

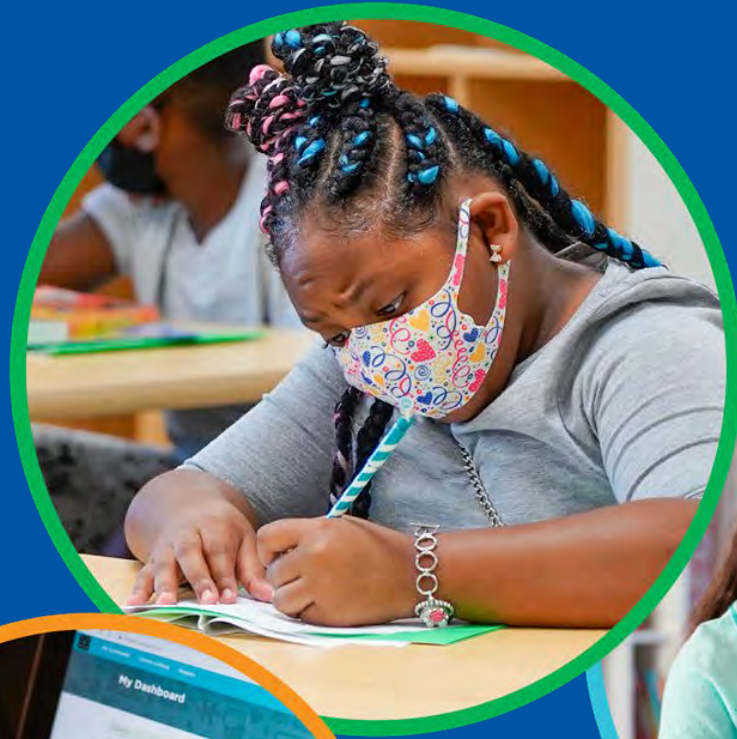
Board Presentation

October 5, 2020

BACKPACKS ON

LAPTOPS OPEN

FUTURES
BRIGHT!



PREPARING STUDENTS
FOR LIFE



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FOR LIFE

**Superintendent
Laura Mitchell**

Introduction



Standards



Data



Reality



Good news



We are ready for in-person learning





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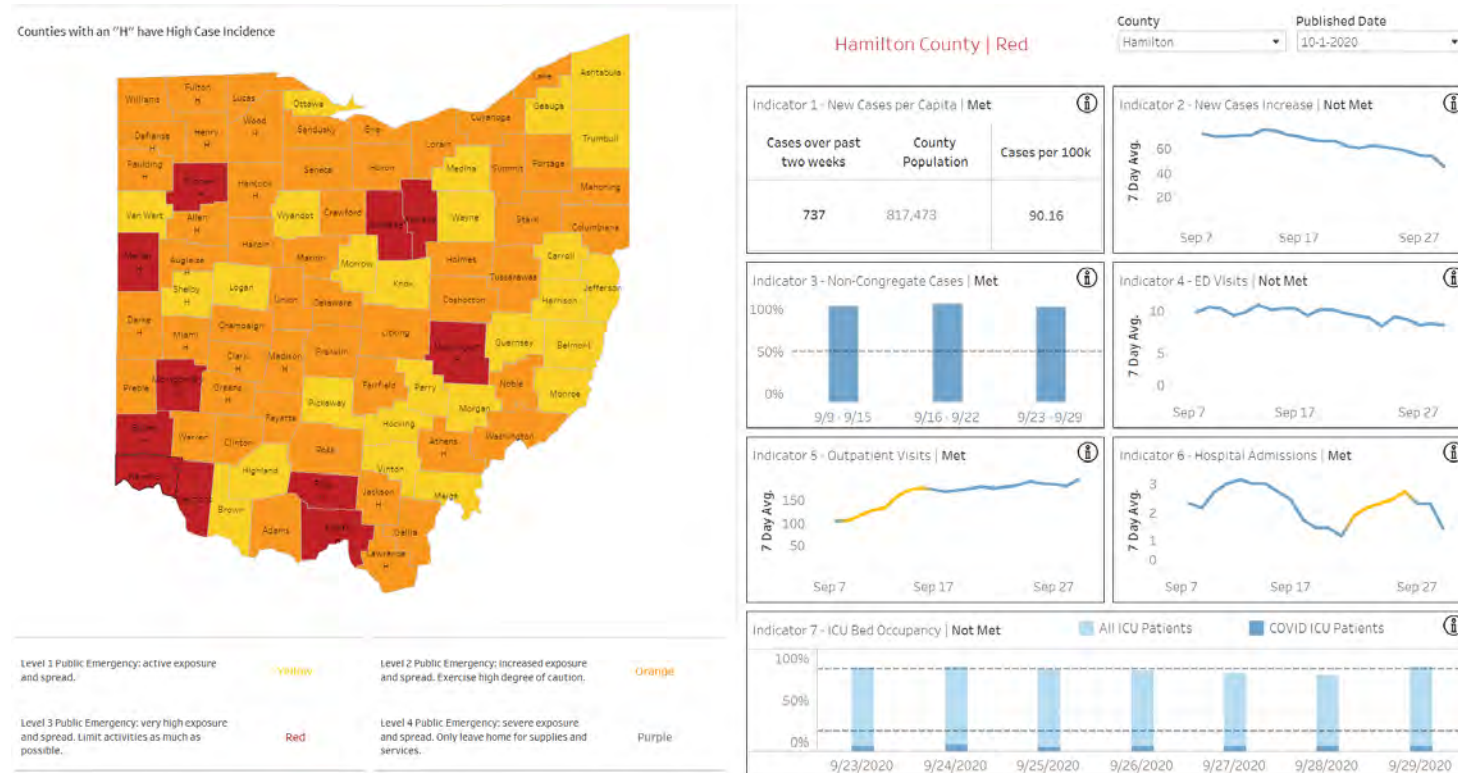
**Sarah
Trimble-Oliver**



