

TALENT SUPPLY & EDUCATION Advisory Committee

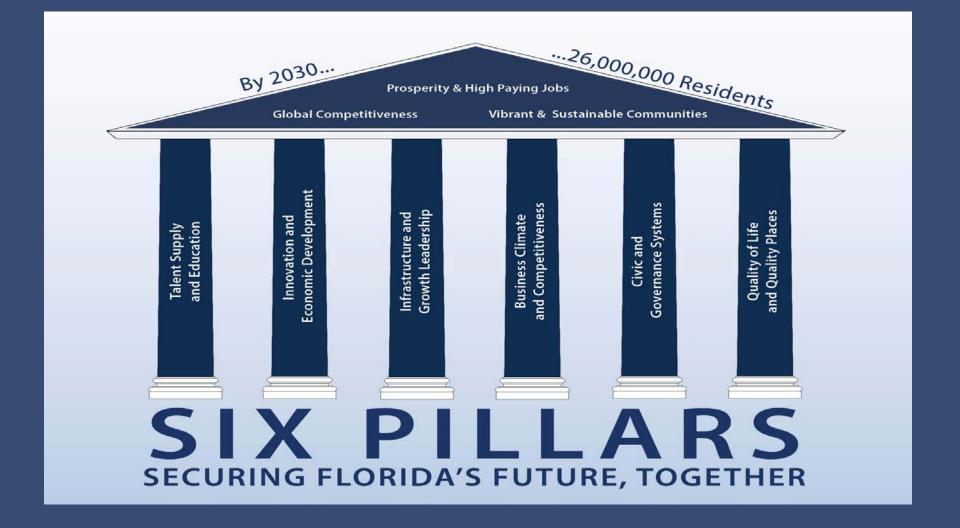
Meeting #4

June 15, 2017 9:00 AM-12 Noon

Today's Agenda

- Introductions
- What have we learned so far?
- Where do we want to go?
- How do we get there?
- Next steps





"We must plan better for the next 6 million Floridians than we did for the last 6 million"





Florida Chamber Foundation Trustees

Florida 2030
Executive Steering
Committee

Stakeholder, Association, and Agency Partners

Talent Supply & Education Advisory Committee

Innovation & Economic Development Advisory Committee

Infrastructure & Growth
Leadership
Advisory
Committee

Business Climate &
Competitiveness
Advisory
Committee

Civic &
Governance
Systems
Advisory
Committee

Quality of Life & Quality Places Advisory Committee

Caucus Members

Caucus Members

Caucus Members

Caucus Members

Caucus Members

Caucus Members



Committee Work Plan

Date	Activity
March 22-23	Kickoff meeting #1 in Tallahassee
April 18	Joint call of all committees
April 19	Meeting #2 via webconference
May 8	Meeting #3 via webconference
June 14-15	Meeting #4 in person in Orlando
July	Surveys or review of draft documents
August	Meeting #5 via webconference
September 27-29	Meeting #6 in person at Future of Florida Forum (Orlando) - review draft Pillar research report
March 2018	Rollout of Florida 2030 report

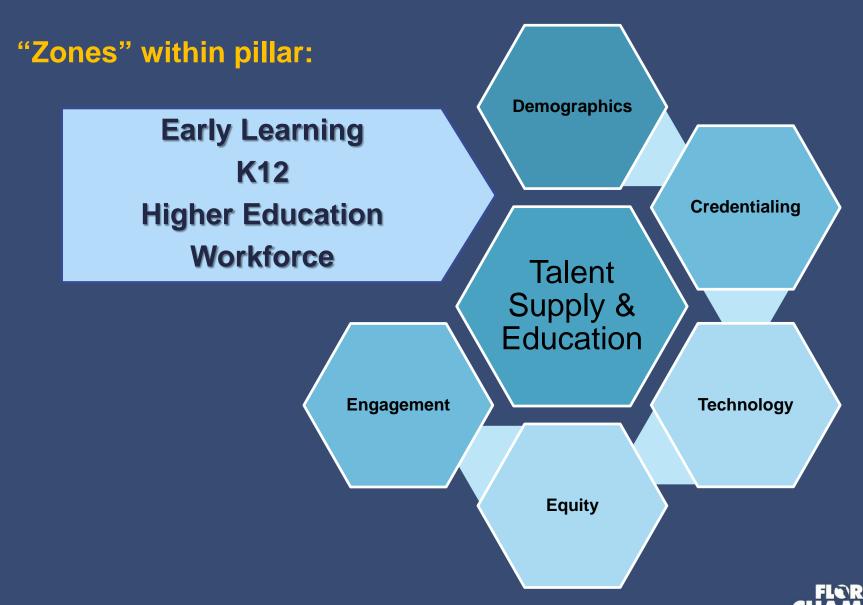


Today's Agenda

- Introductions
- What have we learned so far?
- Where do we want to go?
- How do we get there?
- Next steps



