



# SHIELD: Target, Test, Tell

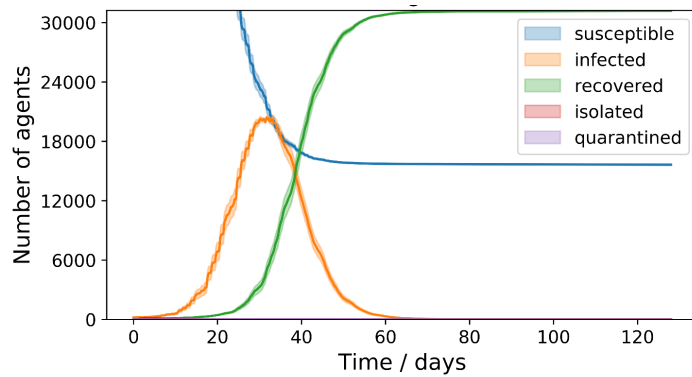
Draft Presentation for Discussion Purposes



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# COVID-19 SHIELD employs a target, test, tell strategy

## Target



Modeling to guide test frequency and scheduling

## Test



Fast, scalable saliva PCR test for SARS-CoV-2 with results in 4-8 hours

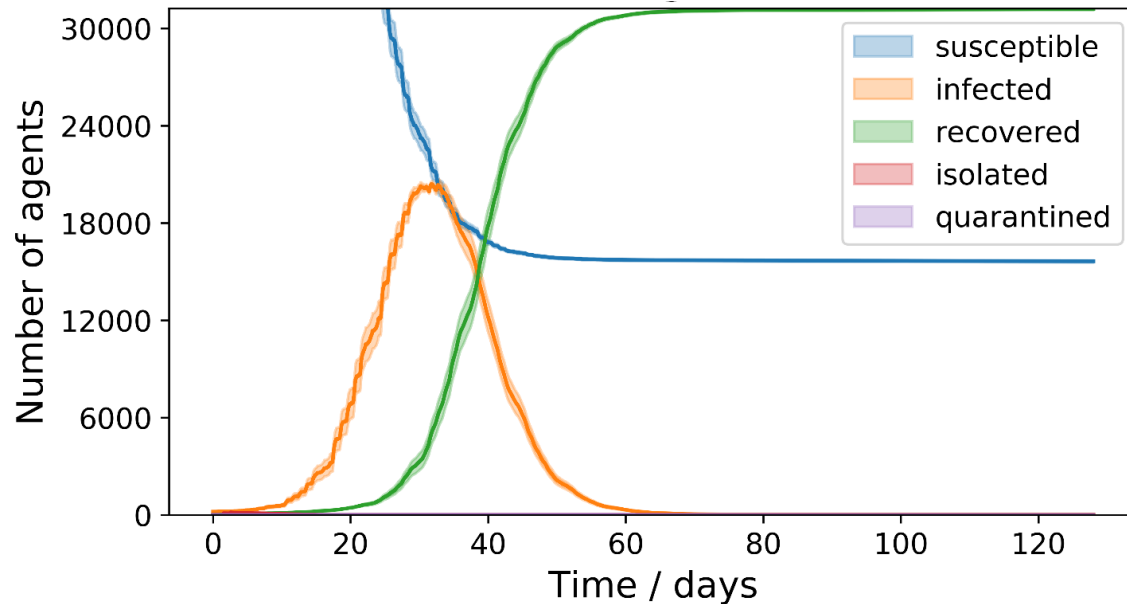
## Tell



Digital exposure notifications and manual contact tracing

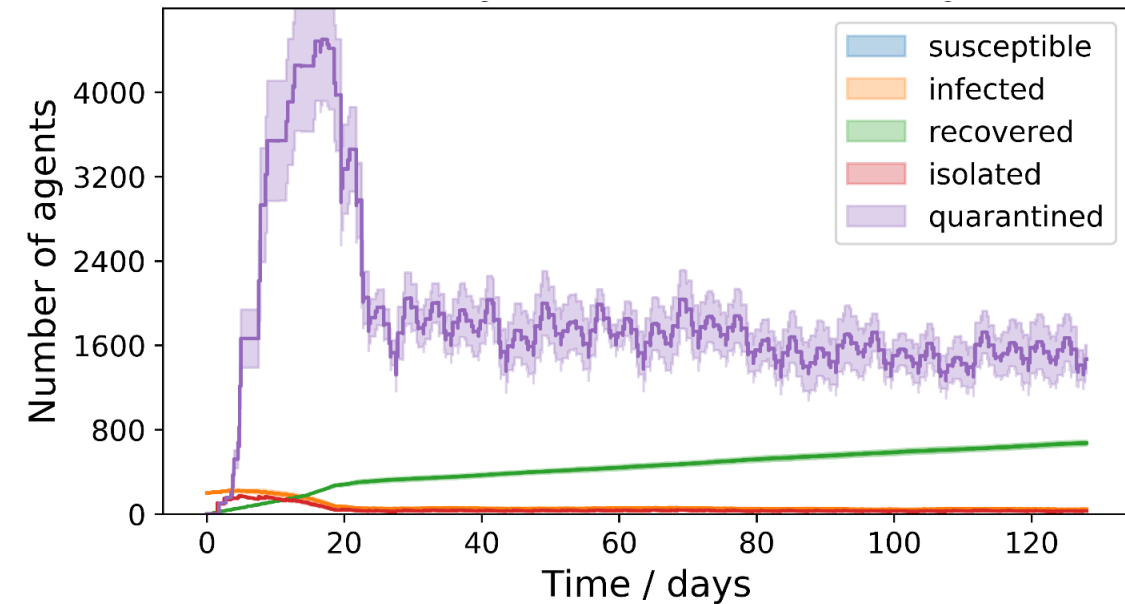
# Mitigations can limit spread of COVID-19

## Without mitigations



Detailed modeling of 45,000 students working and socializing, transmitting SARS-CoV-2 via proximity and aerosol

## With mitigations



Detailed modeling of 45,000 students working and socializing, transmitting SARS-CoV-2 via proximity and aerosol



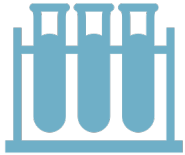
# SHIELD will be deployed and implemented at three levels

- COVID-19 SHIELD – for the campuses of UIUC, UIC, and UIS  
The implementation is driven from within each campus
- SHIELD Illinois – for the state of Illinois beyond the campuses  
The implementation is driven by a team within the U of I System
- SHIELD T3 – for organizations outside the state of Illinois  
The implementation is driven by a University Related Organization (URO)



Each is being run by a separate team. Each team works closely with the other teams to learn from and leverage each other. Each is developing partnerships with communities, companies, universities, and government entities who are vital to standing up SHIELD at all three levels.

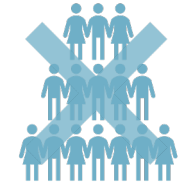
# UIUC has instituted key mitigation strategies to minimize cases of COVID-19



Twice weekly testing  
for all students,  
faculty and staff on  
campus



Mandatory mask  
wearing



No large  
gatherings




Many classes  
moved online




