

Root Cause Analysis – Data and Context Packet

WHAT & WHY?

On Saturday, January 22nd, each committee will brainstorm causes for the unmet needs selected for analysis. This is hard work that needs a deep understanding to be successful. You will receive readings for context around all three unmet needs selected during the December 14th Committee Meeting. Reading this packet will help you get the most out of the activities, including:

1. Provide a deeper understanding of the context around unmet needs.
2. Jumpstart your thinking on causes through guided prompts.

PART 1 REVIEW

Review the final unmet needs statements developed by your committee to perform a root cause analysis upon. Review the context from the Community Interviews and the “who”, “what”, and “why” identified in the development of that unmet needs statement.

PART 2 READ

Learn more about the context around each unmet need by reading the following perspectives:

1. Expert Interviews
2. Committee Insights
3. Research and Data

estimated time: 20 minutes or more

PART 3 REFLECT

Using the readings from Part 2, begin your initial brainstorm using the following prompts:

1. What might be causing this unmet need to happen?
2. What causes might be connected to the work of other committees?

recommended time: 10 minutes or more

Part 1 – Review | Unmet Needs Statement

This is one of three unmet needs statements prioritized by this committee for the January 22nd Root Cause Analysis exercise(s). This statement was selected by the committee during the December 14th committee meeting.

Schools & district facilities where teaching or training occur need technology that is appropriate for the facility and the mode of education to support learning & district communication.

Part 1 – Review | Unmet Needs Statement Generation

Facility Mismatch with Technology

TV Edu-stations take up space and are hard to move/use

- “The big TV edu-stations take up too much space. I have to move them out of the way to use my white board. I'd like an alternative technology that doesn't get in the way so much.”

1 Mention: (1) Group Parent Interview

Insufficient technology storage areas/systems/charging areas

- “Technology storage area/system.”
- “Charging stations, somewhere to store students' devices.”

2 Mentions: (2) CAC Meeting, (1) AISD Staff/Educator

Campus lacks interactive teaching technologies (Smartboards, mounted screens)

- “No smart boards or interactive screens, especially mounted screens.”

1 Mention: (1) AISD Staff/Educator

- **Who:** Schools & district facilities where teaching/training occur
- **What:** Varying type of technology that is not well suited for the mode/style of education (However their style for educator, connection between facilities and tech may create issues)
- **Why:** To support all forms of education and district communication (Explain why a facility cannot update tech)

Unmet Needs Generation [Draft](#):

~~“Schools & district facilities where teaching or training occur need technology that is appropriate for the facility and the mode of education to support learning & district communication.”~~

Finalized Unmet Needs Statement:

Schools & district facilities where teaching or training occur need technology that is appropriate for the facility and the mode of education to support learning & district communication.

Part 2 – Read | Expert Interviews

This page contains contextual information related to district practices, operations, and constraints as it relates to the identified root cause. Some of this information may have been relayed verbally during committee meetings. This information was provided by AISD staff selected by the PMs for the knowledge provided by their roles.

- With 110K+ devices in consistent rotation a technology warehouse is crucial to AISD to support campuses sufficiently. Power considerations for both network closets, and student devices needs to be considered, as well as HVAC loads.
- Changing device plugs (usb-c, lightening, hdmi, etc.) needs to be planned for and accommodated in built infrastructure.
- Space for staff within district facilities is an issue, the option to WFH eases some of these concerns and issues. IT Staff will not likely be making house calls if at home learners have issues, so wireless support will be important.

Part 2 – Read | Committee Insights

This page contains any feedback from committee members across all committees from the November 30th committee meeting discussion around unmet needs not yet expressed or identified that the committee members were aware of or wanted to share. These have been organized as they relate to the existing unmet needs or grouped into new ones.

- School buildings are old – electrical needs out weigh the supply

Part 2 – Read | Research and Data

This page contains key findings from the additional data sources identified by committees during the October 26th committee meeting, as well as key findings from validated external resources and research from the AISD Department of Research and Evaluation.

Facilities currently do not meet technological needs

- 38% of schools scored unsatisfactory or worse on the Technology ESA Score
- 15/25 underserved schools had lack of power for technology

Source

Qualitative ESA

Teachers indicate lack of equipment prevents them from teaching how they would like.

- Teachers who indicated they did not use particular forms of digital hardware most commonly reported lack of devices as the predominant reason, more so than broken or outdated equipment, lack of comfort with them, or concerns about equipment safety. For example, approximately 70% of teachers reported using a presentation system during student instruction. Among the 30% who did not use a presentation system, lack of equipment and lack of need for one were the two most common reasons provided. ¹

Sources

1. [Technology Integration & Implementation And Project Based Learning \(PBL\) Survey Results.](#)

The survey was available to potential respondents for 2 weeks at the end of January. A total of 1,739 teachers and librarians responded; weighted samples based on proportional strata were used to examine all results.

Part 3 – Reflect | Guiding Questions

This page contains guiding questions to brainstorm causes and reflect on connections between the work of different committees. The cross-committee connections highlighted on this page were identified by the PMs and/or committees prior to and during the December 14th committee meeting.

Unmet Needs Statement

Schools & district facilities where teaching or training occur need technology that is appropriate for the facility and the mode of education to support learning & district communication.

Cross-Committee Connections



Reflection Questions

What might be causing this unmet need to happen?

What causes might be connected to the work of other committees?