C24 - Data Driven Technology Planning with MICIP

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Bringing the Voice of Technology Leaders into the Continuous Improvement Process

Introduction

- The MICIP/EdTech Integration Team
- Purpose of this presentation
  - Our purpose is to discuss why District Technology Leaders should be in the CI process and provide some examples of how MICIP and CI can be used to improve technology in your district
- What will we be talking about today?
  - The MICIP/EdTech Integration Committee (10 minutes)
  - The role of technology professionals in the CI process (10 minutes)
  - Examples (25 minutes)
  - Continued Development and Support (5 minutes)
  - Q & A (20minutes)

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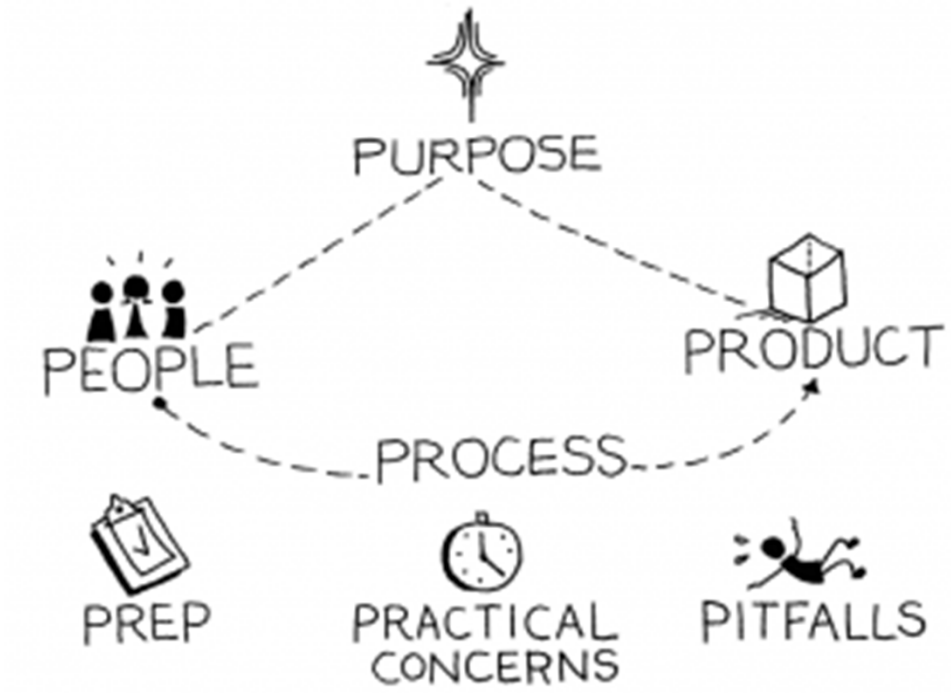
Who's Here?

- LEA
- PSA
- ISD
- Role

MICIP/EdTech Integration Committee



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Bringing the Voice of Technology Leaders into the Continuous Improvement Process

Having technology representatives at the table from the start

What unique perspectives do Technology Professionals have?

- Sales people sometimes misrepresent their products (e.g. offline access)
- Vendors address known pain points, but may not be looking at long term impact (TCO, ROI)

What unique data do Technology Professionals have access to?

- Hidden costs - add-ons, implied costs, human resources
- Connectivity - what are some opportunities and limitations with connectivity?
- Infrastructure - can your current infrastructure support the new program?
- Device and software use metrics

Other areas that Technology Professionals are content experts

- Goal Setting, Strategies, Funding, Evaluation

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Technology Professionals and the Continuous Improvement (C.I.) Process

LEARNING TARGETS:

- WHY should technology representatives representatives should be at the table from the start
- HOW/WHAT of the CI process and MICIP for Technology Planning

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Using CI and MICIP for Technology improvements - WHY?

Embed technology into strategies

Align resources and priorities - funding, equipment

Justify technology investments

Anticipate obstacles / challenges

Discern “Cool” vs “Practical”

Innovate instruction

Enhance student engagement & skills

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Bringing the Voice of Technology Leaders into the Continuous Improvement Process

Having technology representatives at the table from the start

1. 1. Tech is used to CI (Plan->Assess->Implement->Monitor->Evaluate->REPEAT)
2. We have data sets! (Connectivity, devices,etc)
3. Technology is likely a part of everything! (from lunch, to busing, to payroll to learning).
4. We help find strategies! (classroom AV, infrastructure, security).

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Having technology representatives at the table from the start [Assess]

- Technology specific data like connectivity, device capacity, training, infrastructure capacity, etc.
- Device and software use metrics
- Adding technology elements to survey data.
- MITECS/21st Century Learning Data

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Having technology representatives at the table from the start [Plan]

- Funding and budgeting
  - Hidden costs - add-ons, implied costs, human resources
  - Sales people sometimes misrepresent their products (e.g. offline access, accessing known pain points and not focusing on TCO, ROI, etc.)
- Connectivity - what are some opportunities and limitations with connectivity?
- Infrastructure - can your current infrastructure support a new program? What infrastructure improvements are necessary?
- Tech centered or relevant strategies
- Goals and metrics determinations

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Having technology representatives at the table from the start [Implement->Monitor->Evaluate]

- Training and professional development
- Device and infrastructure roll-out
- Collecting and analyzing data
  - App and site access data (engagement data)
  - Equity considerations
- We pilot, because things things do not always work "as advertised"

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HOW can MICIP be used for Tech Planning?

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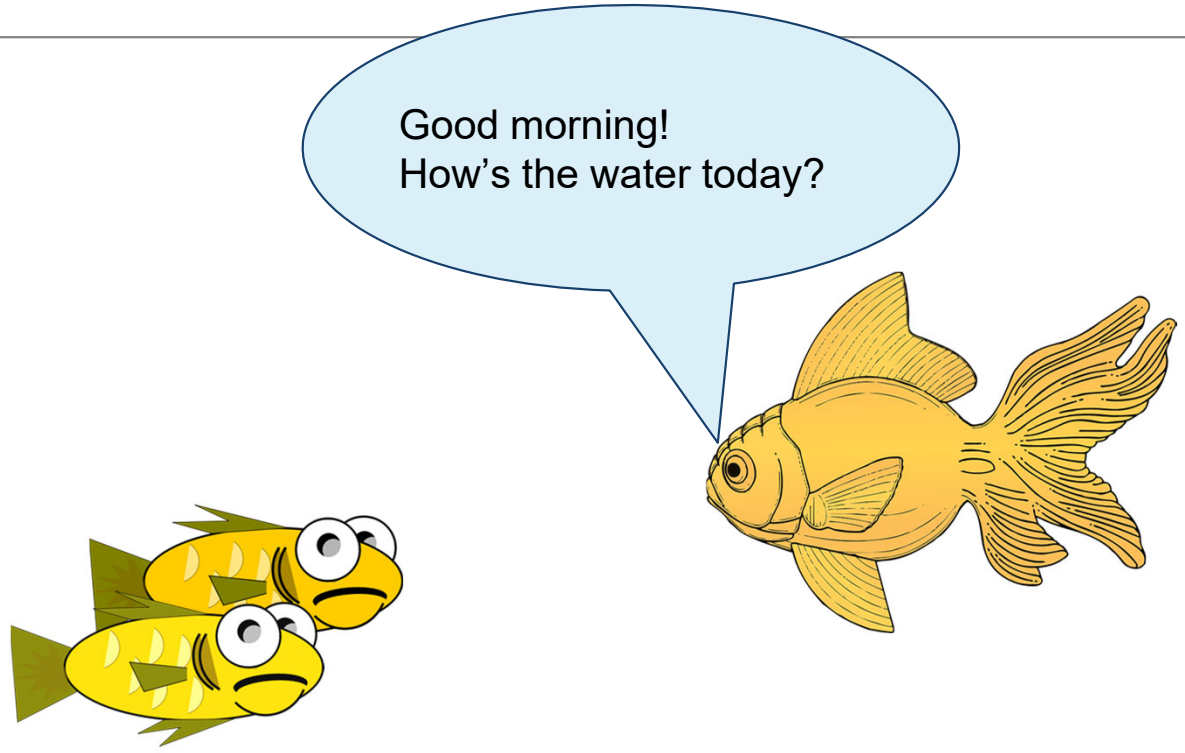

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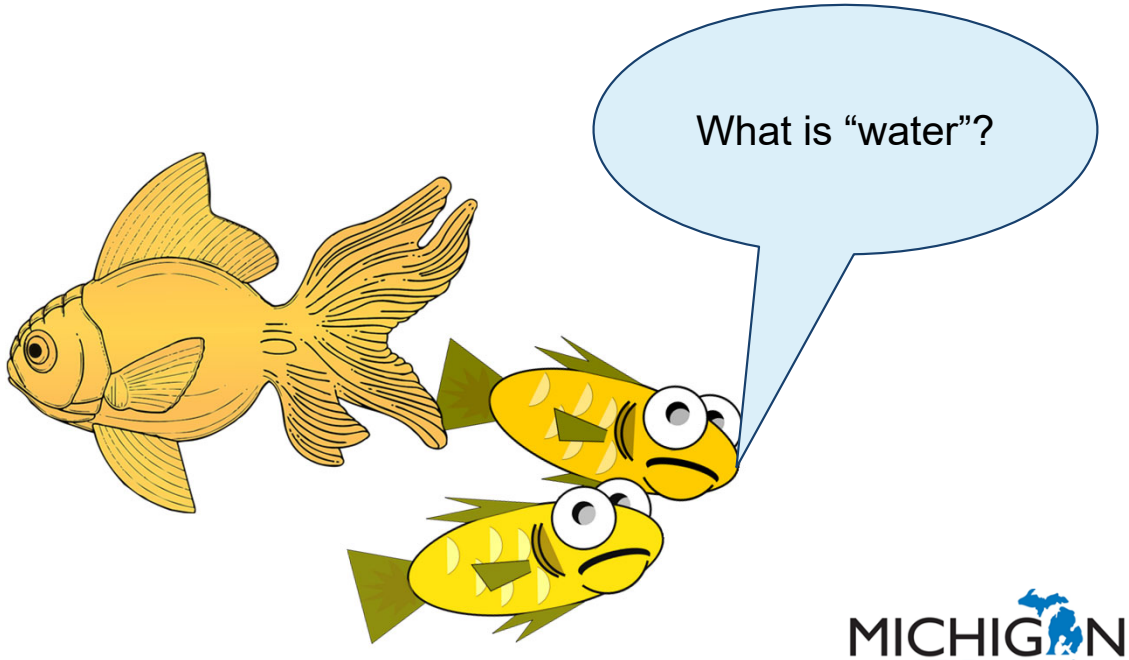
Bringing the Voice of Technology Leaders into the Continuous Improvement Process



