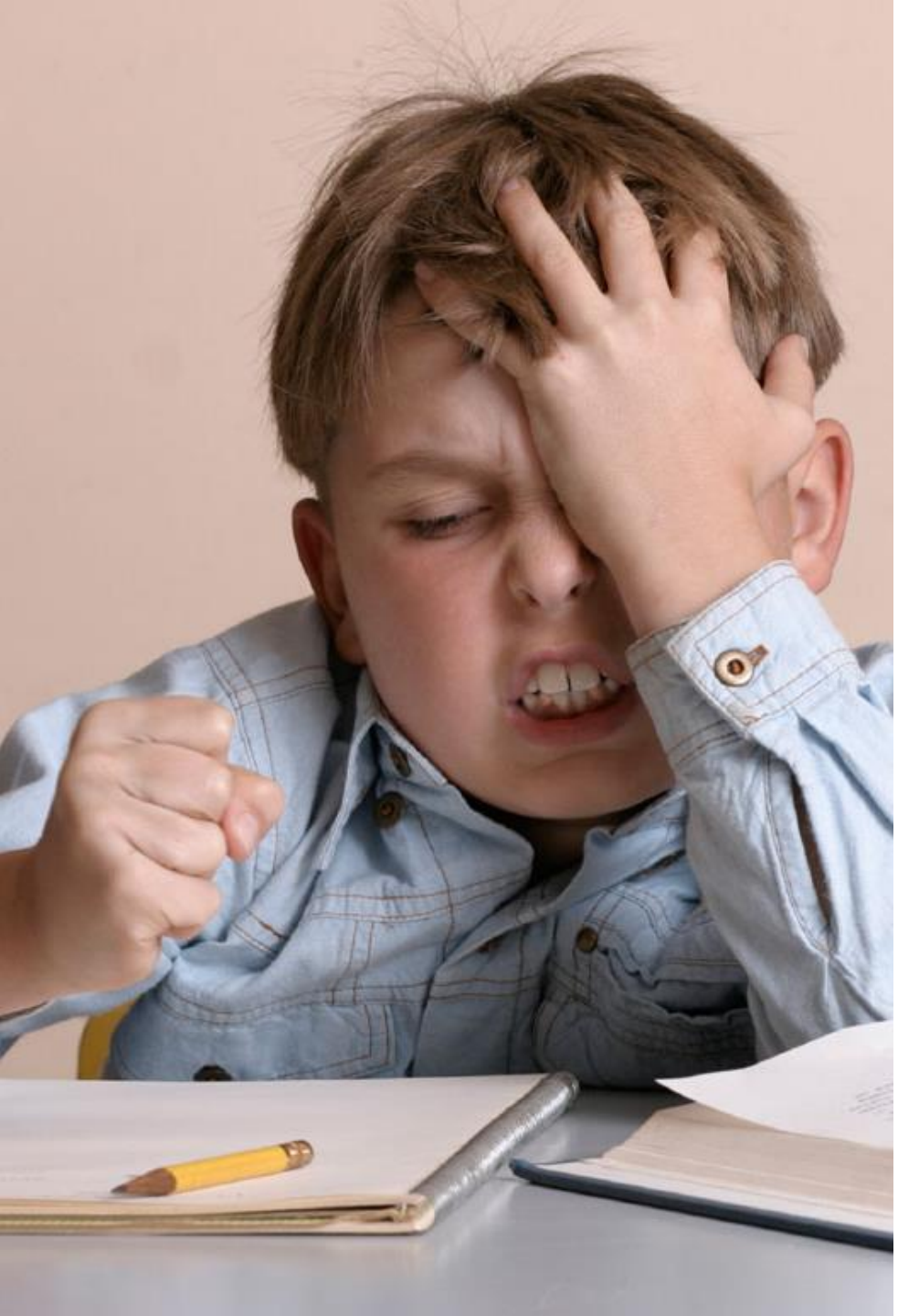
Appreciation Day Speech

17th March, 2018

Prepared and presented
by the Principal

Stephen West



H.O.M.E.W.O.R.K

HALF OF MY

ENERGY

WASTED ON

RANDOM

KNOWLEDGE

The 1960s and 70s

For many countries it was all about building up the economies, military, construction, agriculture and minerals.

For Malaysia too, it was the time to focus on tin, rubber, timber and the start of palm oil production.

The 1980s and 90s

In the 1980s there was a real swing into the engineering, medical and petroleum sectors.

It was the age of new technology and basic computers and telephony. It was when we saw a surge in education beyond year 10 and 11.

University numbers increased and so too did the competition in education. It suddenly became profitable to be the best school with the best students.

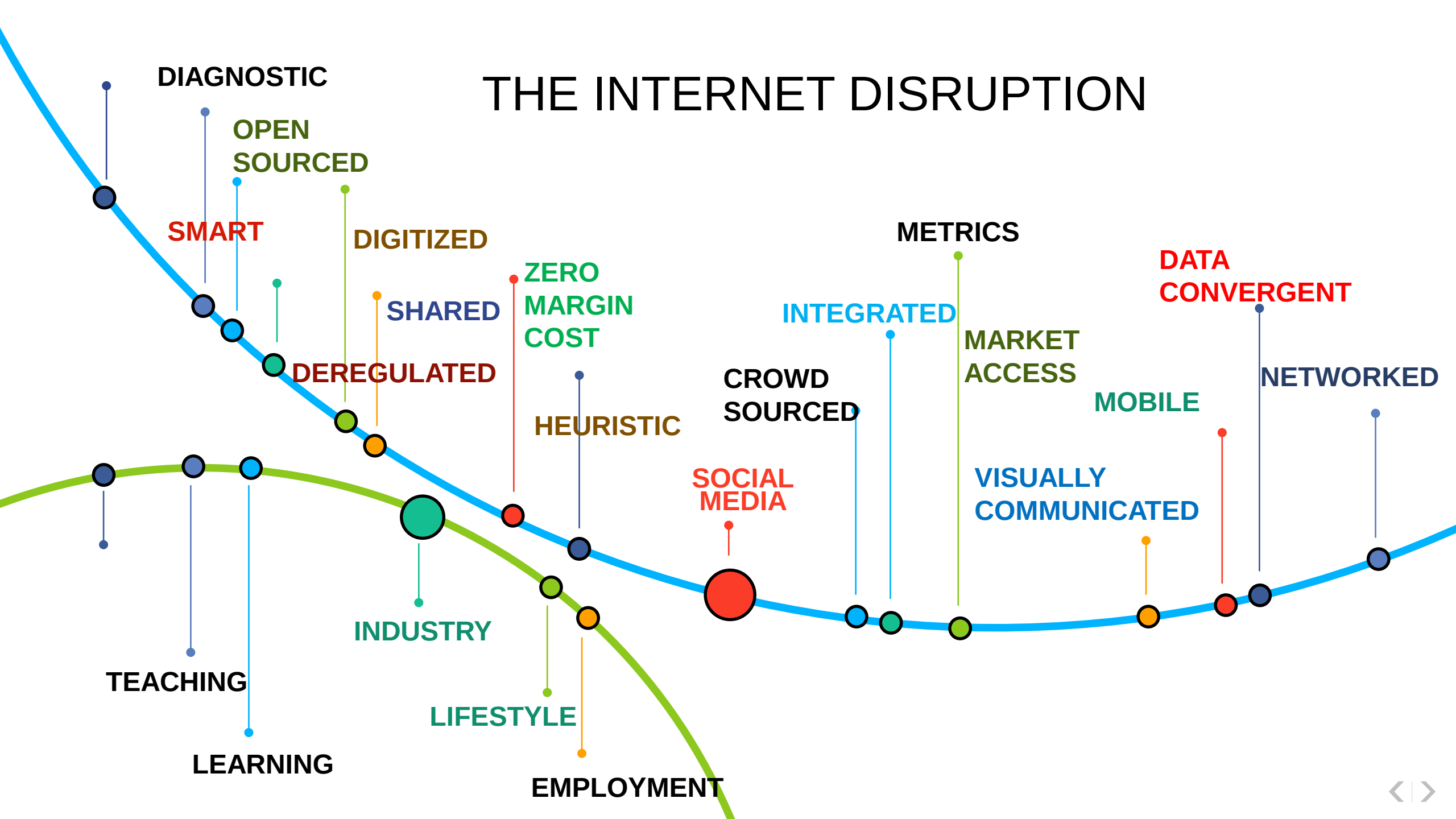
From the 1990s to early 2000 we changed again, the pocket pager and mobile phone came of age and suddenly communications technology became the sector to be in.

The world of education once again transformed as subjects were introduced to cope with the forecast numbers of students expected to enter the digital revolution.