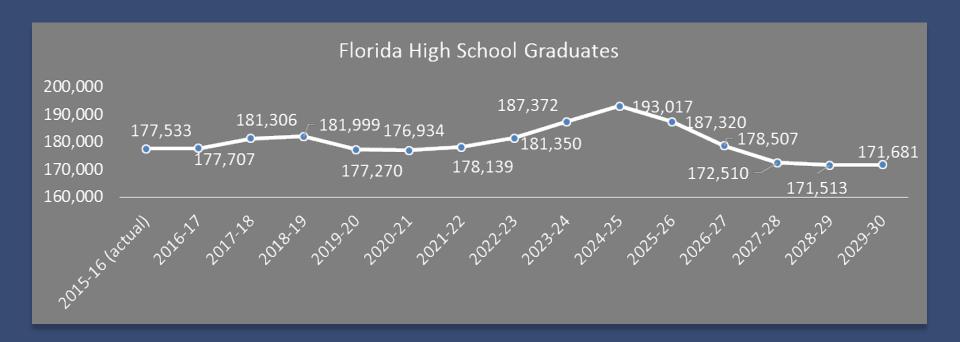
What Have We Learned So Far?



Talent Supply & Education Focus Area: Demographics



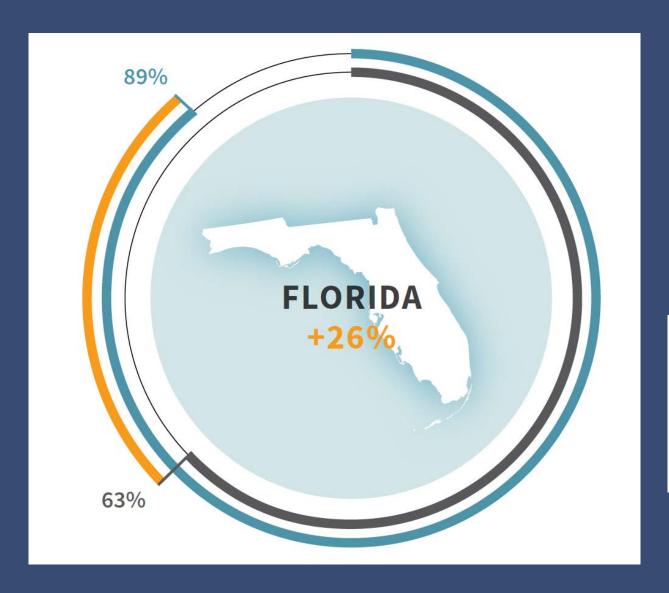
What have we learned so far? Demographics



Source: WICHE, 2017.



What have we learned so far? Demographics



HOW MANY PEOPLE ARE IN THE CART?

HOW MANY PEOPLE ARE PUSHING IT?

AGE DEPENDENCY RATIO*
(2010 vs 2030)

*The age dependency ratio is derived by dividing the combined under 18 and 65-and-over populations by the 18-to-64 population and multiplying by 100.



What have we learned so far? Demographics

By 2029 baby boomers will be reaching retirement age which will dramatically affect the workforce of the future





- Millennials are expected to make over 70% of the workforce by 2030
- About 30 million have some college, no degree

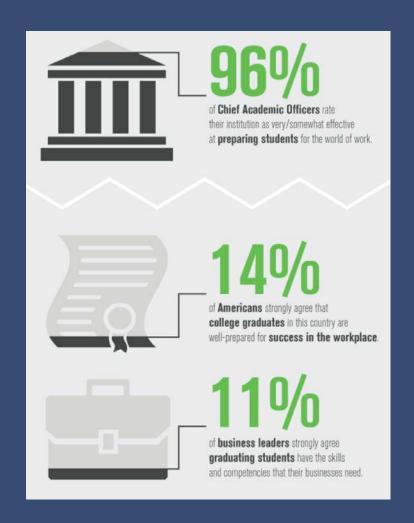


Talent Supply & Education Focus Area: Credentialing



Issues throughout pipeline:

