



# Inspiring Outcomes

Innovation Africa 2015

September 30<sup>th</sup>

Uganda





Fortune **50**

**HP, Inc. will be the  
world's largest startup.**



**#1**

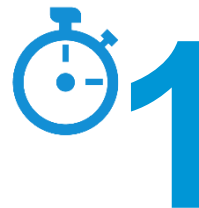
**HP is #1 in Public  
Sector & Commercial  
Market Share**

Notebooks

Desktops

Convertibles

Workstations



**An HP PC is shipped to  
a school, business or  
government**

every second of every day





# What does her future look like?



**Global**



**Competitive**



**Diverse**



# What skills will he need?



**Critical  
Thinking**



**Innovation**



**Collaboration**





# How do students learn?



**Auditory**



**Kinesthetic**



**Visual**



flexible **adaptive** collaborative  
**participatory** experiential **self-directed**  
critical thinking **multimodal** engaged  
**literate** active

The most important skill schools  
can teach is

**learning  
itself.**





# What issues do schools face?



Budget



Reporting



Effective  
Technology  
Use



Efficiency



Assessment



Graduation  
Rate



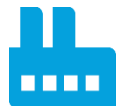
Safety &  
Security



Teacher  
Training



Scheduling



Facilities  
Management



# What issues do communities face?



Economic  
Development



Jobs &  
Employment



Diversification



Intense  
Competition



Unemployed  
Youth



Manu-  
facturing to  
Services



Quality of  
Life



Citizenry  
Participation



Safety &  
Security

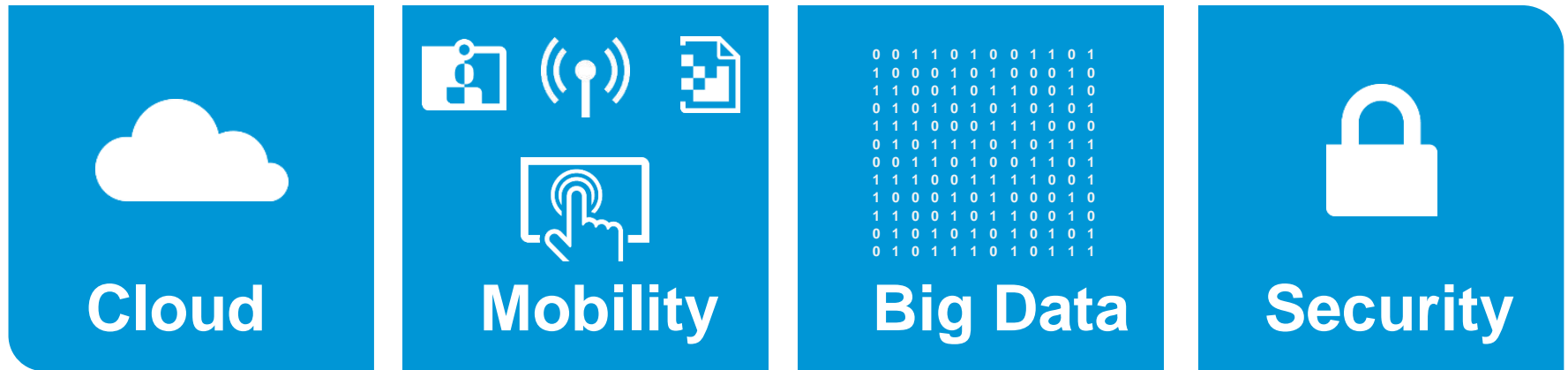


Sustainable  
Resources





# How is the New Style of IT changing education?



## Era of Outcomes

Learning, Economic & Social

### Predictive Econometrics

Predict, Adjust and Maximize Outcomes through Big Data

2015



### Post-2015 Agenda

Add Learning Quality to Universal Access

2010

### Mass Deployments

Wide proliferation of access-based devices with limited curricular relevance and/or measurable impact

