African Leaders Day

Official Government & Civil Society Leaders Breakfast

Innovation Africa 2018
Africa's Official Ministerial Summit

What's Keeping the Leaders up at Night? (with Q & A)

Innovation Africa 2018
Africa's Official Ministerial Summit

Mr Norberto Carrascal

EMEA Public Sector Director

Intel Corporation

WHAT KEEPS OUR LEADERS AWAKE?

YOU

Norberto Mateos Carrascal
Corporate and Public Sector Director
EMEA Territory
Nov 28th, 2018

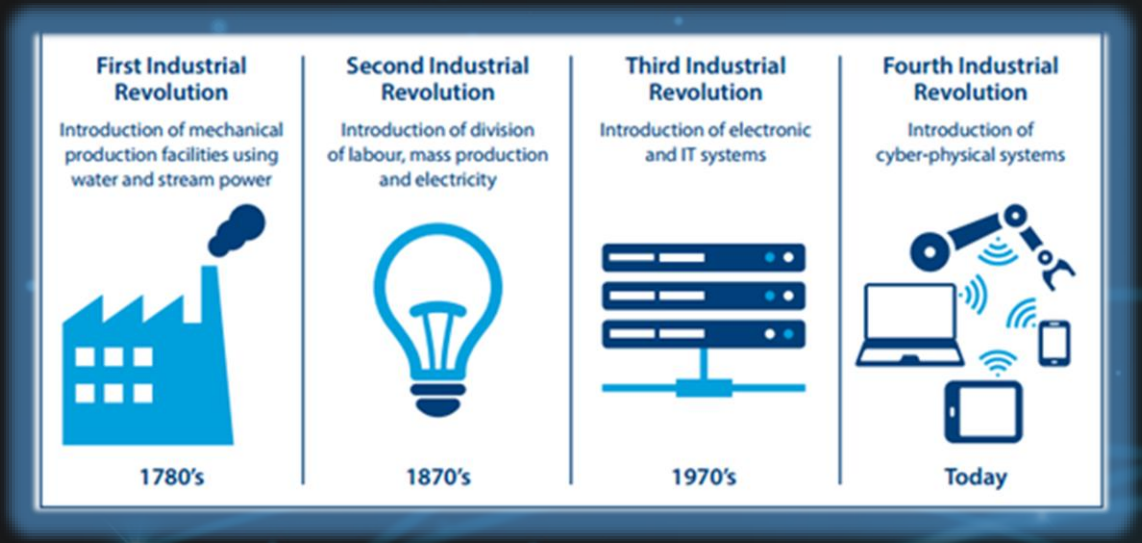
intel

INSECURITY?
INFRASTRUCTURES?
HEALTH SERVICES?
POVERTY REDUCTION?
DROUGHTS?
GOVERNANCE?
EQUALITY?
GENDER EQUALITY?
POPULATION GROWTH?
CRIME?
ENERGY AVAILABILITY?
AGRICULTURAL DEVELOPMENT?
EDUCATION?

"But what really keeps Adesina up at night is how the bank through entrepreneurship development can alleviate the issue of ***youth unemployment*** *in Africa"*

