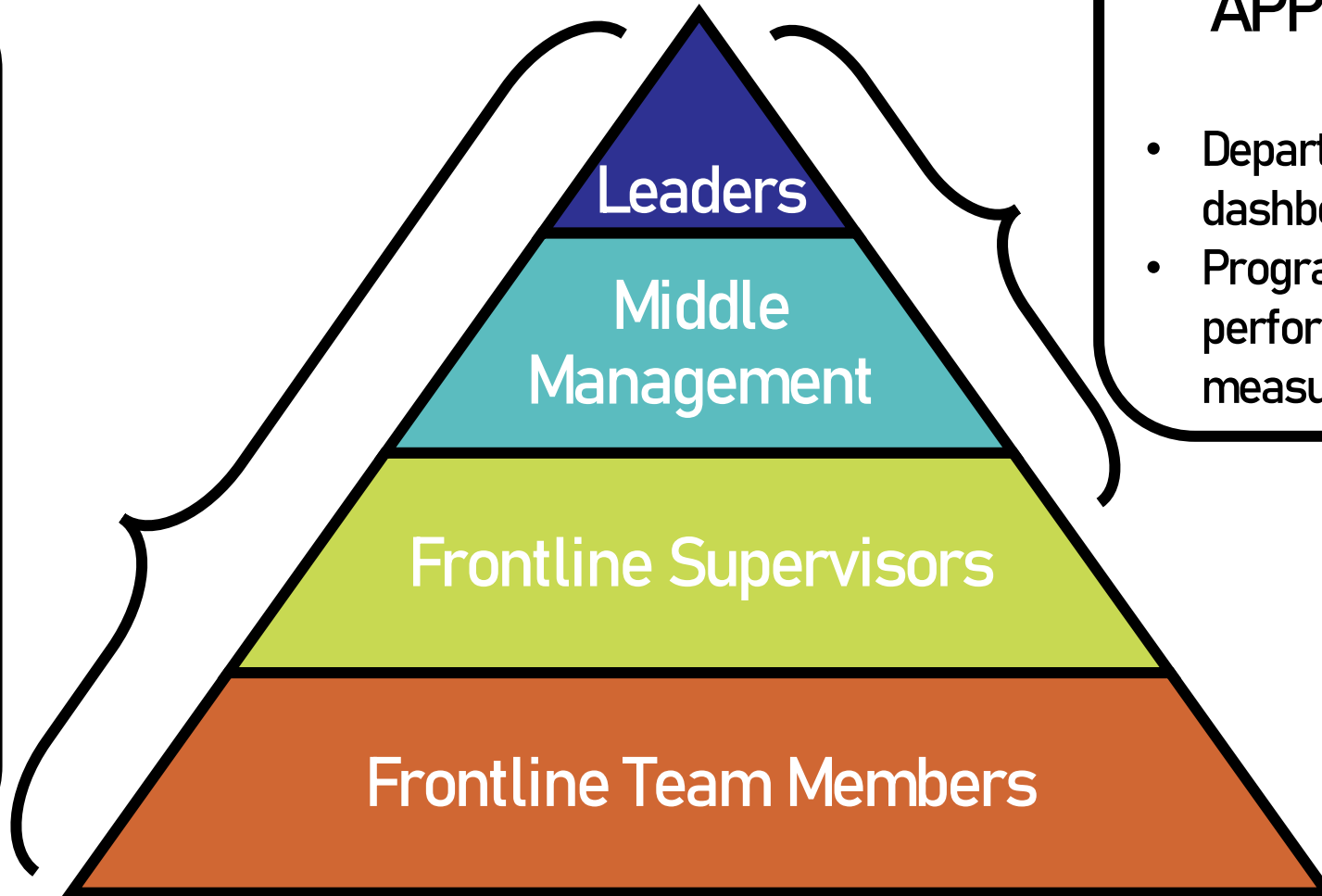
a **structured process** of finding solutions to problems



# Missouri's success

## CONSISTENT SKILL DEVELOPMENT

- MoLearning
- Missouri Way
- Leadership Academy
- White- and yellow-belt trainings
- Performance measures and dashboards training