2005



### Millennium Development Goals

#2: Achieve Universal Primary Education

2000

## Era of Learning

## Era of Access

### Who are the agents of the policy shift to outcomes?

#### Learning Metrics Task Force

UNESCO Inst. For Statistics & Brookings CUE: Identifying the most important, measurable outcomes

#### UNESCO Mobile Learning Week

Focus on Access for All, Gender Policy & Effective Practices

#### Education World Forum

Global education & skills forum for ministerial leadership

#### Global Business Coalition for Education

Engaging the private sector to expand access & improve outcomes

#### World Bank Education & Technology

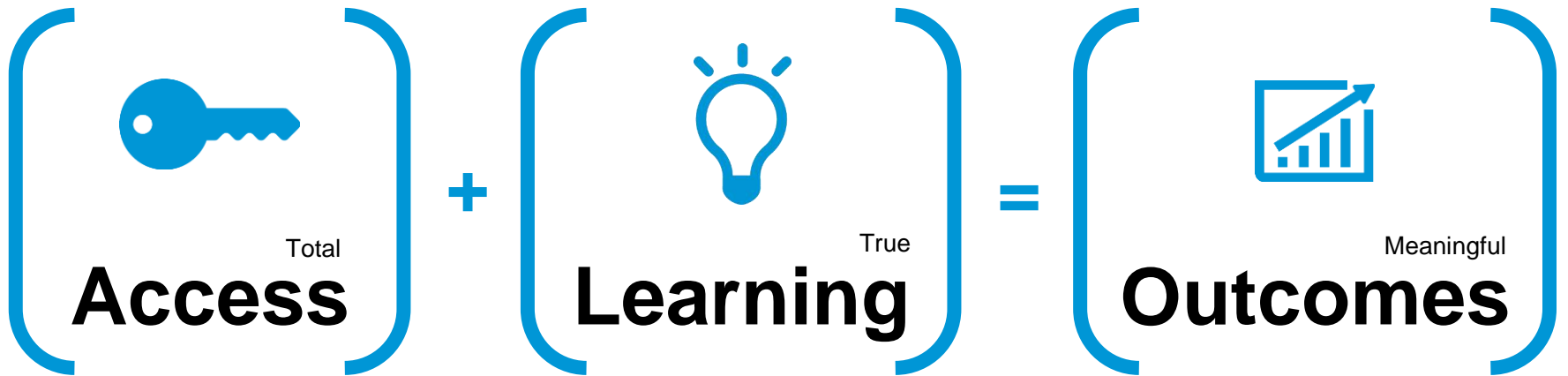
Policy, evidence, events, studies, advocacy, SABER-ICT

