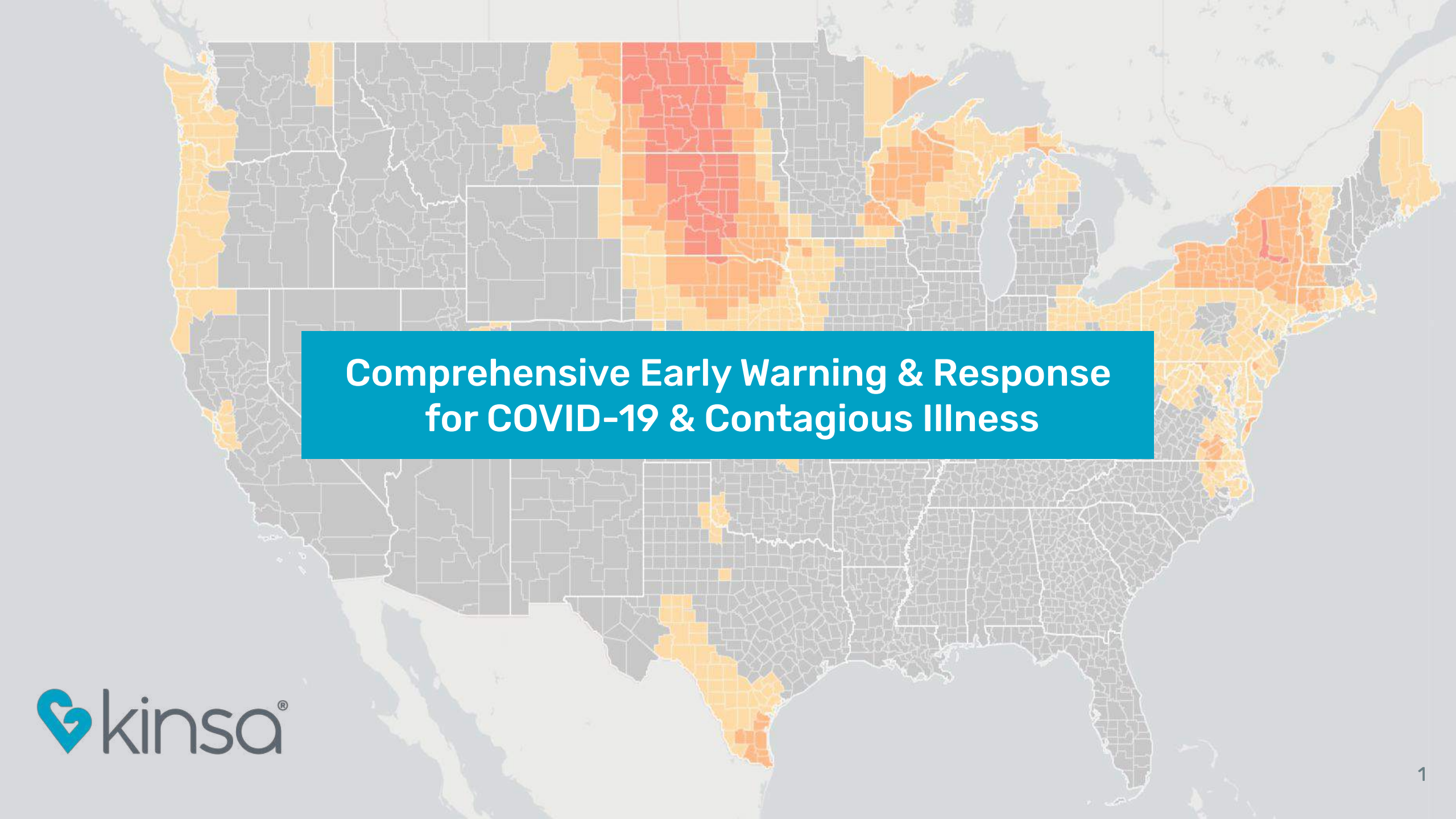




Comprehensive Early Warning & Response for COVID-19 & Contagious Illness



PROBLEM

We need an **early warning system** to get ahead of outbreaks.