- **Early Learning providers are** NOT typically trained, credentialed, supervised, evaluated
- Substantial teacher shortages in many areas:
 - Special education, ELL/ESL, Math, Science, Reading
- Gallup/Lumina poll are college graduates prepared to start careers? Disconnect

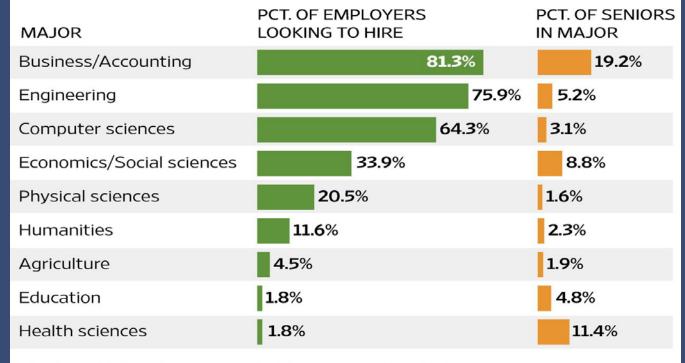




Misaligned
Degree
Production
vs Demand
(WSJ)

The College Majors Employers Want

Employers are on the hunt for engineering, business and computer-science graduates; here's how popular those majors are among college seniors.



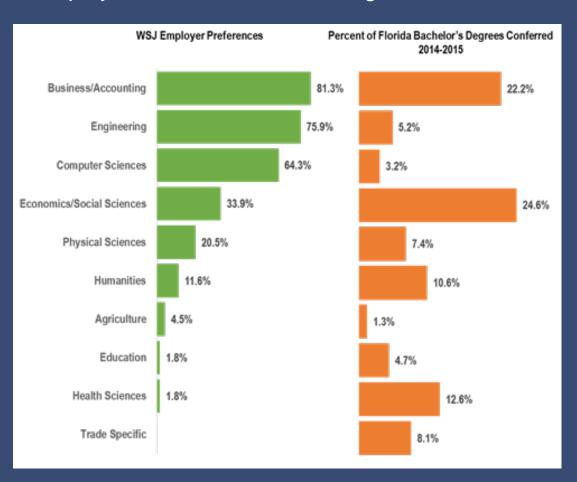
Note: Current hiring plans compared with degrees conferred in 2015

Sources: National Association of Colleges and Employers;

National Center for Education Statistics THE WALL STREET JOURNAL.