#### UNESCO ICT in Education Division

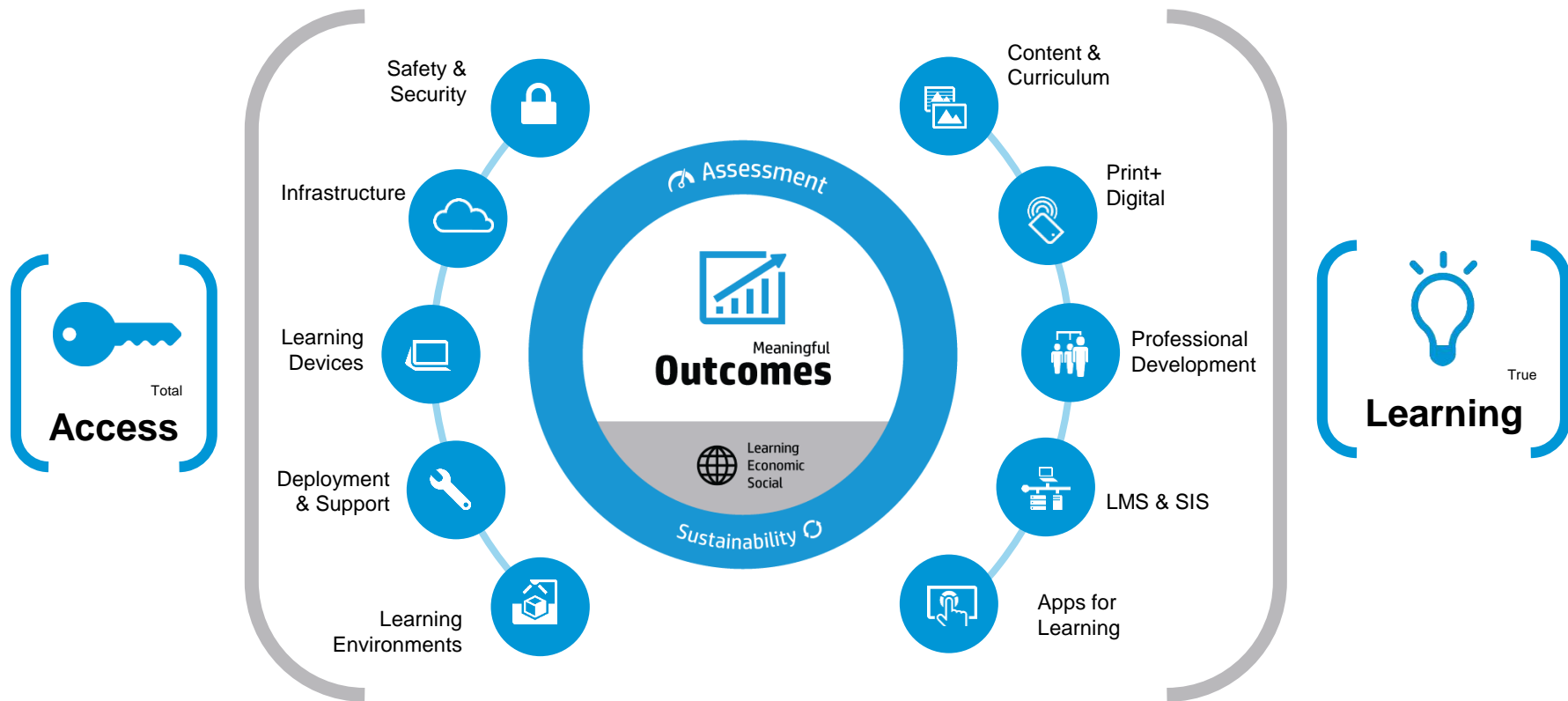
Guides, Standards, Toolkits, Regional Activities, EPPSSIM, Mobile Learning

#### A Global Compact on Learning

Framework for helping developing countries create impactful education policies (Brookings CUE)







# Sustainable Learning, Social & Economic Outcomes

A comprehensive process to vision, prepare, deploy, support and sustain education technology in schools around the world.



## National Education Technology Assessment

### NET<sup>F</sup> National Education Technology Framework

Heuristics for nationwide, holistic  
education technology solutions

### NET<sup>R</sup> National Education Technology Readiness

Macroeconomic, microeconomic,  
technical and cultural readiness  
assessment

### NET<sup>A</sup> National Education Technology Analytics

with Predictive Econometrics  
Analytic dashboards  
leveraging big data & the  
cloud to predict meaningful  
outcomes

## A Global Effort Led by World- Class Advisory

Brookings Institution

CoSN

Digital Promise

Dublin City University

Duke University SSRI

European Schoolnet

Global Business Coalition for Education

Hibernia College

IEA [TIMSS/PIRLS]