SOLUTION

Kinsa's provides a **2-4 week leading indicator of COVID-19.**



Partnerships

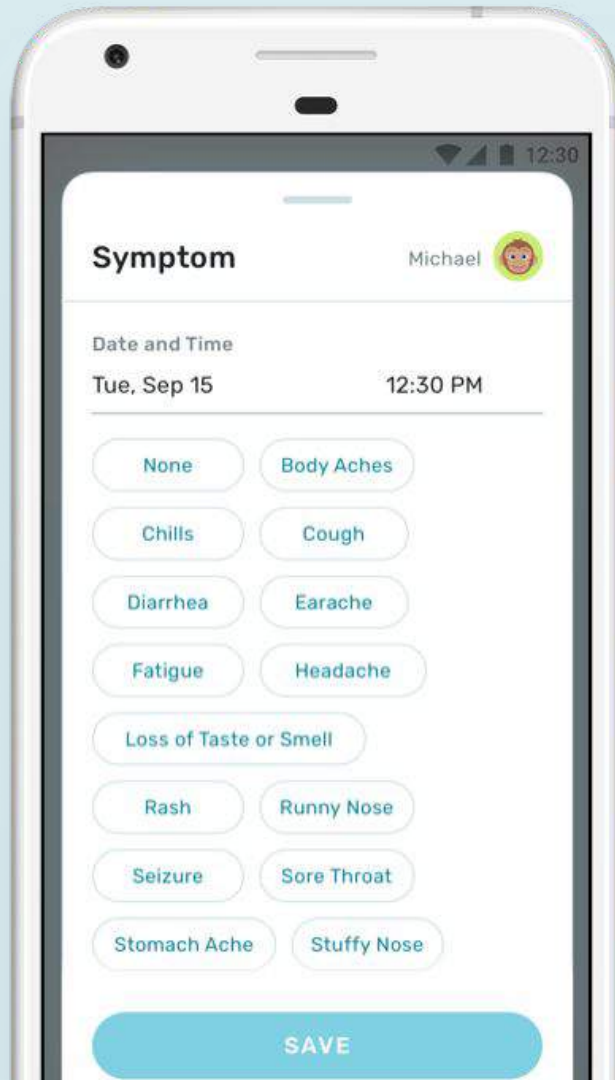
OREGON

- Oregon State University
- Oregon Health & Science University

NATIONALLY