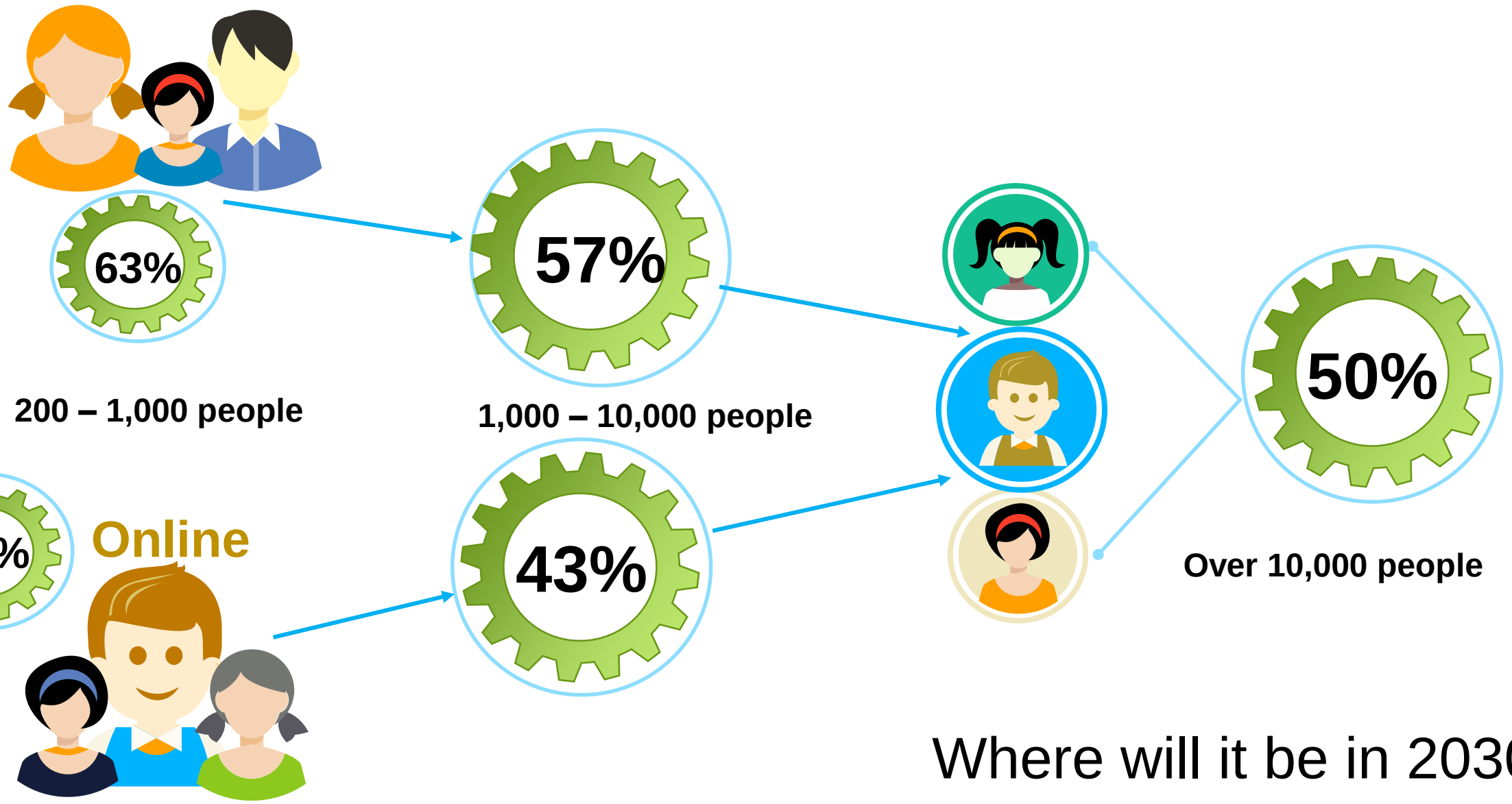
Then came the INTERNET…

And everything changed…

THE INTERNET DISRUPTION



Convergence of Teaching and Learning



Where will it be in 2030?

For decades, the university degree had been the signal of job readiness

In an article titled "The End of the University as We Know It," Nathan Harden (2012) wrote:

"In less than fifty years, half of the roughly 4,500 colleges and universities in the United States will have ceased to exist. The technology driving this change is already at work, and nothing can stop it. The future looks like this…

World Job Advertisement Survey

By workforce analytics firm Burning Glass 2017

BUT…

an analysis of over **1 Million job** advertisements worldwide recently found that most **university graduates lacked the basic skills** required to succeed in securing employment.

“Works well with others”