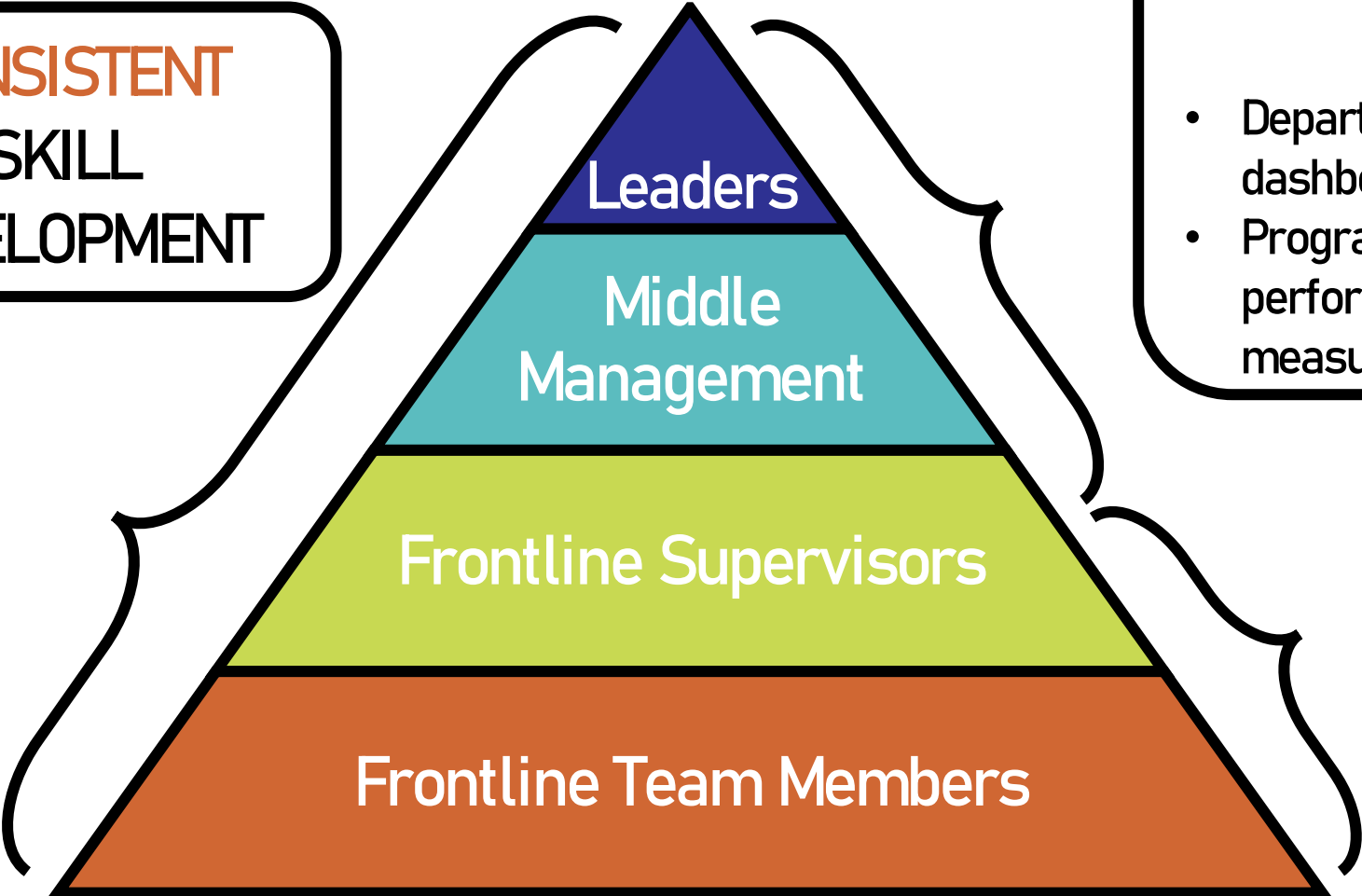


## CONSISTENT PRACTICAL APPLICATION

- Department dashboards
- Program performance measures

# Missouri's next steps

**CONSISTENT**  
SKILL  
DEVELOPMENT



**CONSISTENT**  
PRACTICAL  
APPLICATION

- Department dashboards
- Program performance measures

**NEEDED:**  
Consistent practical  
application at  
frontline levels

The State of Missouri must make  
problem-solving tools accessible to

**frontline teams**

by providing a **common toolkit**

and **consistent pathways** to

observe and use them in their day-to-  
day jobs

# Barriers at the frontline

Recent data suggest that frontline team members experience **four main barriers** to applying problem-solving tools in their job

Awareness

Ease of Use

Translation

Empowerment

# Barriers at the frontline

Awareness

Ease of Use

Translation

Empowerment

**90%**

of interviewed frontline  
team members were not  
aware of common  
problem-solving tools

Source: 2021 interviews (n = 31)



# Barriers at the frontline

Awareness

Ease of Use

Translation

Empowerment

57%

of interviewed frontline team members would be more likely to use problem-solving tools if they were **short and simple**

“

Success would be a big one. **Simple is really important.** And how much gain do I get for the effort.

”

Source: 2021 interviews (n = 31)

# Barriers at the frontline

Awareness

Ease of Use

Translation

Empowerment

What would make you more inclined to use these problem-solving tools?

“ Looking for things that seem **applicable to my work.** ”

“ ...knowing how it can be best applied, especially how to use product X for my job. **Looking for tailored training.** ”

