HOUSE SELECT COMMITTEE ON ADVANCING WOMEN IN STEM

October 12th 2022

Rafi Vaca-Tricerri, Lead STEM Instructor
Sean Newman Maroni, Founder & CEO
Greg Pearlman, CSO
PART 1:

Betabox NC Pilot Overview

Speaker: Sean Newman Maroni
Founder & CEO, Betabox Learning

Contact: sean@betaboxlearning.com
About Betabox Learning

We’re a small team with a big mission to **spark and sustain hands-on learning in K12 schools**. Since 2016 we’ve been focused on addressing STEM resource and instructional equity gaps in rural and low-income schools in the southeast.
Betabox NC Pilot

- Multistep district implementation designed to increase hands-on technology instruction in 100 rural and low-income NC schools in 30 districts.
- Aligned with computer science, engineering, and associated technology careers.
- 12,000 students and 500+ teachers will participate in the pilot.
The Learning Labs

Our fleet of mobile learning labs are designed to create an innovative, inviting, and open space for students to feel comfortable while exploring technology.

We bring our own power, HVAC, internet, equipment, and staff to any school across the state.
Phase 1: Gap Identification

- Assess existing gaps in STEM resources at school
- Tailor program services to address gaps when possible
- Schedule Onsite Field Trip

**Goal:** Build trust with administration and foster top-down support.
Phase 2: Spark Student Interest
High-energy hands-on technology experiences in any school parking lot.
What does a Betabox Learning Onsite Field Trip look like?

https://vimeo.com/betaboxlearning/osft
Phase 3: Support Teachers

All teachers that observe the Onsite Field Trip gain access to our Classbox Portal.

Features:
- Standards aligned hands-on lessons
- Professional development webinars
- Equipment checkout program
- 1:1 instructional and technical coaching
# Program Status (10/12/22)

## Program Enrollment Status

<table>
<thead>
<tr>
<th>Program Target</th>
<th>Target Value</th>
<th>Current Value</th>
<th>% Of Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligible Schools Applied</td>
<td>100</td>
<td>121</td>
<td>121%</td>
</tr>
<tr>
<td>Schools Enrolled</td>
<td>100</td>
<td>17</td>
<td>17%</td>
</tr>
<tr>
<td>Field Trips Scheduled</td>
<td>150</td>
<td>44</td>
<td>29%</td>
</tr>
<tr>
<td>Field Trips Completed</td>
<td>150</td>
<td>17</td>
<td>11.3%</td>
</tr>
<tr>
<td>Student Participants</td>
<td>12,000</td>
<td>1,144</td>
<td>9.5%</td>
</tr>
</tbody>
</table>

## Betabox NC Pilot Program Timeline

<table>
<thead>
<tr>
<th>Program Phase</th>
<th>Timeline</th>
<th>Description</th>
<th>Current Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activation</td>
<td>March - May 2022</td>
<td>Construction of three (3) Betabox learning labs, program marketing, staffing, curriculum, training.</td>
<td>Completed</td>
</tr>
<tr>
<td>Operations Phase 1</td>
<td>June – December 2022</td>
<td>School enrollment, Operations. Plan to complete 25% of Onsite Field Trips.</td>
<td>On Track</td>
</tr>
<tr>
<td>NCDPI Interim Report Due</td>
<td>October 1, 2022</td>
<td></td>
<td>Completed</td>
</tr>
<tr>
<td>Operations Phase 2</td>
<td>January - December 2023</td>
<td>Target to complete remaining onsite field trip engagements.</td>
<td>Upcoming</td>
</tr>
<tr>
<td>NCDPI Annual Report Due</td>
<td>October 1, 2023</td>
<td></td>
<td>Upcoming</td>
</tr>
<tr>
<td>NCDPI Annual Report Due / Program End</td>
<td>October 1, 2024</td>
<td></td>
<td>Upcoming</td>
</tr>
</tbody>
</table>

## Program Participation Demographics

<table>
<thead>
<tr>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Female Students</td>
</tr>
<tr>
<td>Students of Color</td>
</tr>
</tbody>
</table>
The Numbers

- **Student Impact**
  - +89% STEM Interest & Awareness
  - +80% Content Knowledge
  - +82% Belonging in STEM

- **Teacher Impact**
  - 70% report increased interest in adding more hands-on learning
Guiding Young Women into STEM

PART 2:

Speaker: Rafi Vaca-Tricerri
Lead STEM Instructor, Betabox Learning

Contact: rafi@betaboxlearning.com
QUESTIONS?
THANK YOU!

https://betaboxlearning.com/apply | hello@betaboxlearning.com