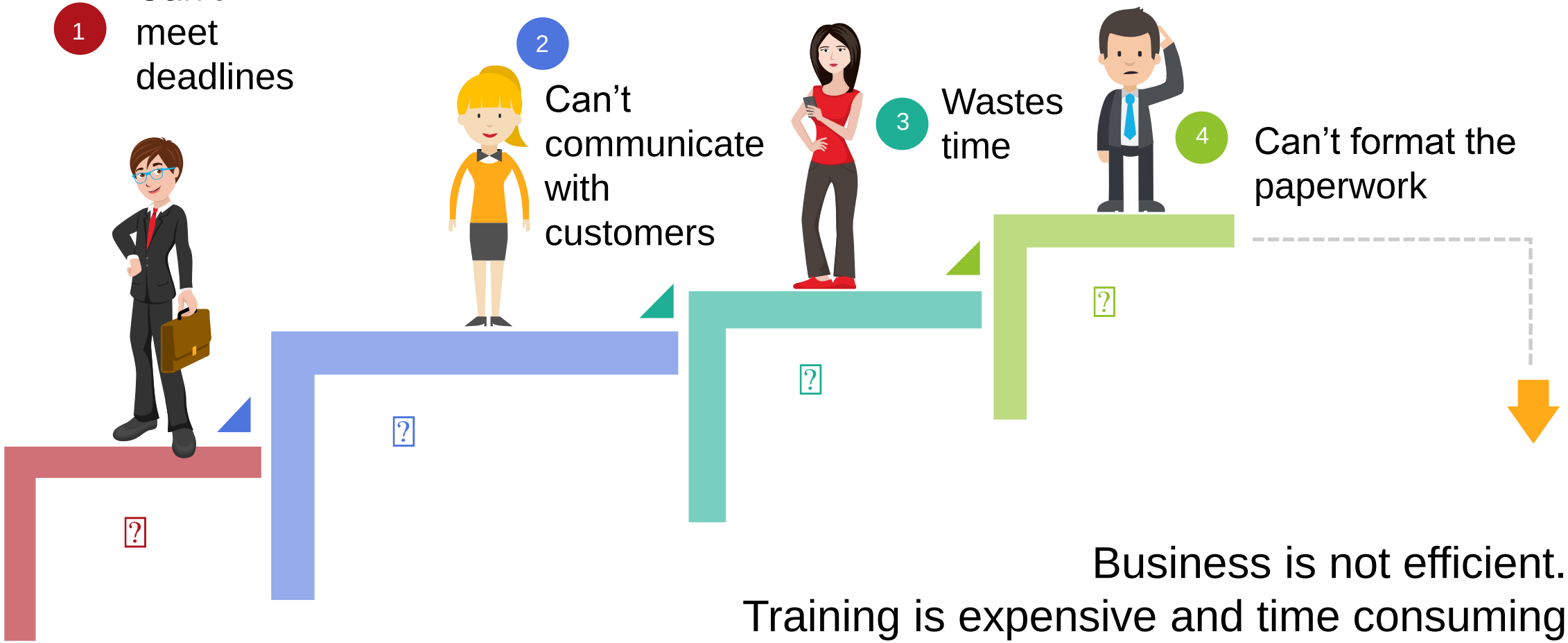
is a cliché on a school report card

1 Can’t meet deadlines

2 Can’t communicate with customers

3 Wastes time

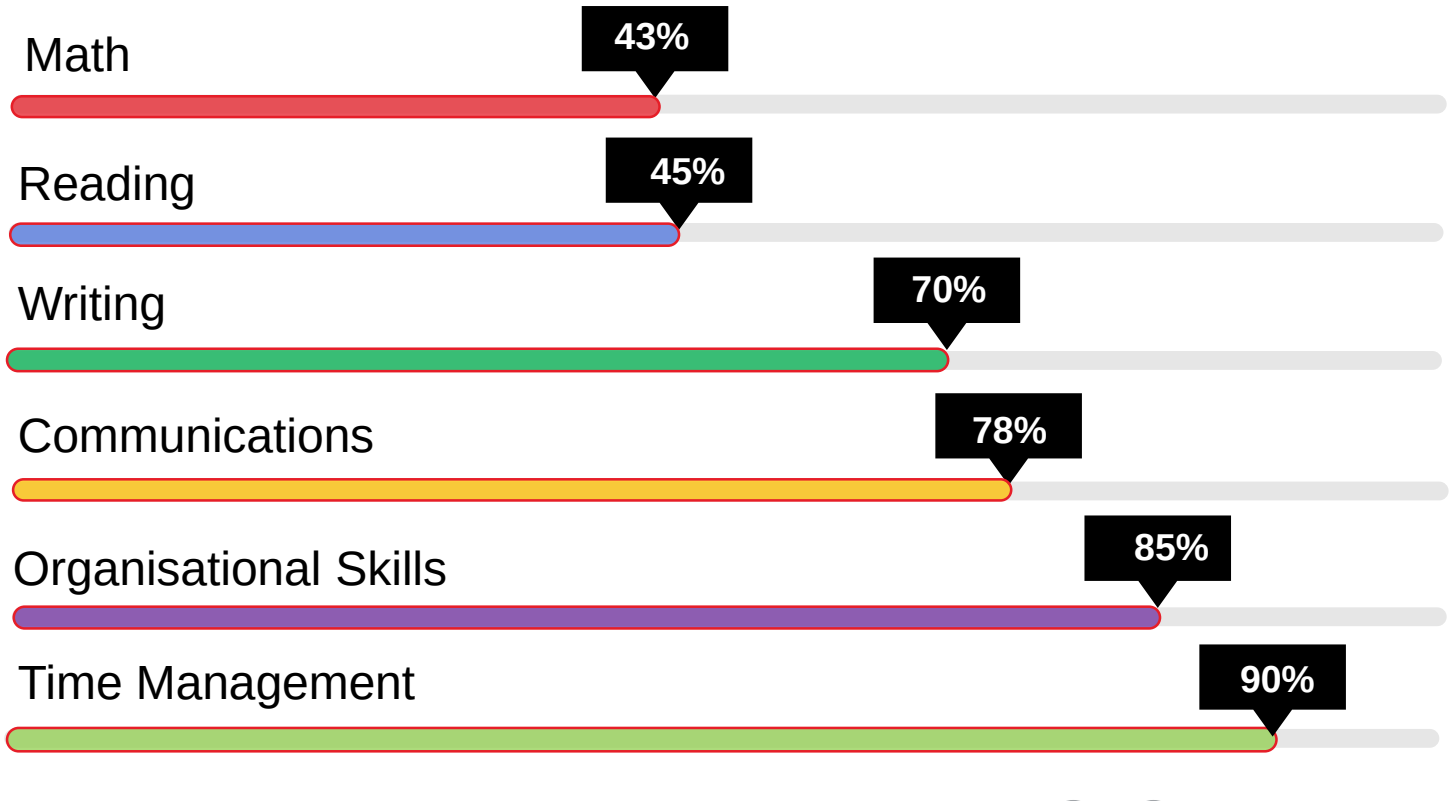
4 Can’t format the paperwork



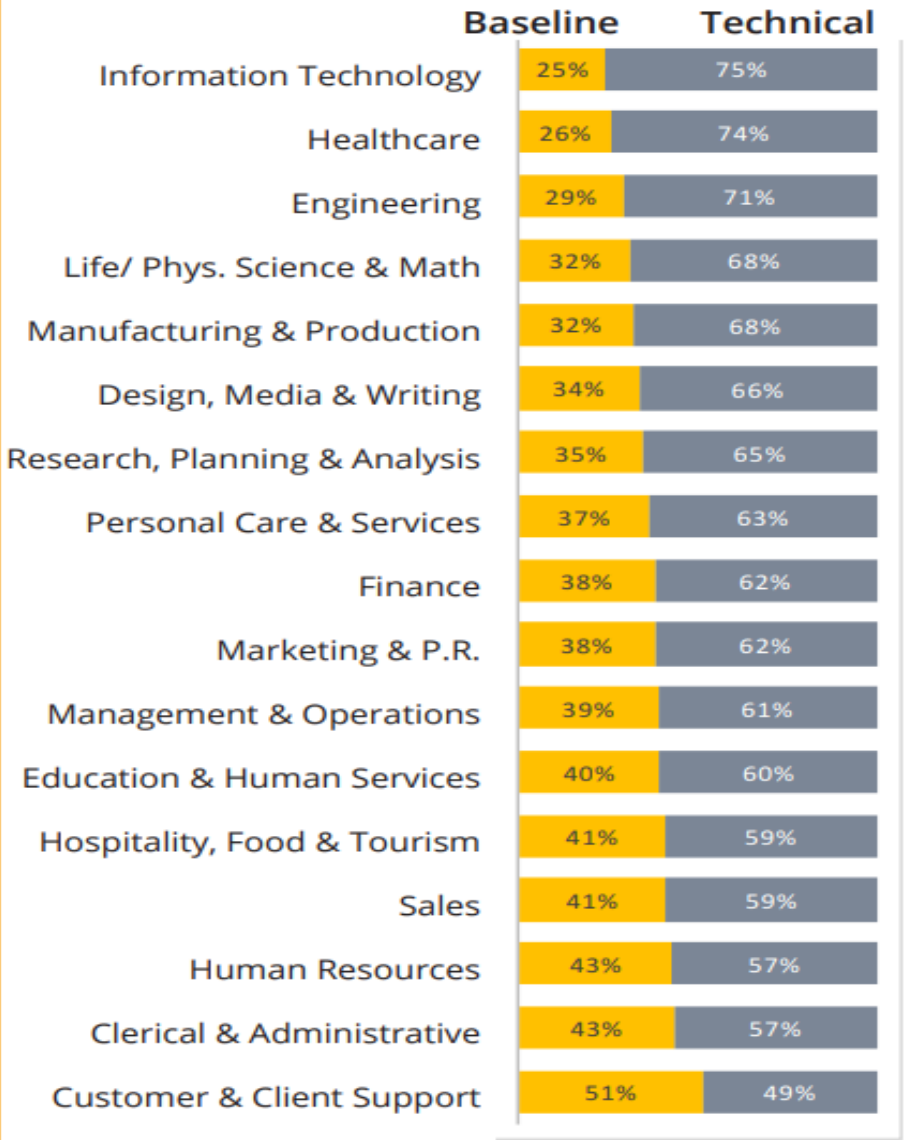
Business is not efficient.
Training is expensive and time consuming

These skills are in demand across nearly every occupation—and in nearly every occupation they're being requested far more than you'd expect based on standard job profiles. Even fields like IT and Engineering want people who can write.

Baseline Skills



TECHNICAL VS. BASELINE SKILLS BY OCCUPATIONAL GROUP



Career Area	Baseline Skills	Technical Skills
Information Technology	25%	75%
Healthcare	26%	74%
Engineering	29%	71%
Life/Physical Science and Math	32%	68%
Manufacturing and Production	32%	68%
Design, Media, and Writing	34%	66%
Research, Planning, and Analysis	35%	65%
Personal Care and Services	37%	63%
Finance	38%	62%
Marketing and Public Relations	38%	62%
Management and Operations	39%	61%
Education and Human Services	40%	60%
Hospitality, Food, and Tourism	41%	59%
Sales	41%	59%
Human Resources	43%	57%
Clerical and Administrative	43%	57%
Customer and Client Support	51%	49%

LOOKING DEEPER INTO BASELINE SKILLS

LEADERSHIP	65%
COMMUNICATION	64%
COLLABORATION	55%
ROLE SPECIFIC SKILLS	42%
TIME MANAGEMENT	33%
PROGRAM OR PLATFORM USAGE	20%

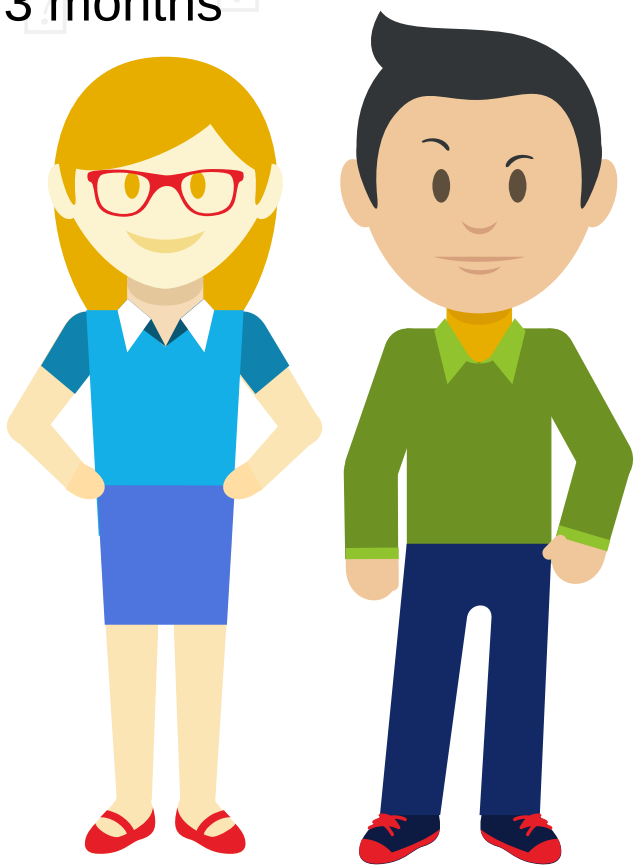
45% of university graduates need a certificate or other qualification

In a US countrywide survey by Harvard university 2017

1. 12- 15 job applications every 3 months
2. Less than 3 interviews every 3 months
3. 86 percent have no job offers in their related fields in the first year.