Employer Needs vs. Florida Degree Production



FLORIDA

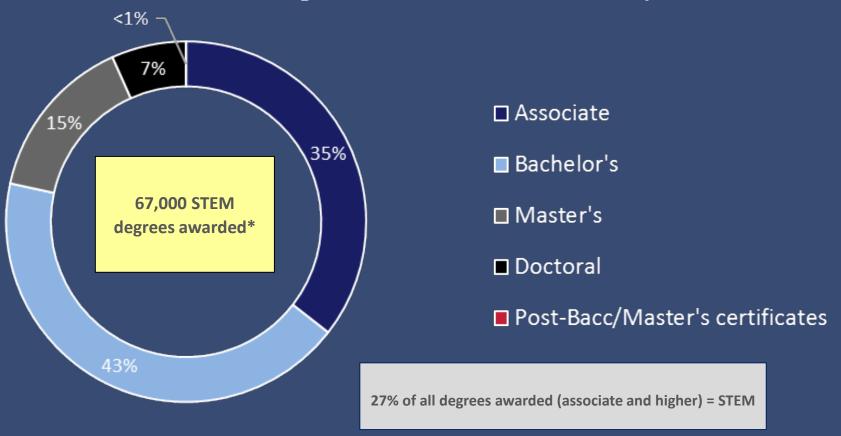
2015 STEM Degree Output* 67,000

Annual STEM Job Openings* to 2024 39,000

* 2-year degree or higher



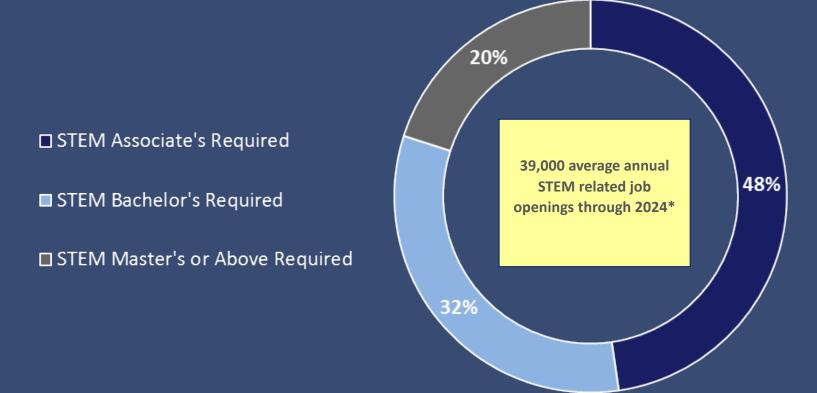
2014-15 STEM Degrees Awarded in Florida by Level



^{*}An additional 36K post-secondary vocational certificates in STEM disciplines were awarded in 2014-15. Source: IPEDS, 2017.



DEMAND – Florida STEM Related Job Openings to 2024
Share of Annual Openings Requiring a STEM Degree, by Level



^{*}An additional 20K positions requiring post-secondary vocational certification will be available annually.



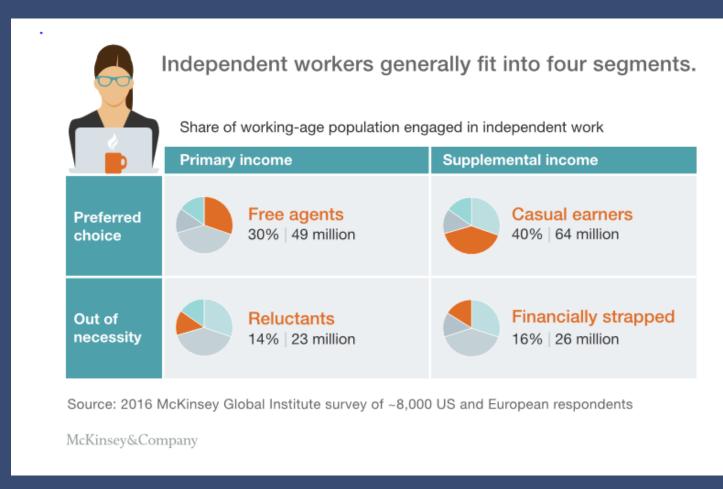
- Demands for middle skills by vs. provider supply
 - Some with no gap (well-aligned)
 - Others with a

 large gap
 (disconnect
 between programs
 and postings)

Occupational Family (+ Top Titles) Management - Production Supervisors - Transportation, Storage, and Distribution Managers Office and Administrative Services - Insurance Claims Clerks Business and Financial Operations - Employment, Recruitment, and Placement Specialists - Training and Development Specialists - Computer User Support Specialists - Computer Network Support Specialists	
- Production Supervisors - Transportation, Storage, and Distribution Managers Office and Administrative Services - Executive Secretaries and Executive Assistants - Insurance Claims Clerks Business and Financial Operations - Employment, Recruitment, and Placement Specialists - Training and Development Specialists Computer and Mathematical - Computer User Support Specialists - Computer Network Support Specialists Sales and Related	13 Job tings in dle Skills upations e: Burning Glass)
- Executive Secretaries and Executive Assistants - Insurance Claims Clerks Business and Financial Operations - Employment, Recruitment, and Placement Specialists - Training and Development Specialists Computer and Mathematical - Computer User Support Specialists - Computer Network Support Specialists Sales and Related	10,652
- Employment, Recruitment, and Placement Specialists - Training and Development Specialists Computer and Mathematical - Computer User Support Specialists - Computer Network Support Specialists Sales and Related	55,134
- Computer User Support Specialists 21% 39% 60% 220 - Computer Network Support Specialists Sales and Related	35,921
	26,240
- Supervisors of Retail Sales Workers	91,113
Architecture and Engineering - Electrical and Electronic Engineering Technicians - Mechanical Drafters 10% 26% 36% 73	3,431
Healthcare Practitioners - Registered Nurses - Radiologic Technologists Source: Burning GLASS 1	38,539

