BETTER TOGETHER

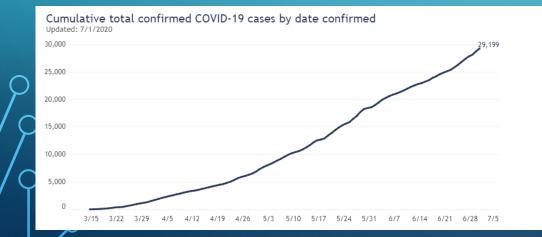
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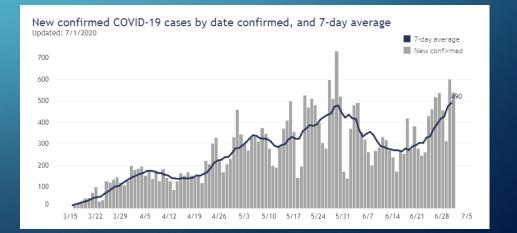
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WISCONSIN'S EVOLVING STRATEGY TO MEET PUBLIC HEALTH NEEDS DURING COVID-19

CURDS AND CURVES

- A bit about Wisconsin...Bubblers, Curds, Oh My!
- Where we started
- Bringing together staff







IE CORONAVIRUS CRISIS

Visconsin Supreme Court Overturns The State's Stay-At-Home Orders

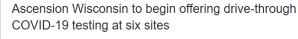
y 13, 2020 · 8:38 PM ET



isconsin's Supreme Court has overturned the state's afer at Home" orders and mandated that all future atewide restrictions to battle the coronavirus must be proved by the legislature's rule-making committee fore they could be implemented.



Ascensio



Ascension Wisconsin said Monday that it has begun offering drive-through testing for COVID-19 at six sites in southeastern Wisconsin for ... Mar 24, 2020

🍪 Milwaukee Journal Sentinel

Wisconsin stay-at-home order likely extends to May as coronavirus cases grow, but more help is coming for the...

Wisconsin stay-at-home order likely extends to May as coronavirus cases grow, but more ... Wisconsin now has 182 deaths from COVID-19. Apr 15, 2020



EXECUTIVE ORDER #82

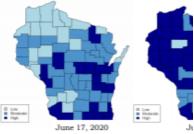
Relating to Declaring a Public Health Emergency

WHEREAS, the COVID-19 pandemic has impacted the lives of Wisconsinites throughout the state;

WHEREAS, despite the hard work Wisconsinites have done to slow the spread of COVID-19, data shows a new and concerning spike in infections;

WHEREAS, based on data collected by the Department of Health Services, the State of Wisconsin has experienced a drastic rise in COVID-19 cases throughout the entire state, with 61 of 72 counties [84 percent] representing 96 percent of the state's population experiencing high COVID-19 activity;

WHEREAS, this is a dramatic increase from where Wisconsin was in June, when only 19 of 72 counties (26%) were experiencing high COVID-19 activity, as depicted in the maps below:



WHEREAS, on June 1, 2020, there were 18,543 COVID-19 in Wisconsin; on July 1, 2020, there were 29,194 COVID-19, a 57 percent increase from June 1; and on July 2 51,049 confirmed cases of COVID-19, a 75 percent increase

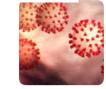
G Appleton Post Crescent

As Wisconsin coronavirus cases pass 6,000, Evers oosens some restrictions on nonessential businesses

Coronavirus in Wisconsin. Confirmed cases of COVID-19 as of the Department of Health's latest update. NOTE: Counties ... Apr 27, 2020

lilwaukee

isconsin Passes 4000 COVID-19 Cases, 200



crossed two milestone numbers Friday with regard to the pandemic. Newly released figures from the Wisconsin ...

5:15 p.m.: Patrick Cudahy plants to close af employees test positive

The Patrick Cudahy/Smithfield plant will be closing for two weel number of employees" tested positive for COVID-19.

Wisconsin sees another recordsetting coronavirus testing day, second biggest increase in cases

e 18,543 ere 29,194 don July 1 th increase Published 3:56 p.m. CT May 22, 2020 | Updated 12:11 p.m. CT May 23, 2020

BADGER BOUNCE BACK



Updated daily - two day lag of data. Connected to ESSENCE data (manual refresh).