70%

Either unemployed or working in an UNRELATED non-professional job



20%

Have professional jobs, but are looking for a new one or working a second job.

Education and Work Choice

In a US countrywide survey by Harvard university 2017

75 % “I don't know what positions are a good for me."

71 % “Seldom get career advice."

46 % “I don't know what to do with my major."

35 % “Never investigated the career choice properly."

LinkedIn data from 500+ million members (2018)

MOST COMMON JOBS COMPANIES ARE SEEKING TO FILL	
Cloud and Distributed Computing	Marketing Campaign Management
Statistical Analysis and Data Mining	Data Engineering and Data Warehousing
Middleware and Integration Software	Storage Systems and Management
Web Architecture and Development Framework	Electronic and Electrical Engineering
User Interface Design	Algorithm Design
Electronic Automotive Services, Parts and Design	Shell Scripting Languages
Software Revision Control Systems	Economics
Data Presentation	Business Intelligence
SEO/SEM Marketing	Software QA and User Testing
Mobile Development	Virtualization
Network and Information Security	Database Management and Software

Trends in Productivity

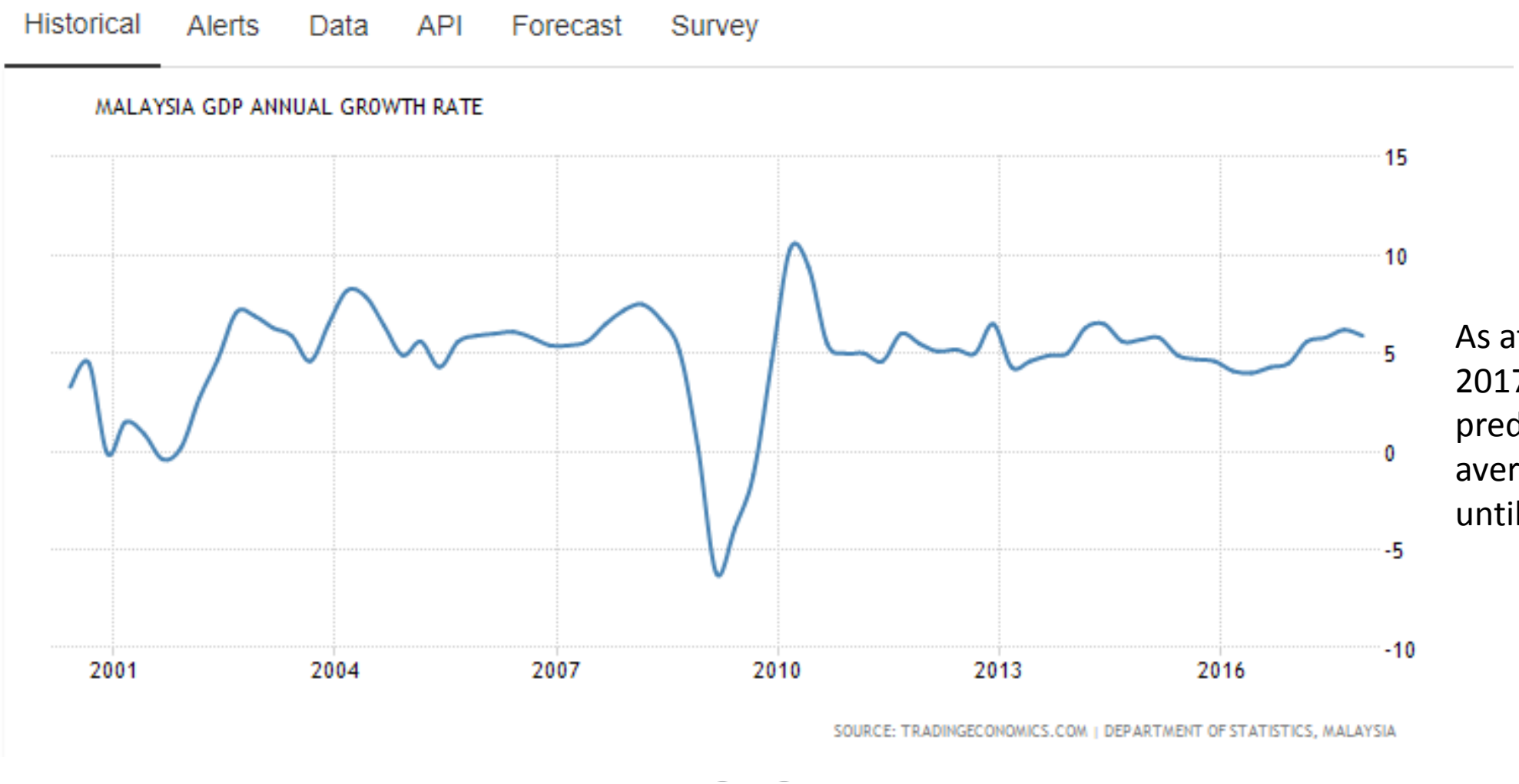
GDP has been dropping around the world for over 20 years as a result of less productivity.

Unemployment is very high everywhere especially in the millennials coming into the workforce.

The next 20 years are predicted to be the same

Malaysia's GDP is stable

But is it growing?



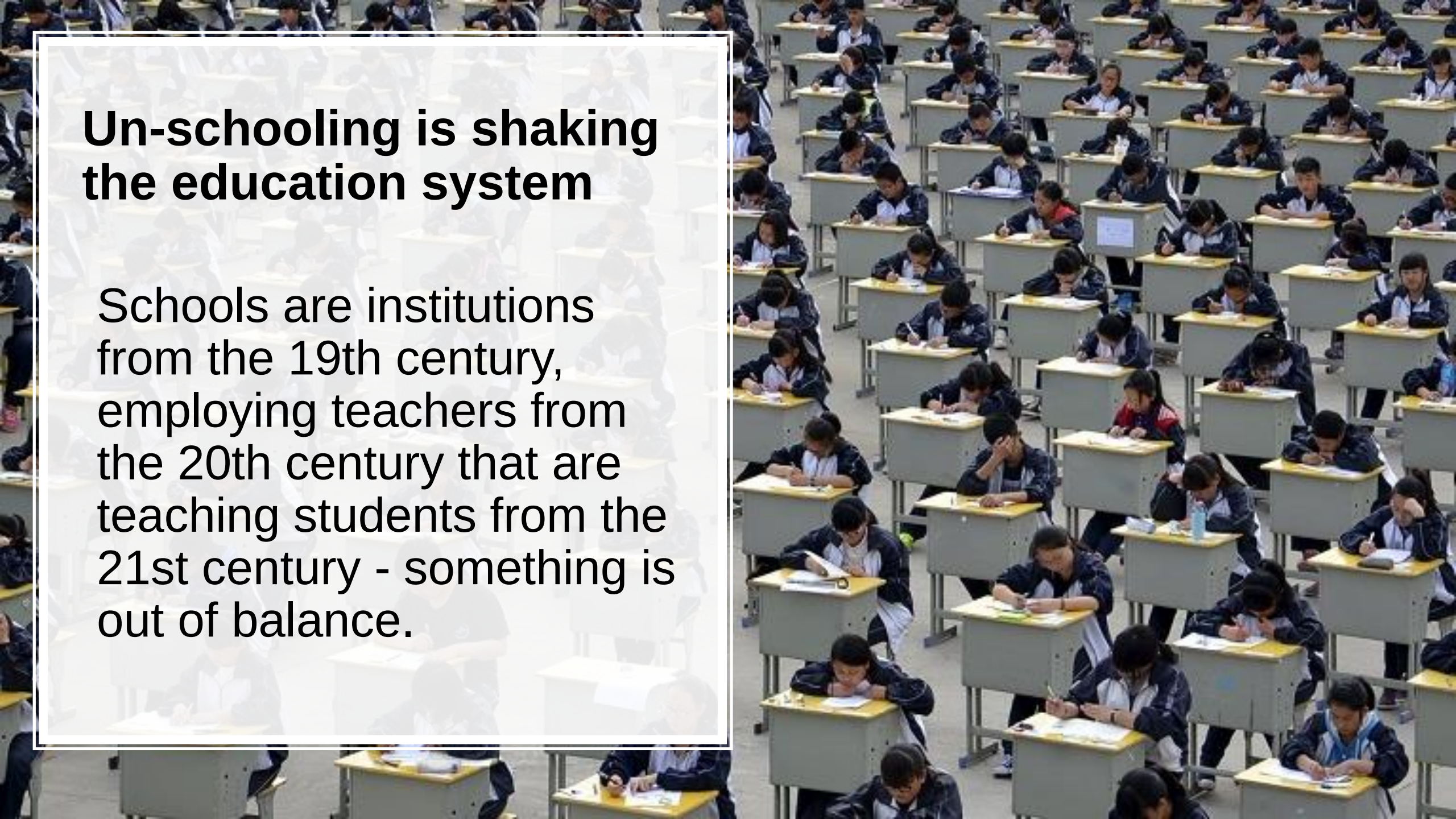
As at Dec 2017, 4.8% is predicted average until 2022