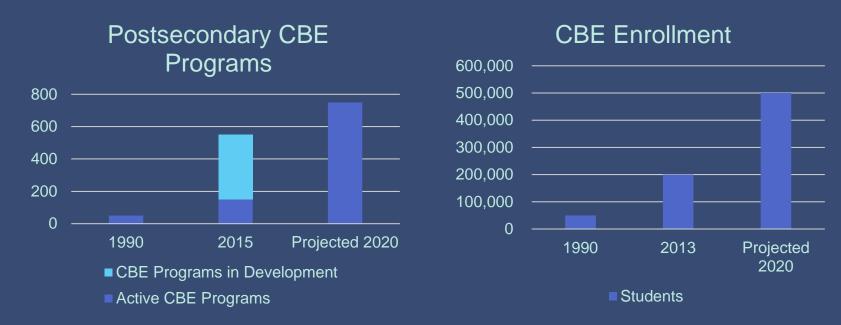


 "Gig" economy - 20-30% working age pop is independent worker (all occupations, all levels)





- Competency-Based Education (CBE) rapidly expanding.
- Eduventures on CBE:
 - Mostly adults learning through self-paced programming offered wholly or mostly online. Driving this growth will be, among other things, programs designed explicitly around employer demand, which is a key driver of growth in this market.



Source: Eduventures – Mapping the Competency Based Universe (2015)



- Workforce hiring shifting from pedigree to competency model
- College degree formerly a proxy for soft skills/employability; no longer seen as such
- 46.3 million hold professional certificates or licenses while 19.1 million have education certifications
 - Nondegree credentials have significant impact on lifetime earnings (Institute for Higher Ed)
 - Postsecondary certificate vs. HS 20% wage premium
 - IT certificate relative to degrees: +72% over associate degree earnings, +54% over bachelor's earnings

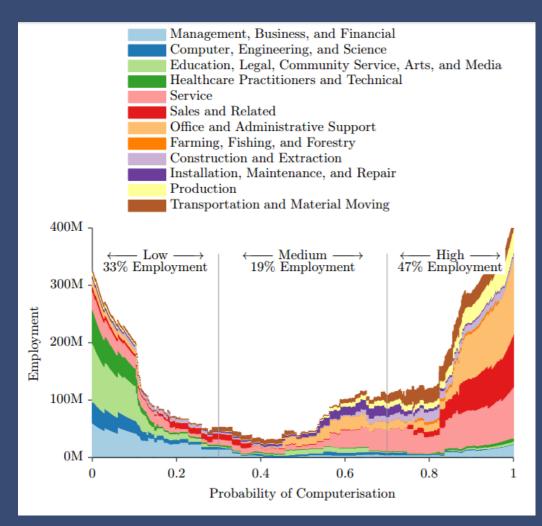


Talent Supply & Education Focus Area: Technology



What have we learned so far? Technology

- 47% of US jobs with "high" potential to be automated in near future (Oxford)
- 45% of activities (\$15 trillion) in global marketplace could be automated by current tech (McKinsey)
- Most jobs in transportation and logistics; office and administrative support workers, and labor in production occupations at risk



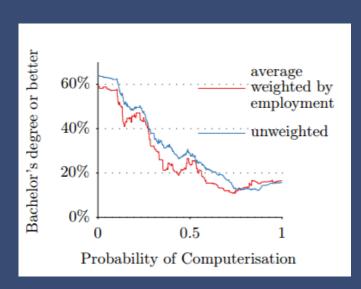
Oxford University: The Future of Employment, Carl Benedikt Frey & Michael Osborne (2013)



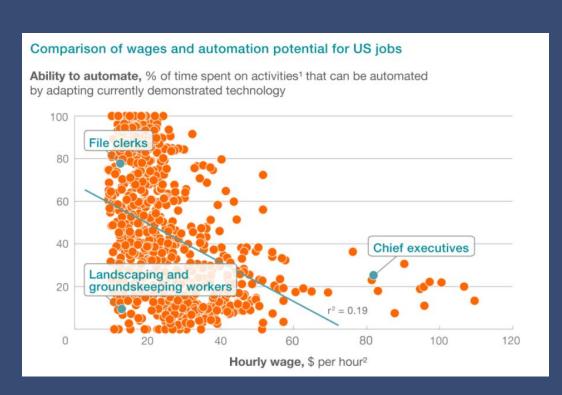
What have we learned so far? Technology

High wages and educational attainment both exhibit a strong negative relationship with an occupation's probability of automation

FL2030@FLCHAMBER.COM



Oxford University: The Future of Employment, Carl Benedikt Frey & Michael Osborne (2013)