ISTE

Learning Links Foundation

Meraka Institute

New Media Consortium

OECD

UAE Ministry of Education

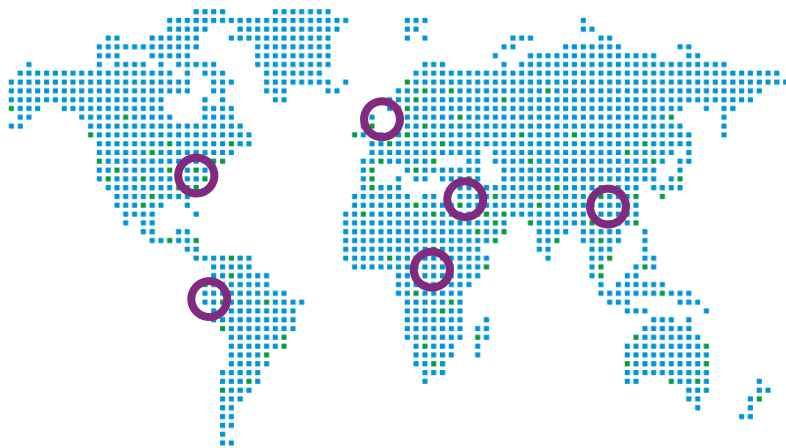
UNESCO

UNICEF

UN Special Envoy for Education

World Bank

World Economic Forum



**Worldwide  
Education**  
Industry Solutions

# Education Case Studies

Successful Models from  
around the World







HP National Education Technology Case Study: Public Policy

# Rwanda



**Rwanda is rewriting their human capital development strategy based on NETA**

- Economic Modernization: Leading Value-Added Services Migration in Africa
- Human Capital Development as a Key National Strategy
- Transparency, Nationalism and Progress



HP National Education Technology Case Study: National Std. for Ed-Tech

# Ireland: Digital Schools of Distinction



## Setting National Standards for Digital Learning



- Setting Standards for Technology-Enhanced Education in Schools
- “Soft” Program Based on Ministry of Education Standards
- Over 40% of all Irish Schools Participate





HP National Education Technology Case Study: Plan First

# Sultanate of Oman



**Oman is now embarking on a National 1:1 program based on NETA findings.**

- Education for a better trained workforce for the jobs of tomorrow
- Developing clear objectives and robust monitoring and evaluation system
- Provide consistent access to both rural and urban environments to engage all students





HP National Education Technology Case Study: Prioritizing Teachers

# Republic of Ecuador



**Every teacher in Ecuador is now empowered to teach with technology**

- Designed to empower and enable teachers before massive technology rollout
- Building instructional, workflow and classroom management skills
- Building content skills in math, science, history, Spanish and English



HP National Education Technology Case Study: Online Learning

# OECD PISA, France



## Educating Government Leaders, Policy Advisors and Teachers leveraging online learning

- PISA: Usage, Interpretation and Management [Ministers]
- Teaching: How to Use PISA as a Tool for Teaching & Learning
- Certificates for Teachers: Math, Science & Reading





HP National Education Technology Case Study: Primary Level Innovation

# Baltimore, United States



**All students have access to a digital, personalized education**

- Access: Designed to empower all students and enable equal playing field
- Mobile: Every time, everywhere learning
- Blended Learning: New forms of pedagogic practice leveraging multi-modality





# Q&A





HP National Education Technology Case Study: Learning in the cloud at Scale

# Charlotte-Mecklenburg Schools



## Personalized learning with system wide scalability

- Using technology to differentiate instruction based upon individual student progress.
- Enhancing learning and collaboration communities with safe spaces for reflection
- Change management which leverages individual strengths



# National Education Technology Framework

**NET**  
**F**



**Policy**



**Readiness**



**Deployment**



**Sustainability**

**Outcomes =**



**ECONOMIC**



**LEARNING**



**SOCIAL**

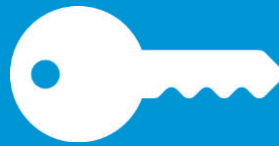
gdp per capita | employment | student optimism | economic diversification | global competitiveness | participation in government | income per capita | peace | lower criminality | TIMSS | poverty mitigation | secondary completion rate | durable goods market efficiency | technological readiness | innovation | boys:girls in school | PISA math, science & reading | teacher satisfaction | interest in STEM careers

# National Education Technology Readiness

**NET**  
**R**



**Outcomes**



**Access**



**Learning**



**Analysis**

A customized, consultative analysis of your education system's readiness for an education technology program.

# National Education Technology Analytics

**NET**  
**A**



**Metrics**



**Modeling**



**Privacy**



**Visualizations**

**A near realtime view & analysis of access, learning & outcomes with advanced modeling that forecasts future impact**