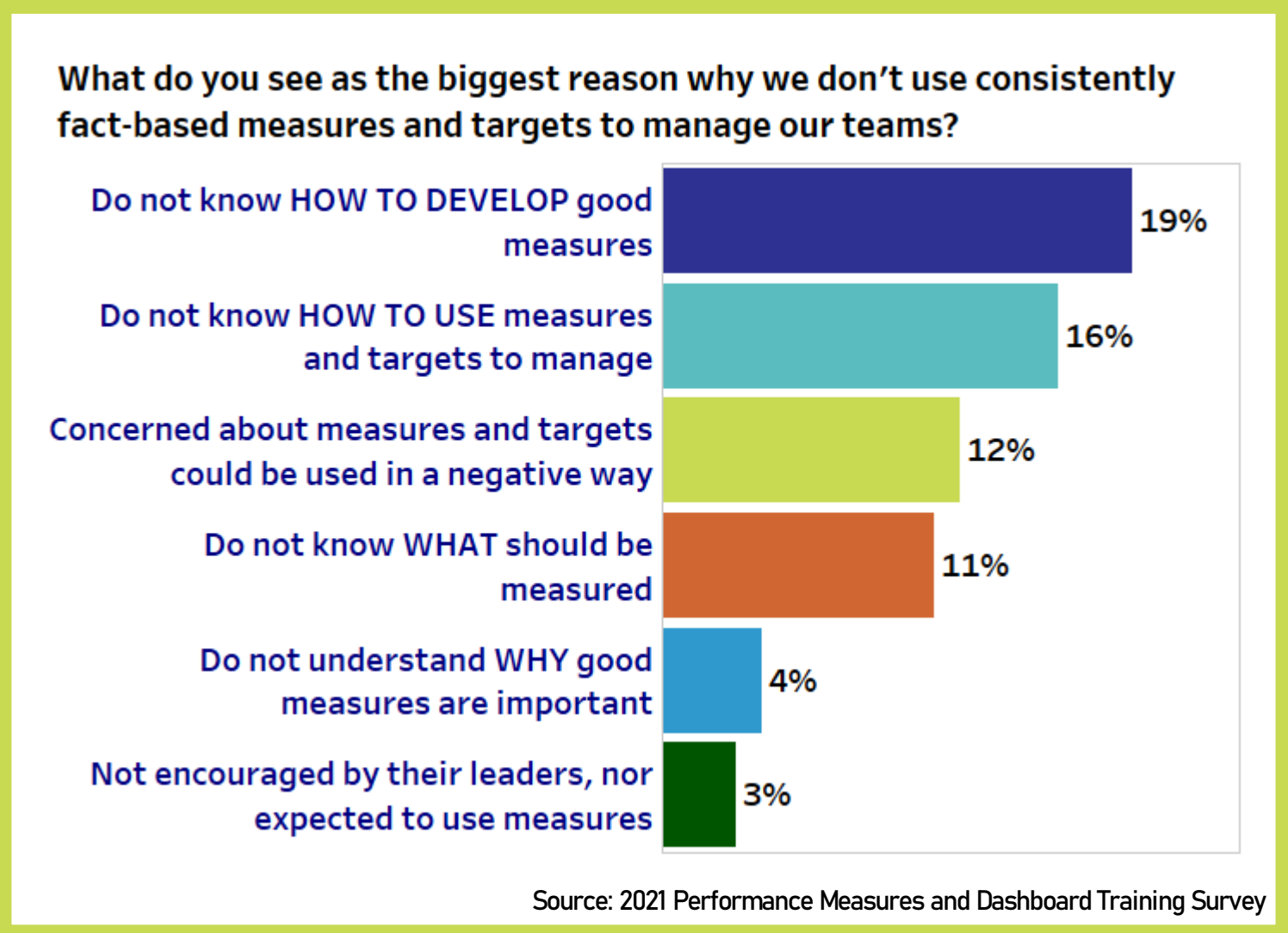
# Barriers at the frontline

Awareness

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# Barriers at the frontline

Awareness

Ease of Use

Translation

Empowerment



**Different teams face problems in different contexts**

Photos: DOC, MODOT, MDC, DNR

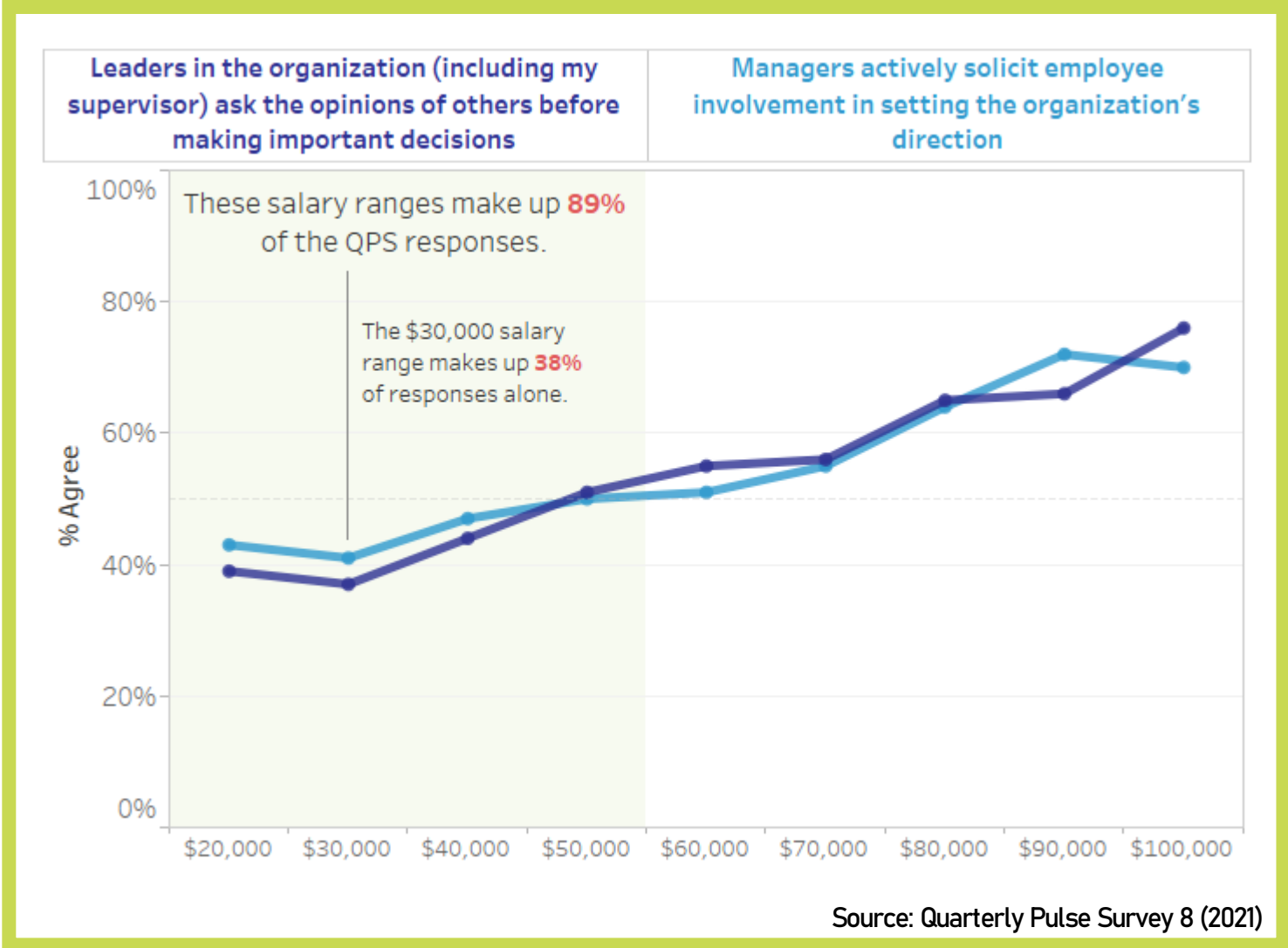
# Barriers at the frontline

Awareness

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# Overcoming frontline barriers