Four Fundamentals of Workplace Automation, McKinsey Quarterly November 2015

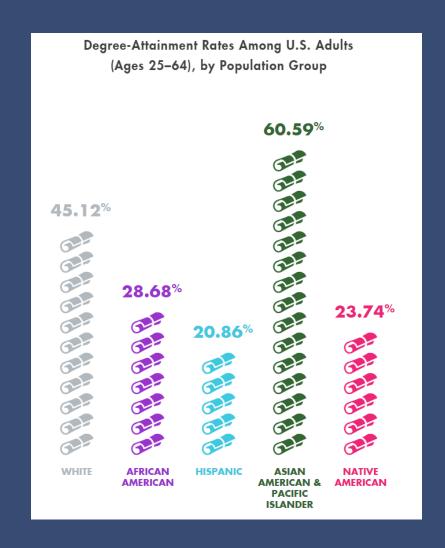


Talent Supply & Education Focus Area: Equity



What have we learned so far? Equity

- The Great Divide Despite robust growth driven by strong hightech industries there is a danger posed by a two-tiered Florida that reinforces the economic position of the "haves" and "have nots"
- Women make up nearly half of the workforce but continue to be paid less than men in the same jobs
- Rural and Economically
 Disadvantaged Floridians lack
 access and opportunity afforded
 by Early learning, Technology,
 Training



Lumina Foundation – Why Equity and Excellence Matters





Talent Supply & Education Focus Area: Engagement



What have we learned so far? Engagement

Public Policy

 Early learning, afterschool, and summer programs – despite evidence showing "derailment" of career pathways long before entry into job market, awareness is huge impediment to action

Industry-Education

 Substantial obstacle to solving skills gap is lack of connectivity and responsiveness between business community and higher education

Worker-Education

 Rapid evolution of new economy will require unprecedented transparency in demand and training options to allow workers to continually transition (evolve) between sectors into highdemand jobs

#FI 2030



DISCUSSION: Other Disruptors or Key Trends

Other disruptors that should have elevated focus.....

Within 5 identified focus areas?

Additional focus areas?





Today's Agenda

- Introductions
- What have we learned so far?
- Where do we want to go?
- How do we get there?
- Next steps



PRIMERS

- Universal early learning access
- Colorado CareerWise apprenticeship programs
 - 140 HS students; 50 businesses 2027 goal of 20k students
 - Salary + college credit

Finland Ed Model:

- Wholesale change to topic-based learning vs. subjects:
 - e.g., integrated EU lesson including geography, literature, economics, and government
- Focus on activity, engagement, out of classroom experience

Denver Sustainability School

- Project-based curriculum, entrepreneurial opportunity
- College and career experience throughout



PRIMERS (continued)

Postsecondary education:

- Continued transition from pedigree to competency
- e.g., Kentucky coal miners transition to coders

Stackable Credentials

- Vertical traditional model
- Horizontal discipline related
- Value-added areas of expertise for specific job

Accreditation:

- Red tape creating market inefficiencies; sometimes proprietary options as sole alternative – what is a better way?
- Expansion of "Gig" Economy How do we support?



PRIMERS (continued)

- Nimble and adaptive educational systems and governance – foster laboratories; identify best practice; continuous improvement; locally driven/globally connected
- Research and development tech transfer, investment and collaboration between education/industry, incubators
- Efficient, aligned competency delivery within lifelong learning model – de-emphasize "graduation?"



BREAKOUT: Early Learning & K12

- What would this pillar look like if Florida is a top 10 economy globally by 2030?
- What would this pillar look like if we had a pathway to prosperity for all zip codes in the state by 2030?
- What would this pillar look like if Florida's communities lead the nation and world as places to live, work, and visit?
- How should we measure success in 2030?





BREAKOUT: Higher Ed & Workforce

- What would this pillar look like if Florida is a top 10 economy globally by 2030?
- What would this pillar look like if we had a pathway to prosperity for all zip codes in the state by 2030?
- What would this pillar look like if Florida's communities lead the nation and world as places to live, work, and visit?
- How should we measure success in 2030?