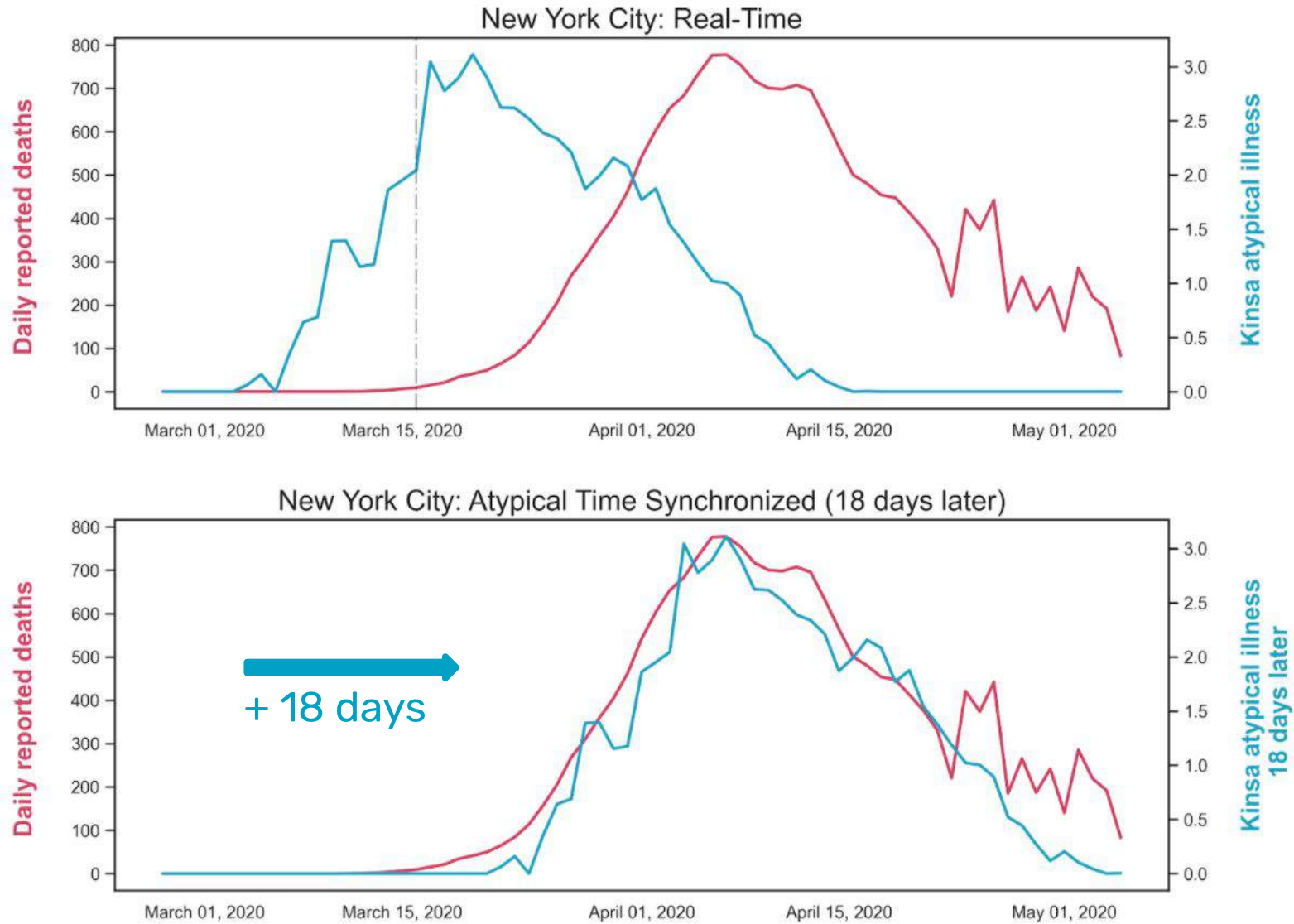
- Missouri
- Louisiana
- Nebraska
- Colorado
- Connecticut
- New Orleans
- New York City
- Philadelphia
- U.S. Department of Health & Human Services
- Centers for Disease Control & Prevention

