

# Using Data and Evidence to Facilitate Action: Developing a Research and TCTS Agenda

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June 22, 2018

Meeting of the REL Appalachia Cross-State Partnership





# Agenda

- 9:30 Welcome, introductions, and purpose
- 9:40 Review research agenda and state comments
- 9:50 Literature and landscape scan results (preliminary)
- 10:20 Review and refine research activities
- 11:20 Wrap-up & next steps





# Welcome

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INTRODUCTIONS AND PURPOSE



# Introductions

- Name
- Affiliation
- Share one update on data-use activities since we met in February



**Handout 1**



# REL AP Staff



Kate Laguarda  
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# Key Goals for the REL Program

- Sustain **partnerships** that use research to address high-leverage issues.
- Complete coherent and cumulative **research agendas**.
- Use REL AP as a **key resource** for credible research and support.
- **Increase capacity** to access, understand, interpret, apply, and conduct research.
- **Increase use** of research findings in education decisionmaking.





# Cross-State Partnership Goal

To build capacity among local data users to access, understand, and use state data resources to facilitate action at the local level.

*.... helping to address “data rich, information poor” (DRIP) syndrome.*





# Workshop Objectives

- Finalize research agenda for the partnership.
- State partners provide input that will advance the research activities and inform the project plan.
- Discuss landscape and literature results to inform research activities.