The traditional city where we are led to believe in vertical growth.

Sharing is challenging vertical notions of growth.

Un-schooling is shaking the education system

Schools are institutions from the 19th century, employing teachers from the 20th century that are teaching students from the 21st century - something is out of balance.



Reality TV

The new way to educate the masses

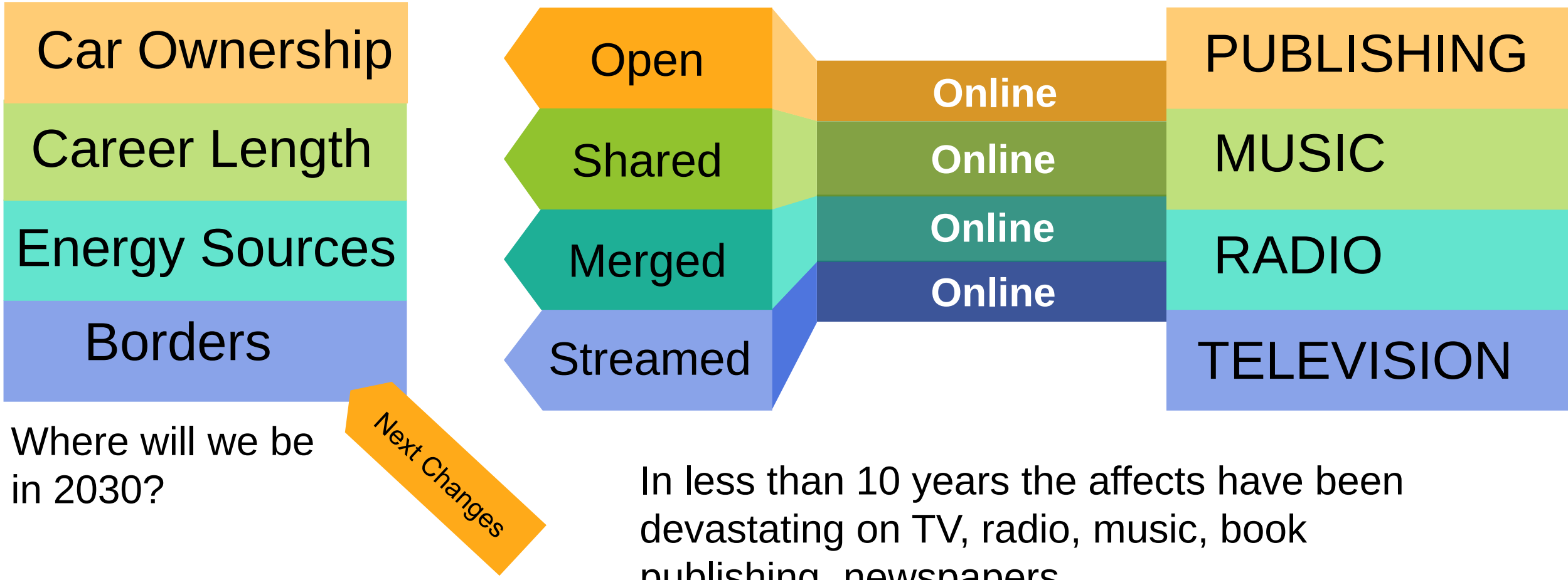
Is it fair to the thousands of apprentice chefs who work hard each day and do 3 or more years of culinary schooling?

Compare the number of celebrity chefs on TV (those who never attended full time cooking schools) to the number of real chefs on TV (those who attended years of professional cooking schools).

We are not valuing education as much as we value the notion of celebrity.

DISRUPTION

The world is changing faster than ever



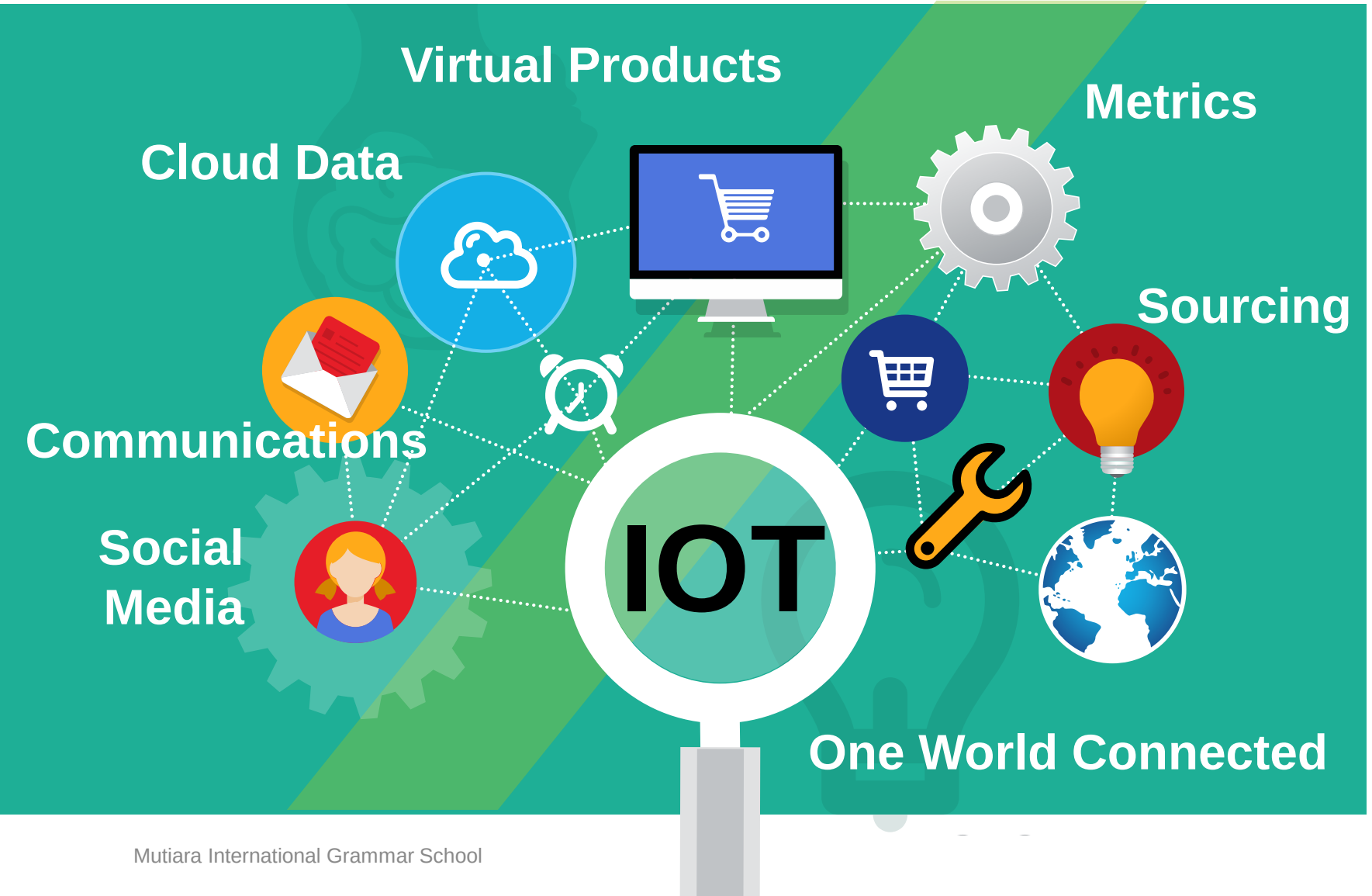
Where will we be in 2030?