Safer Illinois  
app

# SHIELD Illinois is looking to open lab locations and collection sites across the state of Illinois




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### High Population Areas

Labs will be located in proximity to high-population areas to increase access to testing.
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### Logistical Convenience

Locations will be selected based on logistical considerations such as ease of transportation, etc.
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### Capacity and CLIA Certified

Labs must be CLIA certified and be able to process the number of tests anticipated.
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### External Sponsors Needed

External sponsors will be identified to cover the cost of testing organizations/communities

Strategic placement of testing locations will enable efficient and large-scale testing to reduce Illinois' overall infection rate.

# SHIELD Illinois will provide the infrastructure required to effectively and efficiently conduct tests in communities



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Provide training, materials, and consumables for sample collection site



Solve logistics to transport samples to labs



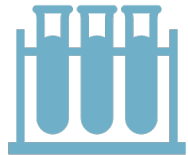
Load balance supplies and samples collected between labs



Provide equipment needed to run labs



“Lab-in-a-box” concept delivers help with site questions, CLIA certification and testing SOP



Secure supply chain and provide testing consumables



Integrate technology and data from intake to results



Pay lab personnel at collection and lab sites



Work to identify process improvements and SHIELD sponsors to reduce test costs

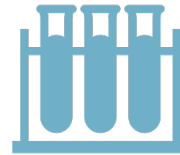
Through end-to-end support, SHIELD Illinois will ensure that external sponsors and partners have the necessary resources to test successfully.