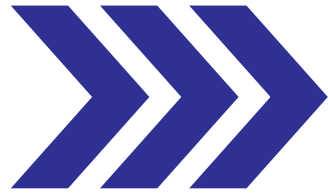
Ease of Use



Simple toolkit in multiple forms

COMMON TOOLKIT

Awareness



Statewide OpEx integration

Translation



Departmental OpEx leaders

CUSTOM ROLLOUT

Empowerment



Supervisor communities of practice

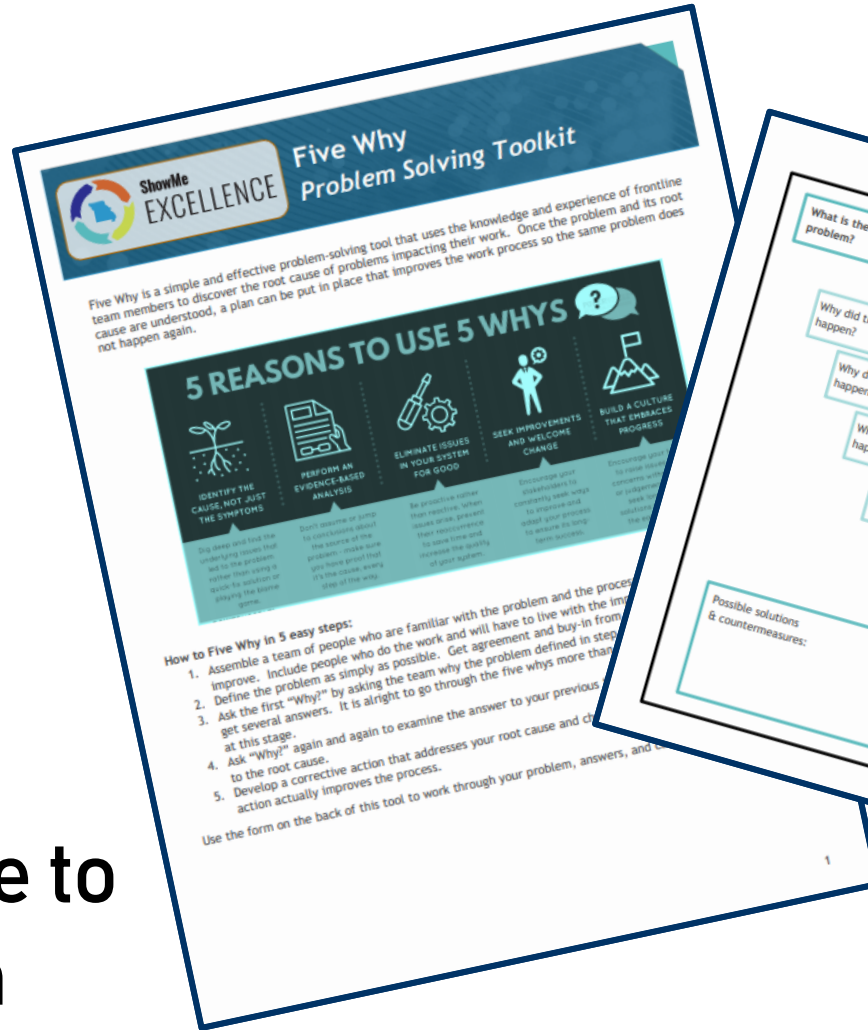
# Common toolkit

A common set of tools

Logical and methodical

Adaptable to any team

Ties in with existing and planned OpEx activities



Available in many formats

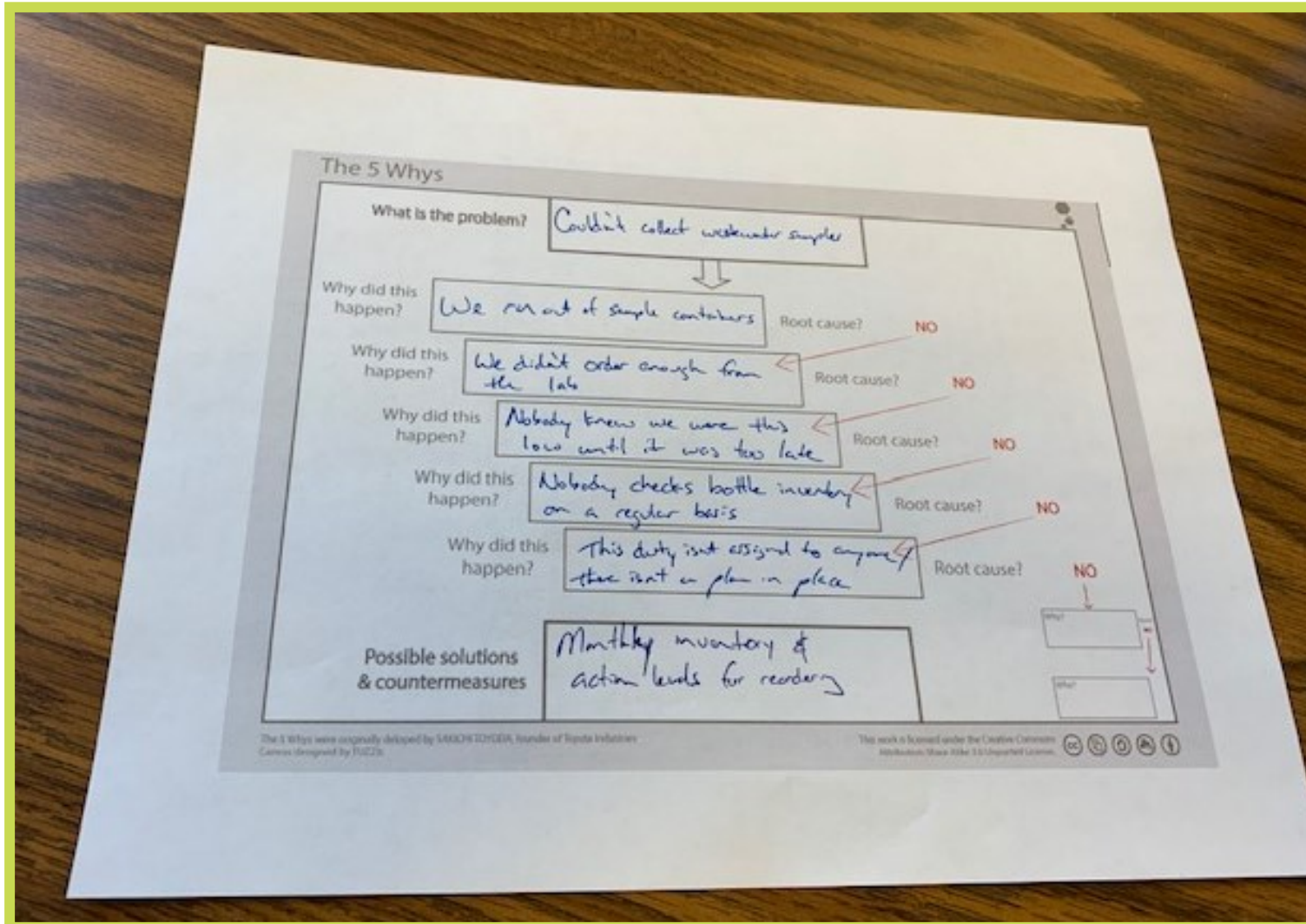
Quick to learn

Easy to use





# Using the toolkit at Missouri DNR

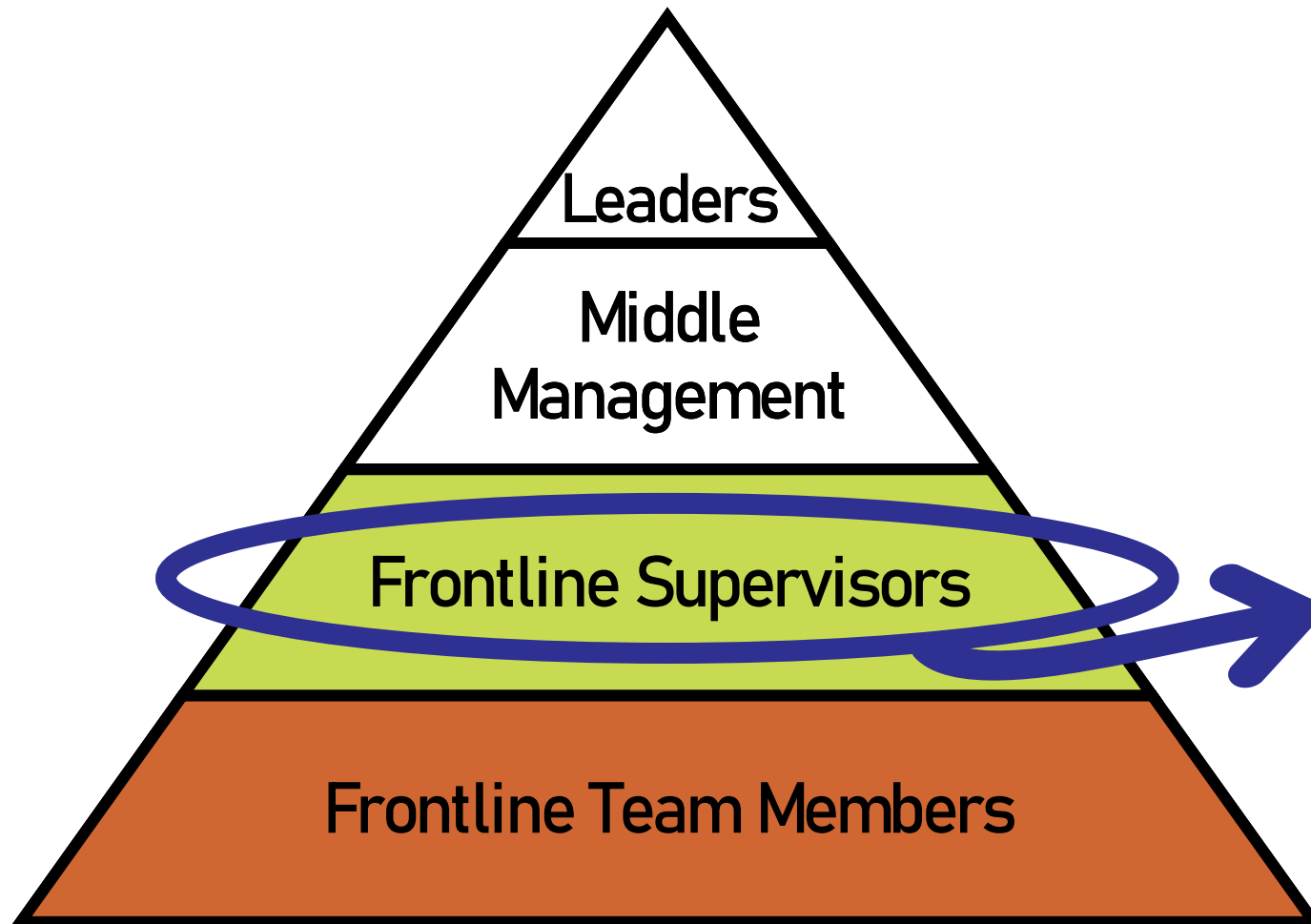


What's the solution?

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Monthly inventory and  
action levels for reordering

# Custom Rollout: Frontline Supervisor Focus



## Why frontline supervisors?

- Familiar with tailored needs of frontline teams
- Higher level of similarity
- Their comfort and confidence is key to frontline empowerment

# Communities of Practice

“

Communities of practice steward the knowledge assets of organizations... They operate as “social learning systems” where practitioners connect to solve problems, share ideas, set standards, build tools, and develop relationships with peers...

”