Next Changes

In less than 10 years the affects have been devastating on TV, radio, music, book publishing, newspapers

The Internet of Things

The 3rd Industrial Revolution according to some.



Amazon…doesn't need shops

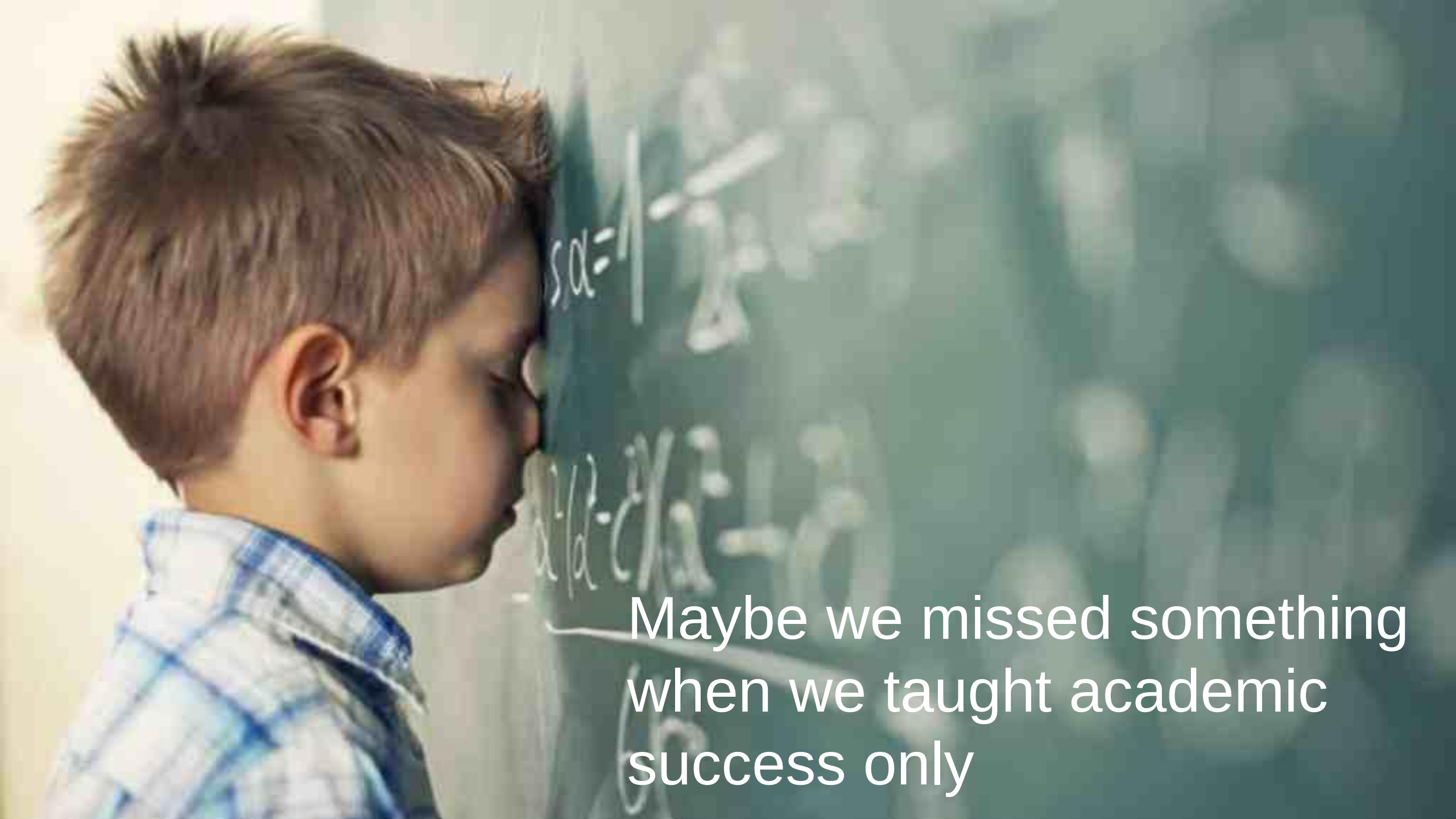
Airbnb…doesn't need hotels

Uber/grab…doesn't need taxis

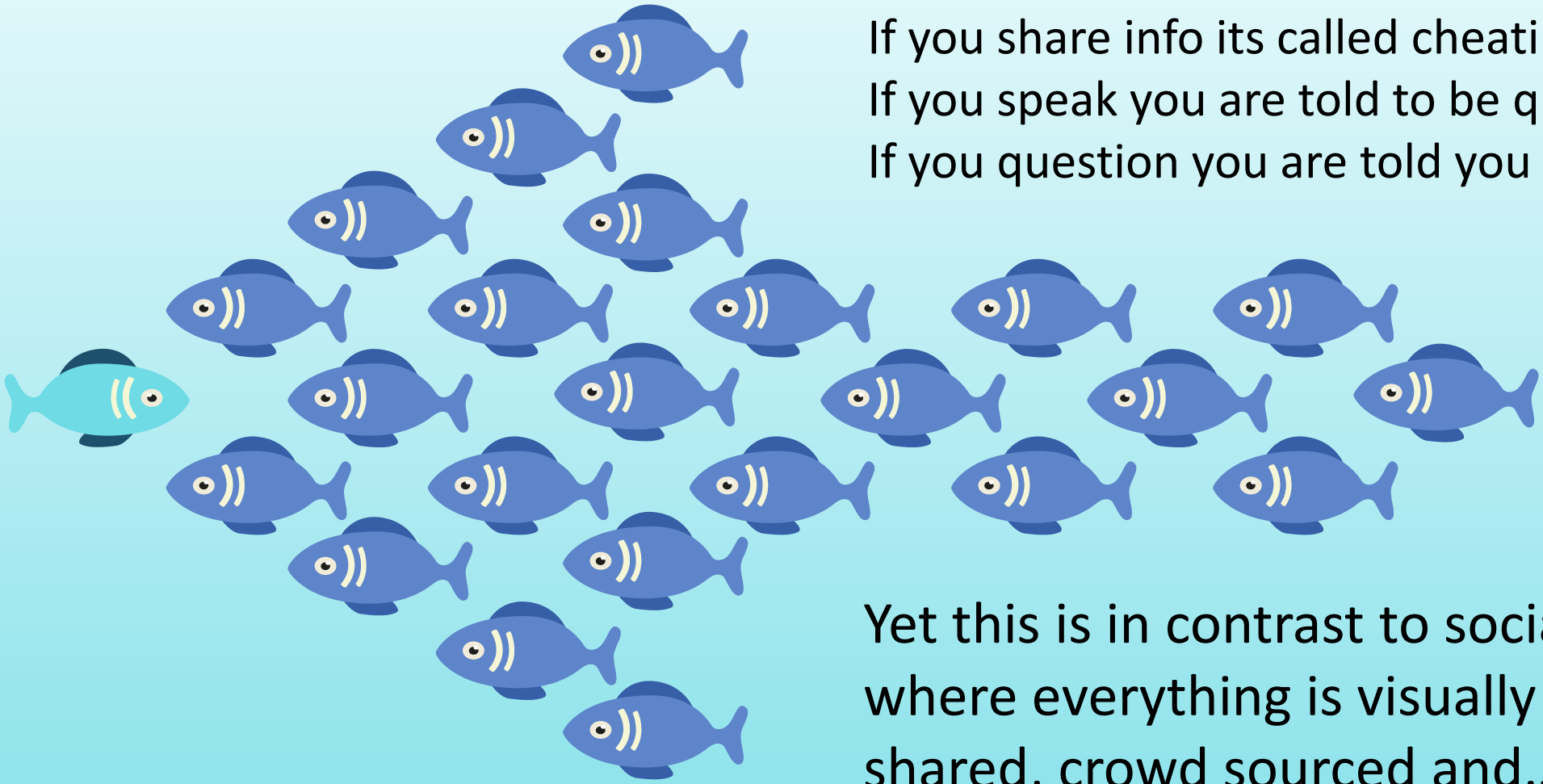
Wikipedia…replaces textbooks

As we move in the 2020s and 30s

The IOT will affect all industries including retro fitting of **construction**, **transport**, **communications**, **logistics, telecom** and **cable**, **real estate**, **health** and **medicine**, **consumer electronics, ICT** and **education**.