Safety and Community Health Update

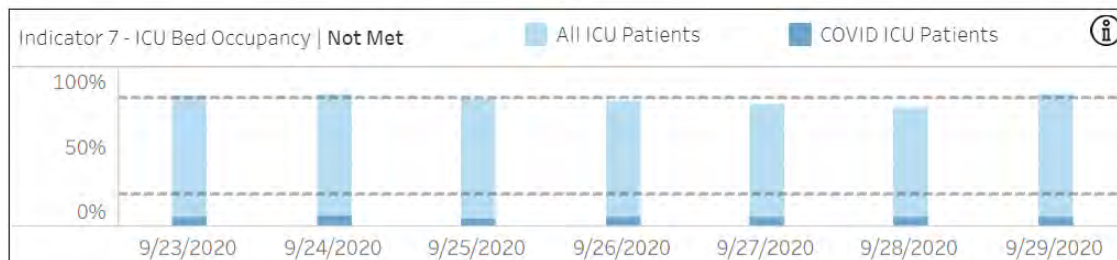
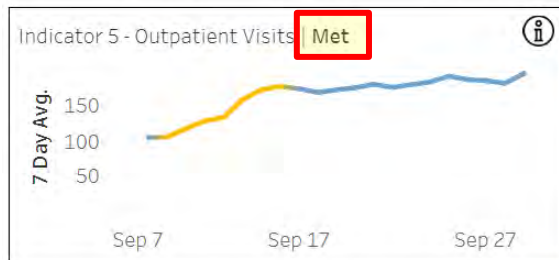
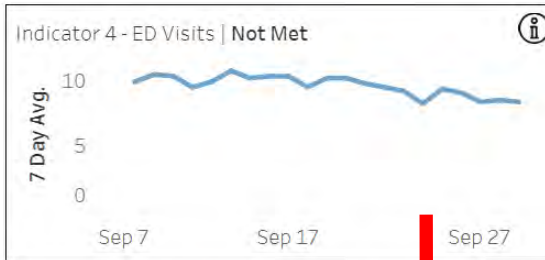
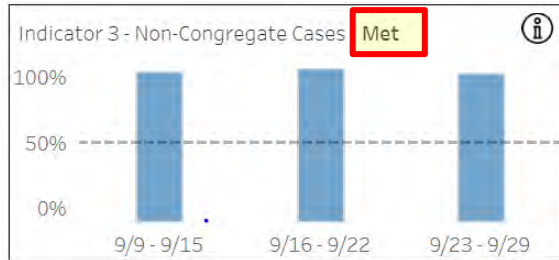
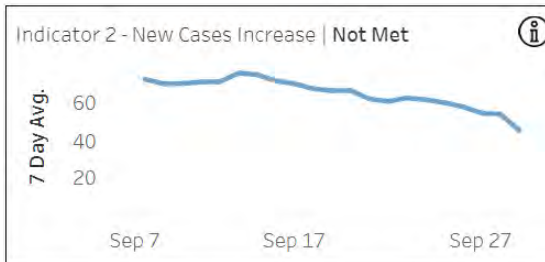
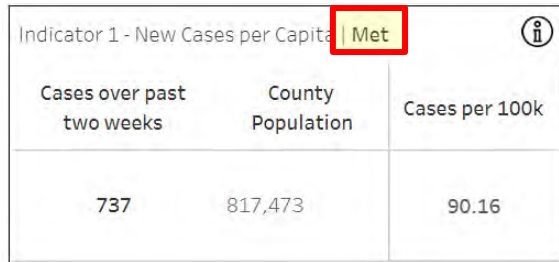
Community Trends

Hamilton County Alert Level as of October 1, 2020



Source: Ohio Public Health Advisory System

<https://coronavirus.ohio.gov/wps/portal/gov/covid-19/public-health-advisory-system>