# SHIELD T3 will license the testing protocol and extend know-how outside the state of Illinois



## Target

Risk-based, optimized model determines testing frequency



## Test

Low-cost, scalable saliva-based test



## Tell

App that provides digital contact tracing and privacy-compliant status

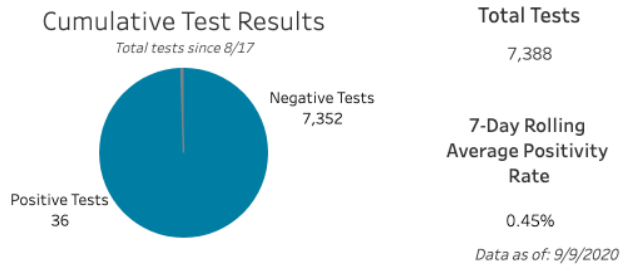
SHIELD T3 is ideally suited to large, semi-closed communities such as universities, smaller cities, military bases, large employers, and factories





# COVID-19 SHIELD has ramped up testing to be more than 2% of the tests in the U.S. on a given day

## CHICAGO



Test Results by Week

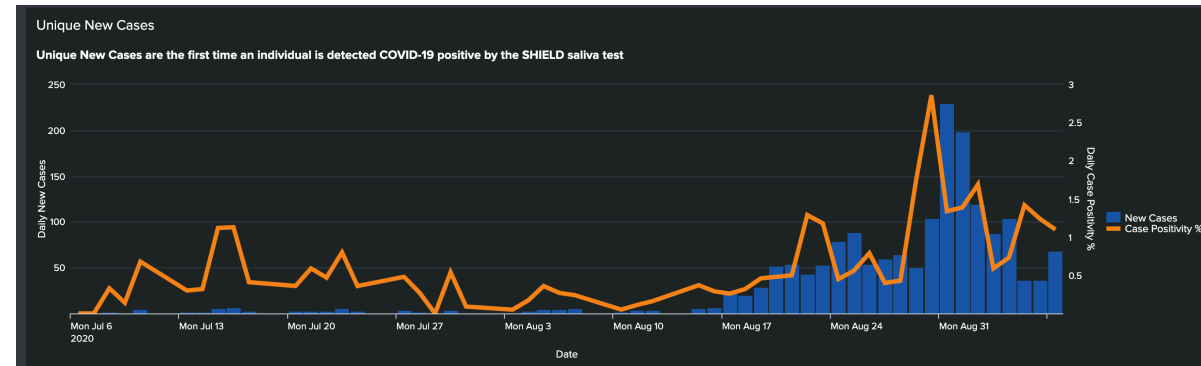
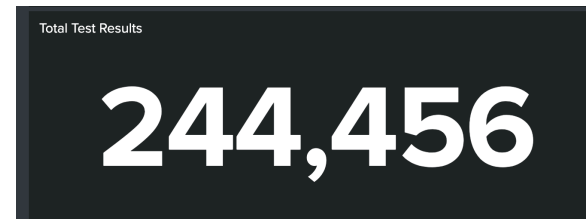
	Positive Tests	Negative Tests	Positive %	Total
Week of 8/16	6	1,638	0.36	1,644
Week of 8/23	20	3,068	0.65	3,088
Week of 8/30	9	2,460	0.36	2,469
Week of 9/6	1	186	0.53	187

- UIC has made weekly saliva testing mandatory for students/staff in campus housing, the performing arts and athletics



- All other students can voluntarily participate in saliva testing

## URBANA-CHAMPAIGN



## SPRINGFIELD

UIS is testing weekly all students, faculty and staff who are coming to campus

Total Tests Since Aug. 17, 2020	Daily Tests Sept. 4, 2020	Daily Positivity Rate on Sept. 4:	7-Day Positivity Rate on Sept. 4:
<b>4,806</b>	<b>278</b>	<b>0.00%</b>	<b>0.34%</b>

- UIUC is testing twice weekly all students, faculty and staff who are coming to campus



Thank you! Questions?



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