



# The College Campus as a Catalyst for Disruption & Transformation in Higher Education

Dr. Rick Huijbregts

Follow and feedback @DrRickH



Expectations are changing

---

Nobody learns the same way

---

The digital economy is here to stay

---

Mindset: Innovate & Collaborate

---

People-first and Purpose-driven

---

Make the campus work for you

---

The Future starts Today





868

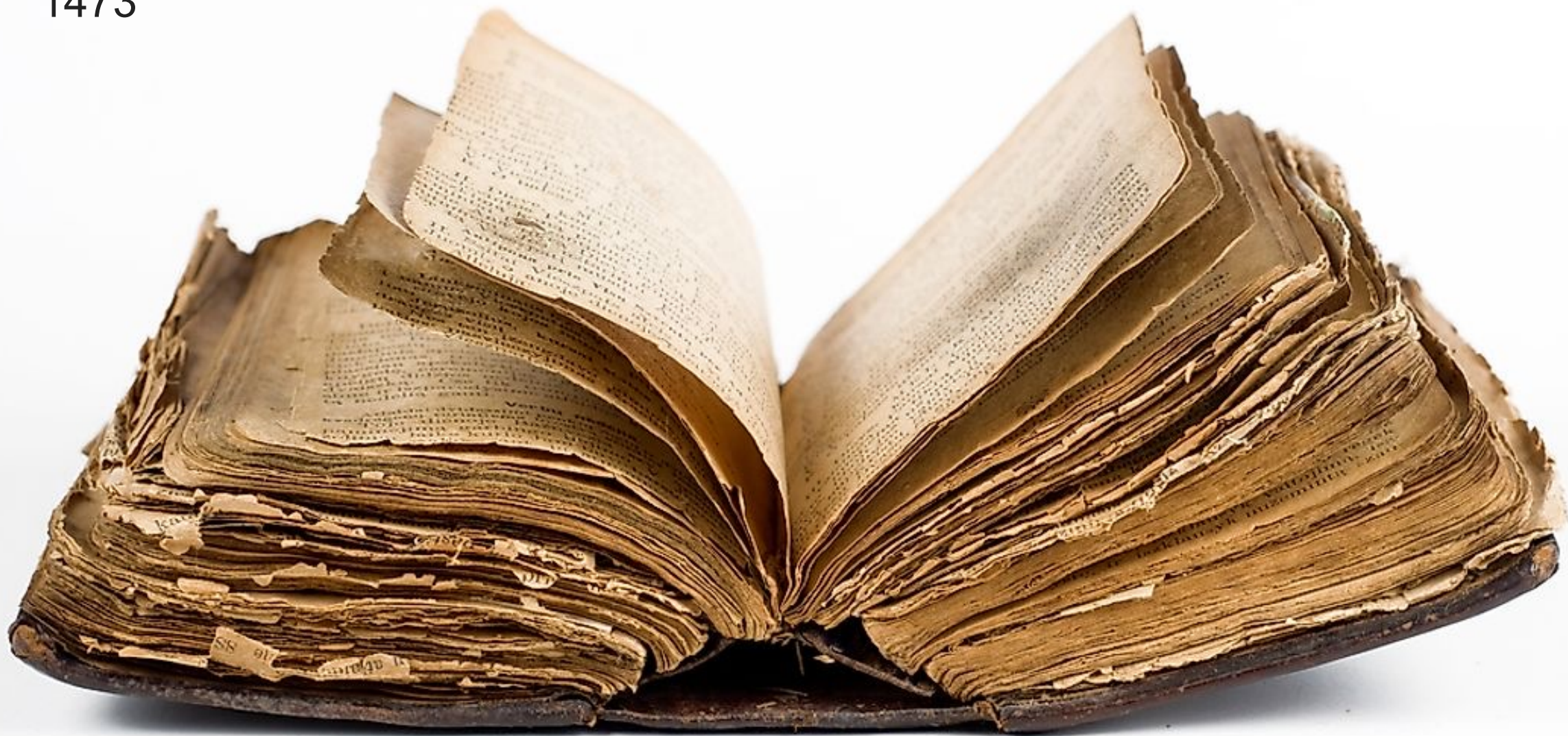
凡欲讀經先念淨口業真言遍  
 循唎 循唎 摩訶循唎  
 奉請除災金剛 奉請辟毒金剛  
 奉請白淨水金剛 奉請赤聲金剛  
 奉請紫賢金剛 奉請大神金剛  
 金剛般若波羅蜜經  
 循唎 娑婆訶  
 奉請黃隨求金剛  
 奉請定除厄金剛