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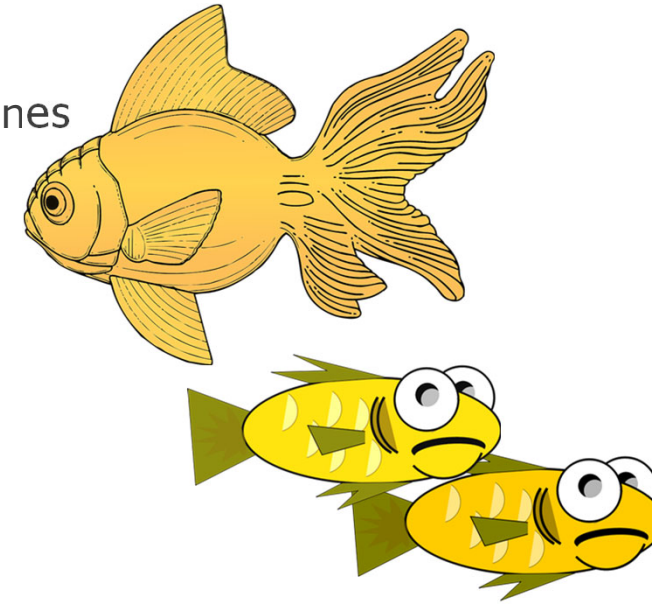
Using CI and MICIP for Technology improvements - Process

Technology leaders live change and improvement
- Usually faster, without documentation and shorted timelines
- Sometimes driven by outside forces

Communicate and get buy-in on:
- Obstacle
- Impact
- Data
- Objectives

Provide assistance with:
- Documentation
- Strategies



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Examples

The purpose of our examples is to show how Technology Professionals can use MICIP for Technology Planning and how their voice from the start is imperative to a successful CI process.

Case Studies / example {Templates}

- Connectivity Planning (Focused on both curriculum and technology)
- Device Planning (Focused on technology, but curriculum is an important component)
- Cybersecurity

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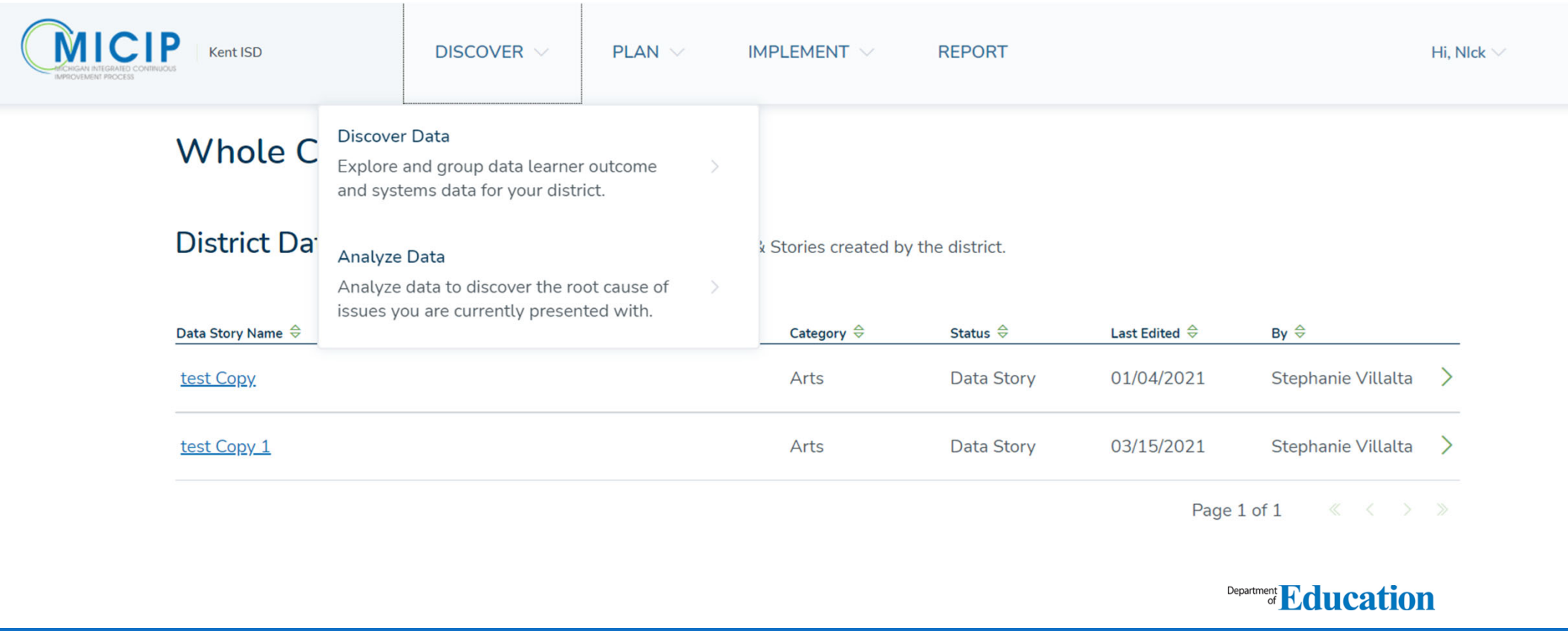
Community Connectivity - Template



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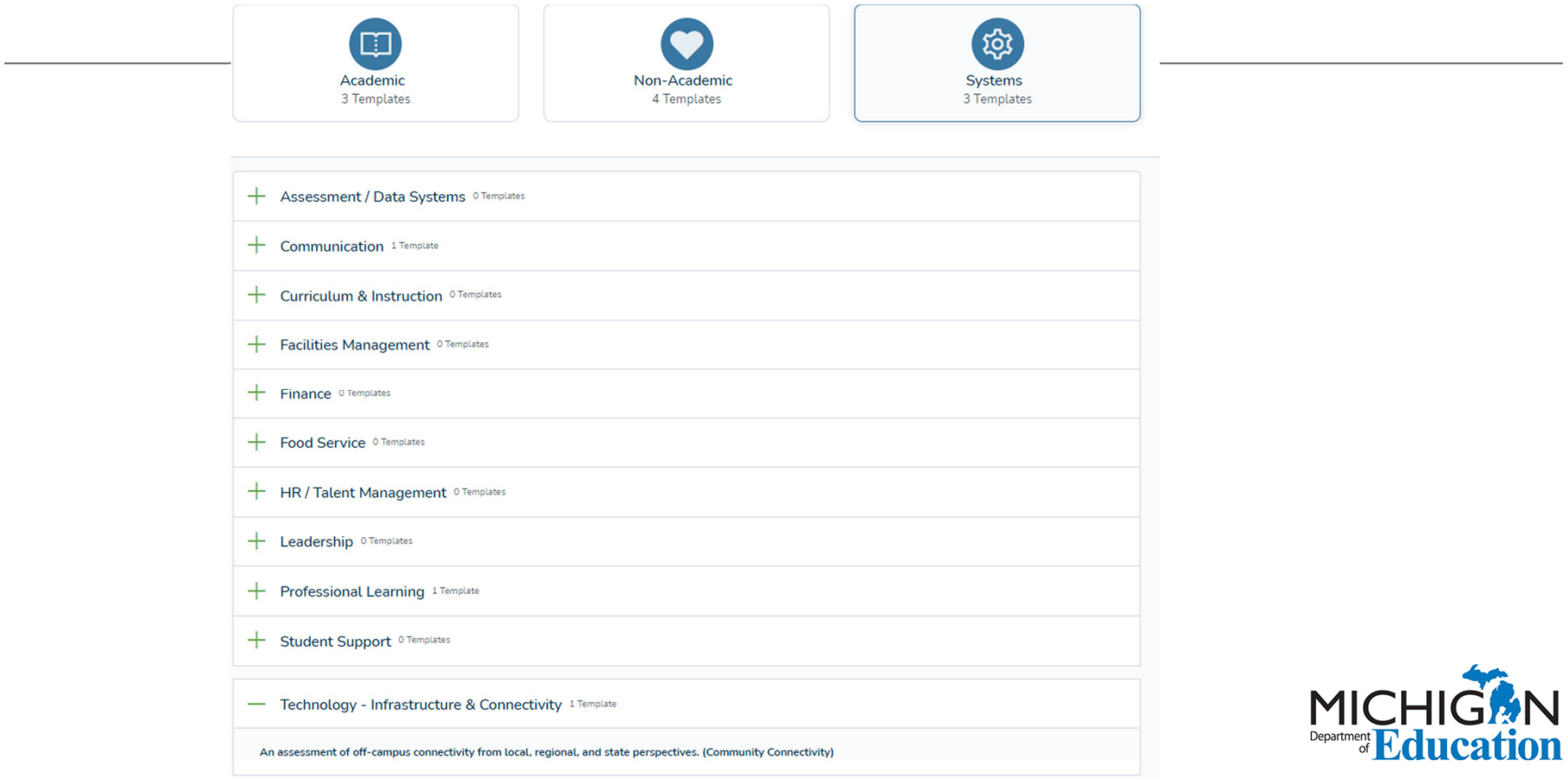
Community Connectivity - Template



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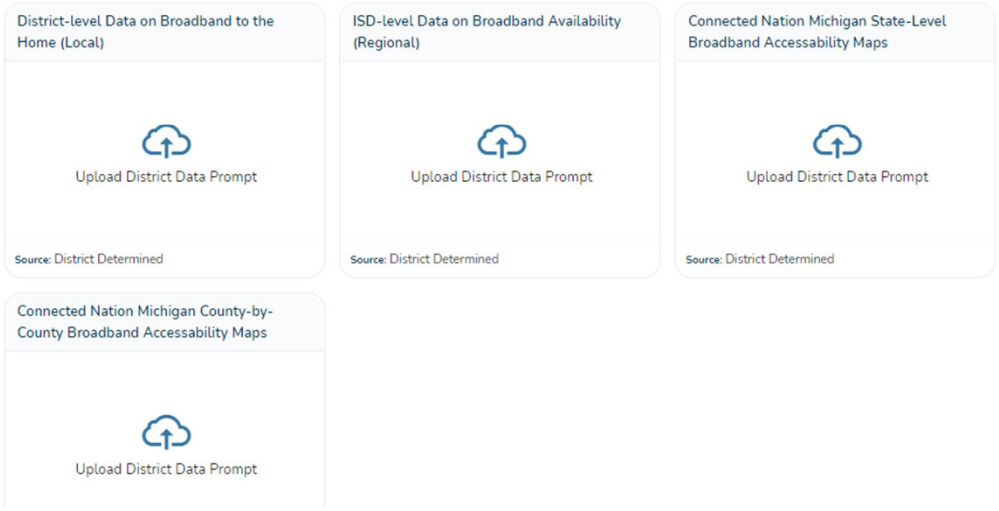
Community Connectivity - Template

Data Set: **An assessment of off-campus connectivity from local, regional, and state perspectives. (Community Connectivity)**

What does the availability of broadband internet look like in my district, ISD, or region? What does the Digital Divide look like in the service area? Gaps in connectivity impede remote learning opportunities for students and staff members. This information can be used in conjunction with other available data sets to assess other areas effecting student outcomes and engagement.