# Review of Research Agenda

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Handout 2



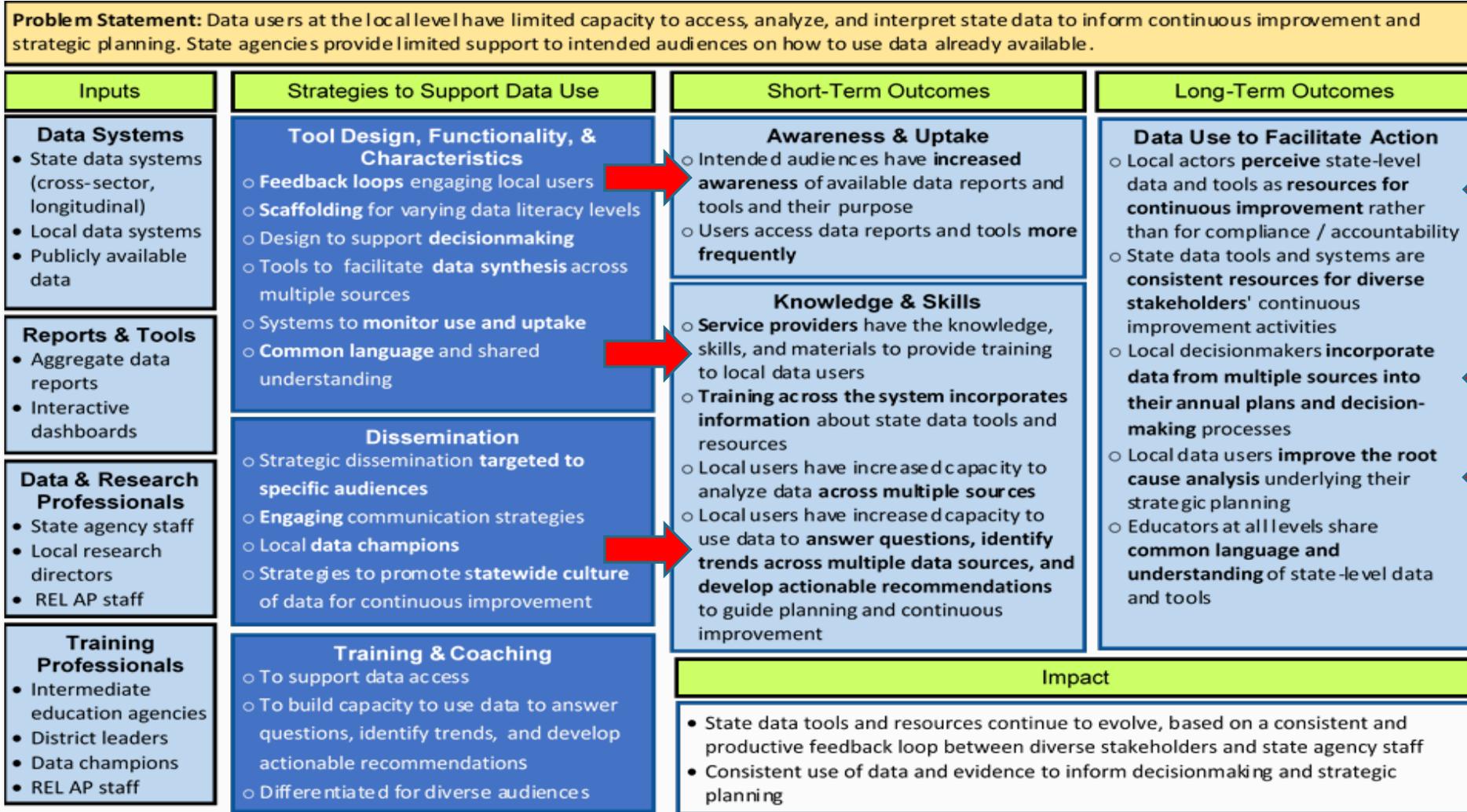
# Your Research Agenda

Addresses a high-leverage need:

- *Bolsters ability of state agency staff' to support local stakeholders and others in using data to develop and monitor policy and practice.*
- *Supports local stakeholders' interests in using the data already being collected through multiple data systems.*
- *Supports local efforts to strengthen the use of statewide data in data-based decisionmaking efforts.*



# Cross-State Logic Model



# Research Questions & Activities



Do local leaders understand the connection between available data, results, their inferences and actions?

Support survey development across states

Administer survey, provide input on interpretation and reporting



What skills, structures, and supports do district and state leaders need to create a culture of data-driven decisionmaking?

Conduct literature scan; support states in identifying resources; facilitate protocol development

Conduct scan of internal tools and resources that can be shared; conduct cognitive interviews



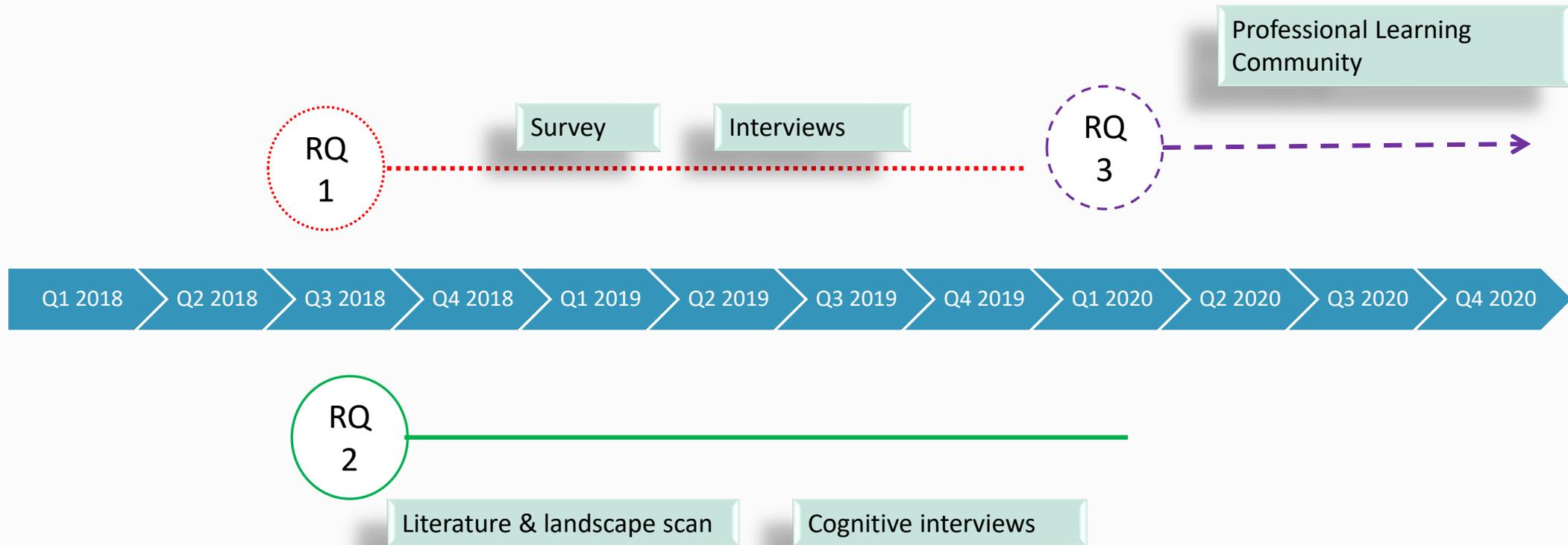
In what ways do local users improve their capacity to use student, classroom, schoolwide and linked data to improve their instructional program? How do they determine what works?