PRE-HEALTH CARE SYSTEM COMMUNICATION





18-DAY ADVANCE WARNING IN NEW YORK CITY





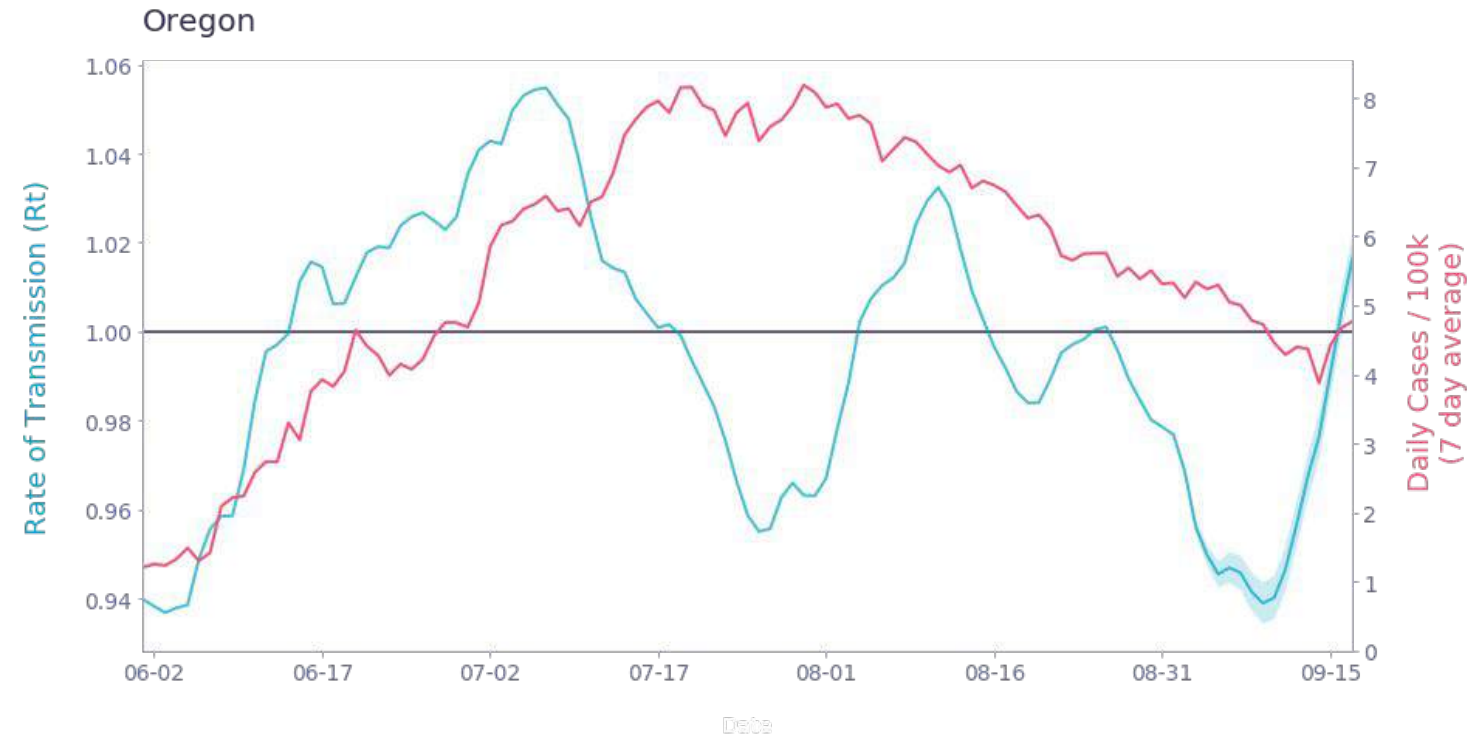
... AND ACROSS THE U.S.



... AND ACROSS THE U.S.



OREGON SNAPSHOT



Kinsa's Rate of Transmission (R_t) measures the rate at which influenza-like illnesses, including COVID-19, are spreading in different parts of the country in real-time.

KEY TAKEAWAYS

- The rate of transmission (R_t) in Oregon has been below 1 for the last few weeks.
- However, **recently R_t has increased steeply** and is now slightly above 1.
- Oregon's current case count is low, but if R_t continues to rise, **the downward trend in new cases may slow or reverse.**



AUGMENT OREGON'S TESTING EFFORTS



Reach Key Populations

- Capture mildly symptomatic spread
- Focus on **underserved families**



Safely Open Schools

Real-time information for local and statewide decisions



Build the Network

Kinsa handles all logistics



Proven program: 6 years of evidence

BETTER HEALTH

- 27% decrease in illness-based absenteeism*
- Families with flu symptoms see the doctor half a day earlier when guided
- 65% of parents and school staff check health alerts weekly