Tang Dynasty, Diamond Sutra



1473





**KNOWLEDGE  
IS POWER.**



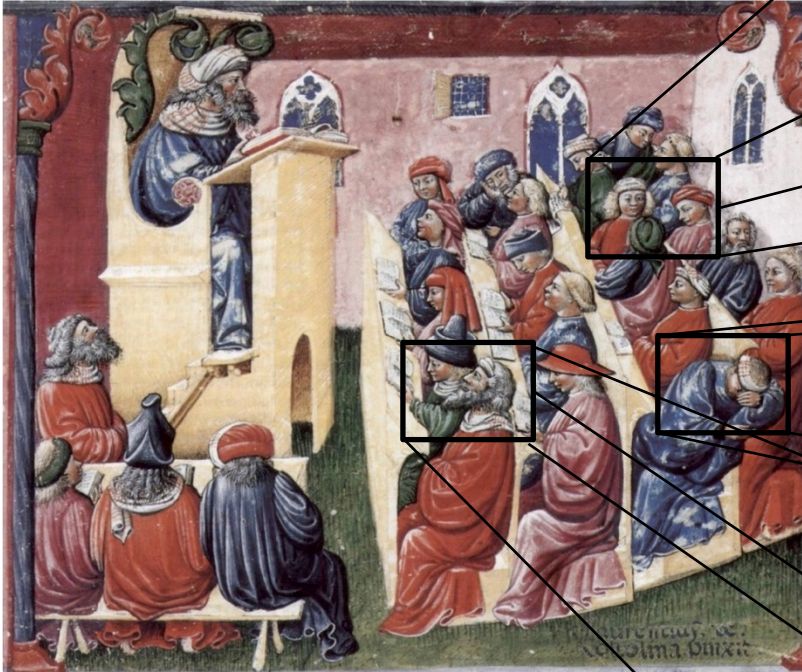


Università di Bologna, 1088





Then...





Then...



Now...