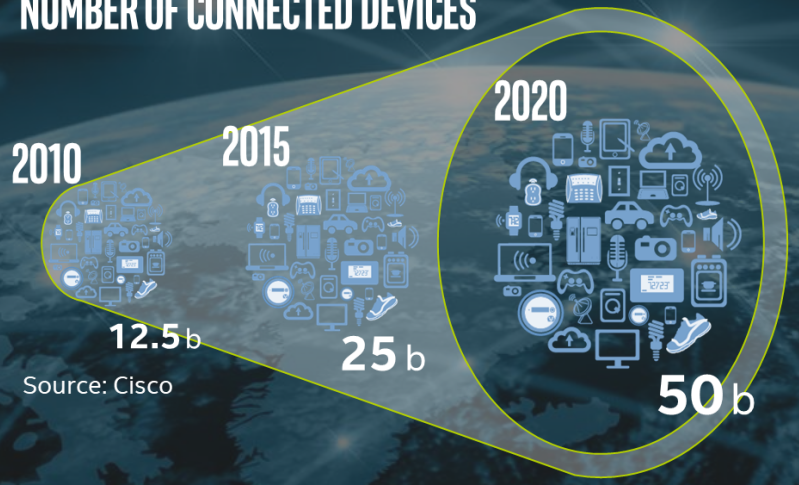
EMPLOYMENT IN THE NEW REALITY

INDUSTRY 4.0



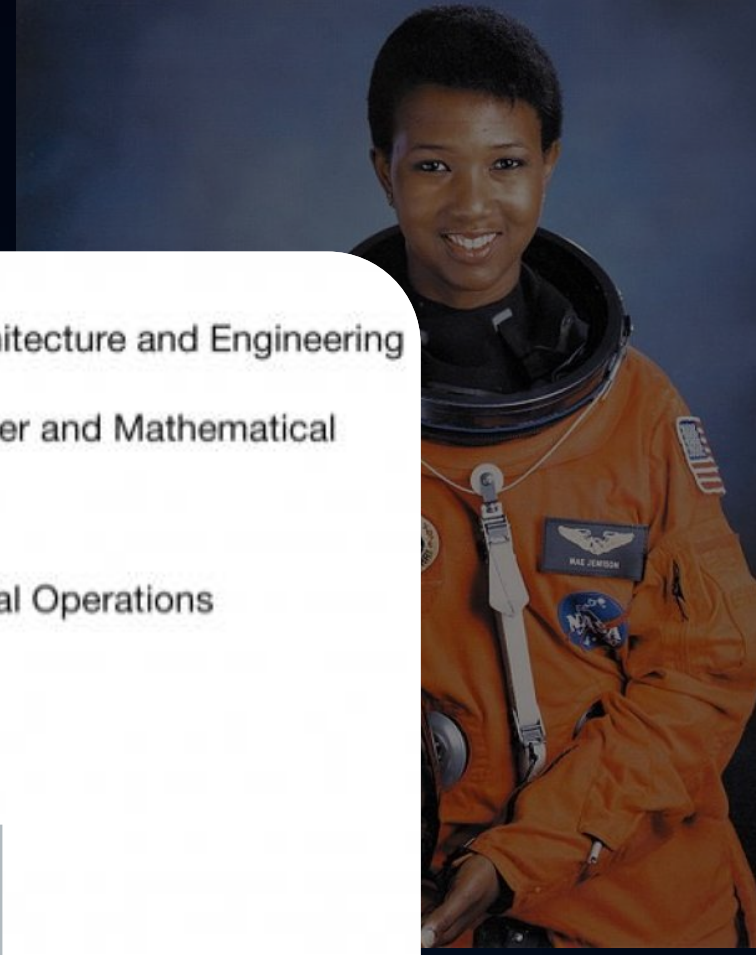
Source: McKinsey

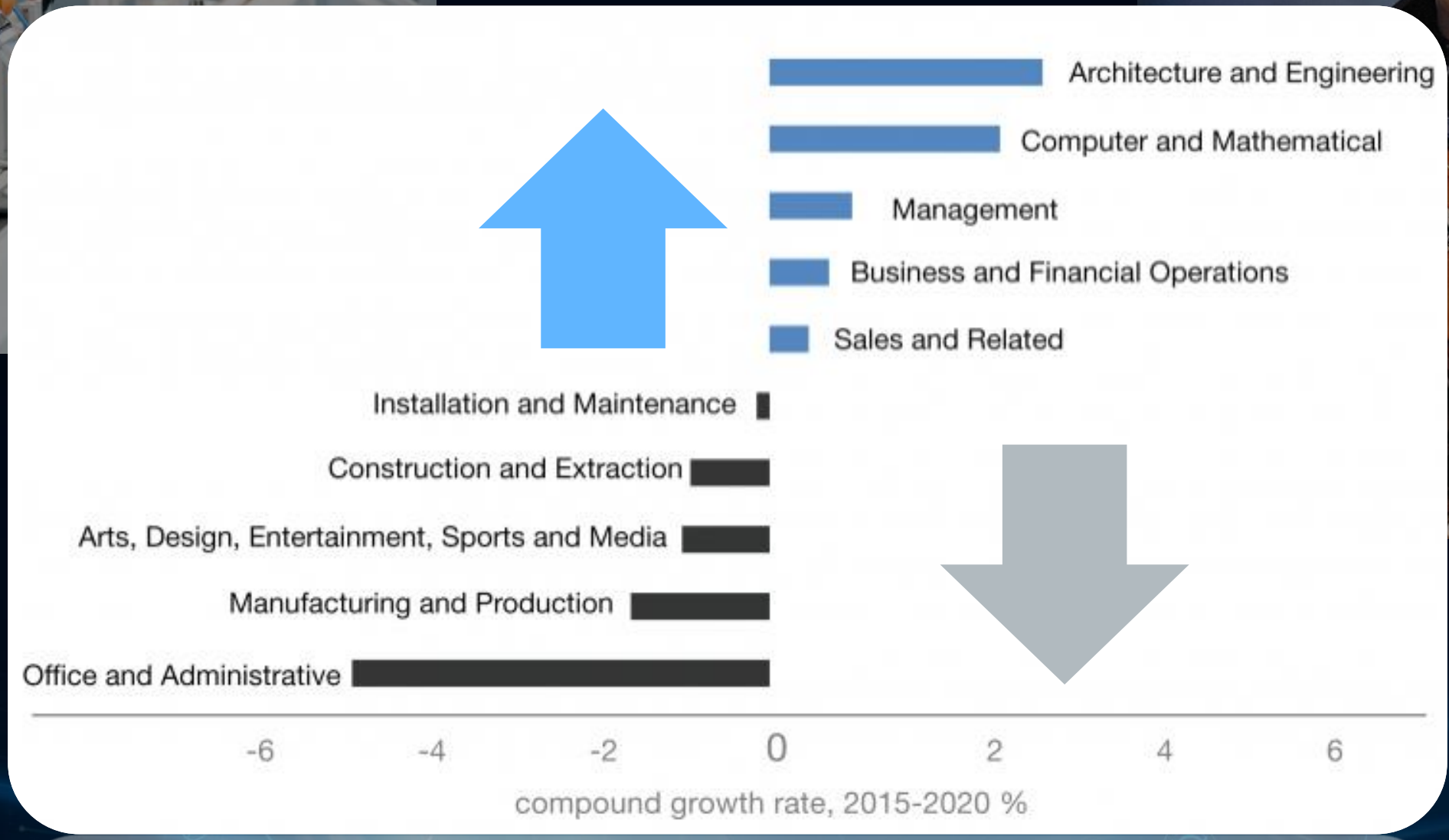
NUMBER OF CONNECTED DEVICES



Source: Cisco

WHERE ARE THE JOBS OF TOMORROW?