Co-lead professional learning community

Co-lead professional learning community



# Proposed Time Line for Activities





# Data Use Scans

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# Data Use Scans

## Supports Research Question 2

What skills, structures, and supports do district and state leaders need to create a culture of data-driven decisionmaking?

\*Preliminary search was focused on K12 education; additional effort may be invested in understanding unique feature of leaders' data use in postsecondary and workforce development initiatives.



# Purpose of Preliminary Scans

## Literature and Tools

- Review and summarize literature related to leaders' data use.
- Identify measures and instruments that may assess leaders' data use.
- Identify tools and resources to support leaders' use of data.
- Summarize potential topics and of interest for partnership.



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# Preliminary Search Process

## Resource Types

- Research articles
- Reports and briefs
- Case studies
- Toolkits and guides

## Sources

- ERIC and PsychINFO
- IES and REL Websites
- Doing What Works
- Strategic Use of Data
- Google and Google Scholar

\*Preliminary search was focused on K12 education; additional effort may be invested in understanding unique feature of leaders' data use in postsecondary and workforce development initiatives.



# Three Categories of Findings

1. Research on leaders' data use.
2. Resources to support leaders' data use.
3. Instruments to measure leaders' data use.

Handout 3



# Research on Data Use

What types of data do studies reference?

- Student achievement data.
- Teacher evaluation and effectiveness data.
- Attendance records, discipline reports, dropout data, graduation data.
- Surveys of students, teachers, or parents.



# Key Themes from Research

## Leaders use data to:

- Improve curricula and instruction.
- Inform professional development.
- Inform student placement.
- Meet accountability reporting requirements.
- Improve organizational operations and management.
- Measure effectiveness of outreach to families and the local community.
- Track and modify school or district goals.

## Capacity to use data is dependent on:

- Culture of data use.
- Personnel and school staff support.
- Effective collaborations and partnerships.
- Data accessibility.
- Data analysis skills.
- Extent to which data collected align with systems-wide goals.

# Tools & Guides to Support Data Use



- Toolkit for a workshop on building a culture of data use.
- Getting State Education Data Right: What We Can Learn from Tennessee.
- Doing What Works protocols
  - Using Student Achievement Data to Support Instructional Decision Making
  - Planning to Use Data for Instructional Improvement: District and State Levels



# Example Instruments to Measure Data Use

- Principal Data-Driven Decision Making Index (P3DMI; Mingchu, 2008).
- Scales of Data Quality, Accessibility and Analysis Skills (SDQAAS; Mingchu, 2008 ).
- Strategic Use of Data Rubric is a self-assessment of organizations' use of data to improve (Center for Education Policy Research, 2014).



# Example Topics Measured

- Frequency of data use.
- Accessibility of data.
- Perceptions of data use.
- Perceptions about capacity to use data.
- Extent to which data are available.
- Extent to which data are used for decision making.
- Extent to which data is used for monitoring.
- Data quality.
- District requirements for data-driven decisionmaking.
- Capacity and skills to analyze data.
- Leaders' education and experiences.
- Types of data collected.
- What data are used for.
- Whether or not data are used for strategy or goal setting.



# Discussion of Example Topics

- Which research themes, tools, guides, and example topics are of interest to you?
- Is there anything missing?
- Do you currently measure any of these topics? Others?

**Activity 1**



# Research Question 1 Activities

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DO LOCAL LEADERS UNDERSTAND THE CONNECTIONS AMONG AVAILABLE DATA, RESULTS, AND THEIR INFERENCES AND ACTIONS?

# Activities that Support Research Question 1:

Do local leaders understand the connections among available data, results, and their inferences and actions?



## Surveys of local leaders

- Develop items that measure
  - What data sources local leaders use and don't use
  - How local leaders use data
  - What data local leaders need
- Support states in administration and analysis
- Identify tools and resources used for decision making



## Interviews with nonusers of data

- Develop interview questions that measure
  - Local leaders' use/non-use of data tools
  - Local leaders' needs related to data tools
- Support states in conducting and analyzing interview data



## Communication and Dissemination plan

- Two-page briefs of survey and interview results
- Brief about data use for continuous improvement
- Inventory of tools and resources

Handout 4



# Questions to Support Activities

- Are there any themes from the literature that are priorities to measure of local leaders?
- Are these proposed activities duplicative of any work in your department?
- Who might be the appropriate respondents for the survey? Interviews?
- How might you use the results of the surveys? Interviews?