# Knowledge Democratization

SMART ALGONQUIN COLLEGE



@DrRickH



Enrolment

Increased cost of operations

International education

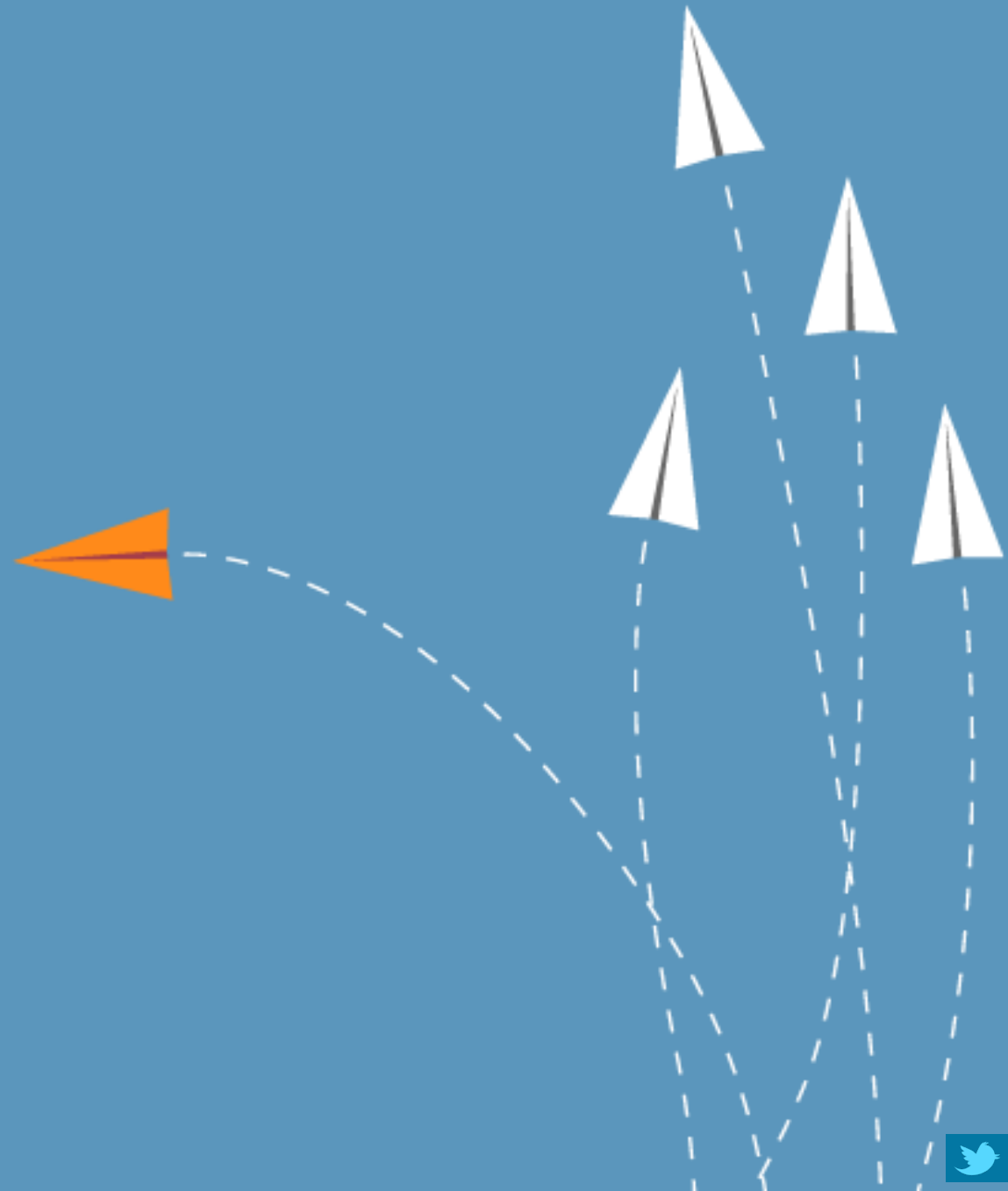
Increasing tuition cost

Micro-credentials

Future relevance of credential

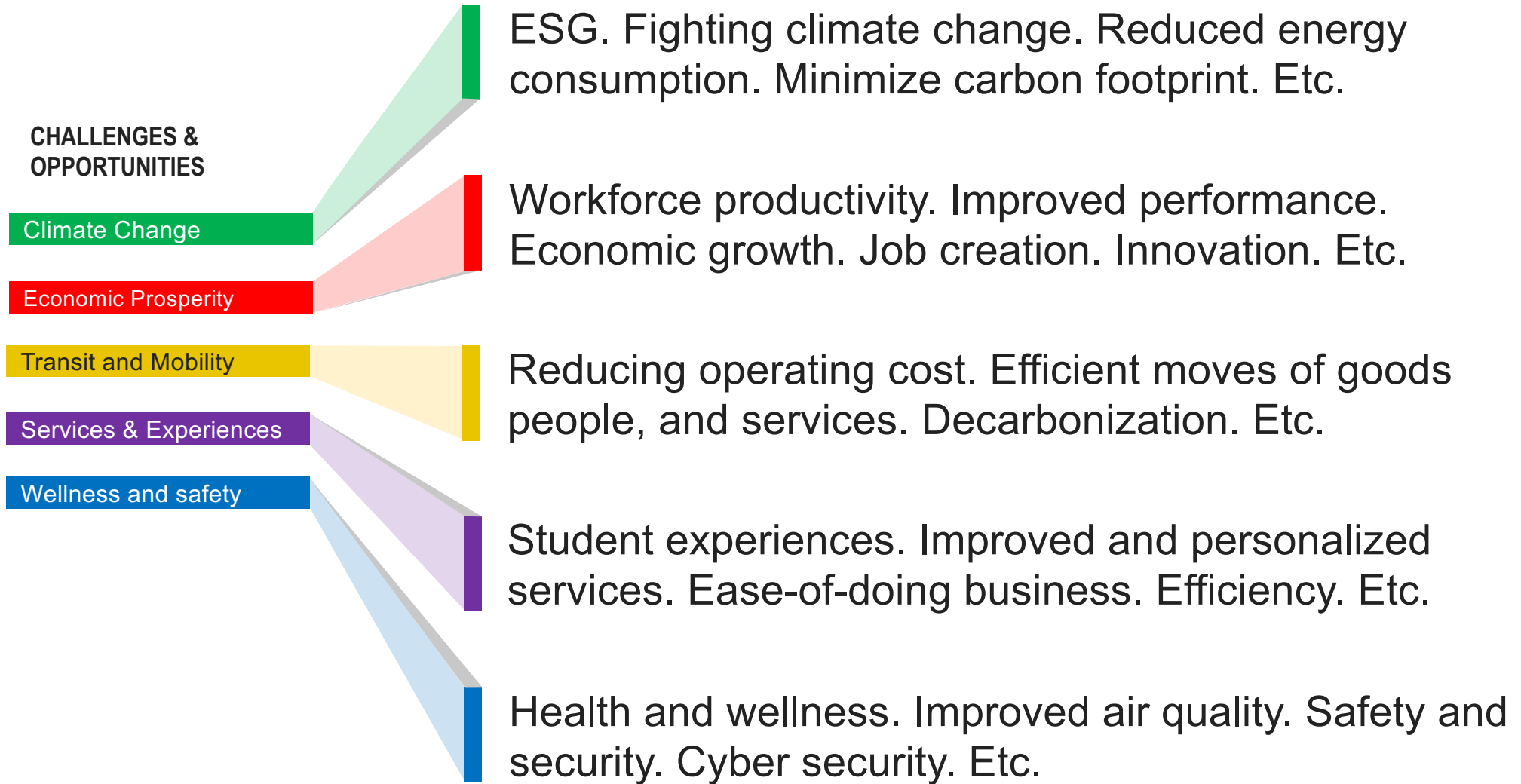
Alternative delivery

Lifelong learning





# Focus: Creating Value for Everyone





# Focus: Creating Value for Everyone







**85% of Jobs in  
2030 Have Not  
Been Invented Yet.**





**42% of the  
Workforce is at  