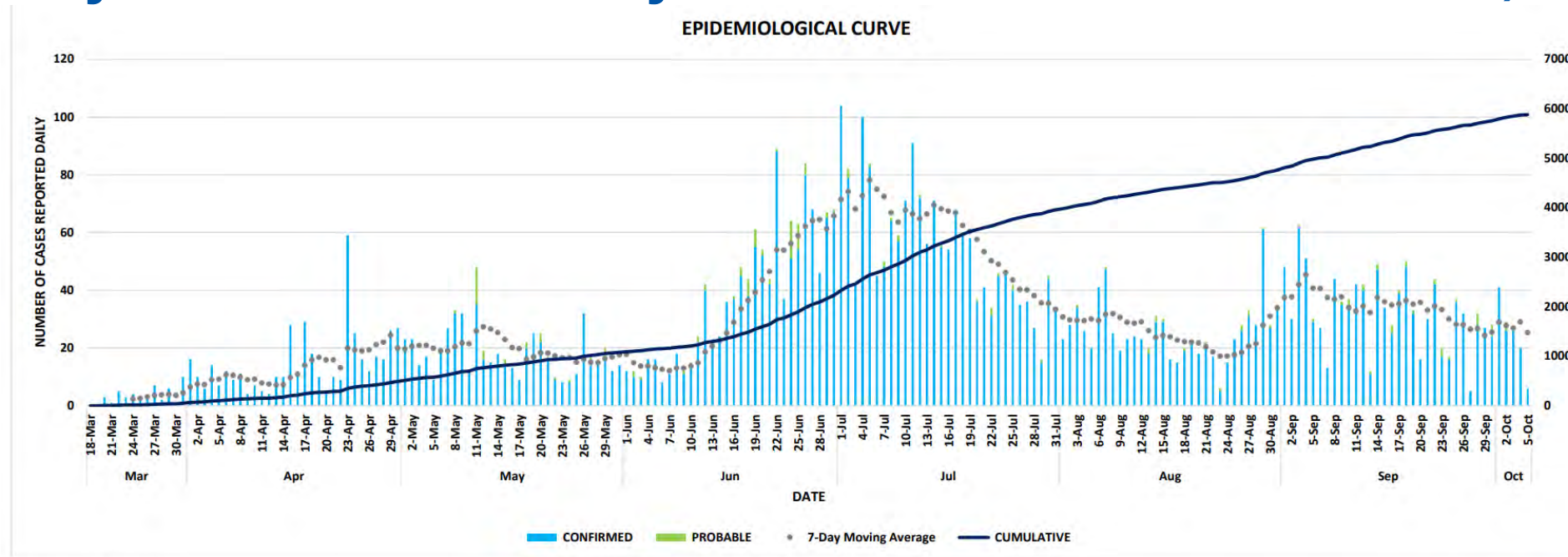


Summary of Alert Indicators

INDICATOR	WHAT IT TELLS US
1 New cases per capita	Flagged if greater than 50 cases per 100,000 residents over the last two weeks. Allows for counties with different population sizes to be appropriately compared.
2 Sustained increase in new cases	Flagged if increasing trend of at least 5 consecutive days in overall cases by onset date over the last 3 weeks. Reflects disease spread in the population.
3 Proportion of cases not in a congregate setting	Flagged if proportion of cases that are not in a congregate setting goes over 50% in at least one of the last 3 weeks. Used as indicator of greater risk of community spread.
4 Sustained increase in Emergency Department (ED) visits for COVID-like illness	Flagged if increasing trend of at least 5 consecutive days in the number of visits to the emergency department with COVID-like illness or a diagnosis over the last 3 weeks. Provides information on the health care seeking behavior of the population and a sense of how concerned residents are about their current health status and the virus.
5 Sustained increase in outpatient visits for COVID-like illness	Flagged if increasing trend of at least 5 consecutive days in the number of people going to a health care provider with COVID symptoms who then receive a COVID confirmed or suspected diagnosis over the last 3 weeks. Provides information on the health care seeking behavior of the population and a sense of how concerned residents are about their current health status and the virus.
6 Sustained increase in new COVID hospital admissions	Flagged if increasing trend of at least 5 consecutive days in the number of new hospitalizations due to COVID over the last 3 weeks. Important indicator of hospital burden and disease severity.
7 Intensive Care Unit (ICU) bed occupancy	Flagged if percentage of the occupied ICU beds in each region goes above 80% for at least three days in the last week, AND more than 20% of ICU beds are being used for COVID-19 positive patients for at least three days in the last week. Provides an indication of the capacity available to manage a possible surge of severely ill patients.

Community Trends

City of Cincinnati Daily New Cases as of October 5, 2020



UPDATED 10/5/2020 9:30am

*DATA IS PROVISIONAL CONTINGENT UPON COMPLETION OF CONTACT TRACING AND CONFIRMATION OF JURISDICTIONAL RESIDENCE

**IN ACCORDANCE WITH THE NEW CDC GUIDELINES, THE CDC EXPANDED (PROBABLE) CASE DEFINITION IS INCLUDED IN THIS REPORT. SEE: <https://www.cdc.gov/coronavirus/2019-ncov/covid-data/faq-surveillance.html>

***NUMBER OF INDIVIDUALS ACTIVELY MONITORED IS AN ESTIMATE, SUBJECT TO CHANGE

STATE DATA SOURCE: OHIO DISEASE REPORTING SYSTEM (ODRS)