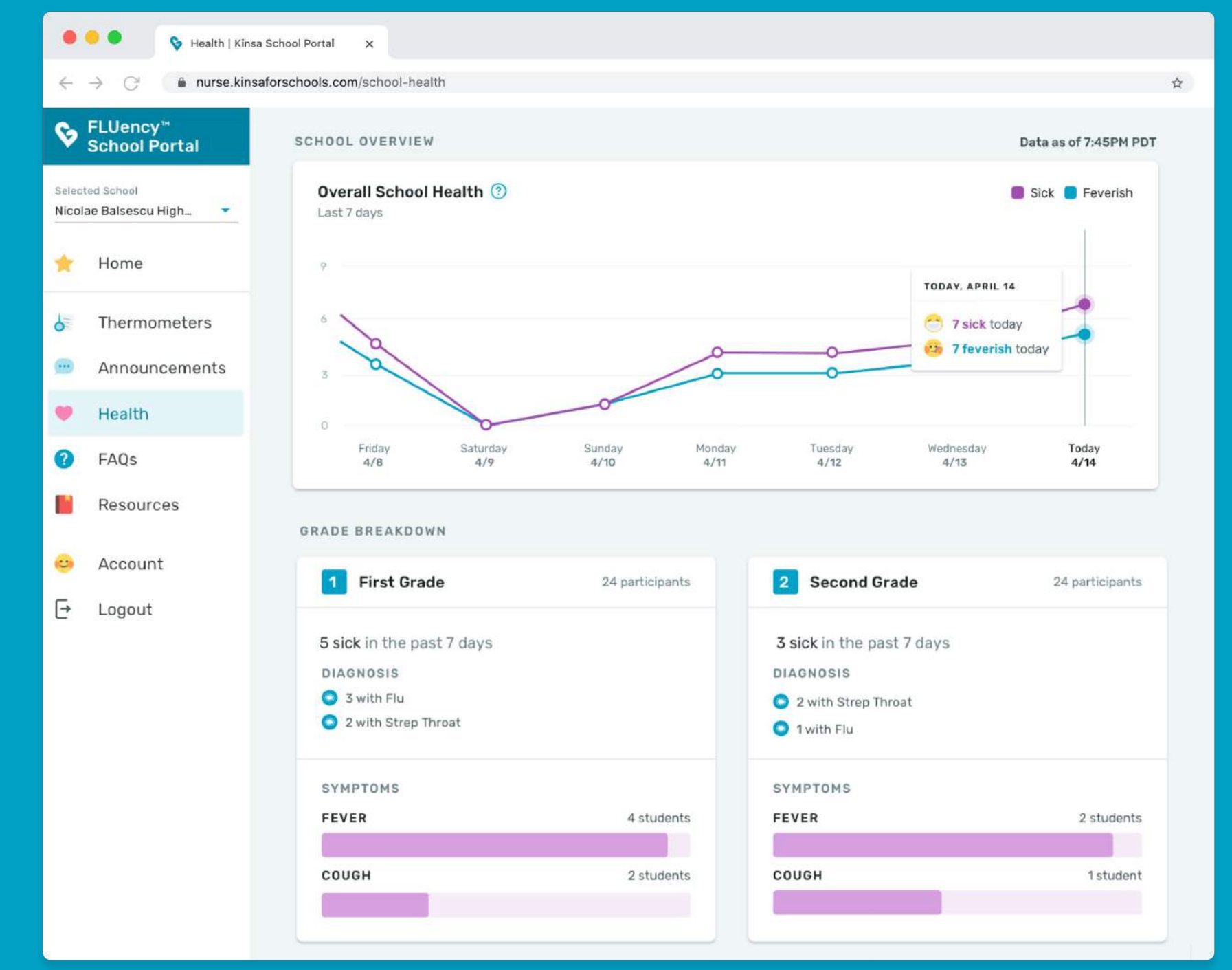
SUPPORT UNDERSERVED COMMUNITIES

- 85% of schools are Title I
- 40% of families did not own a thermometer (but 75% had access to a smart phone with cellular service)