High Risk of Being  
Affected by  
Automation in the  
next 10 years.**



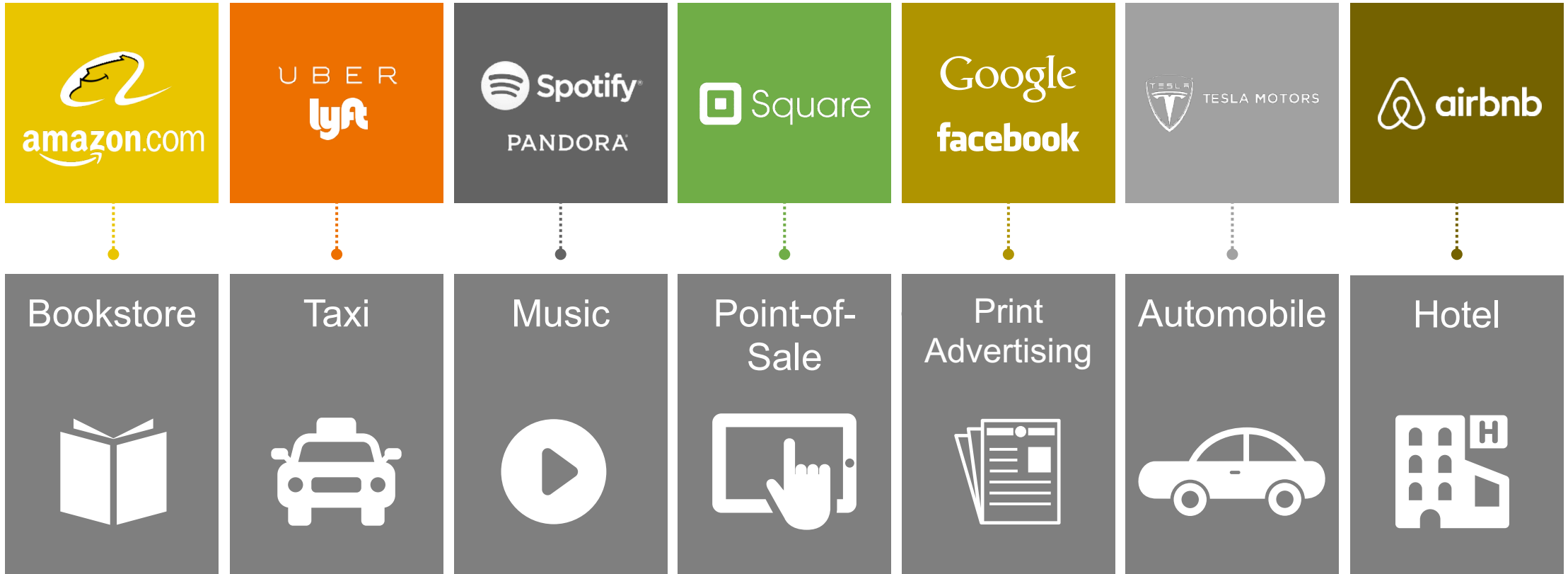
Speed of  
Innovation is  
Accelerating







# Digital Business is Creating the Digital Economy





# Everything is mobile...

- Almost **60%** of 2022 internet traffic is mobile (30% in 2015)
- **16B** mobile devices in 2022 (14B in 2020)
- **7M** apps on iOS and Android (500 in 2005)
- **144B** app downloads in 2021 (64B in 2015)





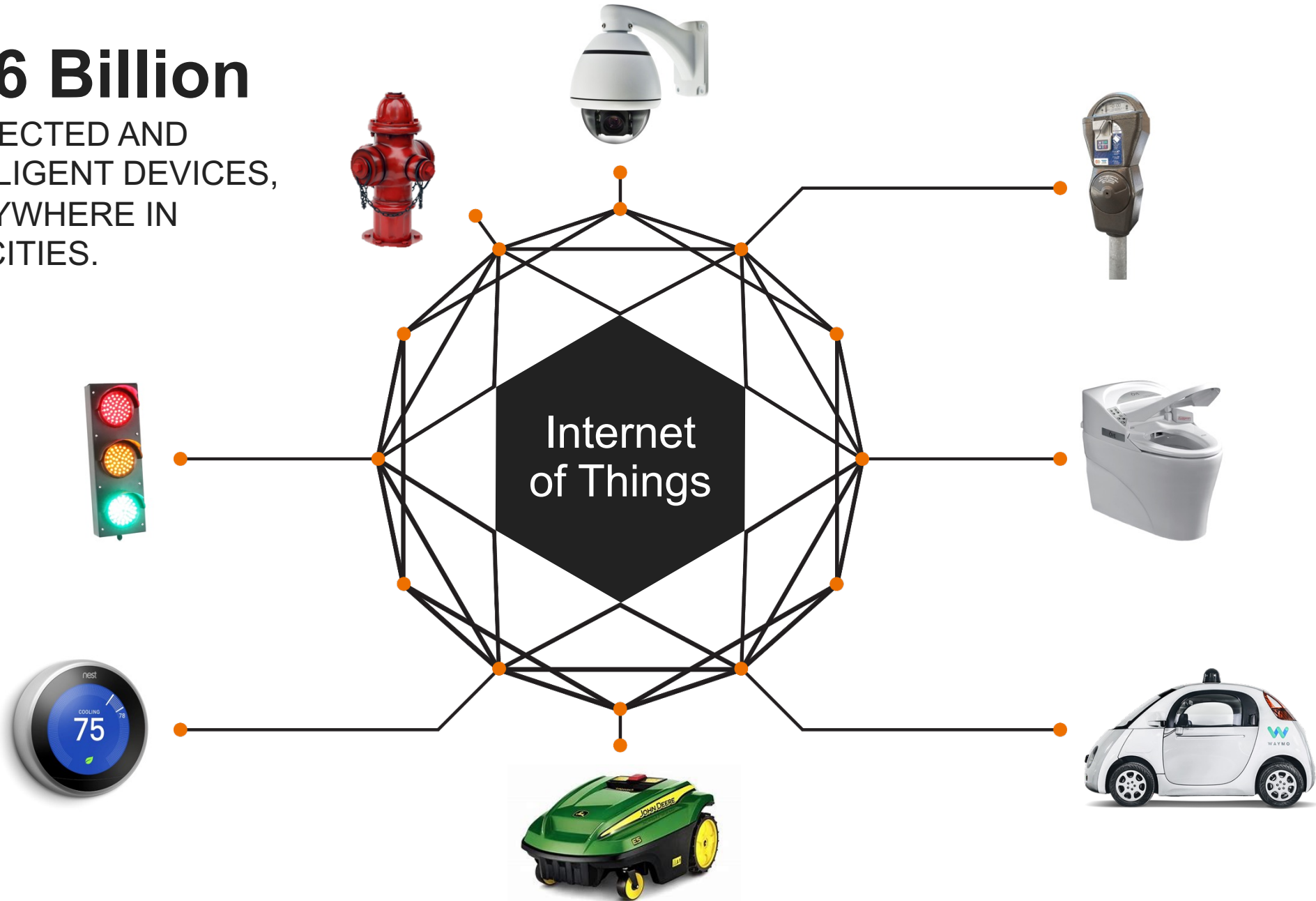
“There is an app for that”