Daily data refresh. Graph updated each Monday to add additional week of data. Connected to WEDSS (automatic refresh).

RESPONSE PHASES

- Use of static visualizations and manual data uploads.
- Focus on developing standardized reporting and team organization.
- Focus on rapid deployment of data for the public.

Phase I

Phase II

- Automation of data sources and visualizations.
- Focus on development of internal content.
- Developing consistent standards for teams.
- Improving connections with DHS partners to provide feedback on data displayed.

- Finalize automation of secondary data sources.
- Optimize existing visualizations.
- Focus on decision-making and "wish-list" vizzes.

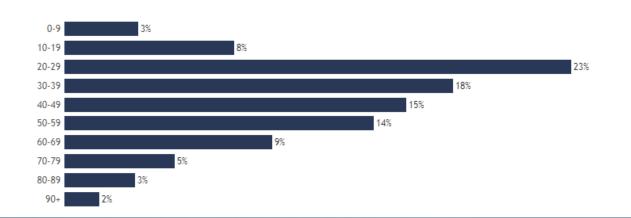
Phase III

EXAMPLE: EVOLUTION OF CASE DATA

Percent of confirmed COVID-19 cases by age group

Updated: 7/1/2020 (Total: 29,199)

View cases by:	Select case confirmation status:
 Age group (years) 	 Confirmed
Gender	O Probable
Race	Confirmed and probable
 Ethnicity 	
Region	



Percent of confirmed COVID-19 cases by age group

Updated: 7/27/2020 (Total: 49,417)



Select case confirmation status:



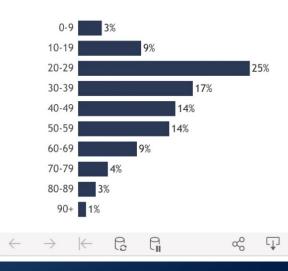
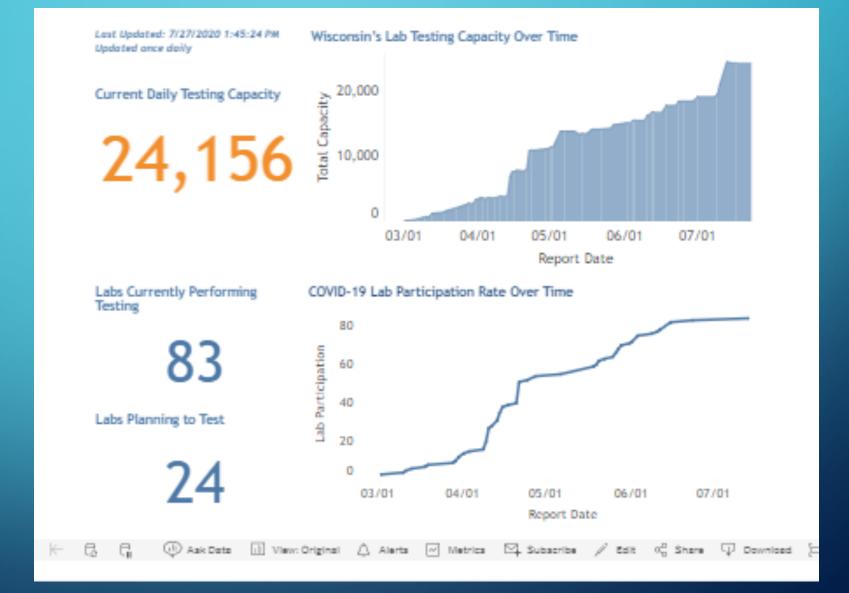


TABLEAU AT DHS

- Flexibility and public-friendly design options
- Interface allows for agile response to urgent requests
- Automated data connections with data sources
- Abundance of Tableau developers thanks to easy-to-learn interface
- Tableau champions

