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
“If I had asked customers what they wanted, they’d said a faster horse.”

—Henry Ford
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.
The 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
ACADEMY TEAM STRUCTURE

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

Subjects:
- Science
- CTE
- Social Studies
- Language Arts
- Math
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
**The FORD NGL ROADMAP**

**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.

**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 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 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.”

**TIMELINE:**
2 YEARS, 9 MONTHS - 3 YEARS, 6 MONTHS
A FORD NGL COMMUNITY
PINELLAS COUNTY, FL
CAREER ACADEMIES & CAREER TECHNICAL EDUCATION
In 2013-2014, the overall graduation rate for Pinellas County rose by 4% from the previous year.
Graduation Rate Breakdown

2014 Graduation Rate

82% for Females
72% for Males

76% Overall
Graduation Rate for Student in Academies of Pinellas Compared to the Overall Graduation Rate in 2014

- Females: 82%
- Males: 72%
- Everyone: 76%
- Overall: 95%
Career Education Growth

Industry Certifications Earned

- 2011-2012: 672
- 2012-2013: 1091
- 2013-2014: 1711
INSIDE THE NUMBERS
A FORD NGL COMMUNITY

ROCKFORD, IL
2% INCREASE IN ATTENDANCE = $1,000,000
4% GRADUATION RATE INCREASE

H.S. 4 YEARS

66%

62%

2012 2014
3,311 Volunteers

$1,169,890 Value

48,583 Hours
• 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
• 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
• Metro Detroit
  – Center Line High School
  – Romeo Engineering and Technology Center
  – Utica Stevenson High School
  – Henry Ford Early College