# 42.6 Billion

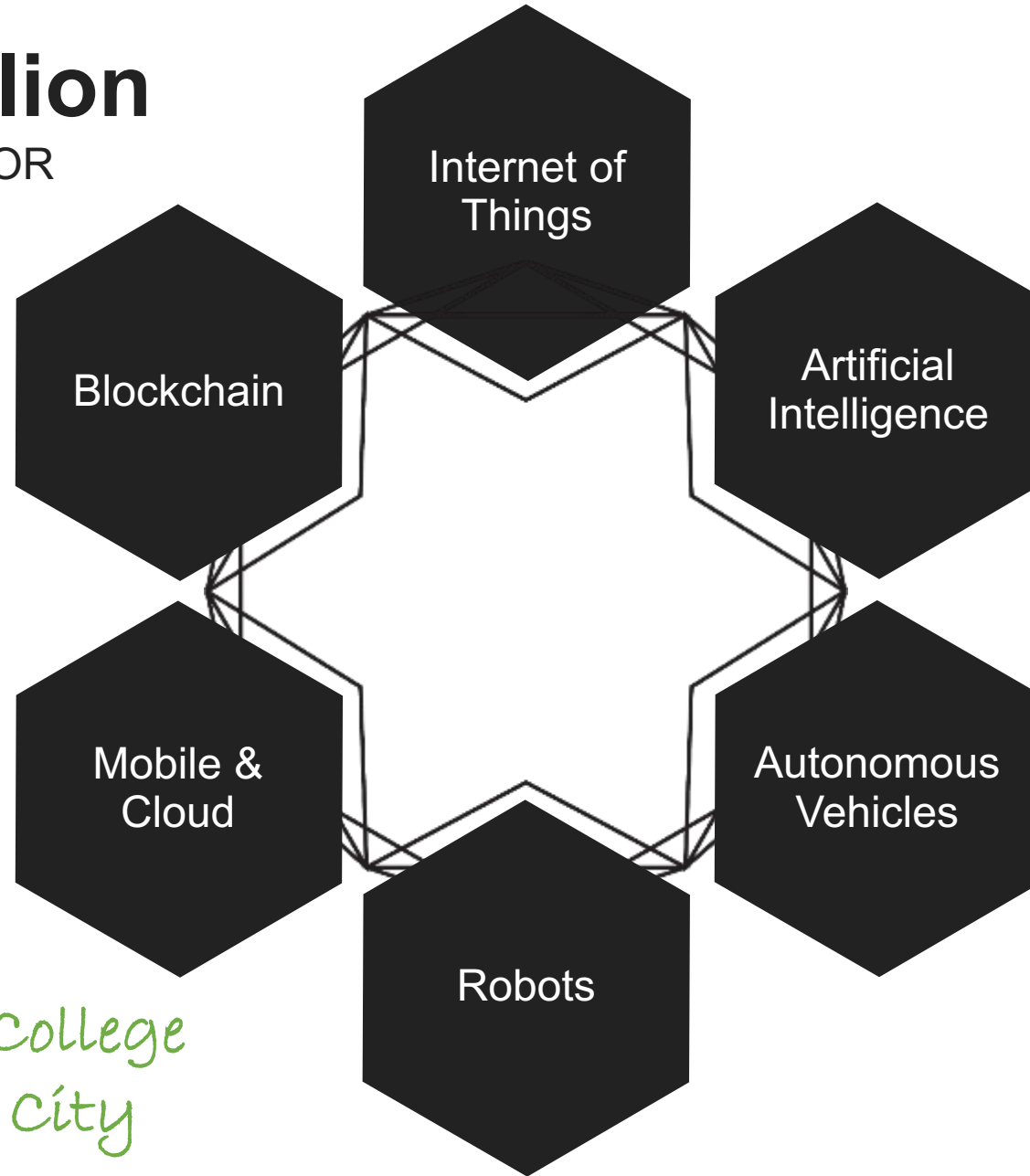
CONNECTED AND INTELLIGENT DEVICES, EVERYWHERE IN OUR CITIES.