INNOVATION DRIVES SHIFT IN WORKFORCE

47%

Oxford researchers calculate this is the percentage of American employment that is at risk because of the expected impacts of computerization in the foreseeable future

http://www.oxfordmartin.ox.ac.uk/downloads/academic/The_Future_of_Employment.pdf

50%

McKinsey analysts estimate this is the share of activities workers are paid to do now that could be automated using currently available technologies – accounting for $15 trillion in wages

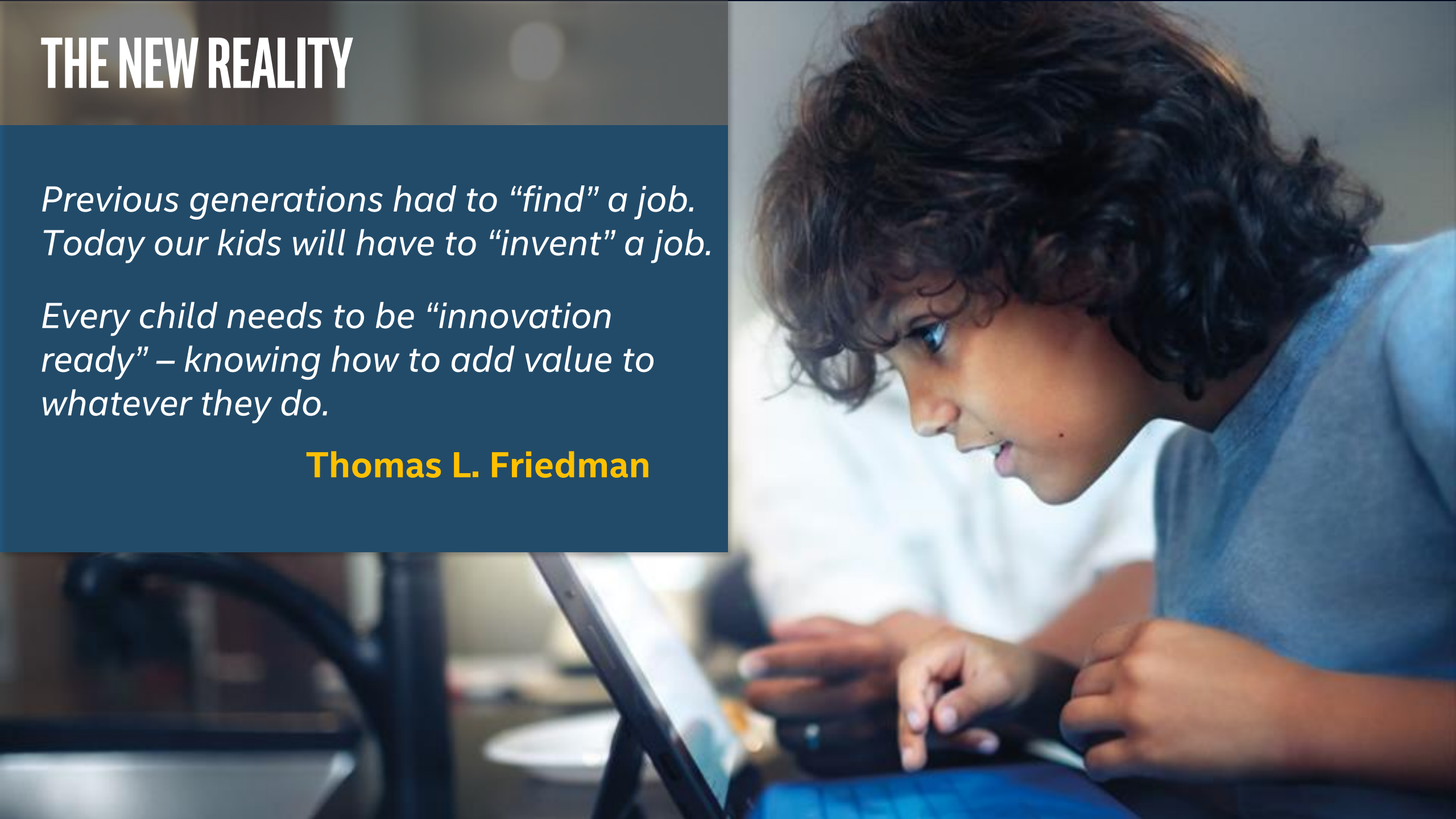
https://www.mckinsey.com/global-themes/digital-disruption/harnessing-automation-for-a-future-that-works

THE NEW REALITY

Previous generations had to "find" a job. Today our kids will have to "invent" a job.

Every child needs to be "innovation ready" – knowing how to add value to whatever they do.

