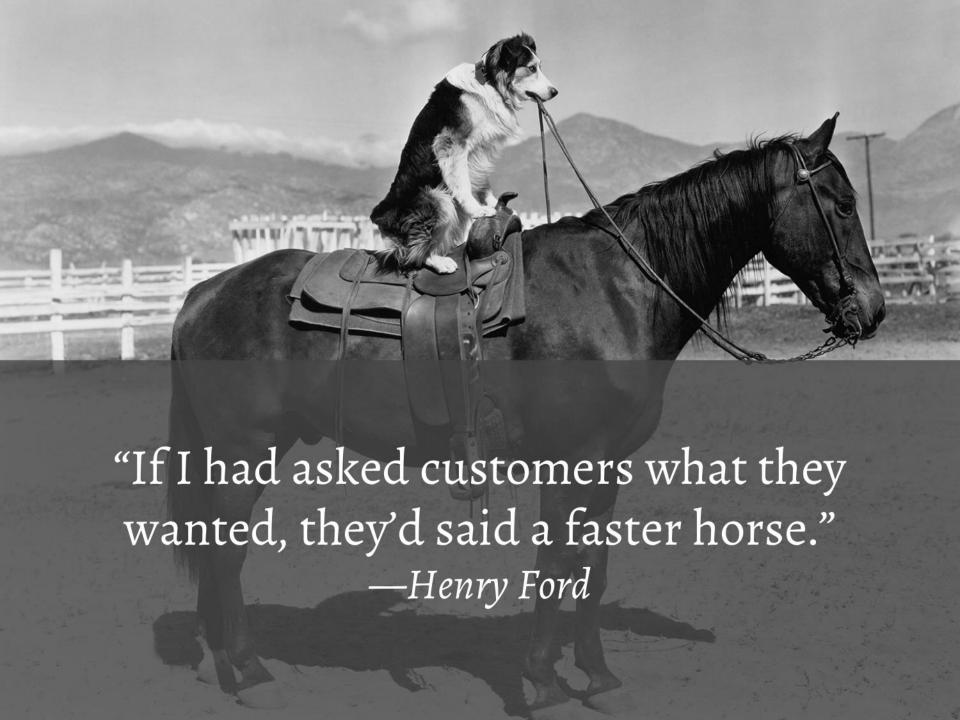


CENTER FOR AUTOMOTIVE RESEARCH March 9, 2016

Ronda Alexander

TODAY'S DISCUSSION

- History of Ford in Education
- Ford Next Generation Learning:
 - A Community-Driven Approach
- Powered by Ford STEM Academies
 - Detroit
 - Southeast Michigan
- Discussion and questions



BACKGROUND

100 + YEARS

Beginning in 1916 with the Henry Ford Trade School and including more than 70 other educational facilities throughout the US, Canada and Europe.

FORD NGL FRAMEWORK

TRANSFORMING TEACHING & LEARNING

Creating meaningful learning experiences that enable students to learn and apply academic, 21st century, and technical knowledge and skills to real-world challenges

TRANSFORMING THE SECONDARY SCHOOL EXPERIENCE

Creating and maintaining career and interest-themed academies and collaborative culture, structures, and practices

TRANSFORMING BUSINESS & CIVIC ENGAGEMENT

Engaging employers, educators, and community leaders in building and sustaining a transformed secondary school experience

CAREER ACADEMIES CONNECT RIGOROUS, COLLEGE PREPATORY ACADEMIC COURSES WITH CAREER THEMES IN AREAS SUCH AS ENGINEERING, MANUFACTURING, IT, HEALTH, DIGITAL MEDIA AND OTHER HIGH DEMAND CAREER PATHWAYS —



STRUCTURE

- Teachers have common planning
- Students are cohort scheduled
- Block scheduling
- Business and civic engagement

Ford NGL Communities around the *world* will achieve the following long-term outcomes:



Young people prepared for college, careers, lifelong learning, and leadership



Community prosperity shared by all



Strengthened talent pipeline



Educational equity and justice for all



Capacity to contribute and go further

Ford NGL will achieve the following organizational outcomes:



Increased number of communities achieving the above five outcomes



Increased capacity of communities to sustain and improve

PHASE 5: GO FURTHER

- 1. Deepen and broaden the community-driven transformation and apply it to the entire education system.
- 2. Create and share innovations that will support the entire Ford NGL network, or "serve as models for creativity, innovation, and risk-taking as well as demonstrated competence."