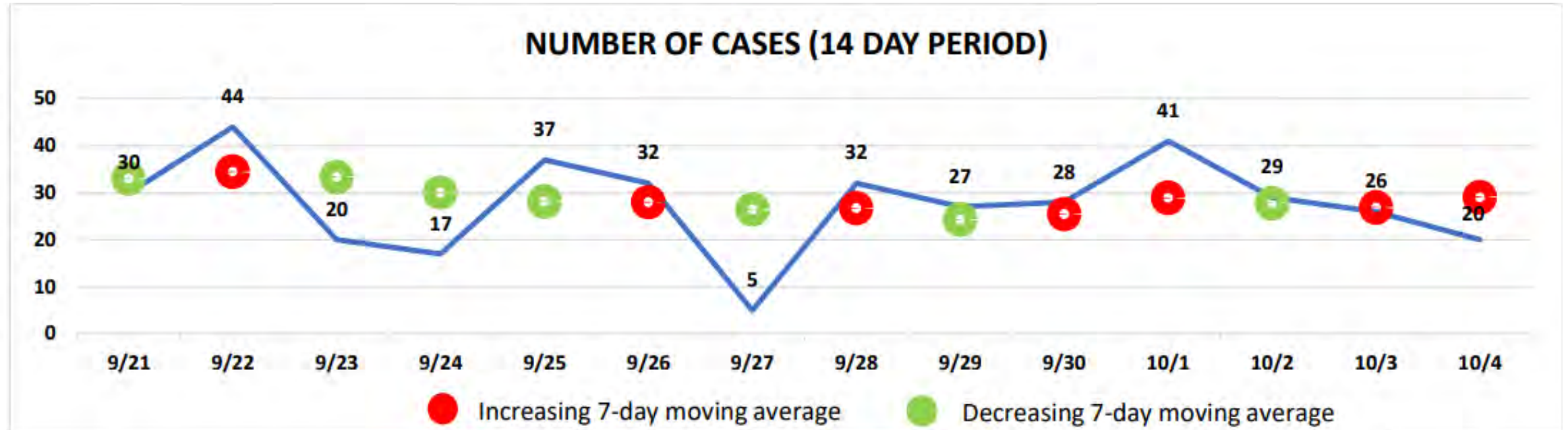


Source: City of Cincinnati COVID-19 Dashboard

<https://www.cincinnati-oh.gov/covid19/interactive-map/>

Community Trends

Number of Cases as of October 5, 2020

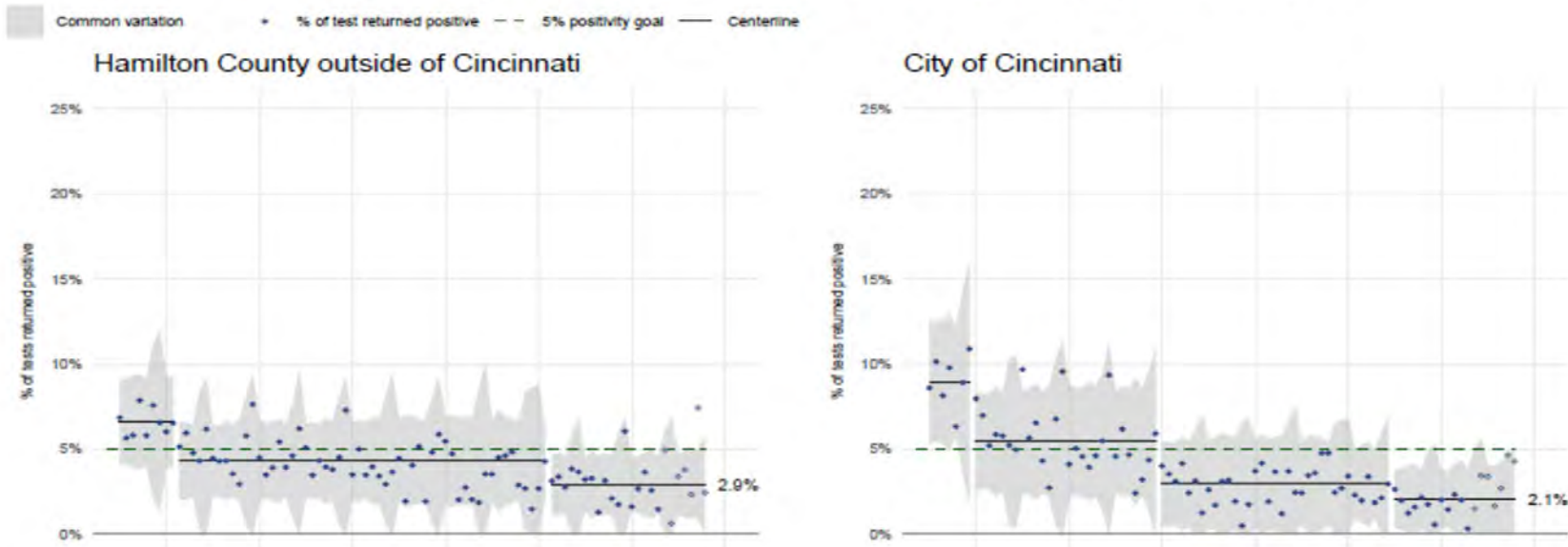


Source: City of Cincinnati COVID-19 Dashboard
<https://www.cincinnati-oh.gov/covid19/interactive-map/>

Community Trends

Positivity Rate as of October 5, 2020

Positivity rate and tests per 100,000 people for Hamilton County and City of Cincinnati



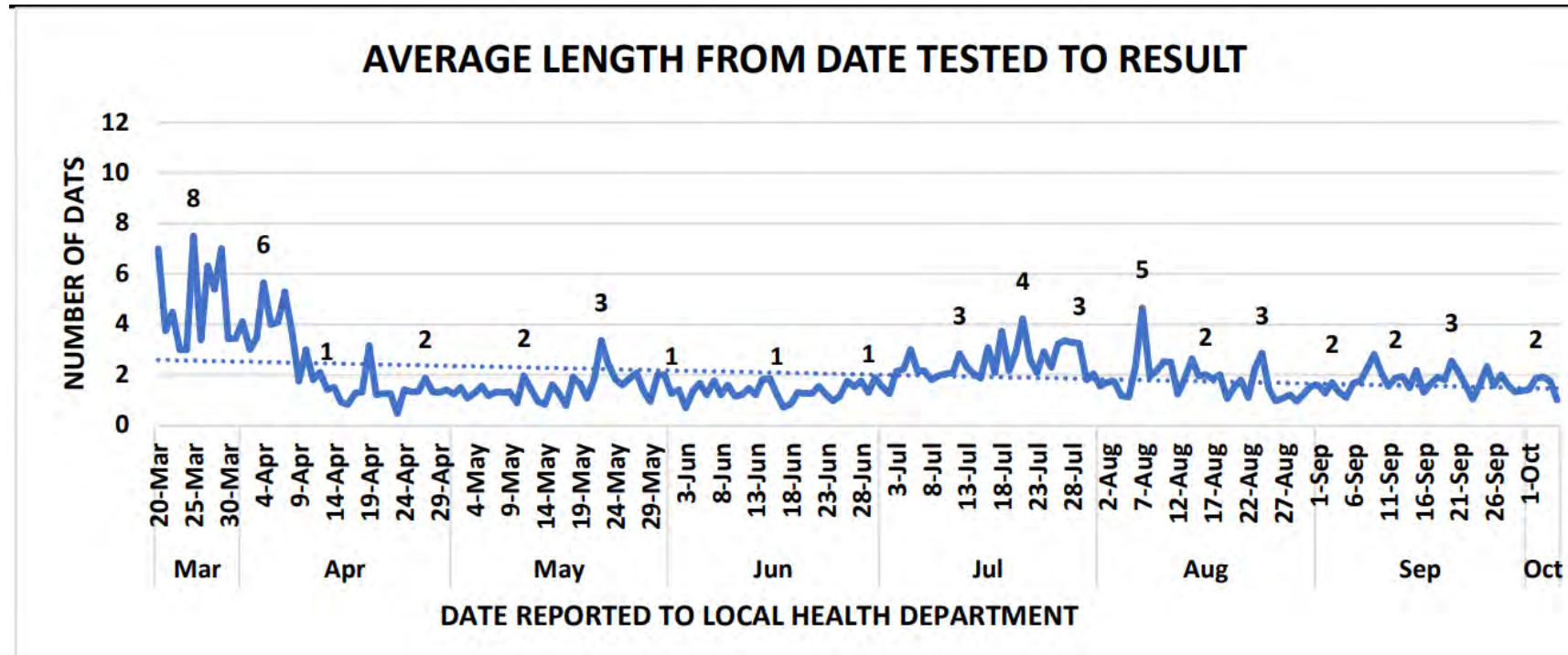
Open circles indicate points highly subject to change. Location is based on address provided to the lab.