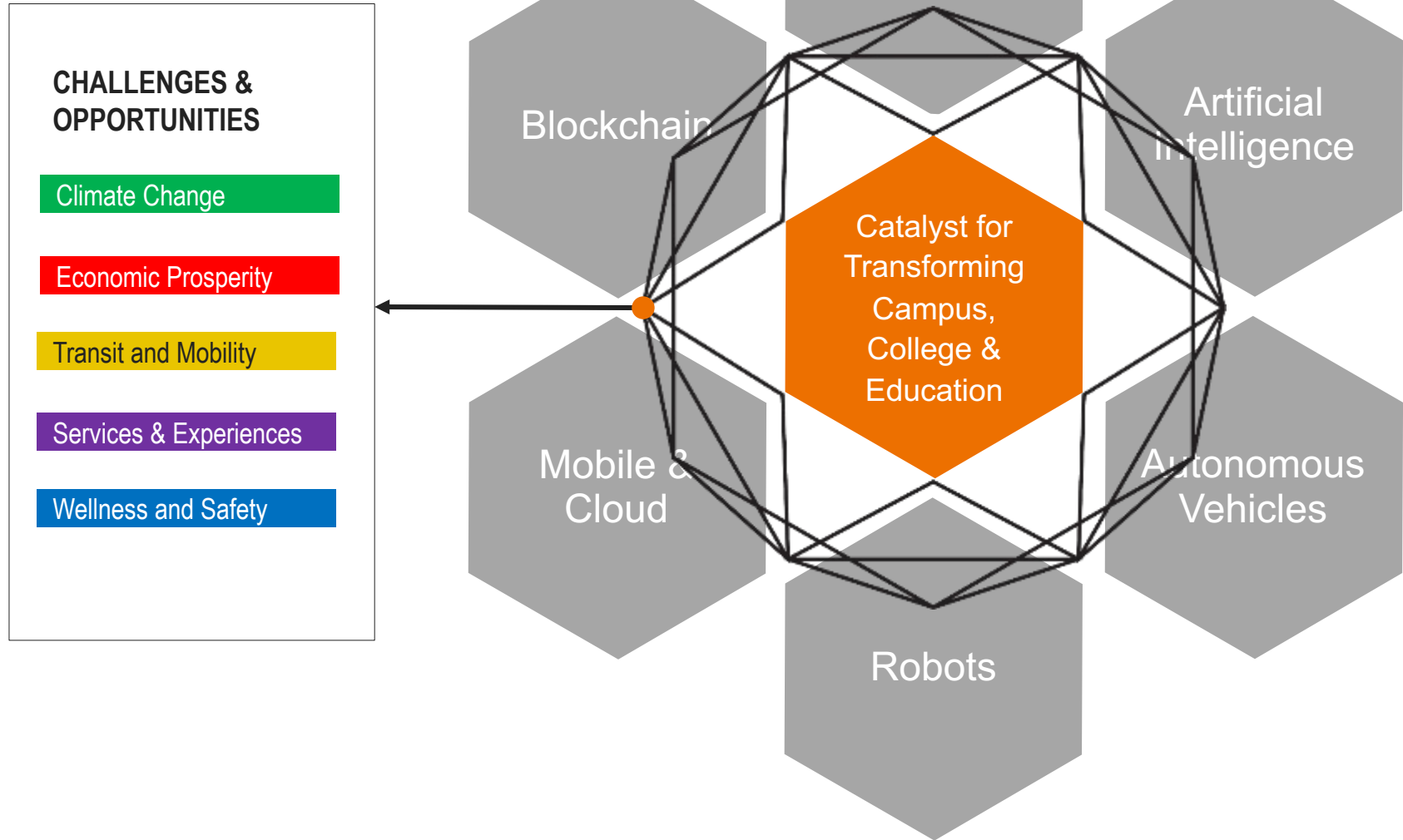
# USD 1 Trillion

GLOBAL MARKET FOR  
SMART CITIES



*Yes, Algonquin College  
Campus is like a City*







**CHALLENGES & OPPORTUNITIES**


Climate Change

Economic Prosperity

Transit and Mobility

Services & Experiences

Wellness and Safety



Proprietary solutions

Duplicate infrastructure

Not interoperable or scalable

More costly

**DIGITAL ENABLED SOLUTIONS**

Smart Buildings

Smart Grid

Smart Energy

Smart Water

Smart Transit

Smart Cars & Charging

Smart Waste Management

Smart Parking

Smart Mobility

Smart Operations Management

Smart Lighting

Smart Traffic Lights

Smart Sensors

Smart Wayfinding

Smart Parks

Smart Government

Smart Healthcare

Smart Education

Smart Industry

Smart Retail

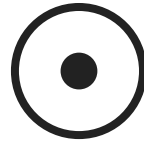




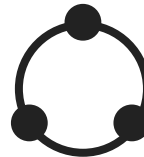
# Unlocking the value of being a “smart campus”



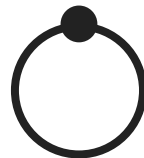
Core to the campus—part of its DNA



Central to campus operations



Several uses within the college campus



Isolated use within the college campus







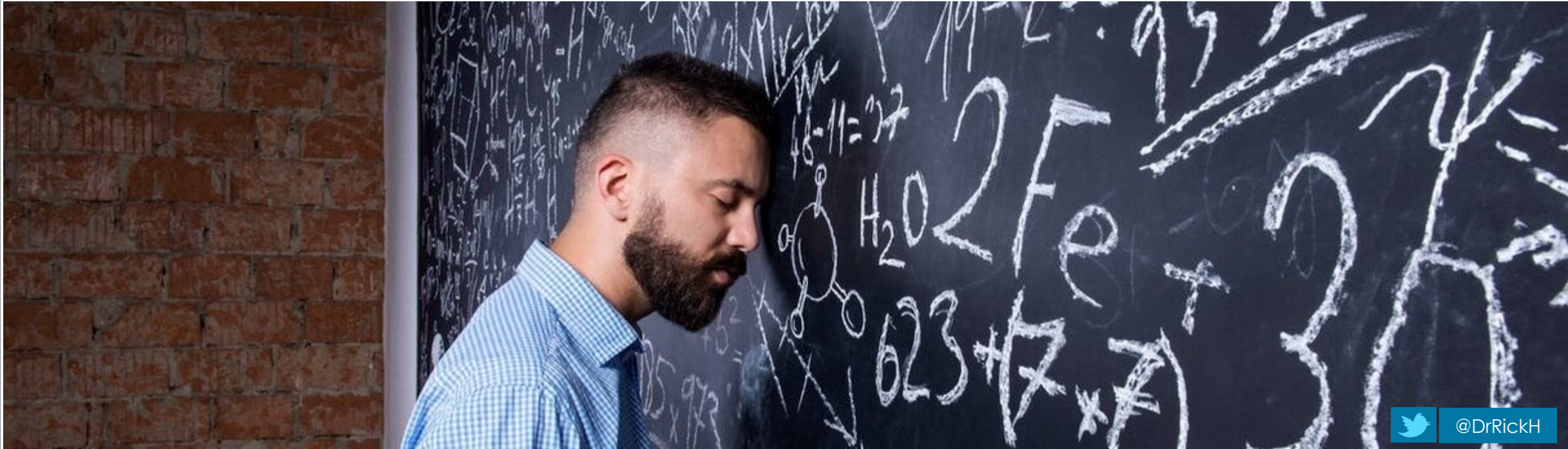
It's time to change the way we...