We can build this now, even **before schools reopen.**

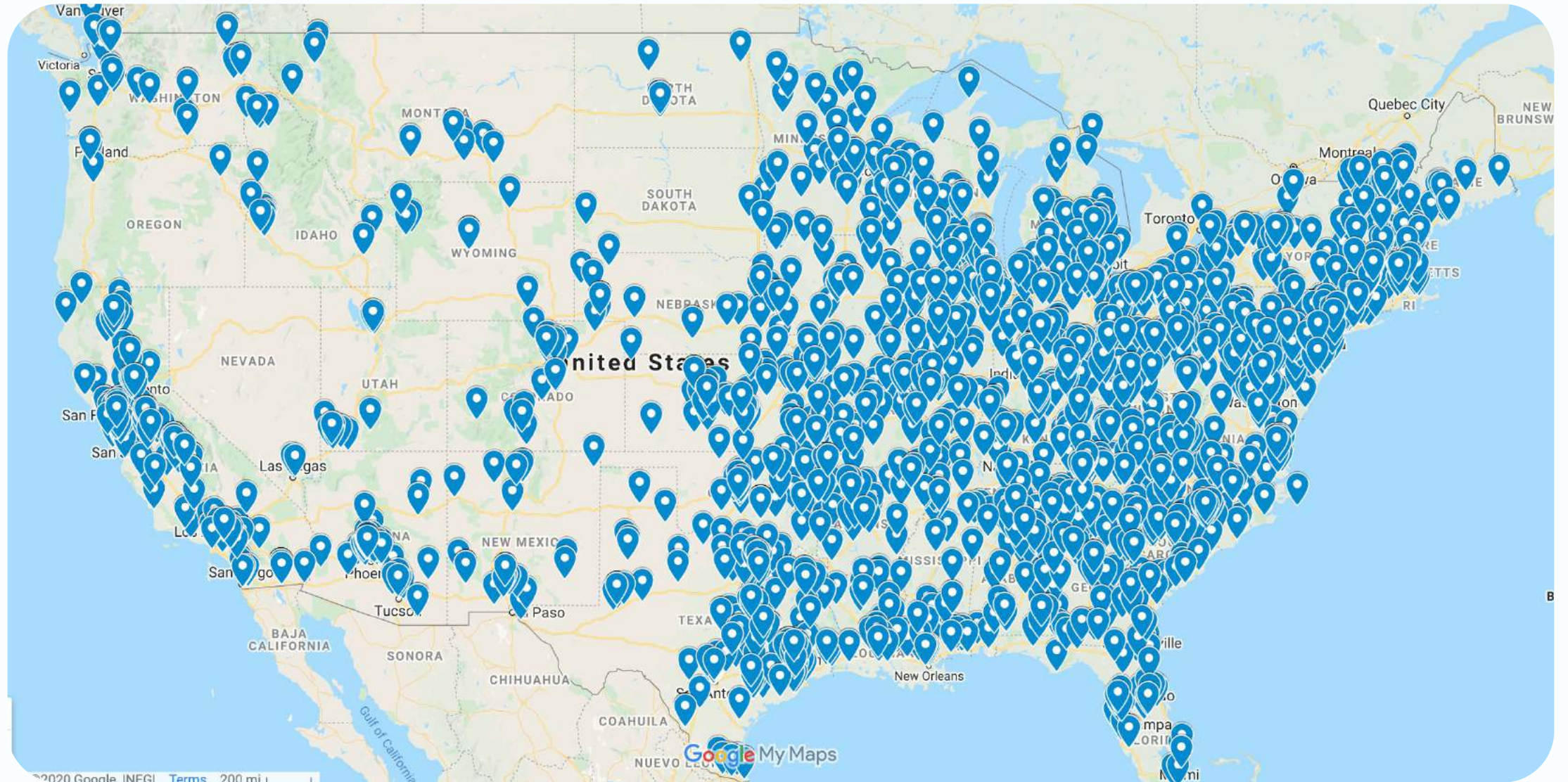
Real-Time Data

Pictured: Kinsa FLUency™ School Health Dashboard





WE DON'T HAVE FUNDING FOR OREGON SCHOOLS





RECOMMENDATIONS

1

Use the Data

Empower decision makers
with **real-time information**

2

Bolster the Network - 1

Utilize **OHSU** purchased
**smart thermometers not
yet distributed** (~43k)

3

Bolster the Network - 2

Deploy **80k more smart
thermometers** statewide
via Kinsa FLUency™



Thank You

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justin.greenberg@kinsahealth.com



APPENDIX

Oregon State University is a research collaborator on breakthrough science for outbreak detection and forecasting:

- ***Real-time detection of COVID-19 epicenters within the United States using a network of smart thermometers***; Chamberlain et al. **Source:**
www.medrxiv.org/content/10.1101/2020.04.06.20039909v1
- ***Long-range local influenza forecasts via distributed syndromic monitoring: preliminary results***; Dalziel et al. **Source:** www.medrxiv.org/content/10.1101/2020.06.07.20078956v1
- ***Accuracy of COVID-19 outbreak detection using a smart thermometer network***. Chamberlain et al. (in preparation)