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Community Connectivity - Template

Connected Nation Michigan State-Level Bro

Why is this data object part of this data set template?

Used as a secondary data source, this data set can be used to confirm or question locally c
Again, what infrastructure exists in an area? What partners might collaborate in a public/p
endeavor to expand broadband service? ConnectedNation MI; Communities & Institutions,
Coverage Maps; State Maps ConnectedNation MI; Communities & Institutions; Broadband
Maps; Interactive Map.

Where should this data object originate from?

District Determined

How can this data object be found?

Used as a secondary data source, this data set can be used to confirm or question locally c
Again, what infrastructure exists in an area? What partners might collaborate in a public/p

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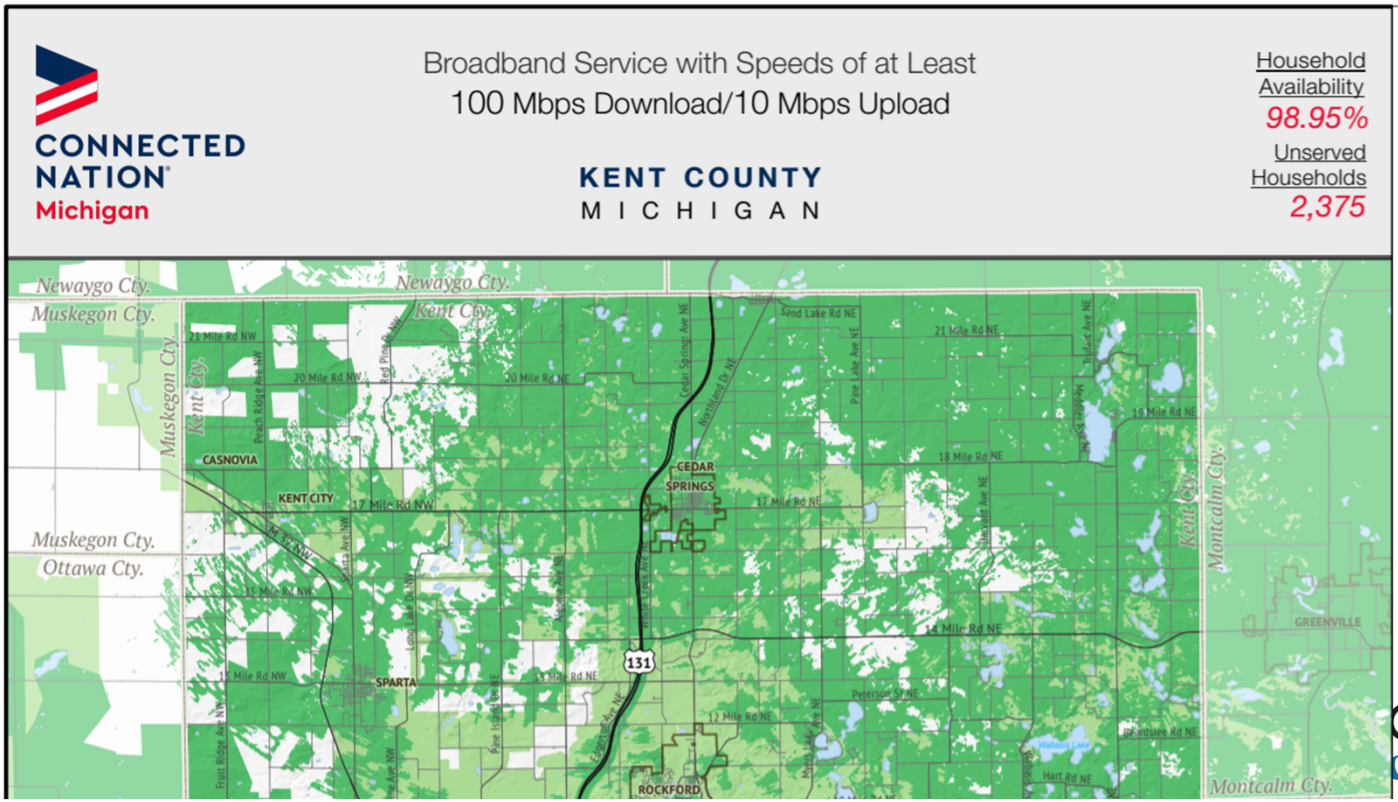
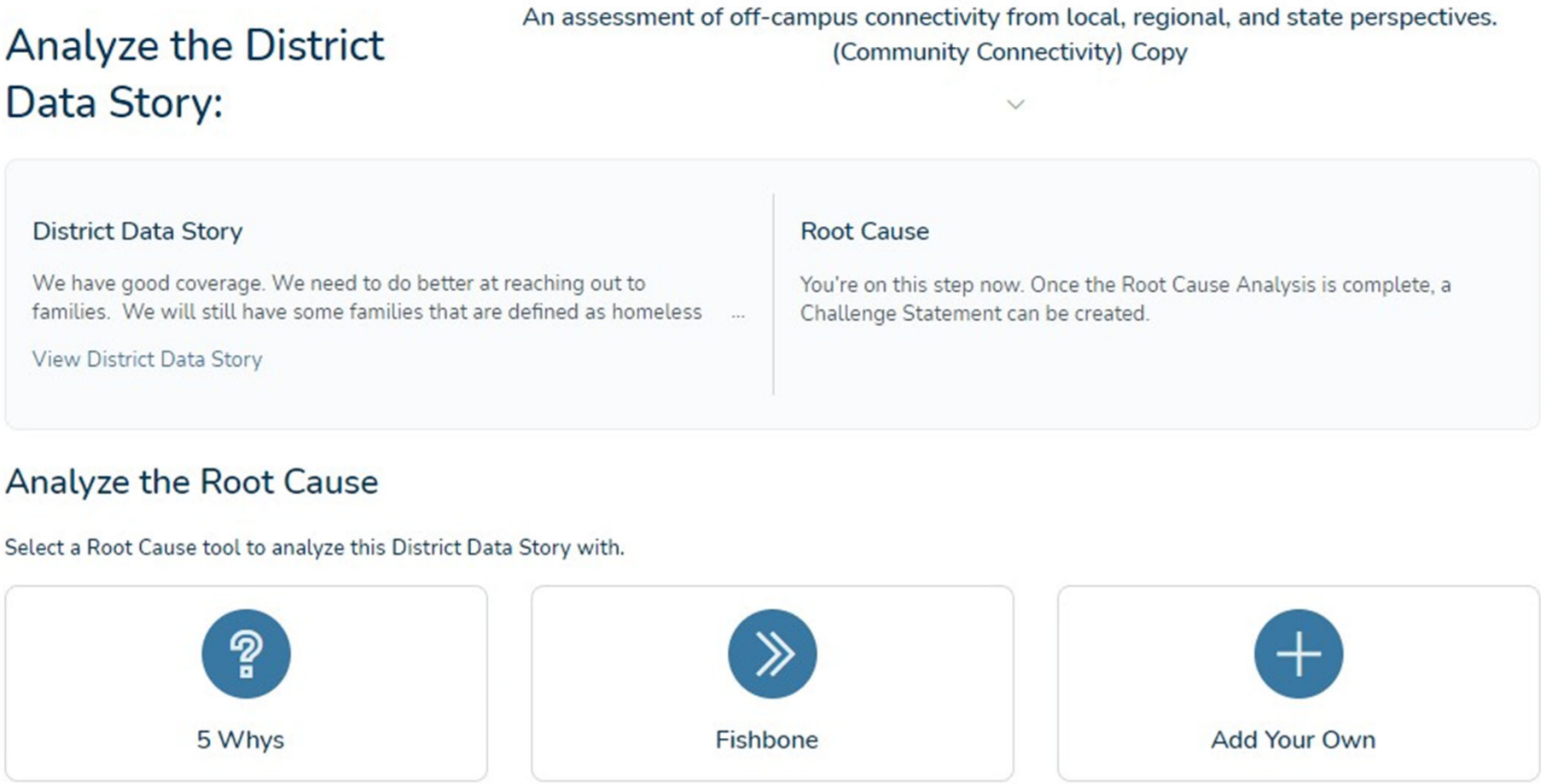
Community Connectivity - Template



Community Connectivity - Template

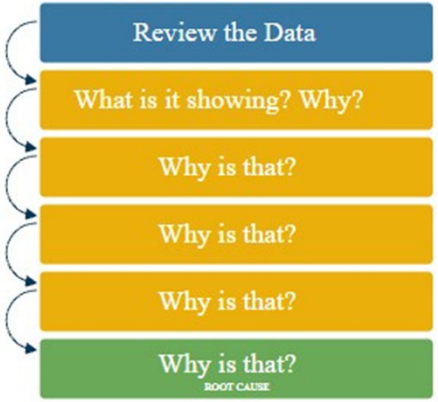


Community Connectivity - Template

Analyze the Root Cause

Tool Selected: The 5 Whys Change Tool

Reference the District Data Story to answer the following questions. The last "why" will be the Root Cause of the District Data Story.