Thomas L. Friedman



ACTIVATING THE INNOVATION GENERATION

EDUCATION → ENTREPRENEURSHIP → EMPLOYABILITY

Increase Country Competitiveness

Enhanced teaching & learning for all

Build Required Competencies

New job skills & re-skilling

Boost Economic Development

Grow ICT industry base, jobs & revenue

Enhance Citizenship & Social Cohesion

Narrow divide, include rural, sustain locally

PREPARING THE INDUSTRY 4.0 GENERATION

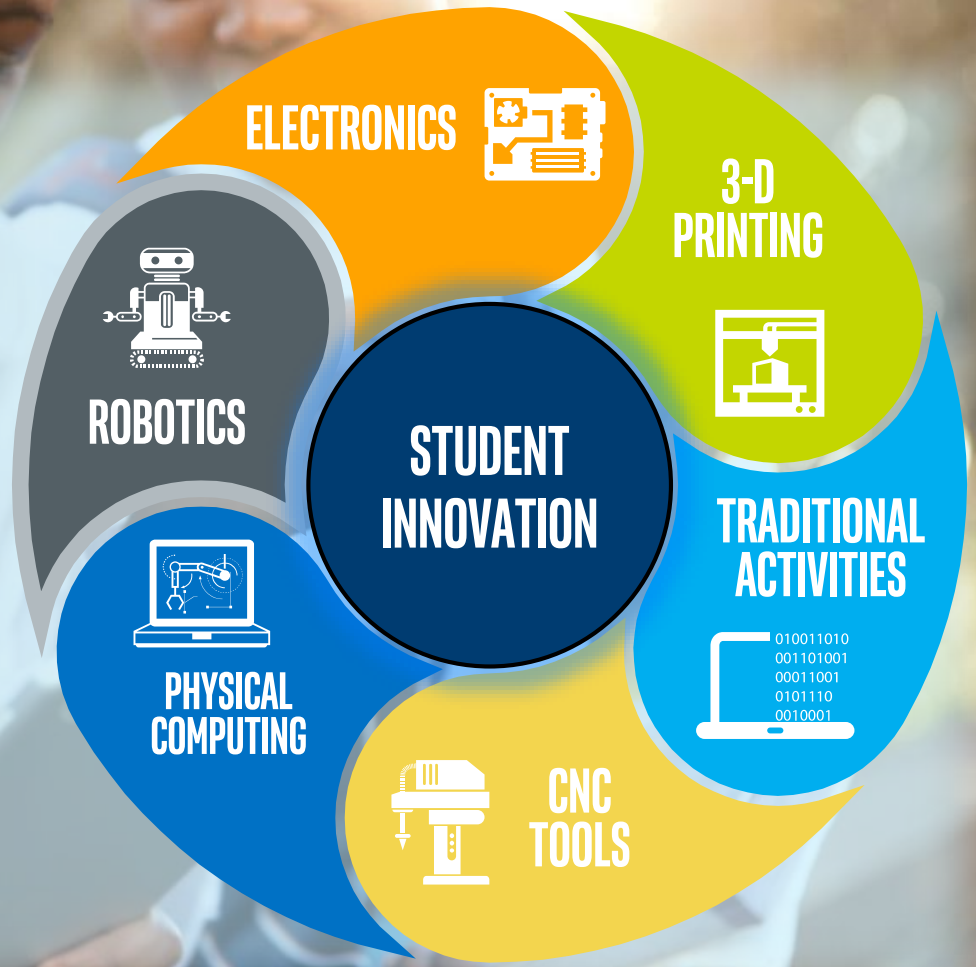
SKILLS 4.0

- Novel & Adaptive learning
- Computational Thinking
- New-media literacy
- Virtual collaboration
- Design mindset