Source: The Health Collaborative data as of 10/4/2020

Source: The Health Collaborative — <https://www.cincinnati-oh.gov/health/covid-19/covid-19-measures-to-inform-school-district-decisions/>

Community Trends

Average Length from Date Tested to Result as of October 5, 2020



Source: City of Cincinnati COVID-19 Dashboard
<https://www.cincinnati-oh.gov/covid19/interactive-map/>

More Flexibility When in Red per Ohio Public Health Advisory System

Urban Ohio Example: Cleveland

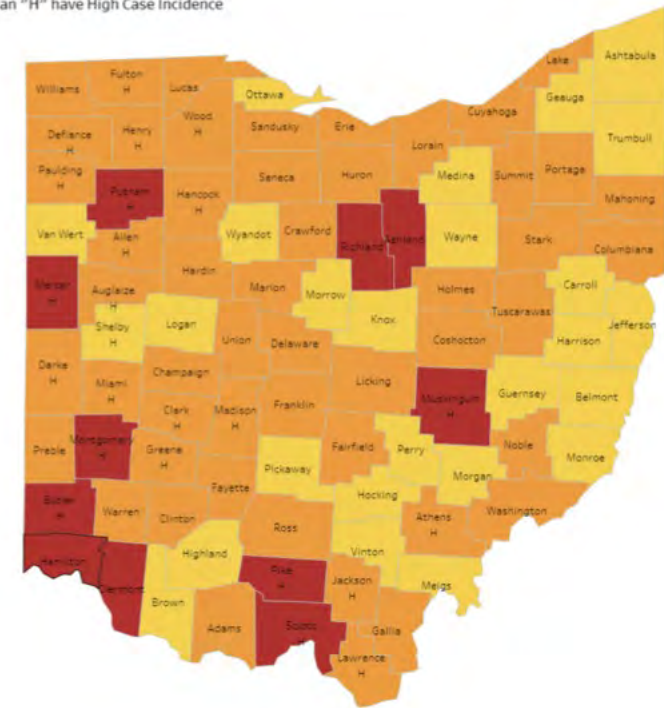
Purple = all distance

Red = distance *or* blended

Orange = blended

Yellow = in-person

Counties with an "H" have High Case Incidence





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Laura Mitchell**



Blended Learning

Phase-In to Blended Learning

Week of October 12

- **Preschool and Specialized Classrooms** will return at 100 percent capacity
- **Grades K-2; Montessori 3rd Grade** – A and B return at 100 percent capacity
- **Grades 7-8** – A and B return at 100 percent capacity

Week of October 19

- **Grades 3-6** – A and B return at 100 percent capacity
- **Grades 9-12** – A and B return at 100 percent capacity

Walnut Hills continues in distance learning due to smaller classrooms and high enrollment



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Jeremy Gollihue

Infrastructure: School-based Distance Option



IT Infrastructure

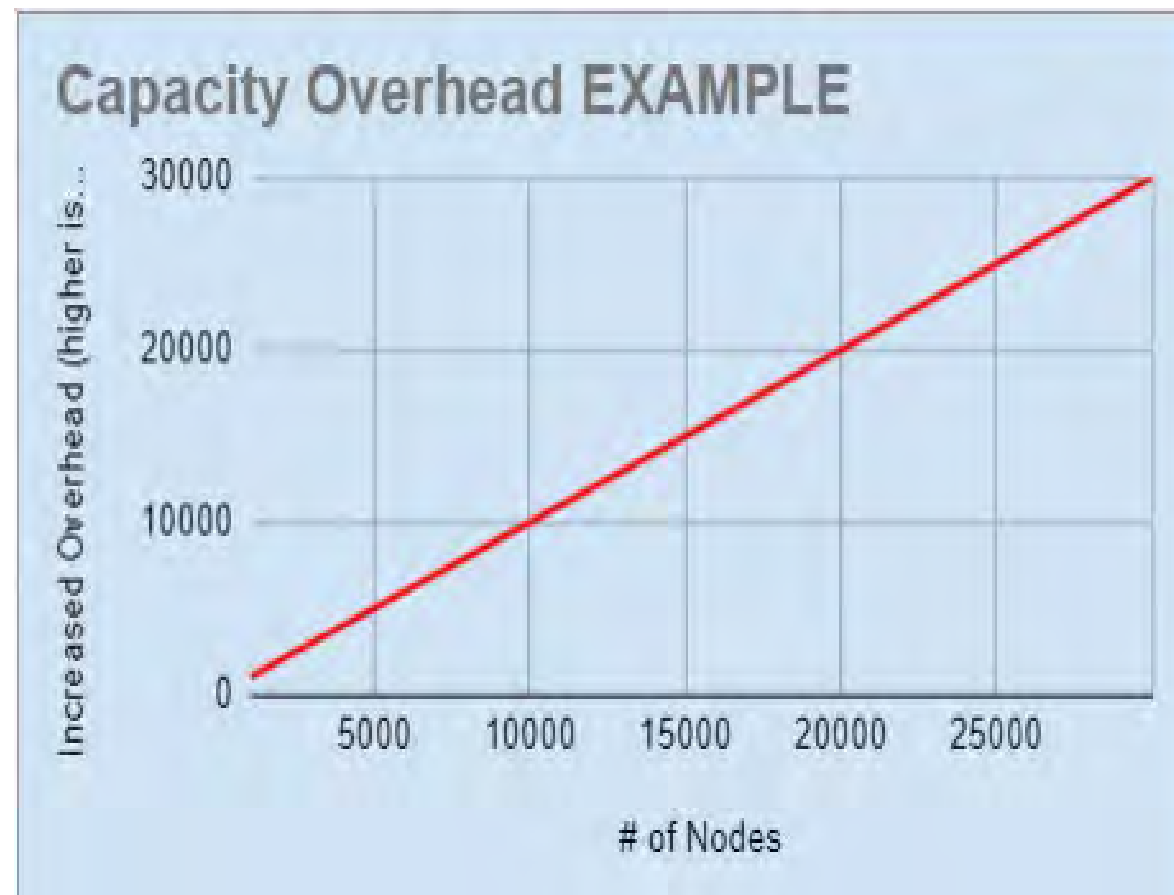
...Imagine a bridge

- ~36,000 Students and 6,000 Staff — daily cars.
- Currently, all of those cars are gone, and we gave teachers large trucks to do Google Meets so now the bridge is full of trucks!
- We can't return the cars (students) back without reducing the amount of trucks to make capacity.