Learn

Teach

Work

*Create Experiences*





Creating Value, Probability of Success

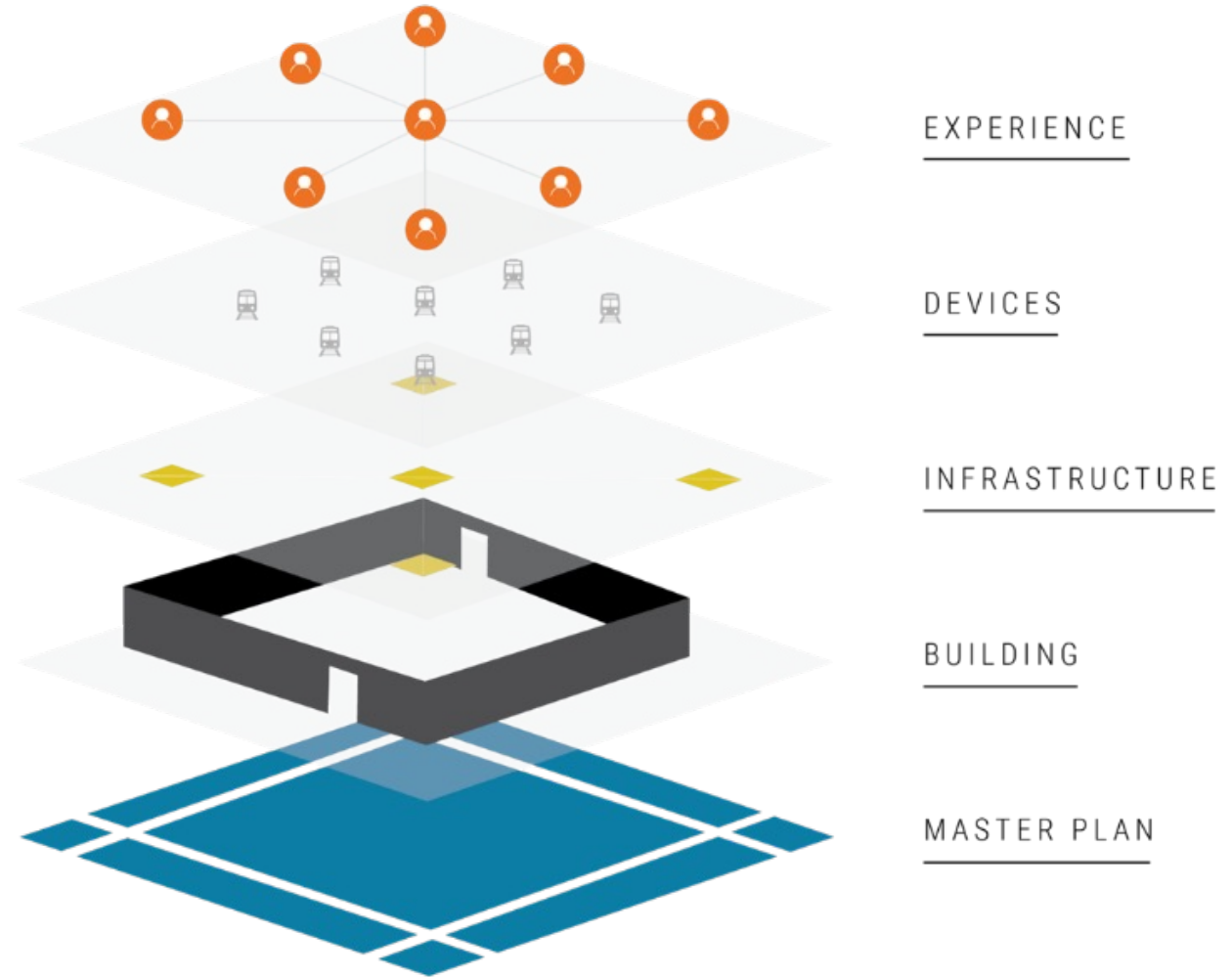
**Enable**

**Grow**

**Transform**

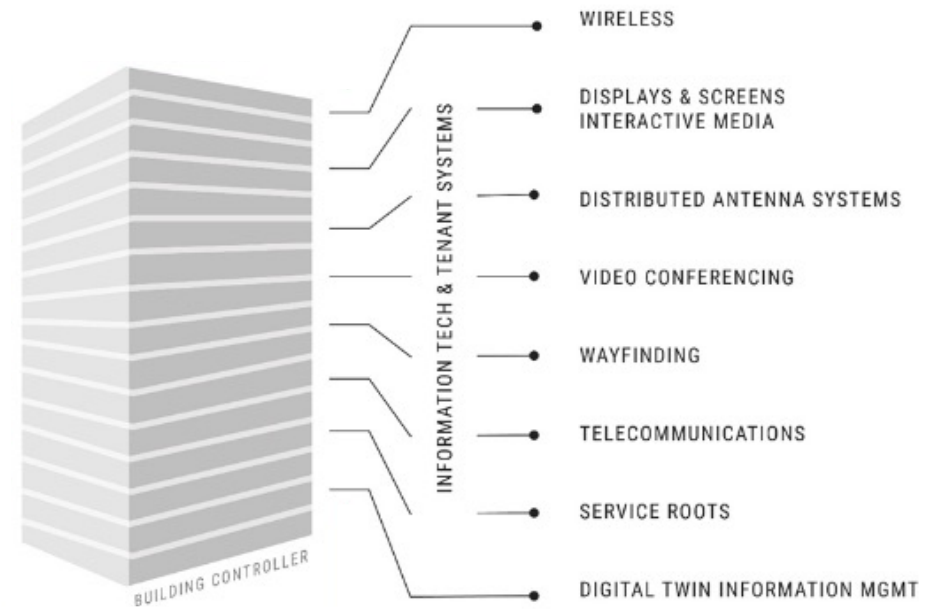


# From “space” to “experiences” —it’s all connected





1. Connect
2. Instrument
3. Integrate
4. Secure
5. Intelligence



**Data as the binding  
agent for creating  
new experiences that  
transcend physical  
and virtual spaces**





Alisa

Erin

Che'von

Dan

Eliza