FORD NGL ROADMAP

PHASE 4: IMPLEMENT

- 1. Strengthen community-wide capacity to implement and continuously improve the master plan.
- 2. Implement the systems, structures, processes, and competencies to support and sustain continuous improvement, with all key individuals and groups engaged.
- 3. Inspire, share and contribute to the Ford NGL network.

PHASE 3: PLAN

- 1. Achieve community-wide consensus on and ownership of a vision for transformation and learn what it will take to implement the vision.
- 2. Create a community-wide three year master plan for achieving the vision that is aligned with the school district's plans.
- 3. Agree on a set of priorities for the first year of implementation.
- 4. Strengthen the systems, structures, processes, and competencies needed to implement the plan and guide continuous improvement.

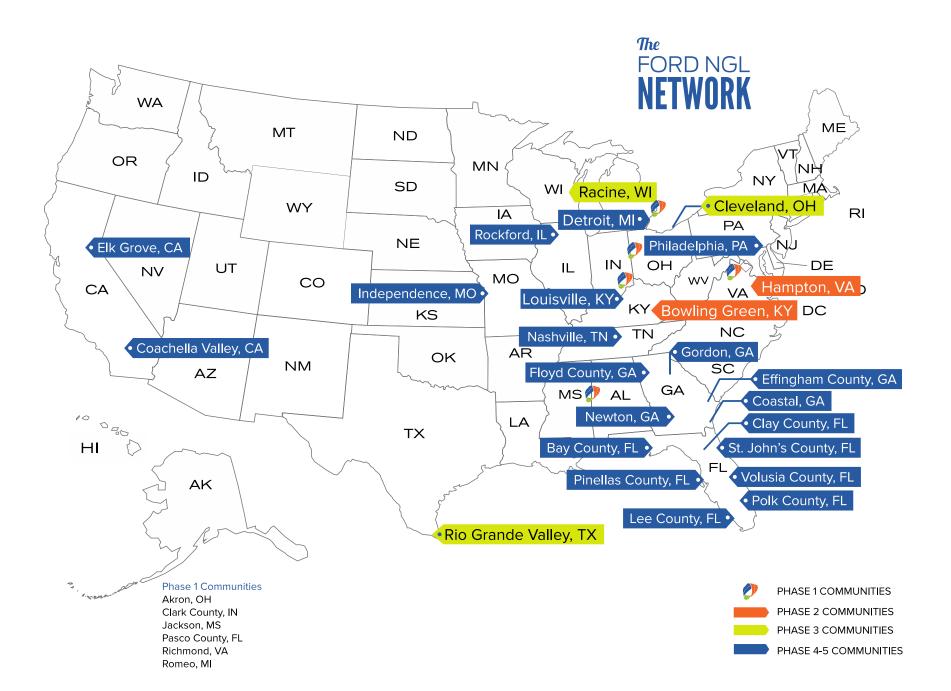
PHASE 1: EXPLORE

- 1. Understand the benefits and features of transforming the secondary school experience using the Ford NGL community-driven approach.
- 2. Readiness and commitment to embrace the Ford NGL transformation.