Capacity Scaling

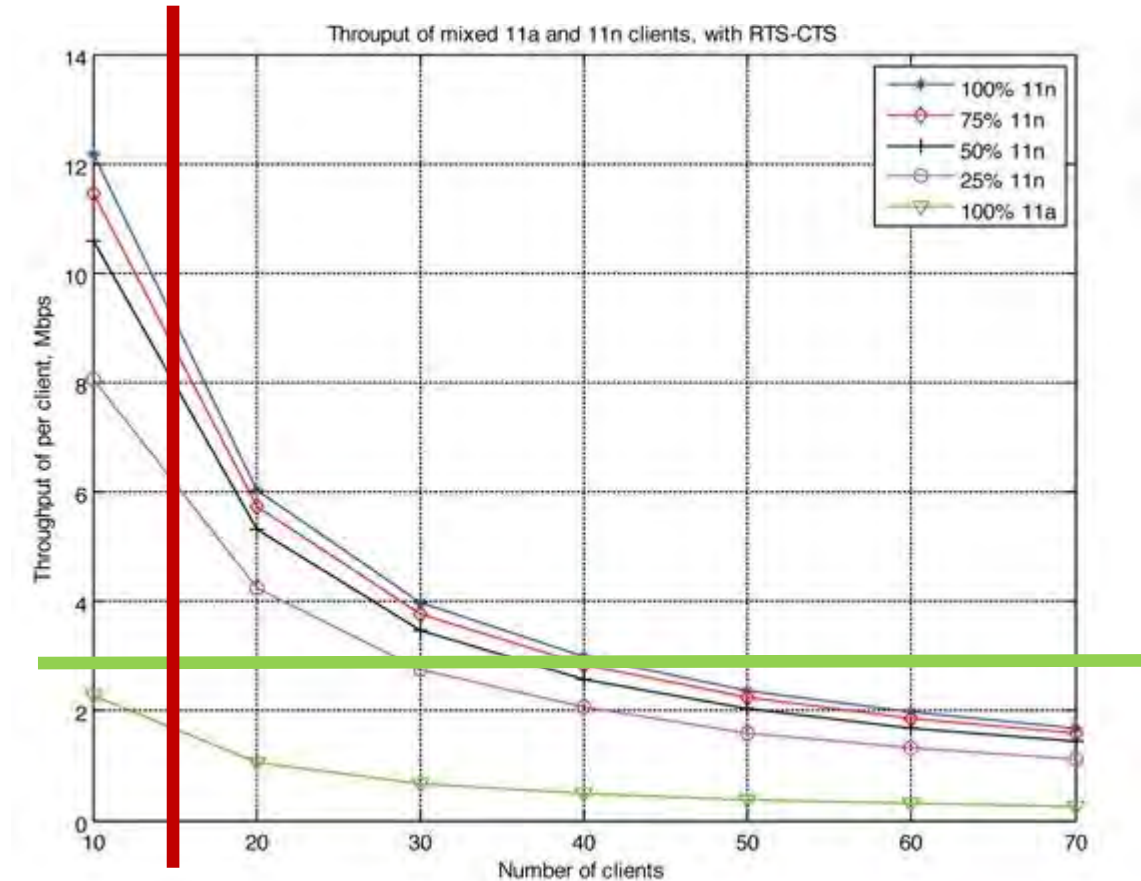
- Network overhead refers to the loss of capacity due to the costs within the system of using the system. “The cost of doing business”
- Overhead directly increases by the number of ‘nodes’ utilizing the Infrastructure.
- Nodes are not just people but every device - projectors, cell phones, water flow valve and temperature sensors in HVAC systems



Capacity Scaling

Bandwidth Requirements per Application (Examples)

Application by Use Case	Nominal Throughput
Web Browsing - Instructional	1 Mbps
Streaming Audio/Music - Instructional	1 Mbps
On-demand or Streaming Video (Youtube)	1 Mbps
Stream Video Conf Instructional (Google Meet)	3-7 Mbps
Printing	1 Mbps
Online Testing	2-4 Mbps
Device Backups	10-50 Mbps