CODING/ PROGRAMMING

PHYSICAL COMPUTING

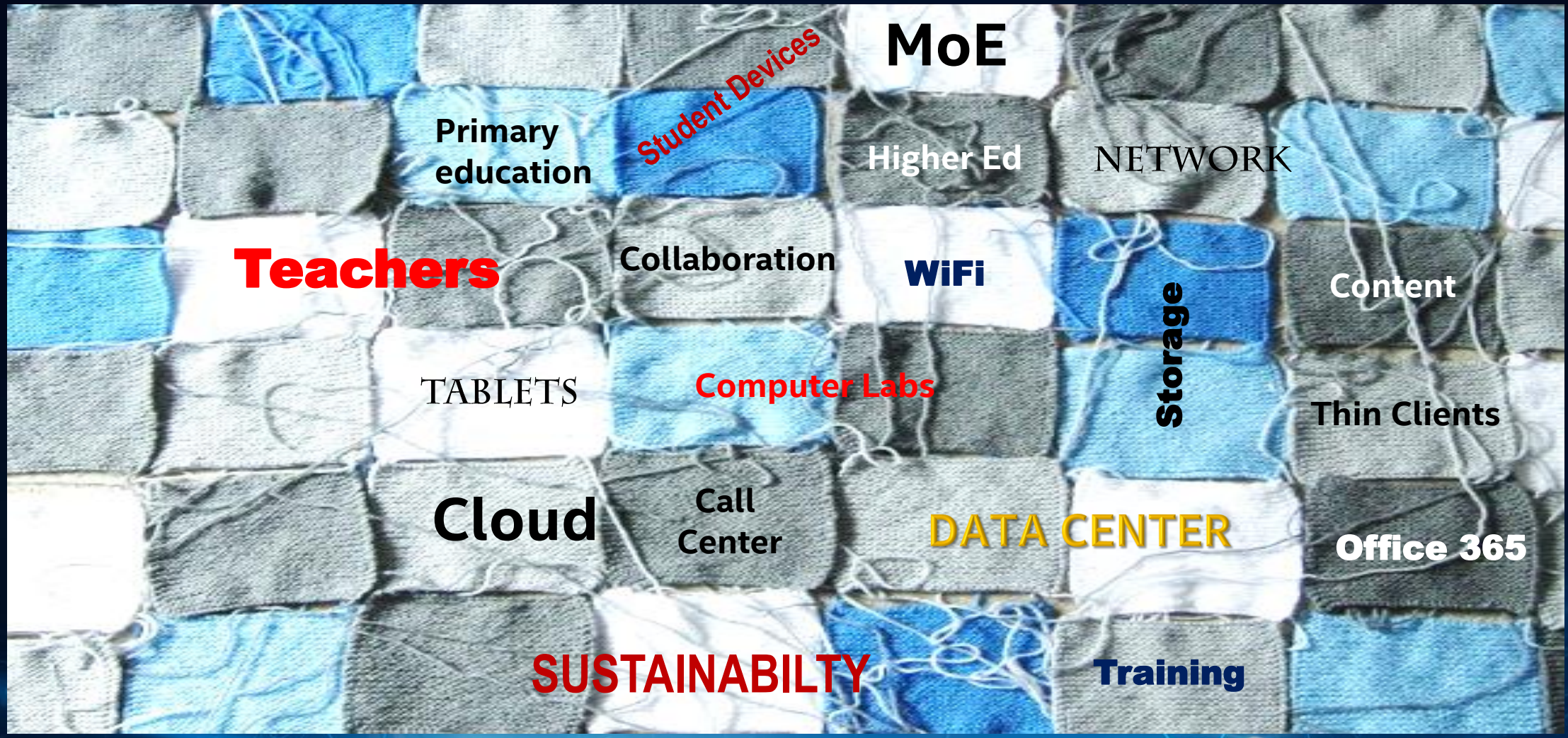
ROBOTICS



INTEL® IN EDUCATION: AN EXPERIENCED COLLABORATOR

- **Research-based**: Our approach is based on scientific research, vetted by educational professionals and evaluated in real-life settings for over 15 years
- **Committed**: More than USD 1 billion invested over more than a decade
- **Extensive**: Programs in more than 100 countries, over **15** million teachers trained
- **Collaborative**: Bringing together governments, NGOs and technology companies worldwide
- **Effective**: Global perspective & experience, industry-leading technologies and solutions

PATCHWORK PLAN → STRUCTURED SOLUTION



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DRIVING INNOVATION IN EDUCATION
WHAT DOES NOT WORK...

- Position initiative as a technology project
- Limit scope to use in classroom only
- Drive exclusively by one organization
- Position as a pilot vs. first phase of new way forward
- Wait until all the stars align – anlaysis/paralysis