Brian

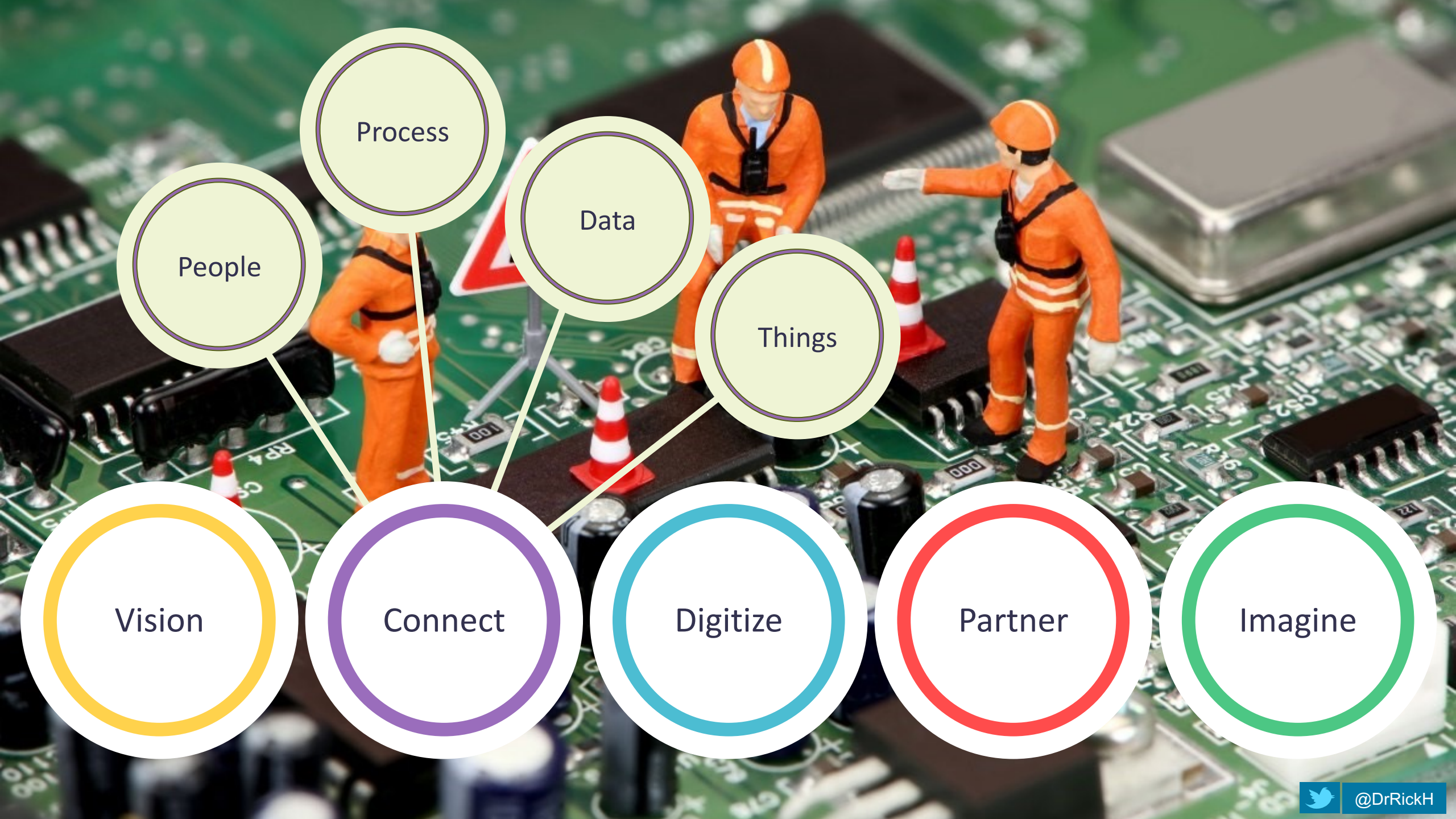
davidgordon

Yuxi

Alex

tatin

BJ



Process

Data

Things

People

Vision

Connect

Digitize

Partner

Imagine



Expectations are changing

---

Nobody learns the same way

---

The digital economy is here to stay

---

Mindset: Innovate & Collaborate

---

People-first and Purpose-driven

---

Make the campus work for you

---

The Future starts Today





Renew  
Rethink  
Re-imagine

...campuses in the  
Age of Disruption