**DOMAIN**  
Areas of shared interest and key issues

**COMMUNITY**  
Relationships built through discussion, activities, and learning

**PRACTICE**  
Body of knowledge, methods, stories, tools developed

# Community of Practice Resource Guide

## Resource Guide for Departmental OpEx Leaders

- Start where you are
- Grow your community
- Share your stories
- Incrementally build infrastructure
- Measure value

**ShowMe EXCELLENCE**

### Developing a culture of problem solving in frontline teams and beyond

#### Practical Guidance for OpEx Leads

**Vision**  
Developing a culture of problem solving at all levels of your organization goes beyond just ensuring your teams are aware of problem-solving tools and are equipped with the skills to use them. Confidence and comfort using training. You can work to truly instill a proactive problem-solving culture at your frontlines by cultivating a community of practice for frontline supervisors in your department. Through the community of practice, frontline supervisors will gain experience and confidence using tools and strategies to address problems that are specific to their frontline teams. In turn, frontline team members will learn-by-doing and gain confidence using the tools themselves in their day-to-day work.

Cultivating a community of practice will look different from department to department. These communities are inherently unique dependent on local context: whether your OpEx program is well-established or nascent, whether your frontline staff are all white-belt certified or are unfamiliar with problem-solving tools. This practical guide will help you cultivate a community of practice that fits the specific needs of your department.

**Communities of practice defined**  
A community of practice is a group of people informally bound together by shared expertise and passion for a joint enterprise - in this case, empowering frontline problem-solving. Communities of practice are focused on building and sharing knowledge among practitioners. This knowledge is built and sustained by action-learning: taking new concepts and ideas, applying it to what's relevant to you and your team, and integrating it into your own experiences. They feature collaborative activities designed to build member skills, which over time will increase the overall capability of the organization. In these communities, practitioners connect to solve problems, share ideas, set standards, build tools, and develop relationships with their peers.