DRIVING INNOVATION IN EDUCATION
WHAT WORKS...

- ✓ Government commitment supported with a plan
  clear deliverables, baseline & measurable outcomes
- ✓ Get early wins in challenging environments (lighthouse projects)
- ✓ Empower teachers with new learning methods
- ✓ Integrate global content and develop local content
- ✓ Forge Private/Public Partnernships for sustainability

Start with a solid plan..

Achieving
YOUR VISION
of student success

For GER all dates are provisional, dates are subject to consultation where applicable and local law requirements.

These are the proposed changes to commission for 2018, we do not anticipate proposing any changes to the above. When required, these changes are subject to agreement with appropriate labor groups/employee bodies

ICT PROGRAM TRANSFORMATION : STRUCTURED VIEW

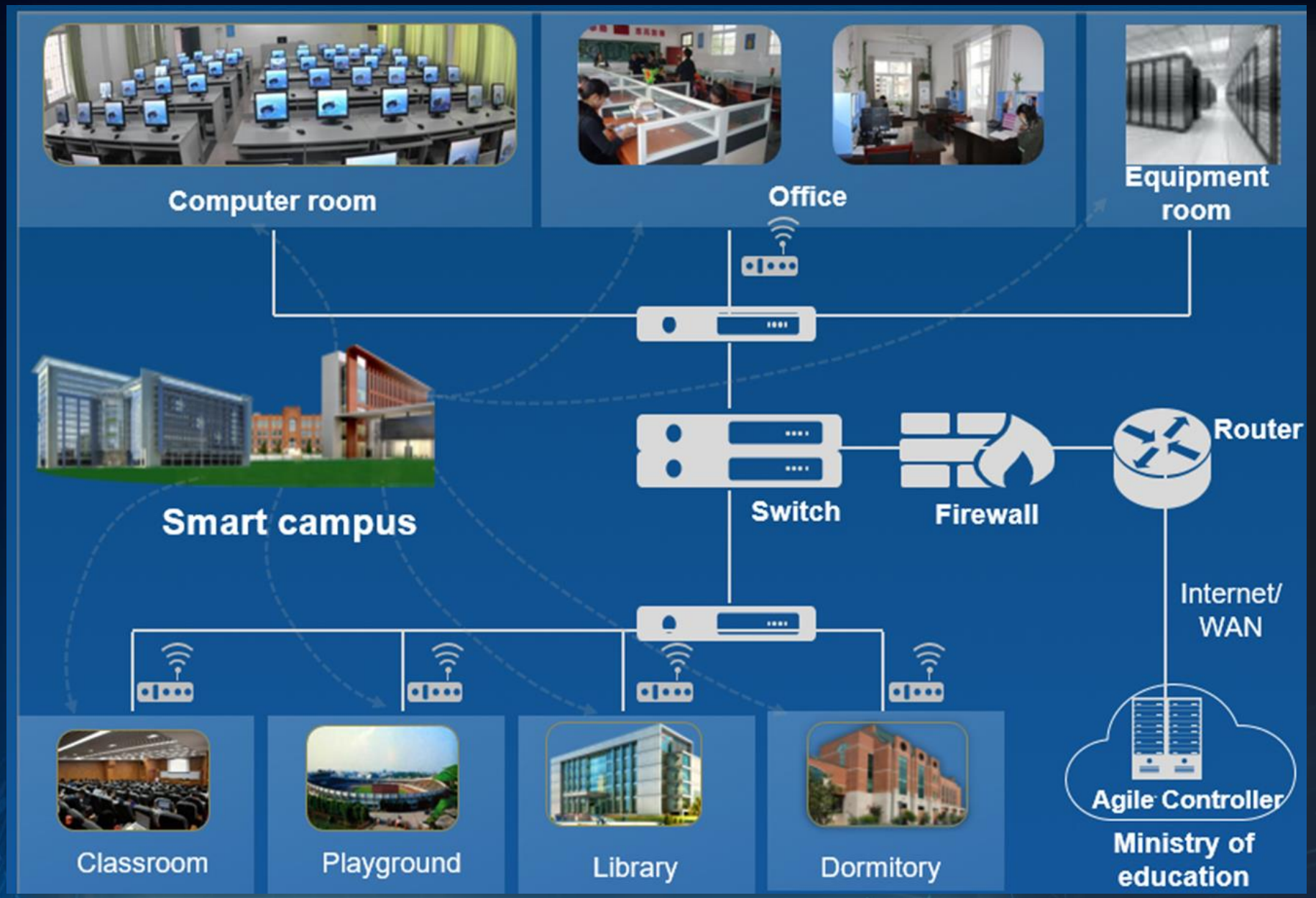
Component 1	Component 2	Component 3	Component 4	Component 5
Data Center	MoE Workplace	Teacher Devices	School Hub 4.0	Student Devices