Explain why the above Data Story is in the state it currently is.

Paragraph

Explain why...

+ Add "Why"

Finish Analysis

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Community Connectivity - Template

Analyze the District Data Story:

An assessment of off-campus connectivity from local, regional, and state perspectives. (Community Connectivity) Copy

District Data Story

We have good coverage. We need to do better at reaching out to families. We will still have some families that are defined as homeless ...

View District Data Story

Root Cause

because we didn't use computers.

Create a Challenge Statement

Based on the results of the Root Cause Analysis, define the challenge in one sentence.

Example: The district needs to allocate resources to develop a system to implement GELN Literacy Essentials at School B and maintain resources to continue implementation and progress at School A.

Community Connectivity - Template

Define a Measurable Goal:

An assessment of off-campus connectivity from local, regional, and state perspectives. (Community Connectivity) Copy

District Data Story

We have good coverage. We need to do better at reaching out to families. We will still have some families that are defined as homeless ...

View District Data Story

Challenge Statement

Edit

The district needs to help more families sign up for low cost programs.

Define Goal

Create a one-sentence goal to solve the issue defined in your Challenge Statement. The goal should include a measure and a due date.

Example: Our goal is to provide opportunities for students to study together, in order to improve ELA M-Step scores by 5% by 2022.

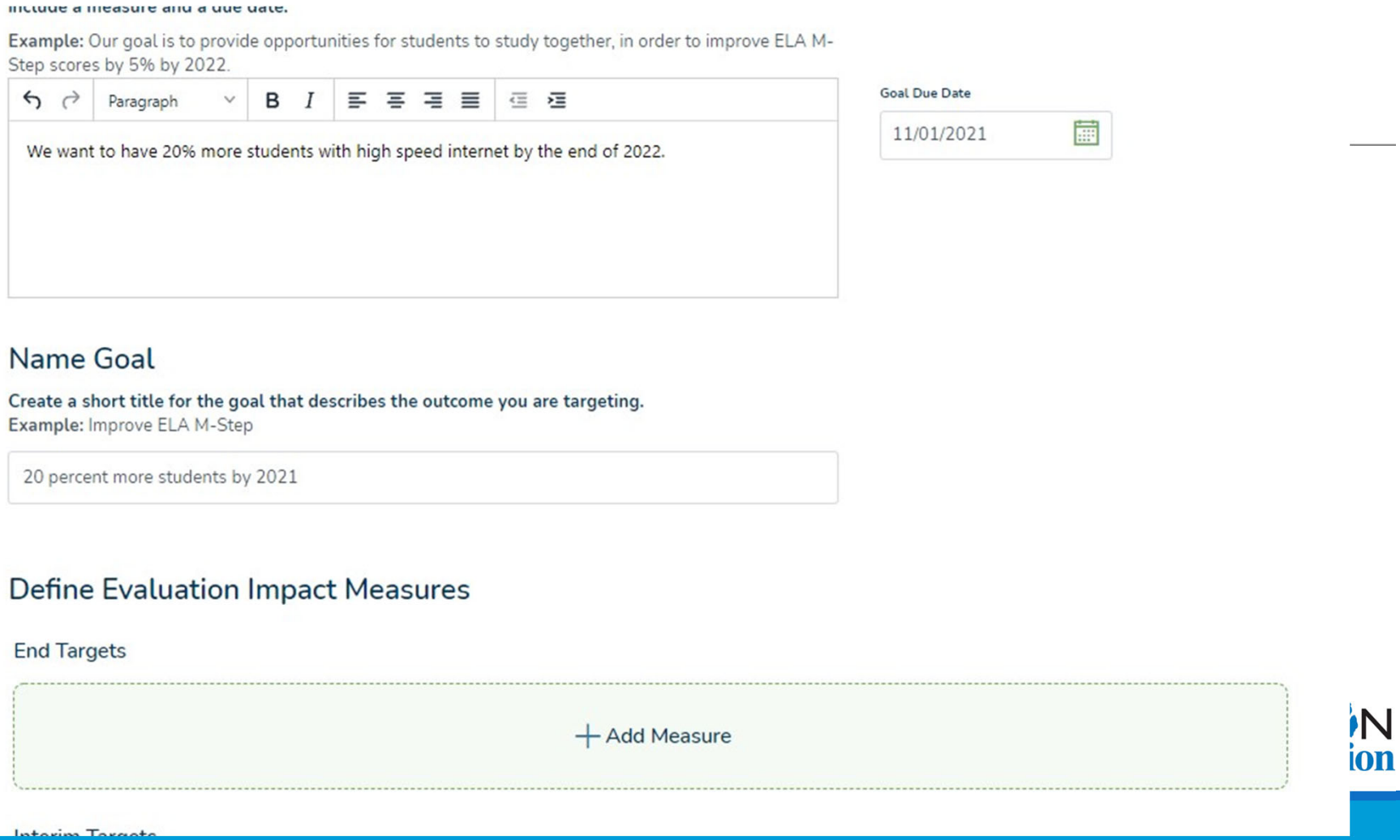
Paragraph

Goal summary...

Goal Due Date

11/01/2021

Community Connectivity - Template



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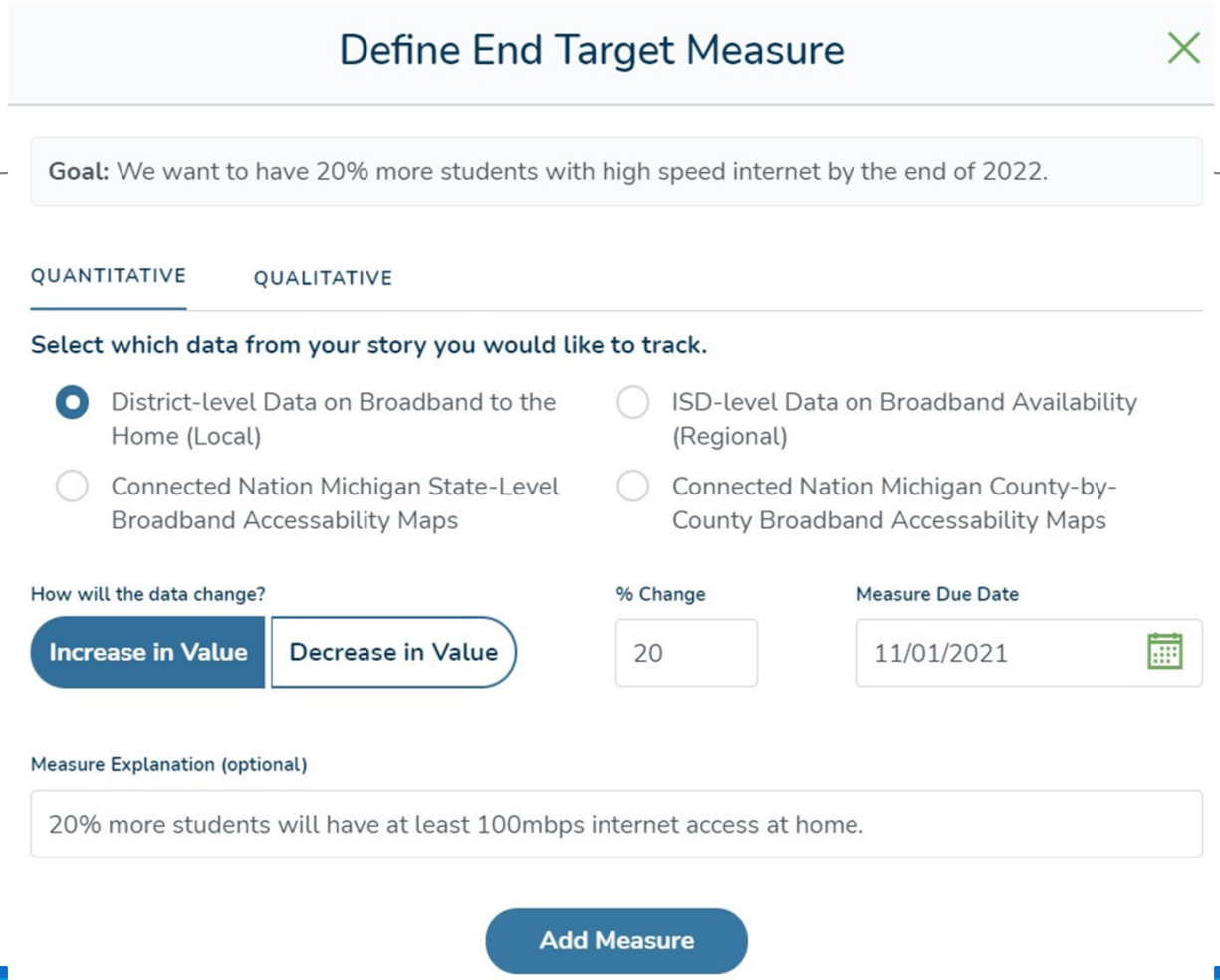