EXAMPLE: DE-SILO DATA

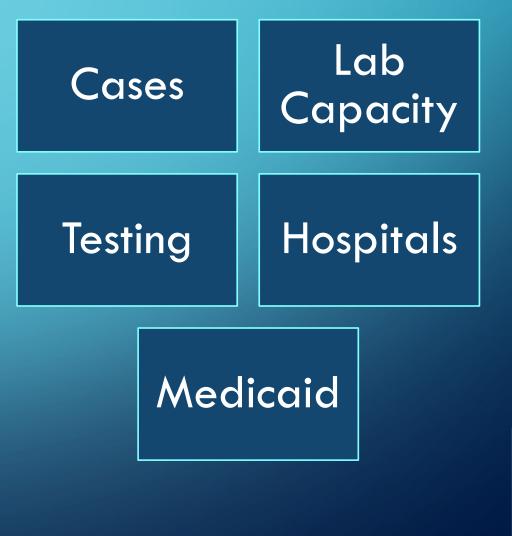


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STATE OF WISCONSIN TABLEAU INFRASTRUCTURE

TABLEAU SERVER OVERVIEW

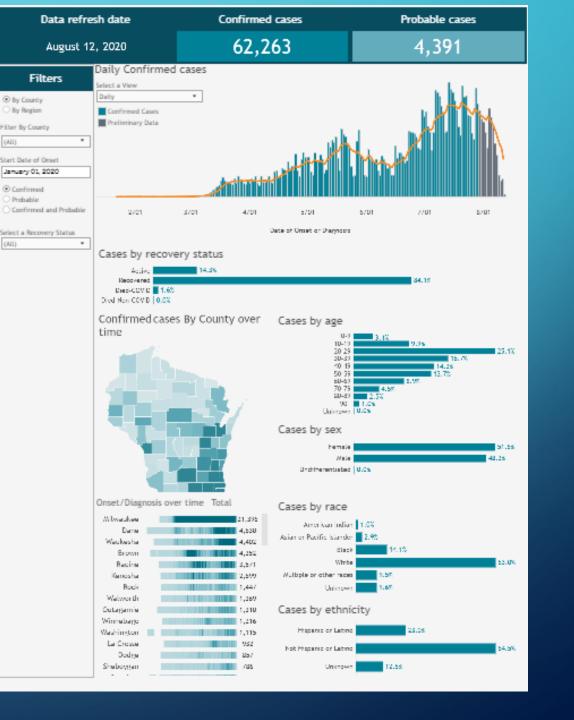
- Centralized server
- Permission management
- Tableau embeds on the web



SCALING TABLEAU SERVER

- Server and site administration coordination
- More traffic = more problems
- Data connections

EXAMPLE: VISUALIZING FOR DIFFERENT AUDIENCES



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DATA QUESTIONS DRIVEN BY THE PUBLIC

- Prioritization group daily
- Plain language
- Commonly asked questions
 - Age group
 - Probable cases
 - Time period
 - Summary statistics
 - Footnotes
 - Local data

EXAMPLE: ADAPTING TO MEET DEMAND



August 12, 2020 2:00 p.m.

Wisconsin COVID-19 Update

- 1,023,723 People Tested Negative (+9,446)
 - 62,263 People Tested Positive (+478)
 - 5,125 People Hospitalized (+33)
 - 1,011 Deaths (+5)
 - 52,350 Recovered (84% of all cases)

Protect Yourself and Those Around You







Wash your hands frequently with soap and water Cover your nose and mouth when you cough or sneeze

Wisconsin COVID-19 Summary Statistics Cumulative data, Updated: 8/12/2020

Testing*

Total people tested: 1,085,986 (+9,924 from prior day) Positive (Confirmed Case): 62,263 (+478) Negative: 1,023,723 (+9,446)