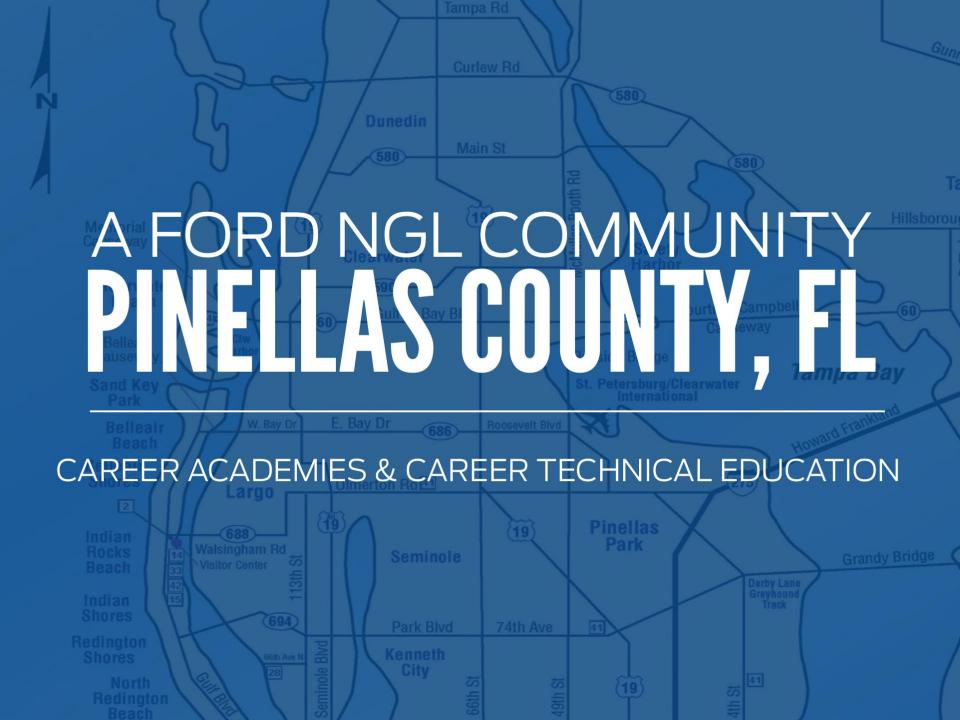
PHASE 2: ENVISION

- 1. Deepen community-wide understanding of the benefits and features of transforming the secondary school experience using a community-driven approach.
- 2. Understand and identify the systems, structures, processes and competencies needed to implement the plan and guide continuous improvement.

TIMELINE: 2 YEARS, 9 MONTHS -3 YEARS, 6 MONTHS



FORD NGL COMMUNITIES The second of the seco

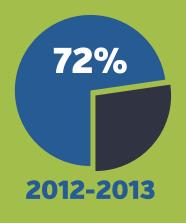


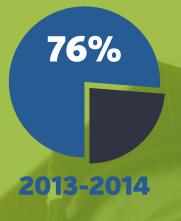
2013-2014 Graduation Rate

In 2013-2014, the overall graduation rate for Pinellas County rose by



from the previous year.







