SHIELD: Target, Test, Tell
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
- Many classes moved online
- Mandatory mask wearing
- No large gatherings
- Safer Illinois app
SHIELD Illinois is looking to open lab locations and collection sites across the state of Illinois.

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Population Areas</td>
<td>Labs will be located in proximity to high-population areas to increase access to testing.</td>
</tr>
<tr>
<td>Logistical Convenience</td>
<td>Locations will be selected based on logistical considerations such as ease of transportation, etc.</td>
</tr>
<tr>
<td>Capacity and CLIA Certified</td>
<td>Labs must be CLIA certified and be able to process the number of tests anticipated.</td>
</tr>
<tr>
<td>External Sponsors Needed</td>
<td>External sponsors will be identified to cover the cost of testing organizations/communities</td>
</tr>
</tbody>
</table>

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 through end-to-end support, ensuring 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

- 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

### CHICAGO

**Cumulative Test Results**
- Total tests since 8/27: 7,388
- 7-Day Rolling Average Positivity Rate: 0.45%

**Test Results by Week**

<table>
<thead>
<tr>
<th>Week</th>
<th>Positive Tests</th>
<th>Negative Tests</th>
<th>Positive %</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week of 8/16</td>
<td>6</td>
<td>1,030</td>
<td>0.36</td>
<td>1,044</td>
</tr>
<tr>
<td>Week of 8/23</td>
<td>20</td>
<td>3,006</td>
<td>0.65</td>
<td>3,060</td>
</tr>
<tr>
<td>Week of 8/30</td>
<td>9</td>
<td>2,460</td>
<td>0.36</td>
<td>2,469</td>
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<tr>
<td>Week of 9/6</td>
<td>1</td>
<td>186</td>
<td>0.53</td>
<td>187</td>
</tr>
</tbody>
</table>

### URBANA-CHAMPAIGN

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

### SPRINGFIELD

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

<table>
<thead>
<tr>
<th>Total Tests</th>
<th>Daily Tests</th>
<th>Daily Positivity Rate on Sept. 4:</th>
<th>7-Day Positivity Rate on Sept. 4:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,806</td>
<td>278</td>
<td>0.00%</td>
<td>0.34%</td>
</tr>
</tbody>
</table>

**Past 7-Day Case Positivity Rate**

- 1.05%
Thank you! Questions?