Communities of practice have a few key ingredients:

- **Domain**
  - Focus on a specific area, such as frontline problem-solving
  - Complement formal institutions by crossing structural boundaries
- **Community**
  - Members opt-in, united by a shared passion and commitment to growth
  - A variety of gatherings and connection points to build and sustain relationships
- **Practice**
  - Learn, share, and practice methods, techniques, stories, and tools
  - Institutionalize knowledge and skills

**PHASES OF DEVELOPMENT AND THE FOUNDATION**

Phase of development and the foundation	Objectives and tasks	Examples
Define domain		<ul style="list-style-type: none"> <li>◦ Increasing proactive problem-solving in frontline teams by empowering frontline supervisors with knowledge and experience</li> </ul>
Fill key roles		<ul style="list-style-type: none"> <li>◦ Sponsor: OpEx leader</li> <li>◦ Champion: Department leader</li> <li>◦ Coordinator: can be OpEx leader to start and then transition to a rotating position</li> </ul>
Grow membership		<ul style="list-style-type: none"> <li>◦ Start small</li> <li>◦ Utilize existing groups (e.g. belt certification, training cohorts, regional teams)</li> <li>◦ Spread via word of mouth and/or existing networks</li> </ul>
Community kick-off		<ul style="list-style-type: none"> <li>◦ Convene in-person (ideal) or virtually and encourage dialogue</li> <li>◦ Collaboratively develop goals for the first year (e.g. learn about common tools, learn how to translate tools to my team's needs, develop a peer support system)</li> <li>◦ Develop a shared learning framework (e.g. work through the Problem Solving Tool Kit)</li> </ul>
Modes of operation		<ul style="list-style-type: none"> <li>◦ Email groups: community coordination</li> <li>◦ Quarterly in-person meetings: build trust, foster sense of shared mission, increase productive participation</li> <li>◦ Monthly virtual meetings: interactive problem-solving, on-demand education, expert speakers</li> <li>◦ Digital hubs: share resources, document activities</li> <li>◦ Regional chapters: regular lunch outings to connect and share stories</li> </ul>

Recommendations for cultivating a community of practice  
At the beginning, it's great to focus on building and strengthening relationships to establish psychological safety within the community. After that, sharing stories is a low-cost, high-impact way to accelerate tailored learning and practical application. With time, you'll need to also ensure that you measure value and grow your membership in order to sustain community. The recommendations below are meant to help you incrementally build your frontline supervisor of practice. They aren't prescriptive or exhaustive, just some tips and tools to help you get started.

Identifying stories to share: start small. You can share examples from your own work. You can solicit stories from community members. You can even "create" stories for community members by facilitating group exercises of real-world problems relevant to your department. Make sure you don't!

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# Proven concept in Missouri



## About the Show Me Excellence Community

Show Me Excellence is a subset of OpEx skills, capabilities, mindsets, and processes that deliver lean and continuous improvement impacts at the department, team, and project levels. The activities associated with Show Me Excellence have been going on in Missouri's state agencies for years, but these efforts were named at the first annual Continuous Improvement Summit in October 2019. Show Me Excellence is all about providing the best tools, training, and insight available to ensure teams succeed in their pursuit of operational excellence.

# Intentionally Complementary

- Ongoing partnership with ShowMe Excellence
- Fills a known gap: smaller problems and processes
- Designed to integrate with existing efforts and networks



ShowMe  
EXCELLENCE

In the next 3–6 months, what activities by the OpEx community do you think will have the greatest impact?

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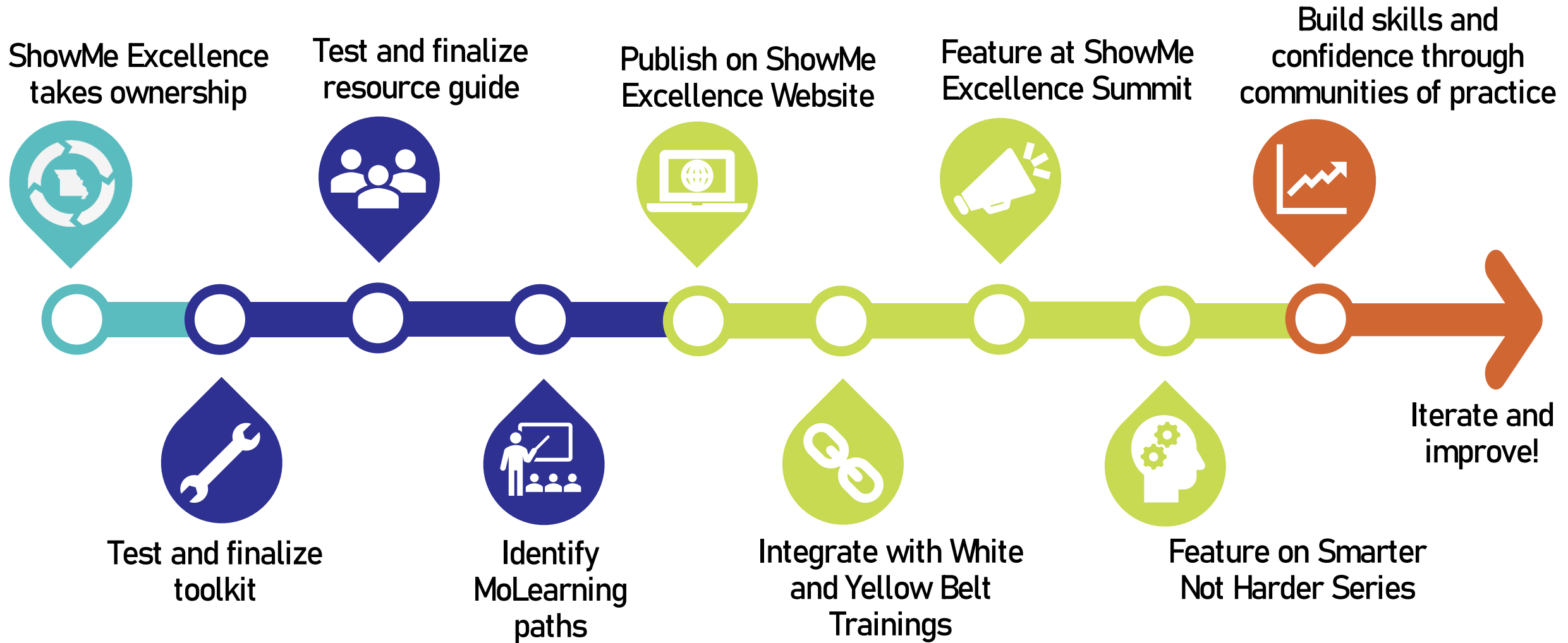
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Ensuring a **simple, proven set of tools** is available and easy to distribute and track usage