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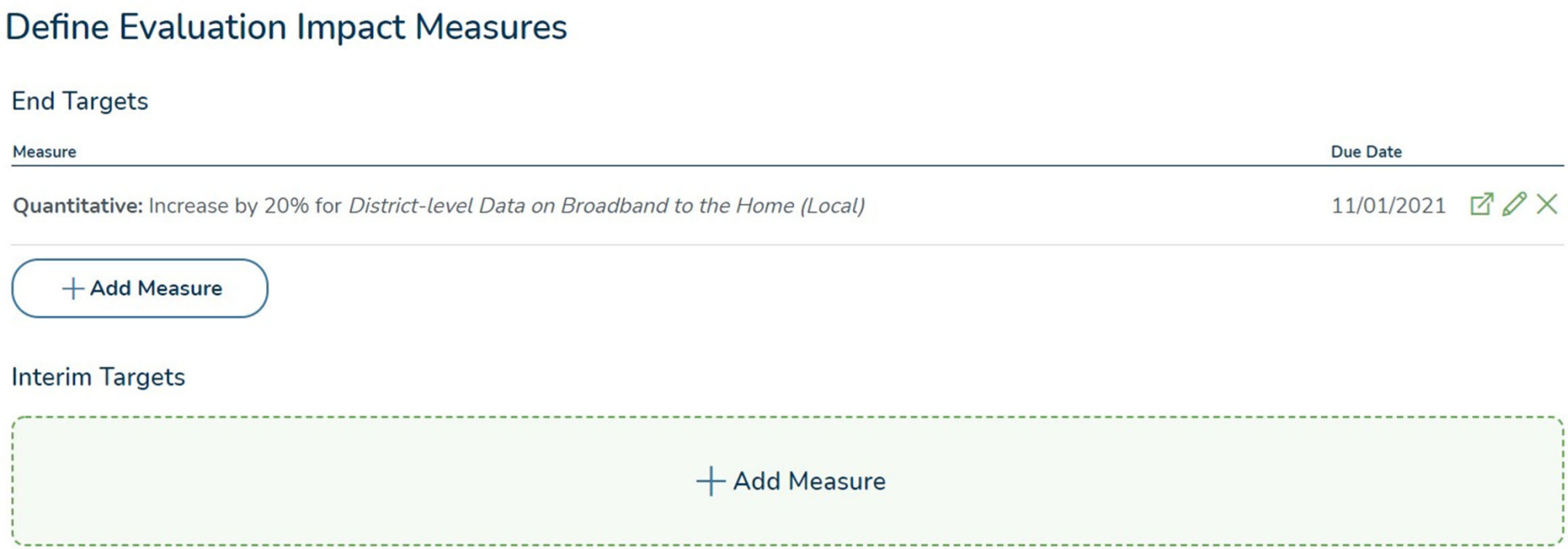

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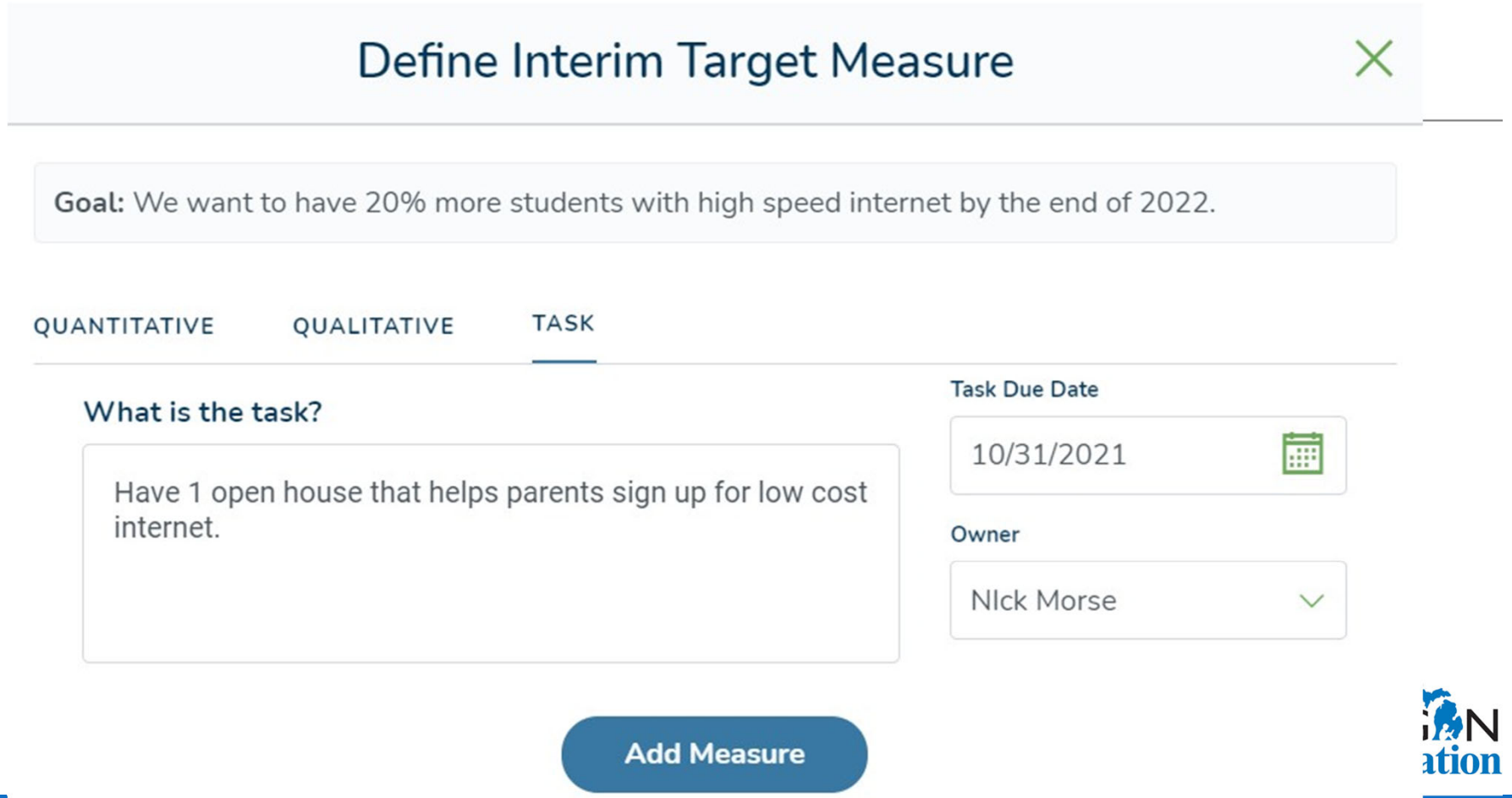


Community Connectivity - Template

Create Strategy Implementation Plan:

An assessment of off-campus connectivity from local, regional, and state perspectives. (Community Connectivity) Copy

Challenge Statement

Edit

The district needs to help more families sign up for low cost programs.

View District Data Story

Measurable Goal

Edit

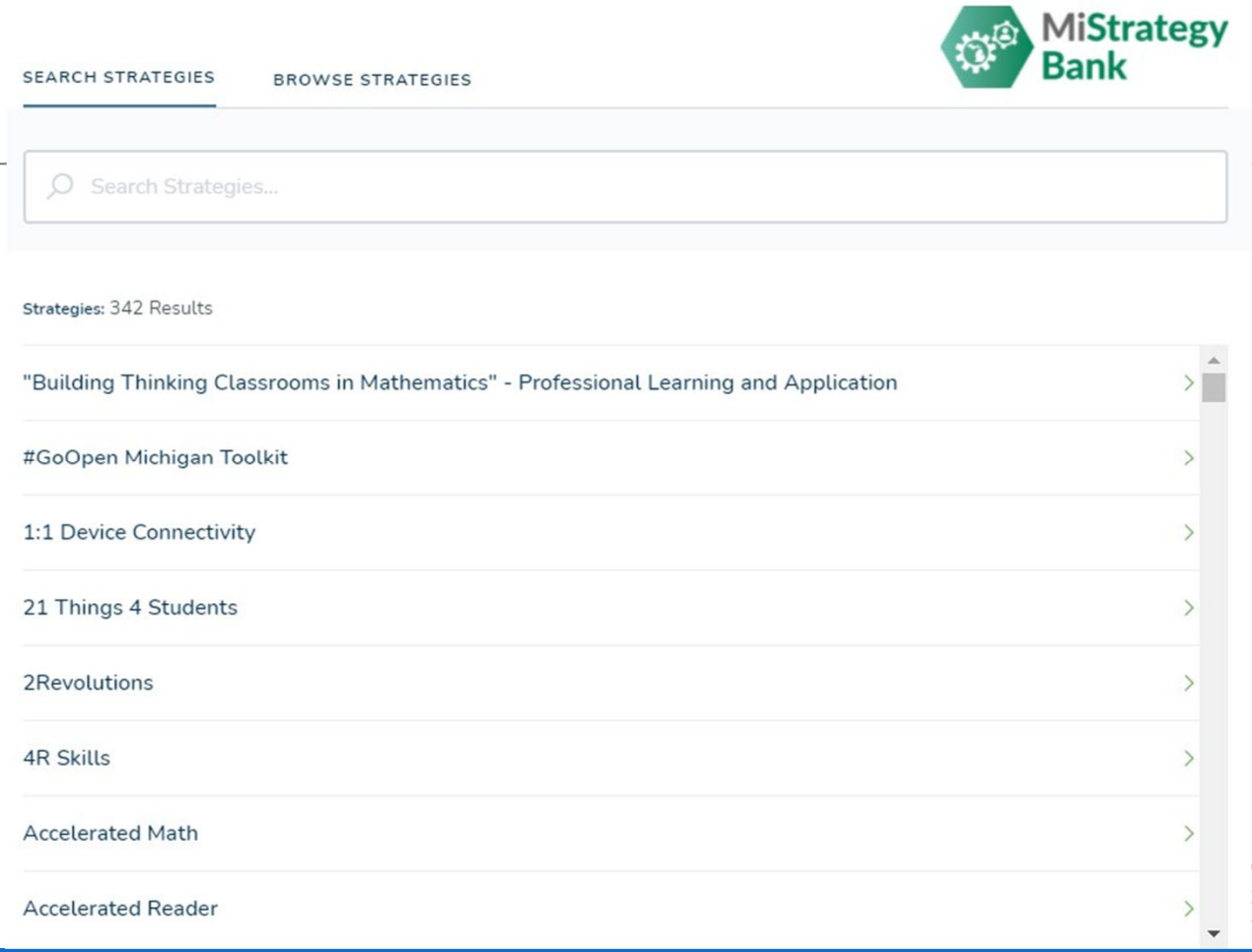
We want to have 20% more students with high speed internet by the end of 2022.

Select Strategies

What strategies can be utilized to achieve this goal?