Phase 1

Phase 2

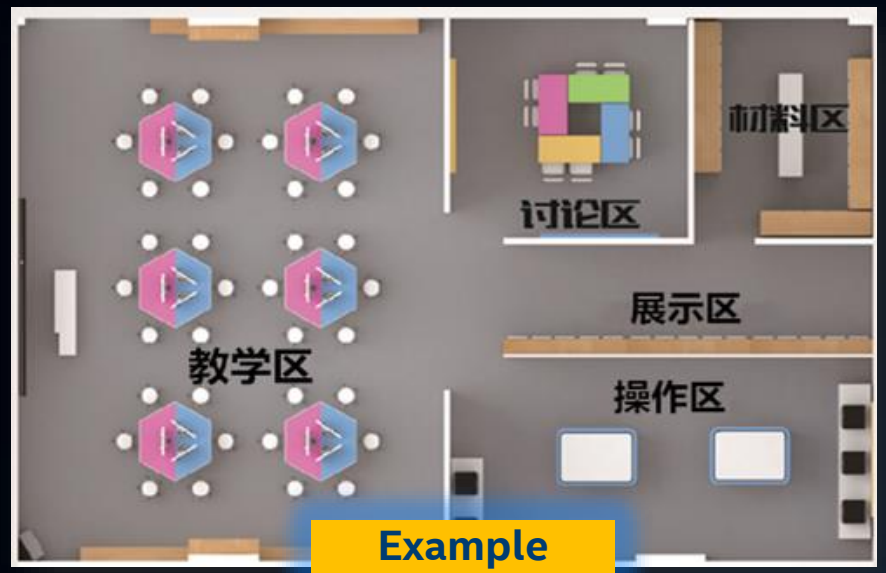
Phase 3

SMART CAMPUS EXAMPLE



SHOWING LEADERSHIP

NEW REALITY 4.0 REQUIRES SCHOOL 4.0 HUBS



Example center layout

TRAINING CENTER

Provide SL/HL, Cloud-edge AI courses training and certification

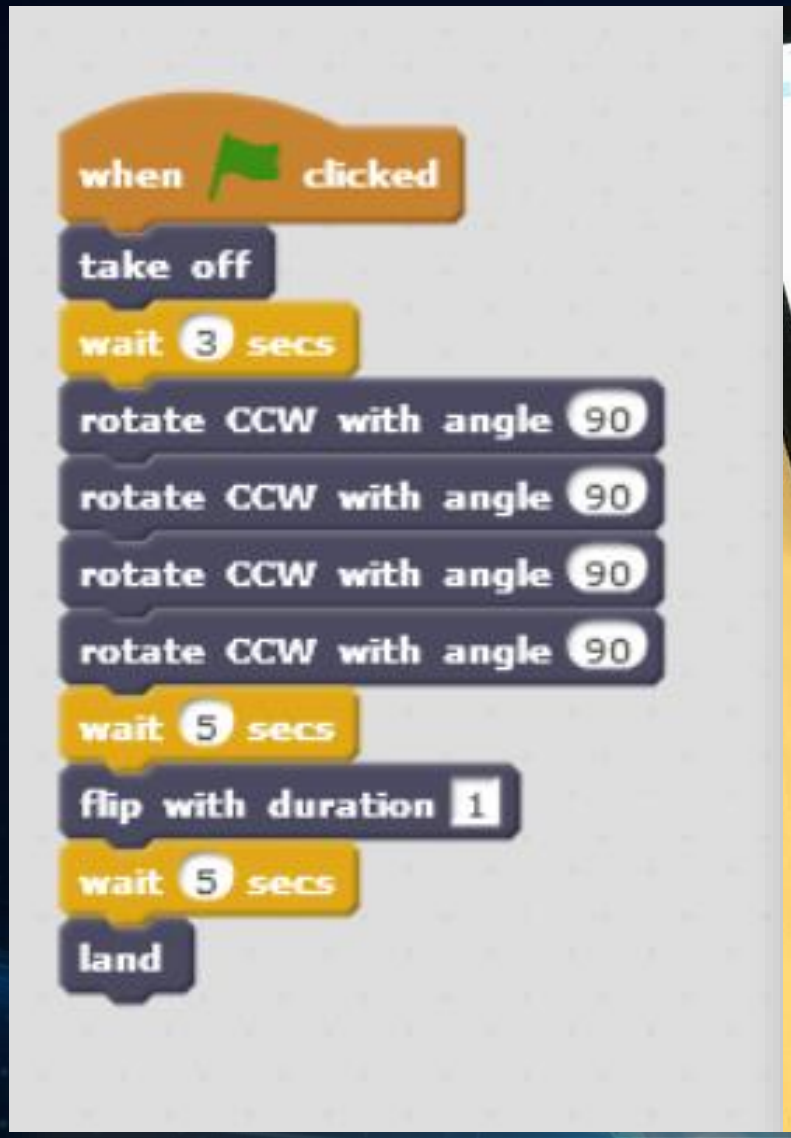
LAB

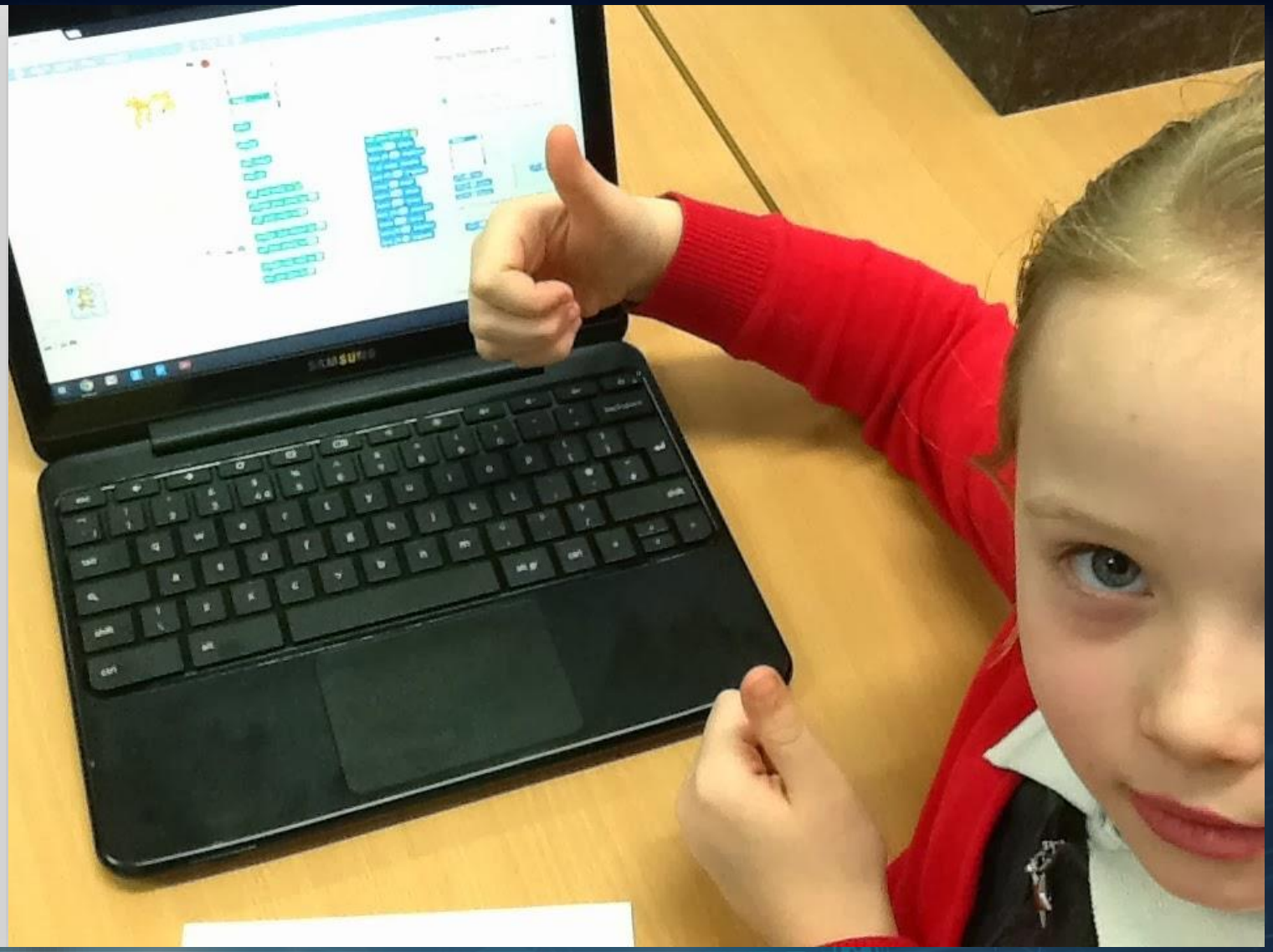
Explore AI application and usage scenario