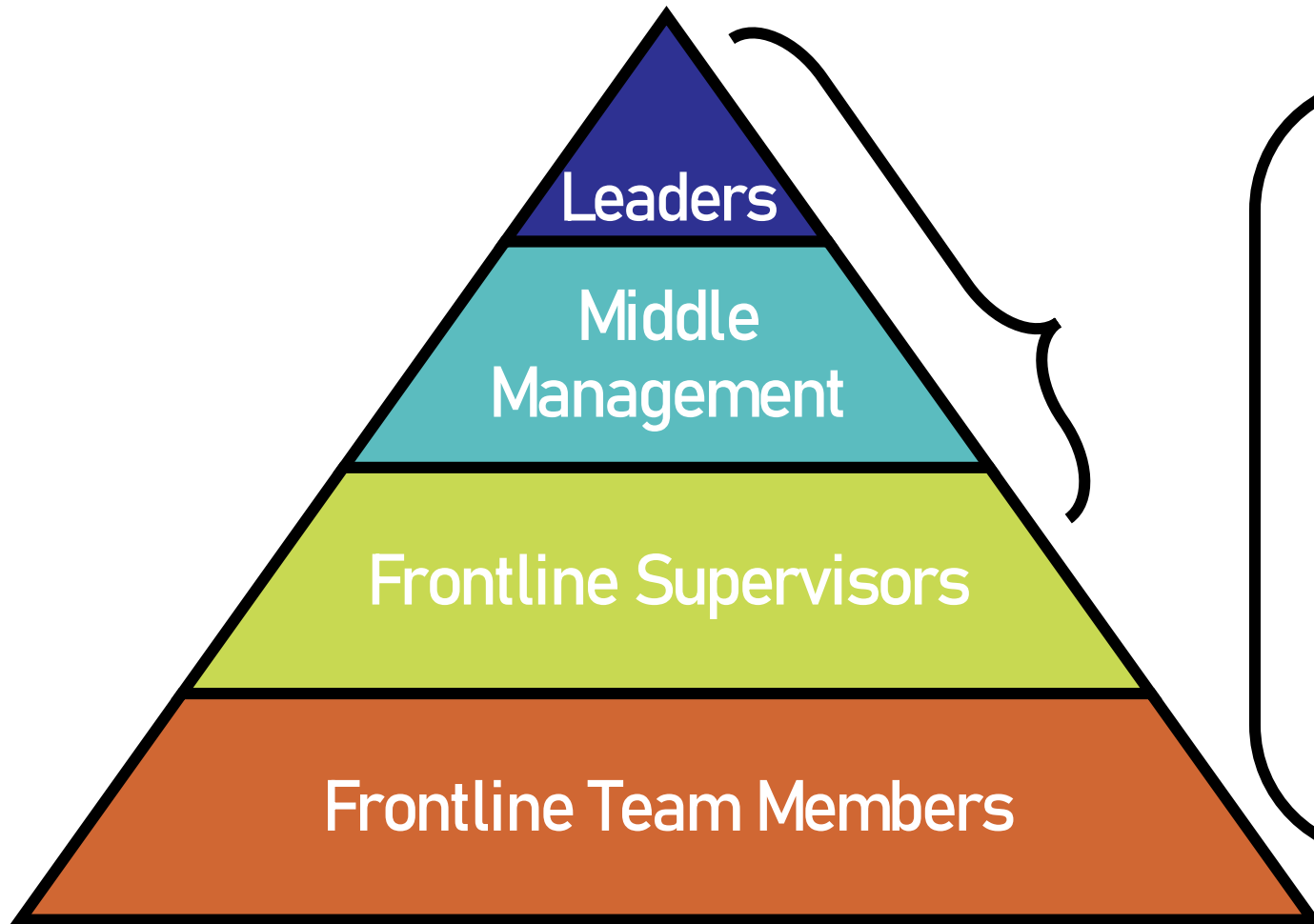
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Source: 2021 ShowMe Excellence Taking Stock Survey

# Next Steps



# Here's how you can help



- Support OpEx leaders
- Support communities of practice
- Champion a tool
- Share stories widely
- Foster a culture that empowers frontline decision-making



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# Thank you!