+ Add Strategy

Community Connectivity - Template



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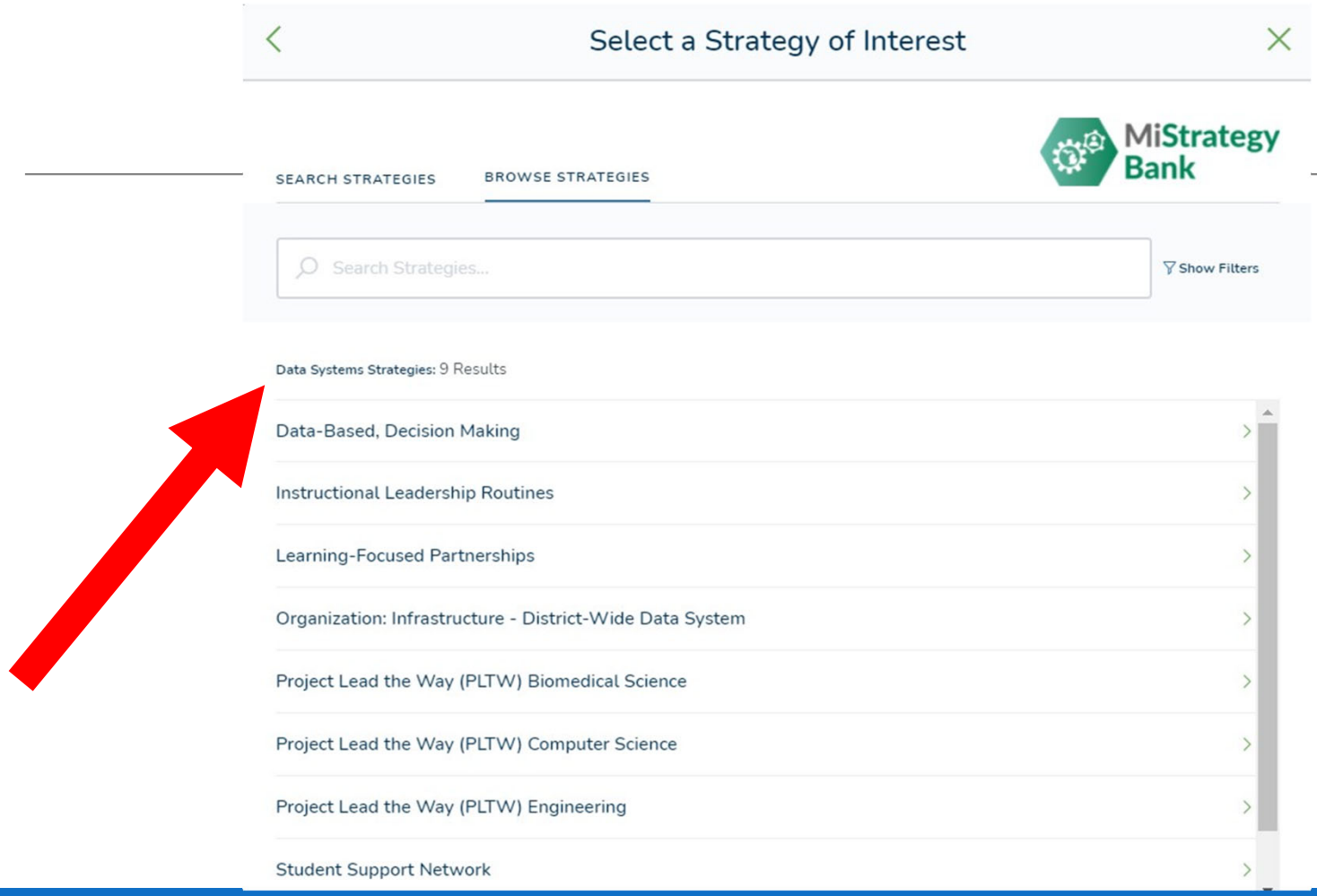

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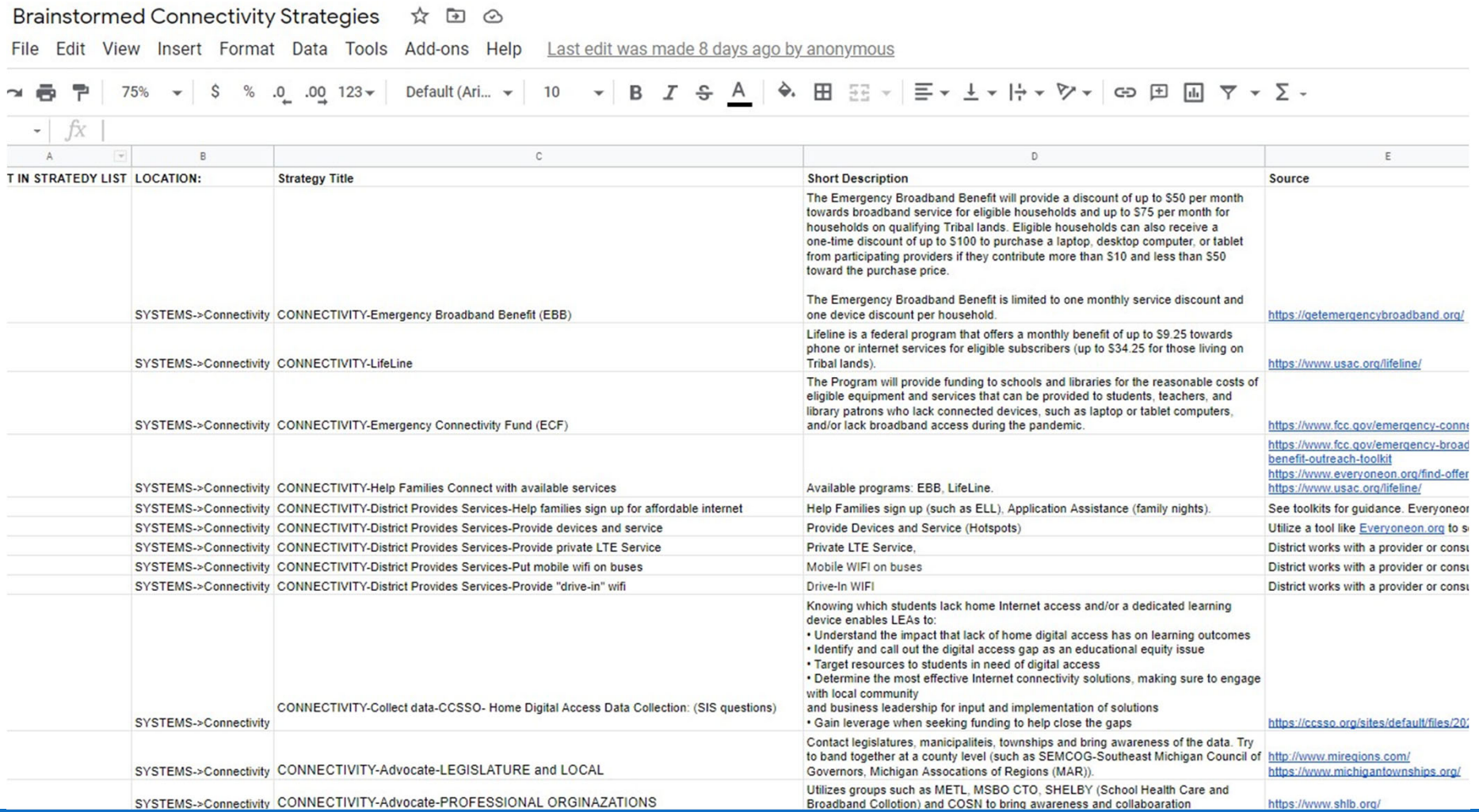

Brainstormed Connectivity Strategies

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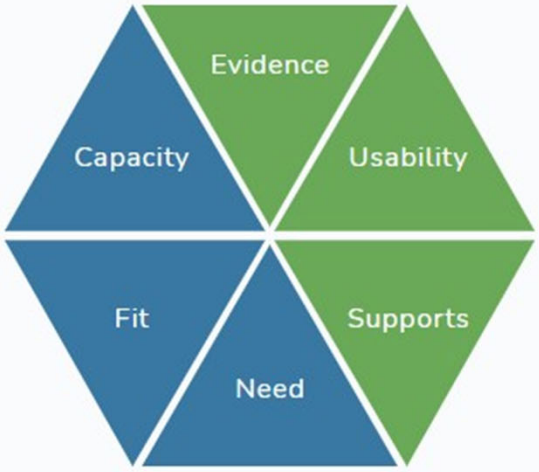
A	B	C	D	E
T IN STRATEDY LIST	LOCATION:	Strategy Title	Short Description	Source
	SYSTEMS->Connectivity	CONNECTIVITY-Emergency Broadband Benefit (EBB)	The Emergency Broadband Benefit will provide a discount of up to $50 per month towards broadband service for eligible households and up to $75 per month for households on qualifying Tribal lands. Eligible households can also receive a one-time discount of up to $100 to purchase a laptop, desktop computer, or tablet from participating providers if they contribute more than $10 and less than $50 toward the purchase price. The Emergency Broadband Benefit is limited to one monthly service discount and one device discount per household.	https://getemergencybroadband.org/
	SYSTEMS->Connectivity	CONNECTIVITY-LifeLine	Lifeline is a federal program that offers a monthly benefit of up to $9.25 towards phone or internet services for eligible subscribers (up to $34.25 for those living on Tribal lands).	https://www.usac.org/lifeline/
	SYSTEMS->Connectivity	CONNECTIVITY-Emergency Connectivity Fund (ECF)	The Program will provide funding to schools and libraries for the reasonable costs of eligible equipment and services that can be provided to students, teachers, and library patrons who lack connected devices, such as laptop or tablet computers, and/or lack broadband access during the pandemic.	https://www.fcc.gov/emergency-conne
	SYSTEMS->Connectivity	CONNECTIVITY-Help Families Connect with available services	Available programs: EBB, LifeLine.	https://www.fcc.gov/emergency-broad benefit-outreach-toolkit https://www.everyoneon.org/find-offer https://www.usac.org/lifeline/
	SYSTEMS->Connectivity	CONNECTIVITY-District Provides Services-Help families sign up for affordable internet	Help Families sign up (such as ELL), Application Assistance (family nights).	See toolkits for guidance. Everyoneor
	SYSTEMS->Connectivity	CONNECTIVITY-District Provides Services-Provide devices and service	Provide Devices and Service (Hotspots)	Utilize a tool like Everyoneon.org to s
	SYSTEMS->Connectivity	CONNECTIVITY-District Provides Services-Provide private LTE Service	Private LTE Service,	District works with a provider or consu
	SYSTEMS->Connectivity	CONNECTIVITY-District Provides Services-Put mobile wifi on buses	Mobile WIFI on buses	District works with a provider or consu
	SYSTEMS->Connectivity	CONNECTIVITY-District Provides Services-Provide "drive-in" wifi	Drive-In WIFI	District works with a provider or consu
	SYSTEMS->Connectivity	CONNECTIVITY-Collect data-CCSSO- Home Digital Access Data Collection: (SIS questions)	Knowing which students lack home Internet access and/or a dedicated learning device enables LEAs to: • Understand the impact that lack of home digital access has on learning outcomes • Identify and call out the digital access gap as an educational equity issue • Target resources to students in need of digital access • Determine the most effective Internet connectivity solutions, making sure to engage with local community and business leadership for input and implementation of solutions • Gain leverage when seeking funding to help close the gaps	https://ccsso.org/sites/default/files/20
	SYSTEMS->Connectivity	CONNECTIVITY-Advocate-LEGISLATURE and LOCAL	Contact legislatures, manicipaliteis, townships and bring awareness of the data. Try to band together at a county level (such as SEMCOG-Southeast Michigan Council of Governors, Michigan Assocations of Regions (MAR)).	http://www.miregions.com/ https://www.michigantownships.org/
	SYSTEMS->Connectivity	CONNECTIVITY-Advocate-PROFESSIONAL ORGINAZATIONS	Utilizes groups such as METL, MSBO CTO, SHELBY (School Health Care and Broadband Collotion) and COSN to bring awareness and collaboaration	https://www.shlb.org/

Community Connectivity - Template

Description

Designed for educators who want to learn more about the Michigan eLibrary, MeL's EduPaths courses provide information about the eResources and support for the integration of MeL content into curriculum planning and instruction.