Graduation Rate Breakdown

2014 Graduation Rate

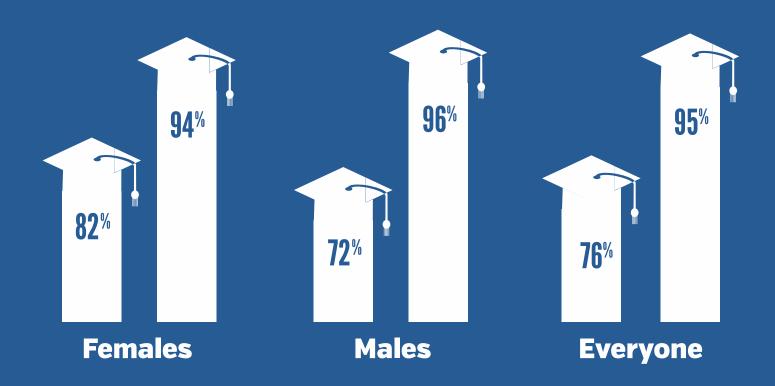
82% for Females

T2%
for Males

76% Overall

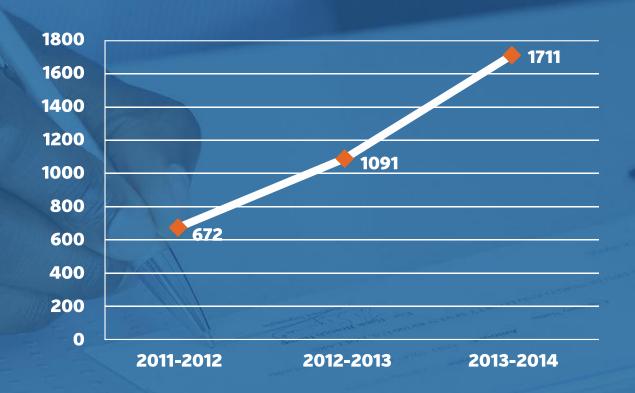


Graduation Rate for Student in Academies of Pinellas Compared to the Overall Graduation Rate in 2014





Career Education Growth



Industry Certifications Earned

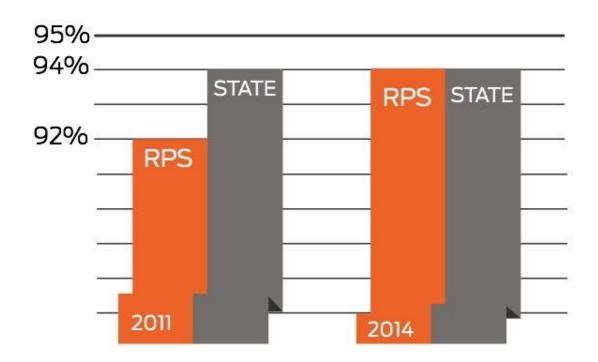




A FORD NGL COMMUNITY ROCKFORD, IL

2% INCREASE IN ATTENDANCE

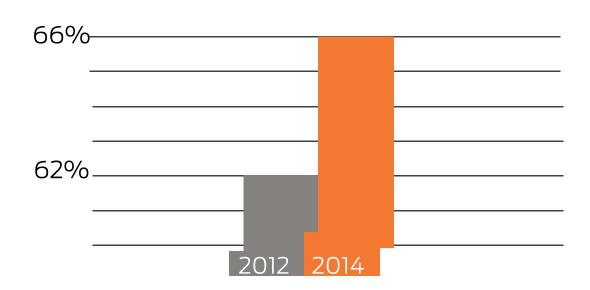
= \$1,000,000





4% GRADUATION RATE INCREASE

H.S. 4 YEARS





VOLUNTEERS



\$1,169,890 VALUE

48,583 **HOURS**



Powered by Ford STEM Academies

- Addressing a Need
 - Development of a strong talent pipeline
 - Proving students with tools and skills they need to be successful
- Partnering for a Solution
 - Funded by Ford Motor Company STEM Council
- Preparing Leaders and Learners
 - Equitable opportunities to access STEM careers and networks
 - Empowered to engage in the community as leaders and participants for change
 - Develop critical and marketable 21st Century workplace and life skills

Powered by Ford STEM Academies

- Engaging in Innovation
 - Problem-Based Case Learning (PBCL)
 - Collaborative Learning Externships
 - Design Thinking
 - Instructional Collaboration with Community and Workplace Partners
- Leveraging the Network
 - Access to thought partners
 - Access to local and national STEM networks
 - Support from Ford Motor Company Partnership Managers
 - Access to the national Ford NGL Network

PbF STEM Academies: Cohort 1

Cohort 2: Kentucky and Florida

- Jeffersontown High School Louisville, KY
 - BUILD Manufacturing Academy
 - DESIGN Engineering Academy
- Spruce Creek High School Port Orange, FL
 - Academy of Information Technology and Robotics

PbF STEM Academies: Cohort 2

Detroit, Michigan

- Academy of Math, Science, and Technology at Osborn HS
- Detroit Institute of Technology at Cody HS
- Detroit Leadership Academy
- Frederick Douglass Academy for Young Men
- Utica Center for Science and Industry

PbF STEM Academies: Cohort 3

- Metro Detroit
 - Center Line High School
 - Romeo Engineering and Technology Center
 - Utica Stevenson High School
 - Henry Ford Early College