- Frequency of data use.
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- Extent to which data is used for monitoring.
- Data quality.
- District requirements for data-driven decisionmaking.
- Capacity and skills to analyze data.
- Leaders' education and experiences.
- Types of data collected.
- Whether or not data are used for strategy or goal setting.
- What data are used for.

## Activity 2



# Proposed Roles

## REL Activities

- Develop survey items that can be used across states.
- Work with states to develop internal items that support their data use goals.
- Describe results that typical state data sets produce.
- Document reasons why local leaders are/are not using state data sets to make decisions.
- Document the data sources and tools they currently use to make decisions.
- Analyze survey data.

## State Activities

- Identify who within partnership's respective departments will be responsible for survey development and distribution.
- Administer survey and jointly interpret results.
- Identify dissemination strategies.
- Identify key informants for interviews.
- Conduct interviews.
- Analyze interviews.



# Research Question 2 Activities

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WHAT SKILLS, STRUCTURES, AND SUPPORTS DO DISTRICT AND STATE LEADERS NEED TO CREATE A CULTURE OF DATA-DRIVEN DECISIONMAKING?



# Activities that Support Research

## Question 2

### Scans of research, tools, and instruments related to data use

- Conduct comprehensive literature scan to identify evidence- or research-based practices.
- Conduct comprehensive landscape scan of tools.
- Create resource with results of the scan.
- Support states in cataloguing data use tools in use in the REL AP region.

### Cognitive interviews about data use tools

- Develop cognitive interview protocol to investigate how local users employ data use tools.
- Provide support for states to conduct cognitive interviews with stakeholders in their states.

**Handout 5**



# Questions to Support Activities

## Scan of research, tools, and instruments related to data use

- Is this scan duplicative of any work at your department?
- How might you use the resource we propose to develop (based on what we presented today)?
- Does your state already employ specific data use tools or resources (for local users)?
- Are there other department staff who need to be included?

## Cognitive interviews about data use tools

- Is this proposed activity duplicative of any work in your department?
- How might you use the results of the interviews?
- What need/capacity do you have to conduct interviews?
- Who might be the appropriate respondents for the interviews?

**Is one of these activities more relevant or necessary than the other?**

**Activity 3**



# Proposed Roles

## REL Activities

- Conduct comprehensive literature scan to identify evidence- or research-based practices.
- Conduct comprehensive landscape scan of tools.
- Catalog results and topics based on partnership needs.
- Support development of cognitive interview protocols for state staff use.

## State Activities

- Repeat scan to identify intra-departmental tools to include on the list of tools to support strategic planning.
- Conduct cognitive interviews with small sample of users.



# Research Question 3 Activities

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IN WHAT WAYS DO LOCAL USERS IMPROVE THEIR CAPACITY TO USE STUDENT, CLASSROOM, AND SCHOOLWIDE DATA TO IMPROVE THEIR INSTRUCTIONAL PROGRAM? HOW DO THEY DETERMINE WHAT WORKS?

# Activities that Support Research Question 3



## Professional Learning Community

- Identify leaders
- Develop a shared agenda
- Design practical measures
- Develop engagement plan



# Proposed Roles

## Activities (initiate professional learning community)

- Work with state staff to create practical measures around data usage for program improvement.
- Co-design community's agenda.
- Work with state representatives identify leaders and their roles in the group.

Handout 6



# Next Steps

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PREPARING THE PROPOSAL



# Next steps

- Compile a summary research agenda from this meeting.
- Develop TCTS proposal using state recommendations.
- Collaborate to:
  - Refine study and data collection designs.
  - Ensure activities and time lines meet state expectations.
  - Suggest product dissemination time lines.
- Proposal is due fourth quarter 2018.



## REL Appalachia Staff

**Megan Cox**, Tennessee liaison

**Deborah Jonas**, project director and Virginia liaison

**Kate Laguarda**, West Virginia liaison

**Myles McMurchy**, research support

**Tim Podkul**, partnership lead, Kentucky liaison

**Karen Shakman**, workshop facilitator

**Stephanie Wilkerson**, workshop facilitator

**Kyle Demeo Cook**, workshop facilitator

**Camille Lemieux**, workshop facilitator

**Molly Henschel**, Virginia liaison

# Thank you!

## Cross-State Partnership Members

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