Learn More

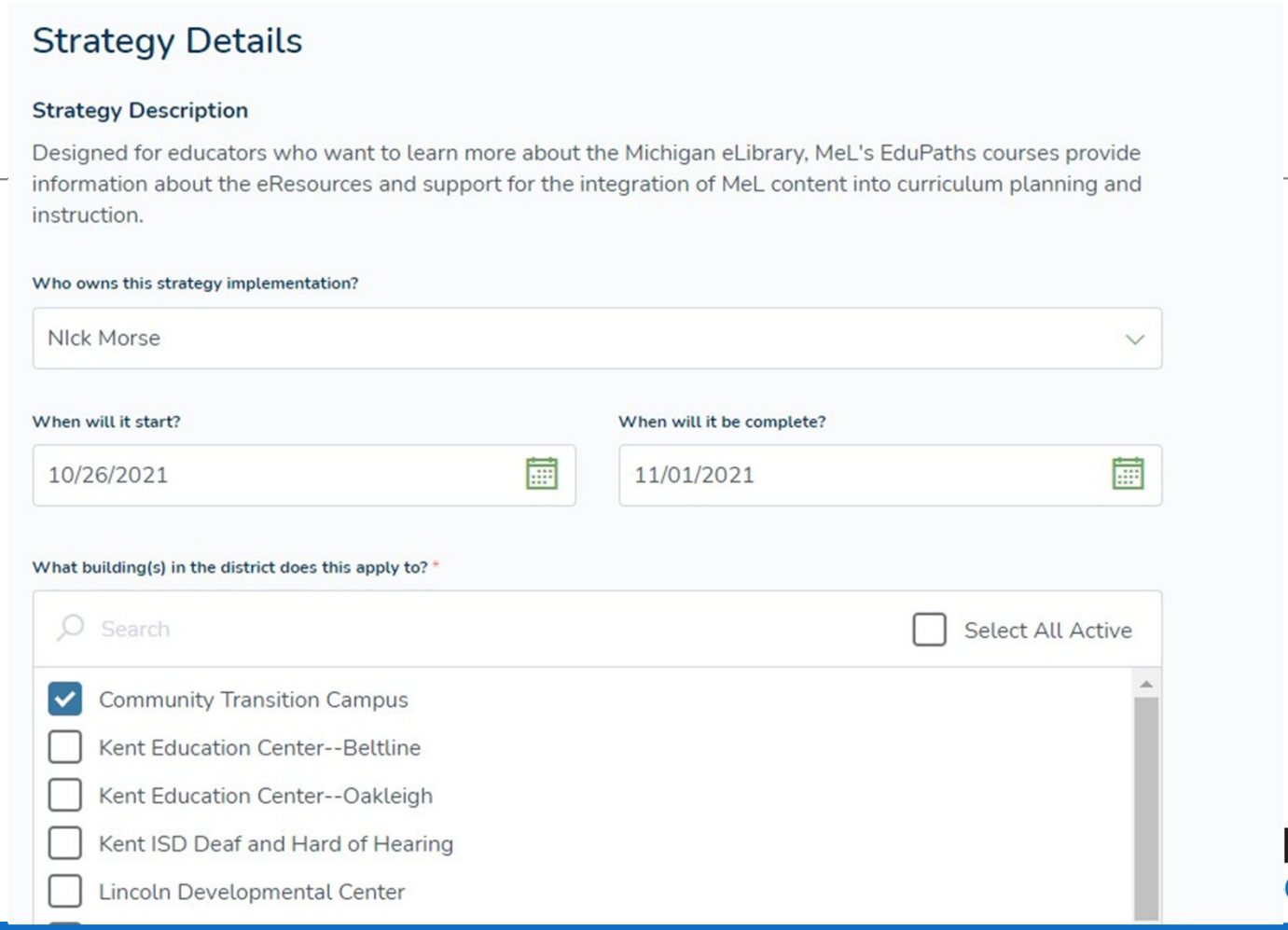
Selection Considerations

Rate each category based on the current state of the district. Rating is based on a five point scale, with 5 being great and 1 poor. Click the wedges in the hexagon to learn more about each segment.

Evidence:	1	2	**3**	4	5	Need:	1	2	3	**4**	5
Usability:	1	2	3	**4**	5	Fit:	1	2	3	**4**	5
Supports:	1	2	3	**4**	5	Capacity:	1	2	3	**4**	5

Include in Strategy Implementation Plan

Community Connectivity - Template



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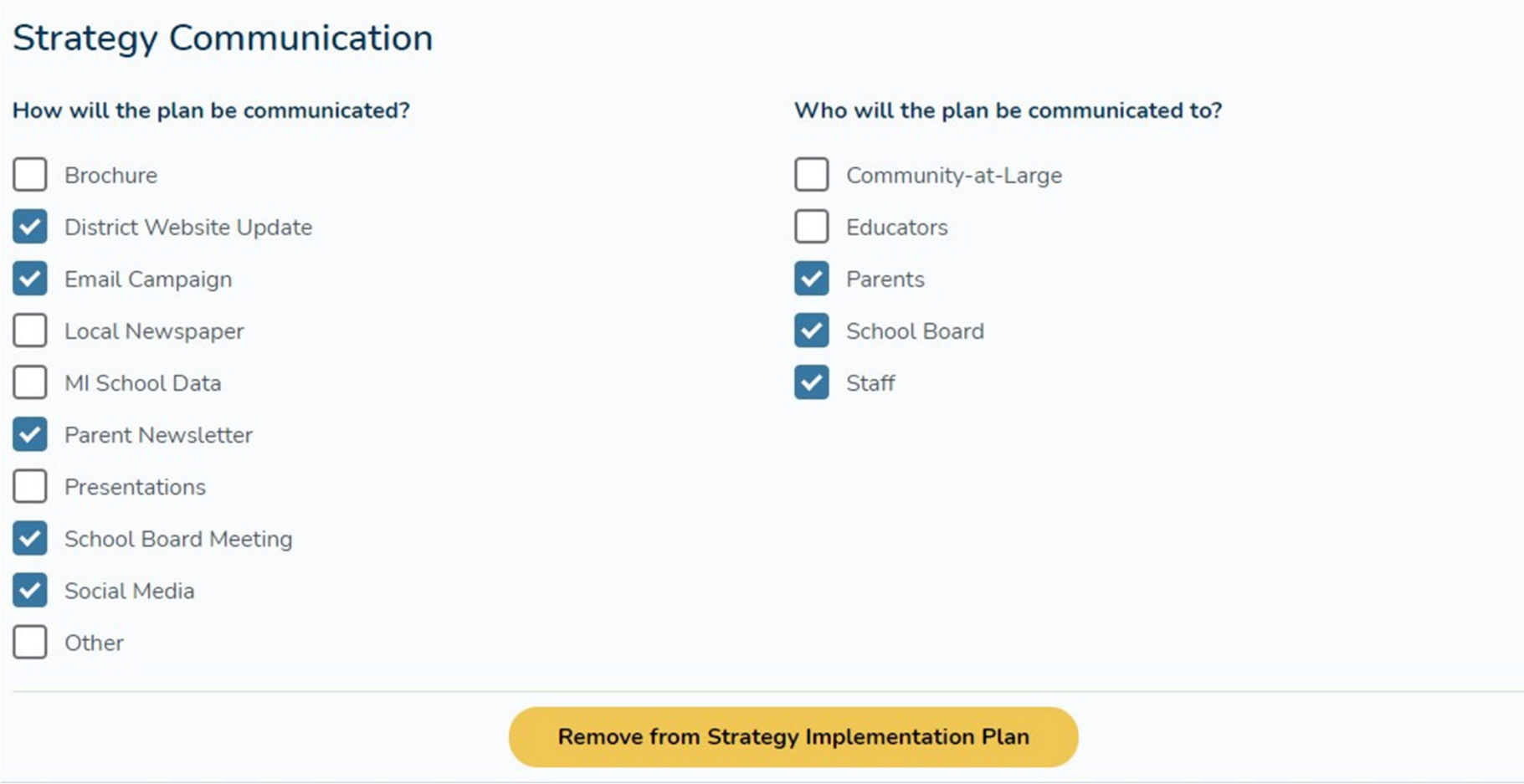