Maybe we missed something when we taught academic success only

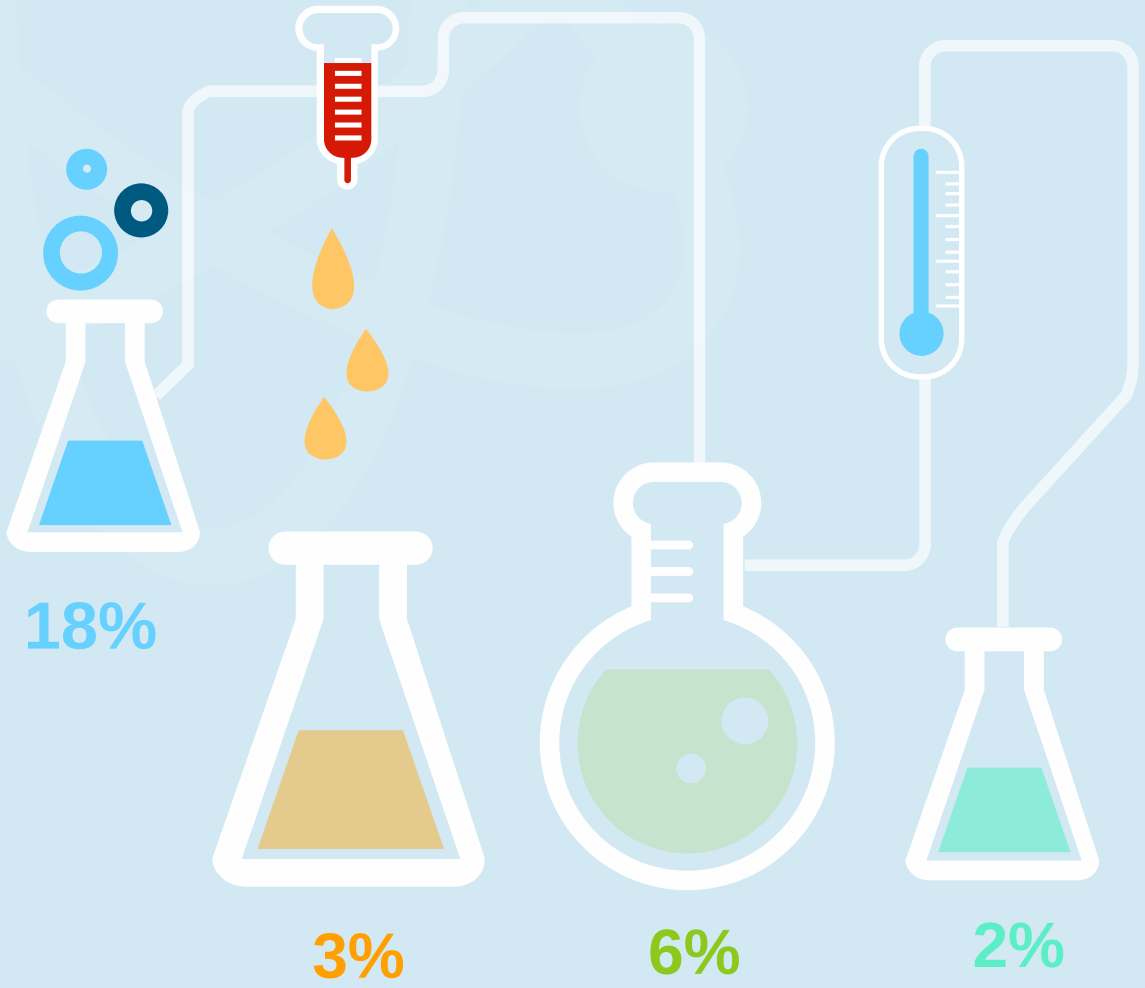
Schools are like a factory…one central authority



If you share info its called cheating
If you speak you are told to be quiet
If you question you are told you are wrong

Yet this is in contrast to social media where everything is visually bold, shared, crowd sourced and…

WE ARE ALREADY AT THE NEXT LIFE CYCLE IN EDUCATION



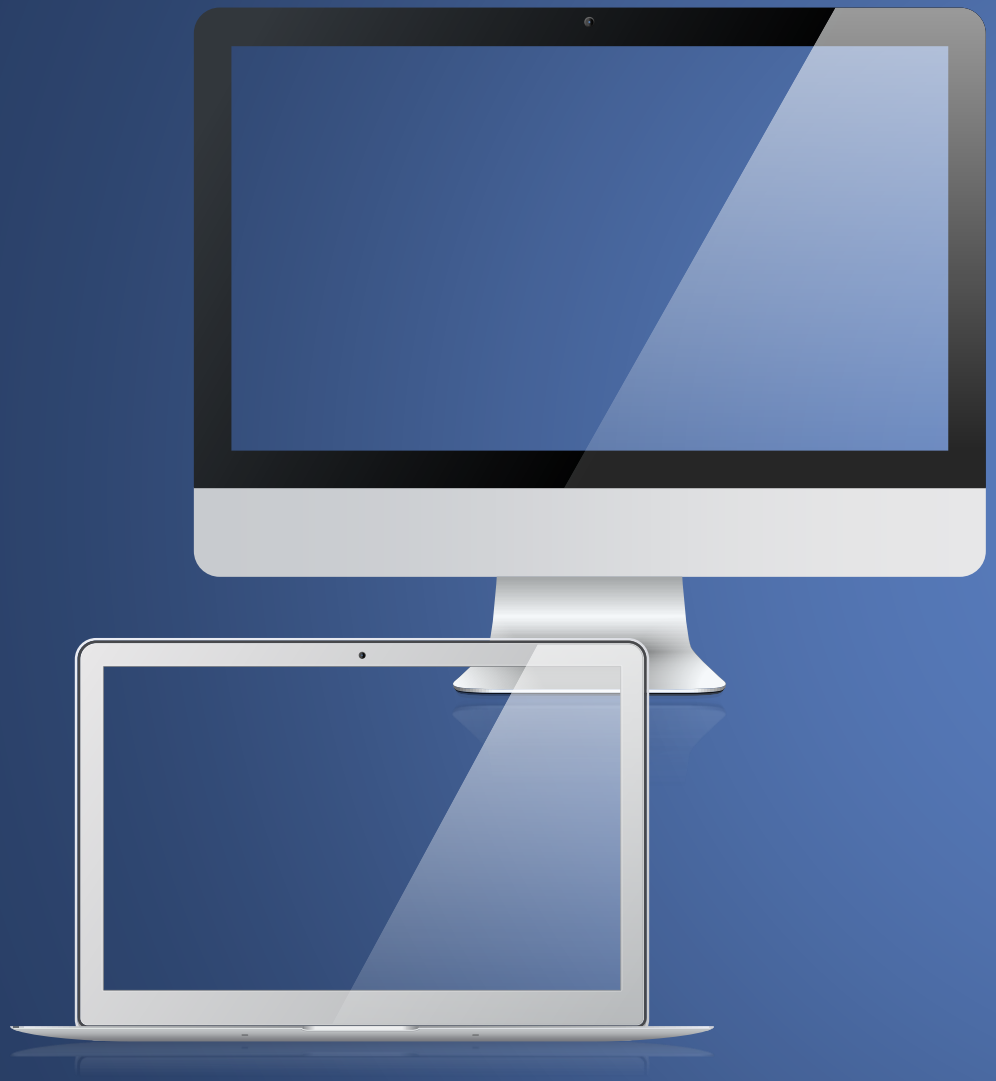
The way students learn, share ideas, get access to content, create and collaborate is fundamentally different.

Their mind sets are different, and the workplaces we are preparing them for are different.

Some kids have never been more than a few seconds away from the answers to their questions, with everything just a quick search away.

They are able to teach themselves about any topic they are interested in without even leaving their bedroom.

Being engaged is LEARNING



Students are increasingly advanced users of technology even as they enter school for the first time.