INCUBATOR

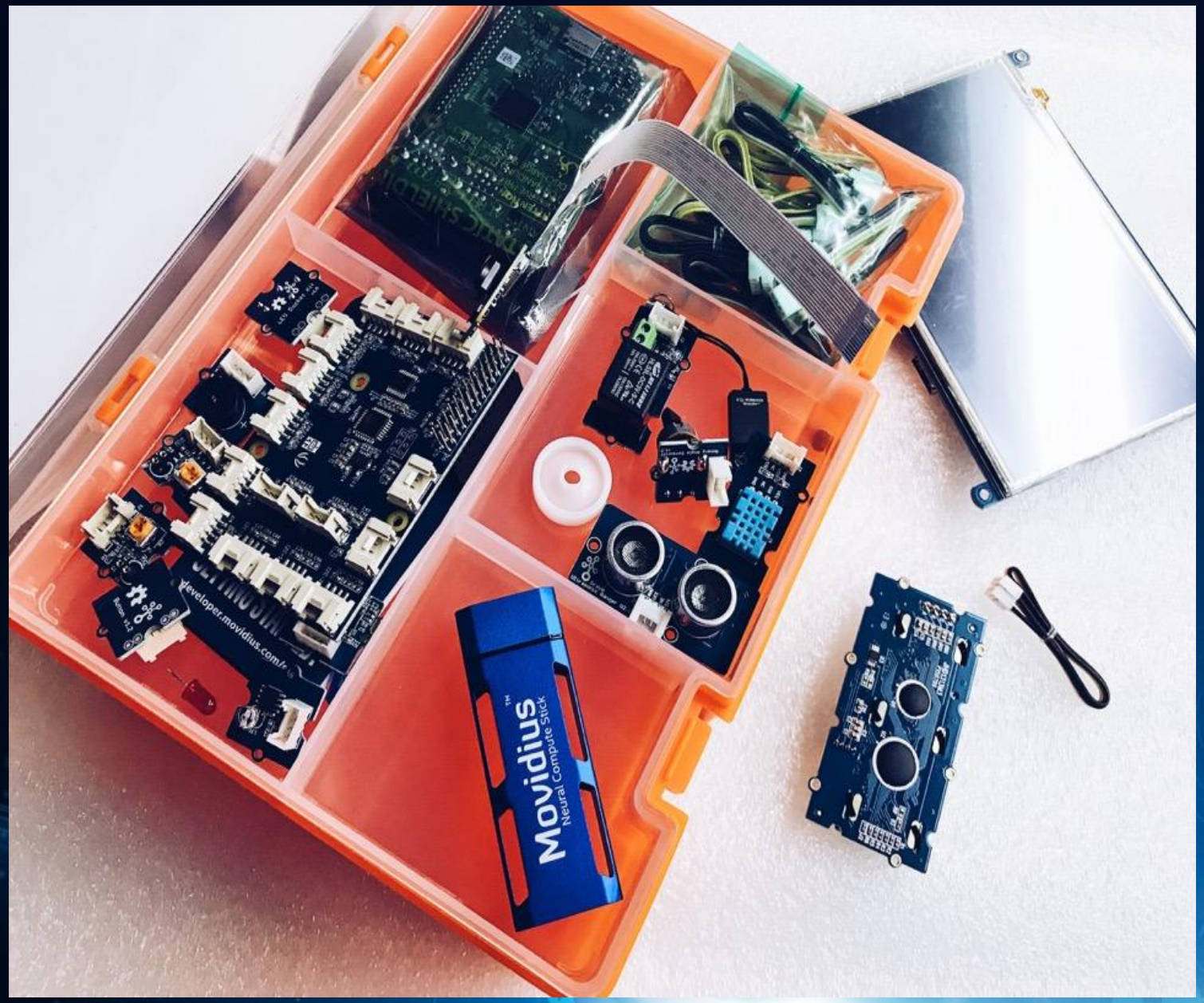
Support & guidance to students on entrepreneurship

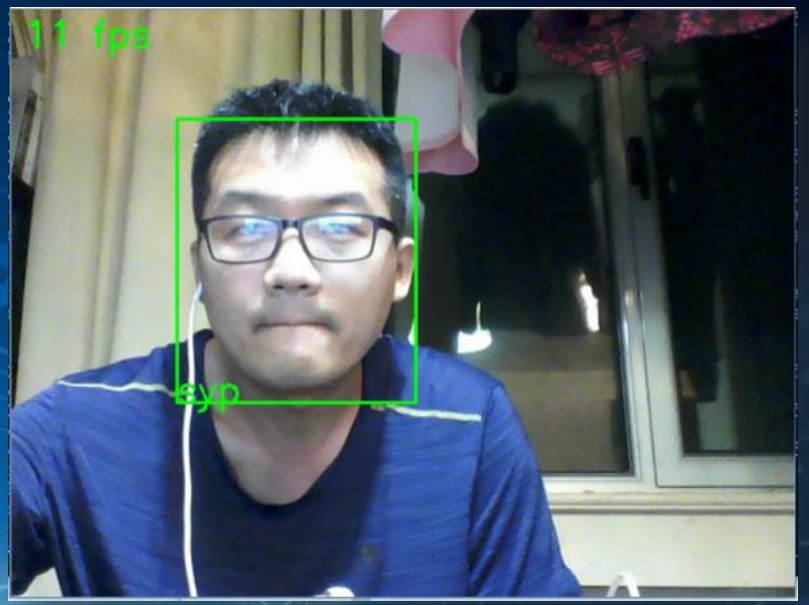
TODAY'S INNOVATOR STARTS EARLY





INTEL ARTIFICIAL INTELLIGENCE INNOVATION LAB PROGRAM





Summary

- Rapidly developing technologies require nations to be competitive at digital transformation.
- We need our youth to have the skills & tools to prepare as future innovators.
- Education needs to embrace and adapt to technological trends to drive growth

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Questions