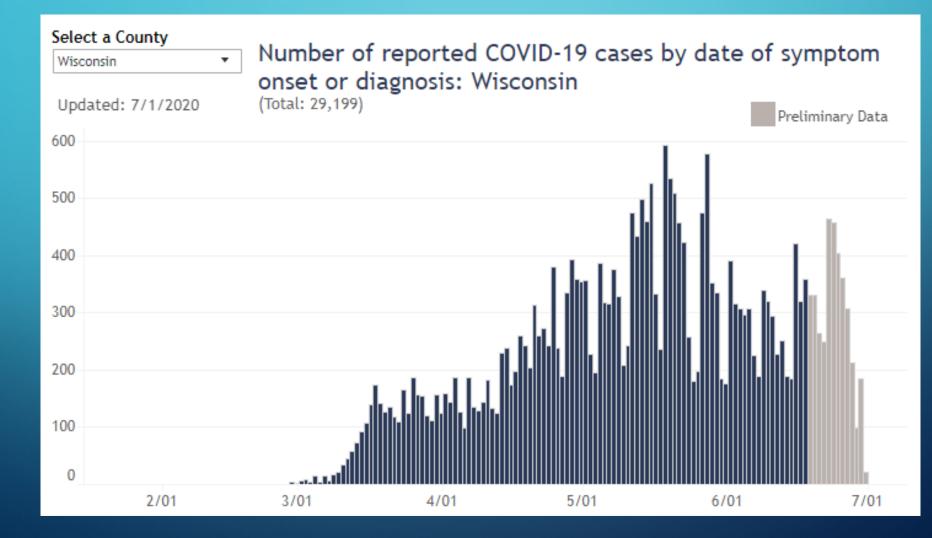
Confirmed Case Information

Recovery Status	Deaths	Hospitalizations
Recovered: 52,350 (84.1%)	Deaths: 1,011 (+5)	Ever hospitalized: 5,125 (+33)
Active: 8,884 (14.3%)	Percent who died: 1.6%	Percent ever hospitalized: 8.2%

*Testing data represent the number of people tested by the diagnostic test that detects the virus in the nose or throat (and not a blood test that detects antibodies). Multiple tests per person are not included in these summary statistics.

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EXAMPLE: LOCAL DATA FOR THE PUBLIC

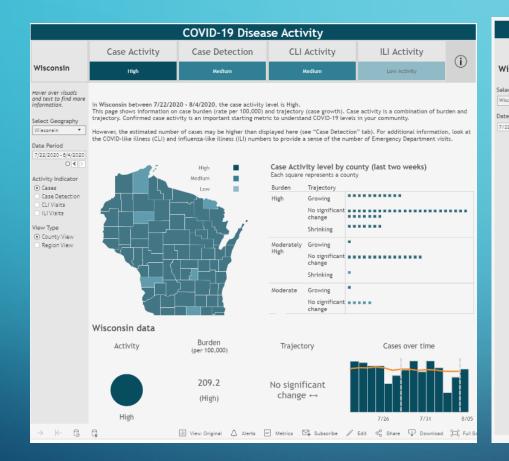


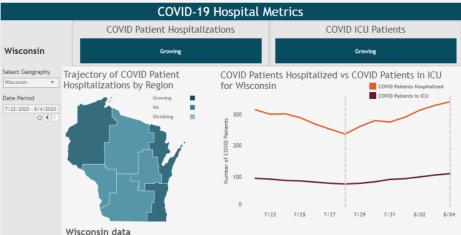
WORKFLOW OVERVIEW



- Replacing visualizations
- New visualizations
- Optimization
- Cleaning and documentation

PREVIEW OF METRICS FOR LOCAL PUBLIC HEALTH*





How close are hospitals to reaching their capacity? This page shows the trends in COVID hospitalizations and ICU stays, hospital bed use, and ventilator use. Data are from hospitals reporting into the Emergency Management Resource System (EMResource). Please note that EMResource Data underwent system-wide changes on 7/21/20 to comply with U.S. Dept. of Health and Human Services data changes. As a result, reporting differences may appear between data entered before and after that date.



*THESE DATA ARE STILL IN DRAFT.

REFLECTIONS

SUCCESS STORIES

- Coordination between multiple parties
- Prioritization of incoming requests
- System connectivity and sustainability

OPPORTUNITIES FOR IMPROVEMENT

- Data connection optimization
- Server data and content management
- Process Improvements
- Common storage
- Dashboard accessibility

NEXT STEPS

- New public health metrics
- Data quality
- System connectivity
- Formalized data management
- Dashboard portal
- And more...