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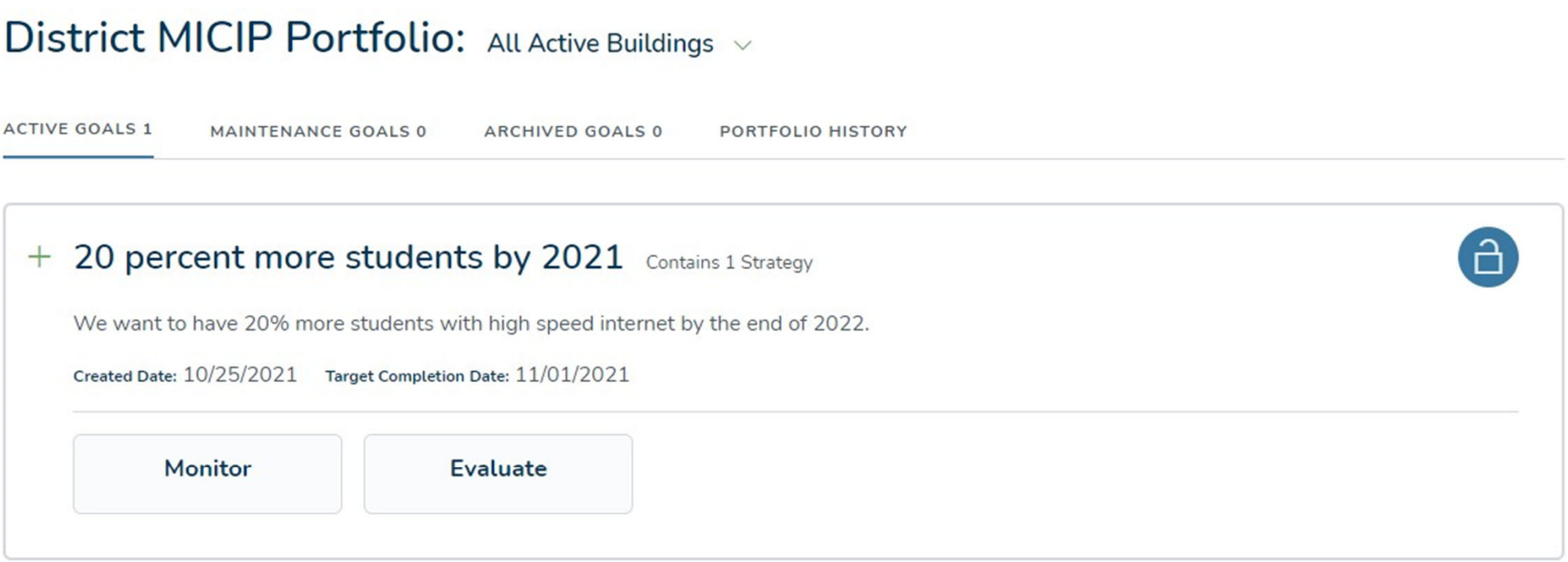

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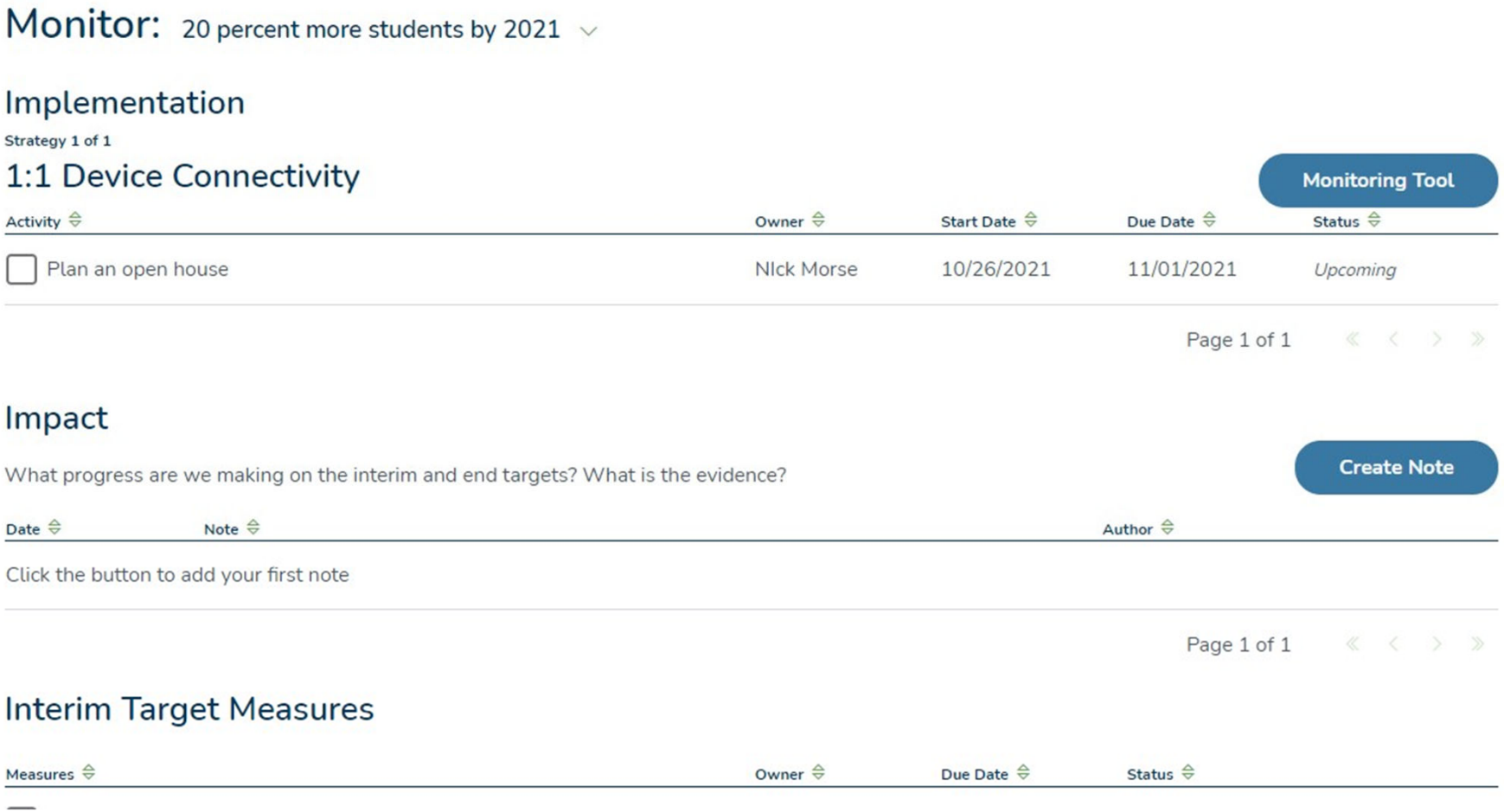


Community Connectivity - Template

Evaluate Goal : 20 percent more students by 2021

Challenge Statement

Edit

The district needs to help more families sign up for low cost programs.

View District Data Story

Measurable Goal

Edit

We want to have 20% more students with high speed internet by the end of 2022.

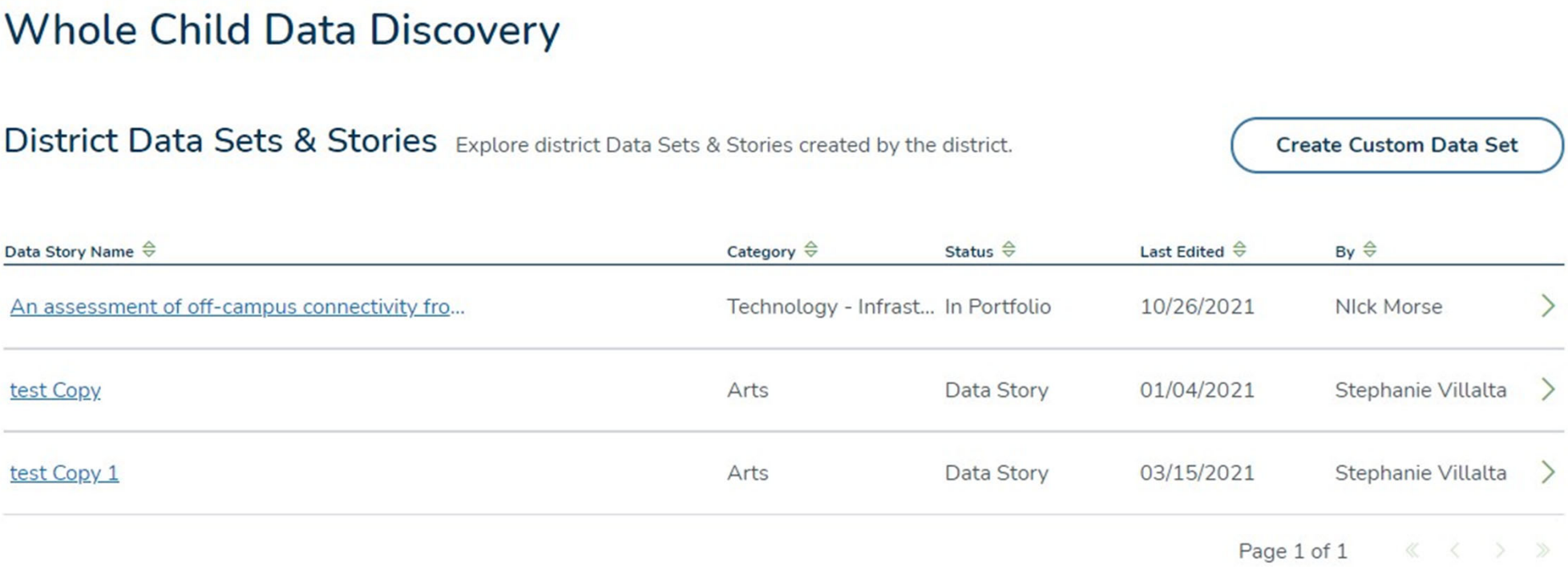
Interim Target Measures

Measures	Owner	Due Date	Status
☐ Have 1 open house that helps parents sign up for low cost internet.	NIck Morse	10/31/2021	Approaching

End Target Measures

Measures	Owner	Due Date	Status
☐ Increase by 20% for District-level Data on Broadband to the Home (Local)		11/01/2021	Approaching

Community Connectivity - Template



Technology Professionals and the Continuous Improvement (C.I.) Process

LEARNING TARGETS:

- WHY should technology representatives representatives should be at the table from the start
- HOW/WHAT of the CI process and MICIP for Technology Planning

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Q & A

- How involved are Technology Leaders in the CI process in your district?
- What can share with MDE & Technology Leaders regarding the CI Mindset, Process, and Platform to promote awareness and use (and make your life easier)?
- Do your Technology Leaders have the capacity to be involved in the CI process?