COVID-19 Screening
In the Harvard Public Schools

Dr. Linda Dwight, Superintendent
Shannon Molloy, School Committee Vice Chair
Liz Ruark, Covid-Safe Schools
Toby Bazarnick, Covid-Safe Schools
Why Screening Is So Important

- Find and quarantine people without symptoms before they can spread the virus
- Prevent disease spread in the greater community
- Additional evidence that anti-COVID procedures and practices are working
- Peace of mind
- Provides data that can be used to inform future school policies
Screening Is One Piece of the Safety Puzzle

- Not a magic bullet
- Masking, distancing, and hand-washing remain CRUCIAL

Image by Rose Wong, NY Times; adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason
Participation, Privacy, and Frequency

- Screening is voluntary
- Based on surveys, at least 80% of families and staff want to participate
- Individuals’ privacy will be maintained
- Weekly screening as long as funding available
Pooled PCR Tests at the Broad Institute

- PCR test ("gold standard")
- Colleges, universities
- K-12 public schools
- Pooled testing
Pooled Screening Costs Less

Ten Samples → Ten Tests

$$$$ 

Ten Samples → One Pooled Test

$
Positive Pools

Six Pools: One Is Positive

Ten Individual Tests

Harvard Public Schools
“Our experience has been exceptional. . . . We have been testing weekly since August, with literally no issues.”

“I cannot imagine trying to do this effort to reopen school and keep our students and employees safe without the partnership with CIC.”

Charles B. McCullagh, Jr., CFO
The Williston Northampton School
Funding

- Cost of program: $10.50 / individual / week plus supplies, overhead
- Approximately $163K for rest of school year
- First two weeks of screening funded by School Committee, PTO, and Harvard Teachers Association
- After that, screening funded by donations
- Donors → Harvard Schools Trust → Gifts to school system
Fundraising

- Individuals
- Matches
- Local businesses
- Foundations
Fundraising: Overview

- "Success" = any screening
- Have $10K seed for pilot + 1 week
- Cost is $8K / week, for projected participants
- 21 weeks of school remain
- Maximum program cost = $163K
- Parent demand will drive early donations
- Later donations by corporate matches, businesses, foundations

Diagram:

- Individual Donors & Corporate Matches: $85K
- Small Businesses & Foundations: $46K
- Large Businesses: $30K

Legend:

- Large Businesses
- Small Businesses & Foundations
- Individual Donors & Corporate Matches
- Corporate Matches
- Businesses
- Foundations
- Individual Donors

Harvard Public Schools
## Fundraising: Entire School Year = $163K

<table>
<thead>
<tr>
<th>Donor Type</th>
<th>Goal Rate</th>
<th>Goal $ Ave</th>
<th>Goal #</th>
<th>Projections</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Individuals:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Donors: $50 - $250+ ea.</td>
<td>$200</td>
<td>X 250</td>
<td></td>
<td>$50,000</td>
</tr>
<tr>
<td>Super-Donors: $1K - $3K ea.</td>
<td>$1,500</td>
<td>X 12</td>
<td></td>
<td>$18,000</td>
</tr>
<tr>
<td>Company Matches: $50 - $3K</td>
<td>$300</td>
<td>X 78</td>
<td></td>
<td>$17,625</td>
</tr>
</tbody>
</table>

**Entities:**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Businesses: $1K - $5K</td>
<td>$2,000</td>
<td>X 12</td>
<td></td>
<td>$24,000</td>
</tr>
<tr>
<td>Large Businesses: $10K - $25K</td>
<td>$15,000</td>
<td>X 2</td>
<td></td>
<td>$30,000</td>
</tr>
<tr>
<td>Foundations: $5K – $10K</td>
<td>$7,500</td>
<td>X 3</td>
<td></td>
<td>$22,500</td>
</tr>
</tbody>
</table>

**TOTALS:** $162,125
**Fundraising:** 50% *from Individual Donations*

<table>
<thead>
<tr>
<th>Facility</th>
<th># Enrolled Students</th>
<th># In Onsite Hybrid Model</th>
<th>Student % Participation</th>
<th># Staff</th>
<th>Staff % Participation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Bromfield School</td>
<td>619</td>
<td>525</td>
<td>80%</td>
<td>84</td>
<td>80%</td>
</tr>
<tr>
<td>14 Massachusetts Avenue, Harvard, MA 01451</td>
<td>Phone 978-456-4152</td>
<td>Fax 978-456-3013</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hildreth Elementary School</td>
<td>431</td>
<td>304</td>
<td>80%</td>
<td>79</td>
<td>80%</td>
</tr>
<tr>
<td>27 Massachusetts Avenue, Harvard, MA 01451</td>
<td>Phone 978-456-4145</td>
<td>Fax 978-456-3287</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

663 students

130 staff

262 contributions (40%)

78 Company Matches (25%)
# Projected Program Costs (1st 7 weeks)

<table>
<thead>
<tr>
<th>21 school weeks</th>
<th>(TBS students)</th>
<th>(staff &amp; students)</th>
<th>VACATION NO SCHOOL</th>
<th>VACATION NO SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$163K</strong></td>
<td></td>
<td></td>
<td>Week Ending:</td>
<td></td>
</tr>
<tr>
<td><strong>Hildreth Elementary (K-5)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>staff</td>
<td>0</td>
<td>0</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>students</td>
<td>0</td>
<td>0</td>
<td>243</td>
<td>243</td>
</tr>
<tr>
<td><strong>Bromfield (6-12)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>staff</td>
<td>0</td>
<td>0</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>students</td>
<td>0</td>
<td>420</td>
<td>420</td>
<td>420</td>
</tr>
<tr>
<td><strong>WEEKLY TOTALS:</strong></td>
<td>0</td>
<td>420</td>
<td>794</td>
<td>794</td>
</tr>
<tr>
<td>Rate / sample</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td><strong>HPS Projected Payments to Vendor:</strong></td>
<td>$0</td>
<td>$4,200</td>
<td>$7,936</td>
<td>$7,936</td>
</tr>
</tbody>
</table>

Jan Total: $28,008  
Feb Total: $23,808
## Projected Program Costs (remaining 15 weeks)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VACATION</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>63</td>
<td>0</td>
<td>63</td>
<td>63</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NO SCHOOL</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>0</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
<td>243</td>
</tr>
<tr>
<td></td>
<td>67</td>
<td>67</td>
<td>67</td>
<td>67</td>
<td>67</td>
<td>67</td>
<td>0</td>
<td>67</td>
<td>67</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>0</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
<td>420</td>
</tr>
<tr>
<td></td>
<td>794</td>
<td>794</td>
<td>794</td>
<td>794</td>
<td>794</td>
<td>794</td>
<td>0</td>
<td>794</td>
<td>794</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
<td>663</td>
</tr>
<tr>
<td></td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td></td>
<td>$7,936</td>
<td>$7,936</td>
<td>$7,936</td>
<td>$7,936</td>
<td>$7,936</td>
<td>$7,936</td>
<td>$0</td>
<td>$7,936</td>
<td>$7,936</td>
<td>$6,632</td>
<td>$6,632</td>
<td>$6,632</td>
<td>$6,632</td>
<td>$6,632</td>
<td>$6,632</td>
<td>$6,632</td>
</tr>
</tbody>
</table>

Mar Total: $31,744  
Apr Total: $31,744  
May Total: $27,832  
Jun Total: $19,896
Impact

- Peace of mind for teachers and families
- Ability to isolate non-symptomatic cases swiftly
- Additional evidence that anti-COVID measures are working
- Additional data to inform future policy revisions
Q&A