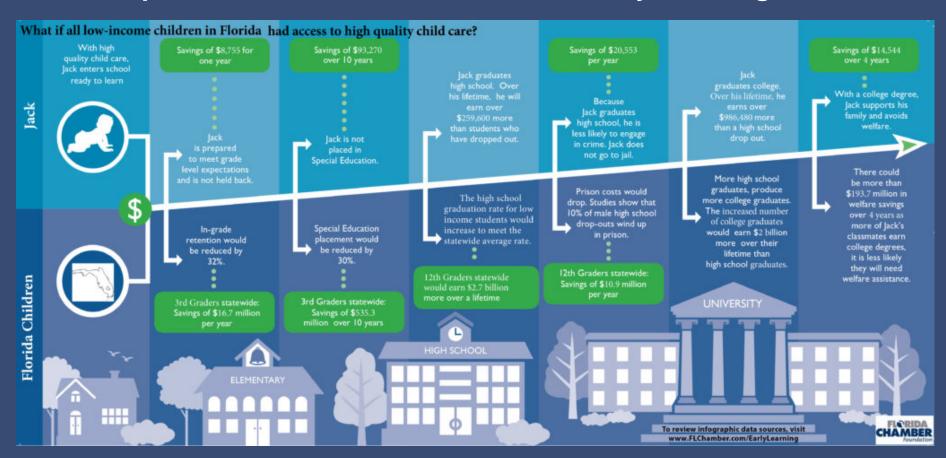
Today's Agenda

- Introductions
- What have we learned so far?
- Where do we want to go?
- How do we get there?
- Next steps



PRIMERS

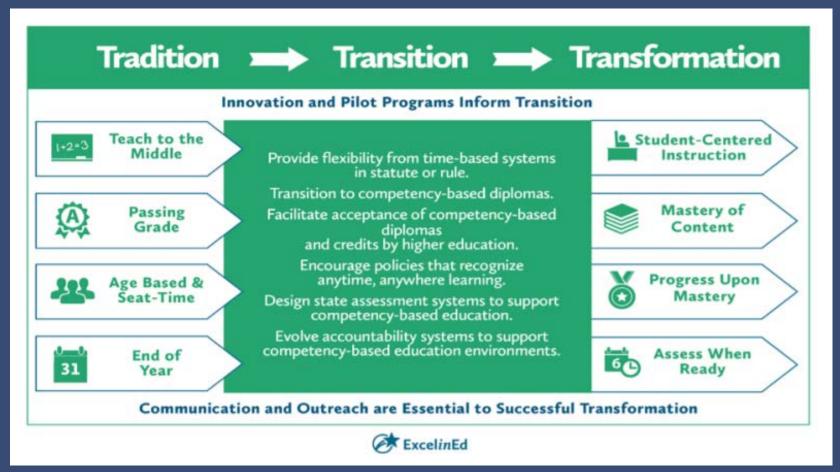
The public must understand the ROI of Early Learning





PRIMERS

Competency-Based Education in K12 - ExcelinEd:



Source: ExcelinEd, Policy, Pilots, and the Path to Competency-Based Education: A National Landscape (2017)



PRIMERS (continued)

- **Educause CBE** implementation framework:
 - Approach/delivery models
 - Alignment with enablers, entities
 - Tools & technology
- What has to exist for education pipeline to be aligned with industry demands?



Source: Eduventures – Mapping the Competency Based Universe (2015)



PRIMERS (continued) Success in the New Economy

https://vimeo.com/67277269



BREAKOUT: Early Childhood & K12

- What key issues need attention?
- What major risks do we face?
- What should we keep doing?

What should we be doing differently?





BREAKOUT: Higher Ed & Workforce

- What key issues need attention?
- What major risks do we face?
- What should we keep doing?

What should we be doing differently?





Today's Agenda

- Introductions
- What have we learned so far?
- Where do we wan to go?
- How do we get there?
- Next steps



Committee Work Plan

Date	Activity
March 22-23	Kickoff meeting #1 in Tallahassee
April 18	Joint call of all committees
April 19	Meeting #2 via webconference
May 8	Meeting #3 via webconference
June 14-15	Meeting #4 in person in Orlando
July	Surveys or review of draft documents
August	Meeting #5 via webconference
September 27-29	Meeting #6 in person at Future of Florida Forum (Orlando) - review draft Pillar research report
March 2018	Rollout of Florida 2030 report



Next Steps

Continued input:

- Pillar advisory committee interviews, online survey, follow up
- Additional stakeholders representing each of pillar zones
- Iterative feedback from MGT expert panel
- Goal, strategy, metric development and refinement
- Communication strategy
 - internal (advisory committee) August web conference (TBD)
 - external (full universe of stakeholders)
- Presentation of "draft" results at Future of Florida Forum





1,000s of Floridians

- 6 Pillars
- 2 Years
 - 1 Plan

FL 2030 @ FL Chamber.com