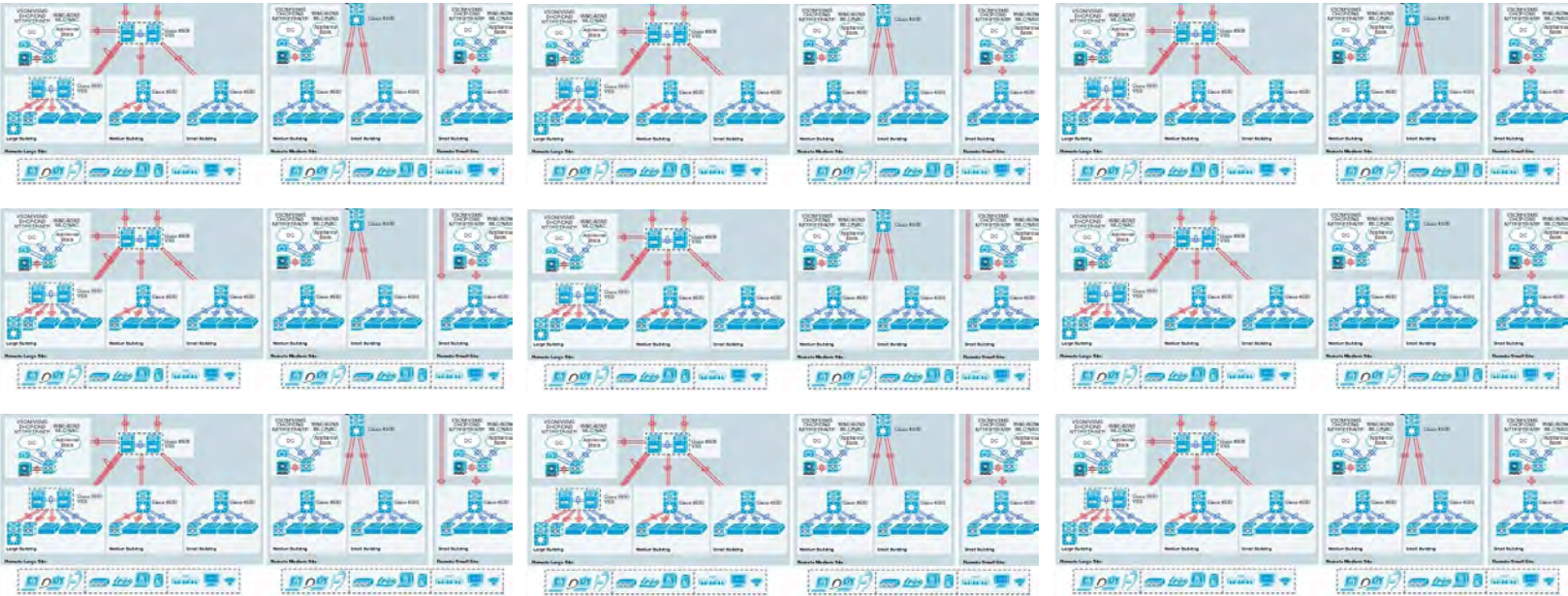
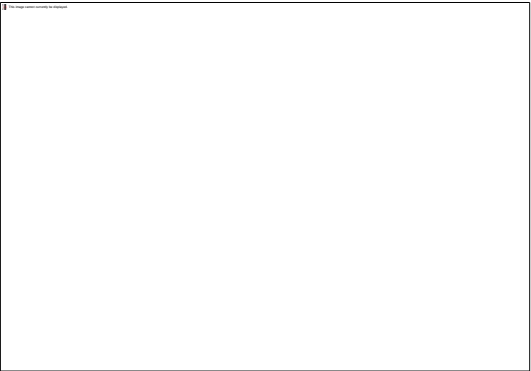
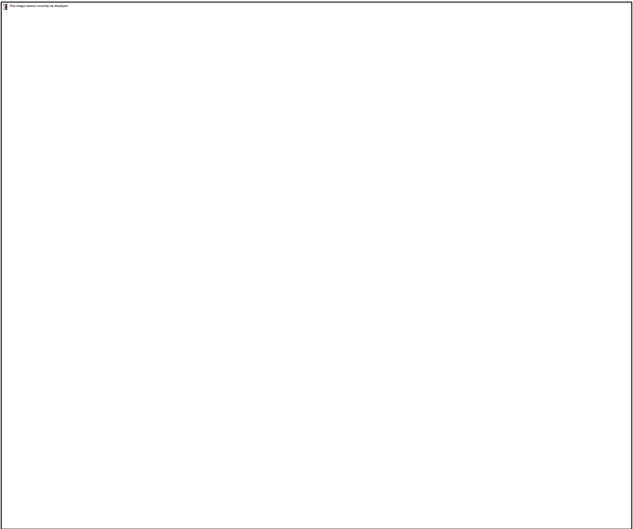


*Wireless LAN Design Guide for High Density Client Environments in Higher Education

Why can other(s) do it?

Small Enterprise (1500-6000
School/District)

CPS (50%)



*Cisco Small/Medium Enterprise Design Profile Reference Guide



Infrastructure – Balance

	No more than 25% of teachers streaming			50% of teachers streaming			75% of teachers streaming		
	10% std remote	25% std remote	50% std remote	10% std remote	25% std remote	50% std remote	10% std remote	25% std remote	50% std remote
Aiken									
AMIS									
Bond Hill									
...									
Withrow									
Woodford									
Woodward									
District-Wide									

***Important – 25% must be relatively distributed across the district**

Districtwide Distance 'Streaming' Option

At least 25% of Students must choose/be in distance only model:

~8750

Logistics beyond the tech:

- Determining number students who will return versus select the distant option
- TAC
- Do the numbers align to re-align teachers (requiring change in teachers)

Maximum 25% of teachers that can be 'Streaming' across the district:

~700

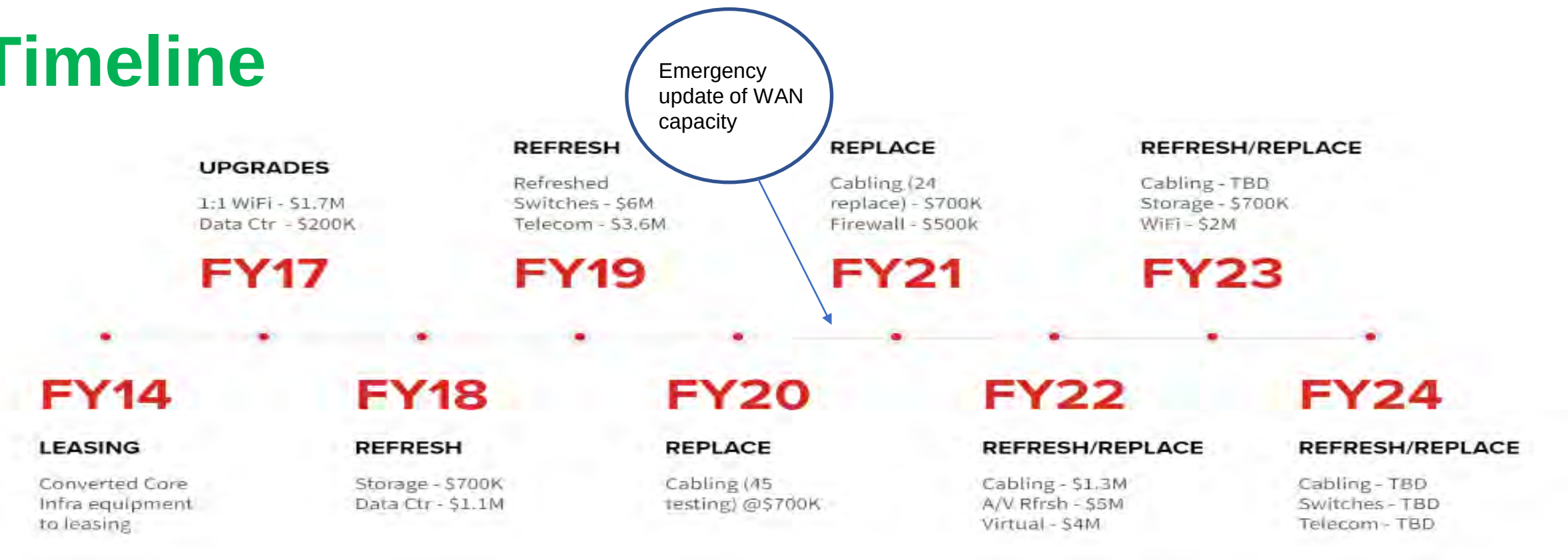
- Specialized Class Rooms
 - Up to 196
- Remaining Allocated Elementary and High Schools proportionally
- Requires utilization of A/B model for in-person and distance learners

Can we buy 'more'?

- There are hundreds of segments along the bridge that have to be evaluated in light of the entire system.
- Some segments and parts can be addressed individually and quickly; these are the things we looked at and began upgrading immediately with the closures.
- The overall infrastructure capacity is a function of strategic planning over years...



Timeline



Needed Capacity



Planned Capacity



COVID Capacity



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Tianay Amat



**Next Steps:
School-based
Distance Option**

Do we have the capacity for the bridge?

At least 25% of families want school-based distance learning

- Send a commitment form to families
 - While in A/B Blended Model - I prefer to stream into the classroom on my in-person days

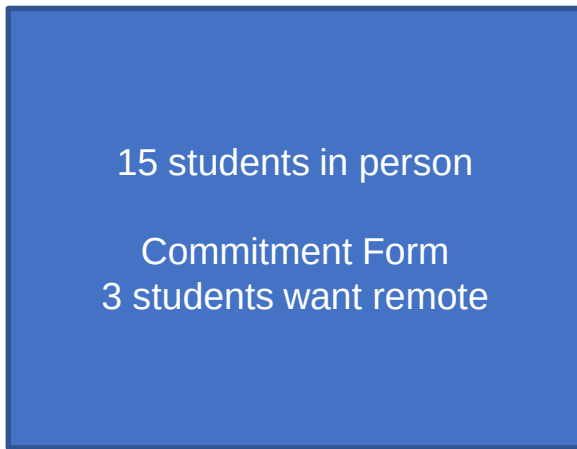
No more than 25% of teachers will be able to stream

- Review staffing and schedules

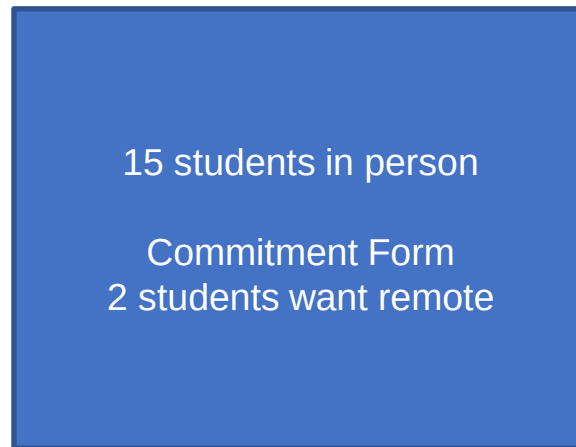
Blended Option with School-Based Distance Added

Sample 3rd Grade Classroom by Teacher – Teaching in A/B Cohorts

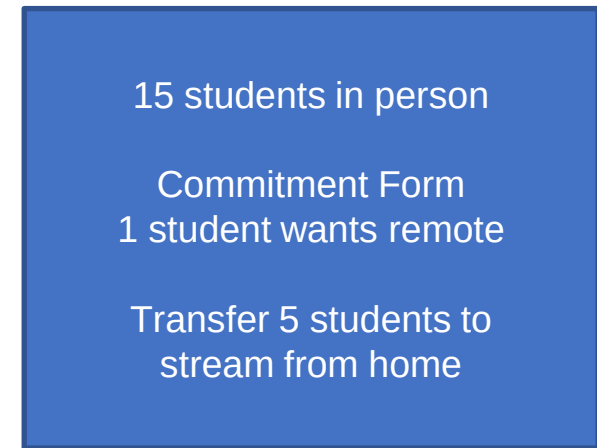
Teacher 1 - In Person



Teacher 2 - In Person



Teacher 3 - In Person and Stream



Distance-only students may move to a new teacher due to infrastructure/streaming capacity

Bridge to School-Based Distance Learning

Schedule and Resources

- Monday: Google Meet
- Tuesday - Friday: Access Schoology lessons
- Other Resources: CPS TV and distancelearning.cps-k12.org

Attendance is based on work completion and logging on to Schoology Lessons

Cincinnati Digital Academy

- Edgenuity Curriculum
- Work at your own pace
- Distance Courses from School Based Teachers
 - 7th Grade AA in ELA, Math, Science and Social Studies
 - AA in Chemistry
 - AP in Literature, Statistics, Biology and Government
 - German



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Superintendent Laura Mitchell



Prepared



Learning



Resume



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Visit **CPS-K12.ORG/NEWS/BACKTOSCHOOL**
for more information.



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