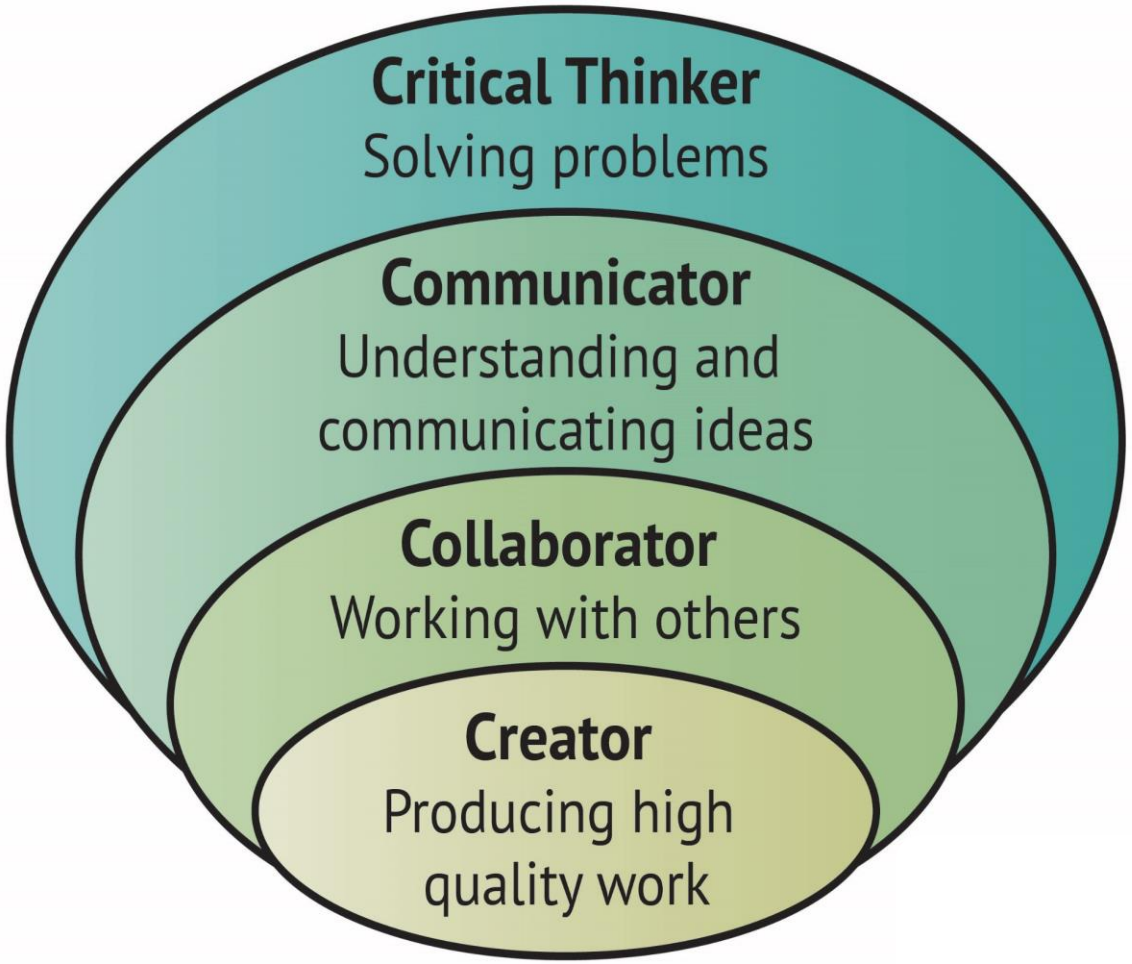
Many classroom ‘technology classes’ confuse children by attempting to teach them about programs, websites and hardware that are no longer relevant or that they (the students) understand far better than the teacher does.

Outdated employment models are dying

Does it still make sense to work from 9 to 5?

To be in the same room - or even country - as your boss and colleagues?

The Four Cs of 21st Century Skills



A teacher recently commented…”we don’t need to teach ICT at senior level because it’s not very popular”. That teacher was wrong!

The Technology Job Gap

forecast: BY 2018

190K unfilled data analytics jobs

OVER THE NEXT **10 YEARS,** THERE WILL BE **1 MILLION MORE** COMPUTING JOBS THAN STUDENTS TO FILL THEM ...

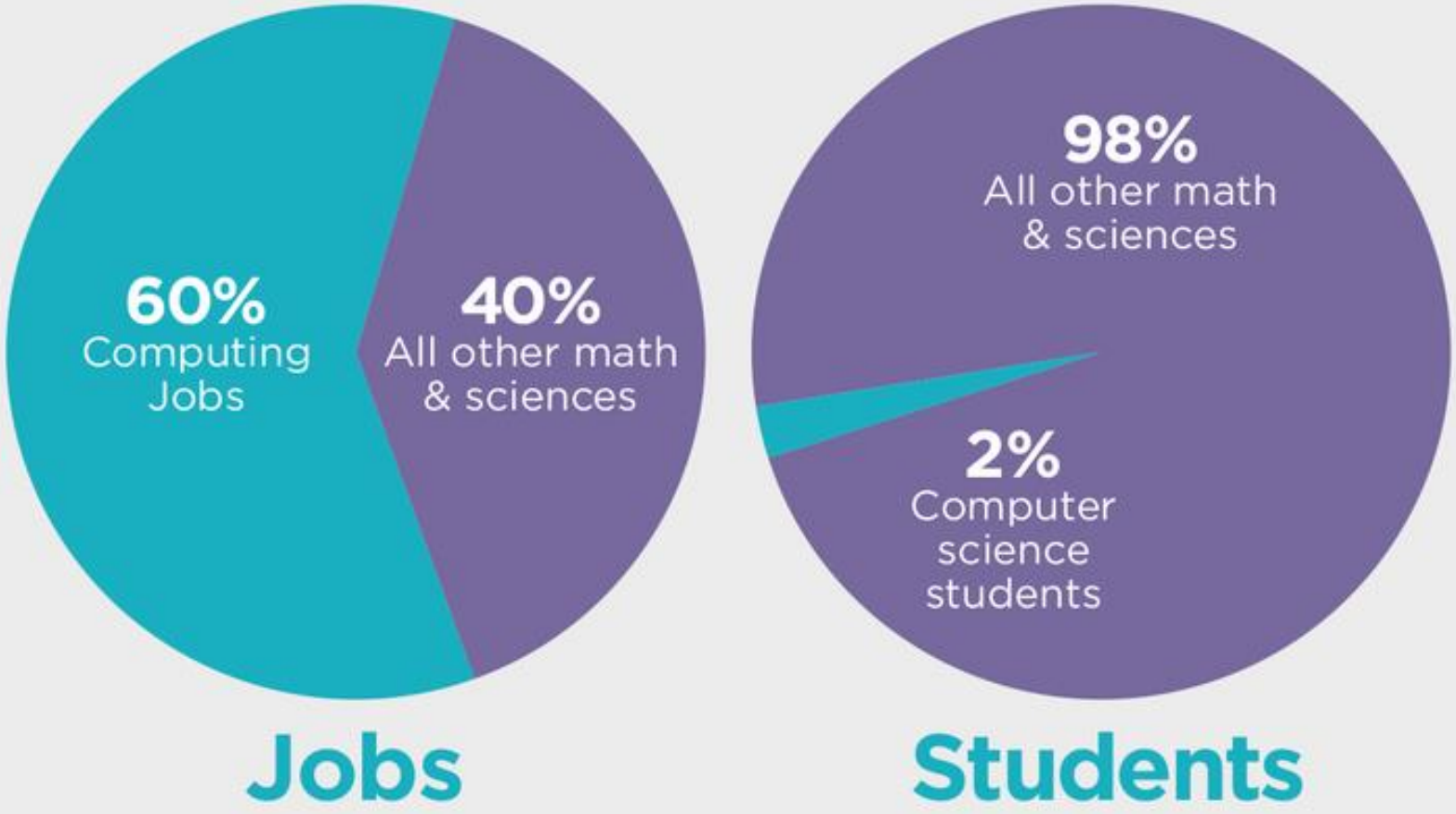
A POTENTIAL **LOSS OF $500 BILLION** IN SALARIES

Of the **6 industries** expected to grow the most by 2020, TECH currently pays the *highest*

IN HIGH SCHOOL

9 of 10 HIGH SCHOOLS DO NOT OFFER COMPUTER SCIENCE CLASSES

The job/student gap in computer science



Less than 2.4% of college students graduate with a degree in computer science. And the **numbers have dropped since** last decade.

MIGS…The way forward.

STOP. THINK. CONNECT

It’s how you think about things and apply the information for your benefit

MIGS…The way forward.

Stability
Communications
Better resources
Clarity of subject choices
Empowering others
Keeping abreast with trends & info
Solutions based
Collaborative
Creative

MIGS…The way forward.

This presentation represents my personal approach to how educators need to adapt for the future. Welcome to the 21st reality: a world of ever increasing change, innovation and disruption in all facets of society.

Fear and hatred are now manifest in every day news; most of it without rationale. We need to awaken from past teachings and adapt to a faster paced society where information sharing and cooperation is now key to success. We are data driven and with that comes greater stress on resource use, efficiency and performance. We all need to change our ideas and be part of the IOT revolution.