

Disruption in Education

Dr. Malay R. Dave
JIS Group

What About Disruption?

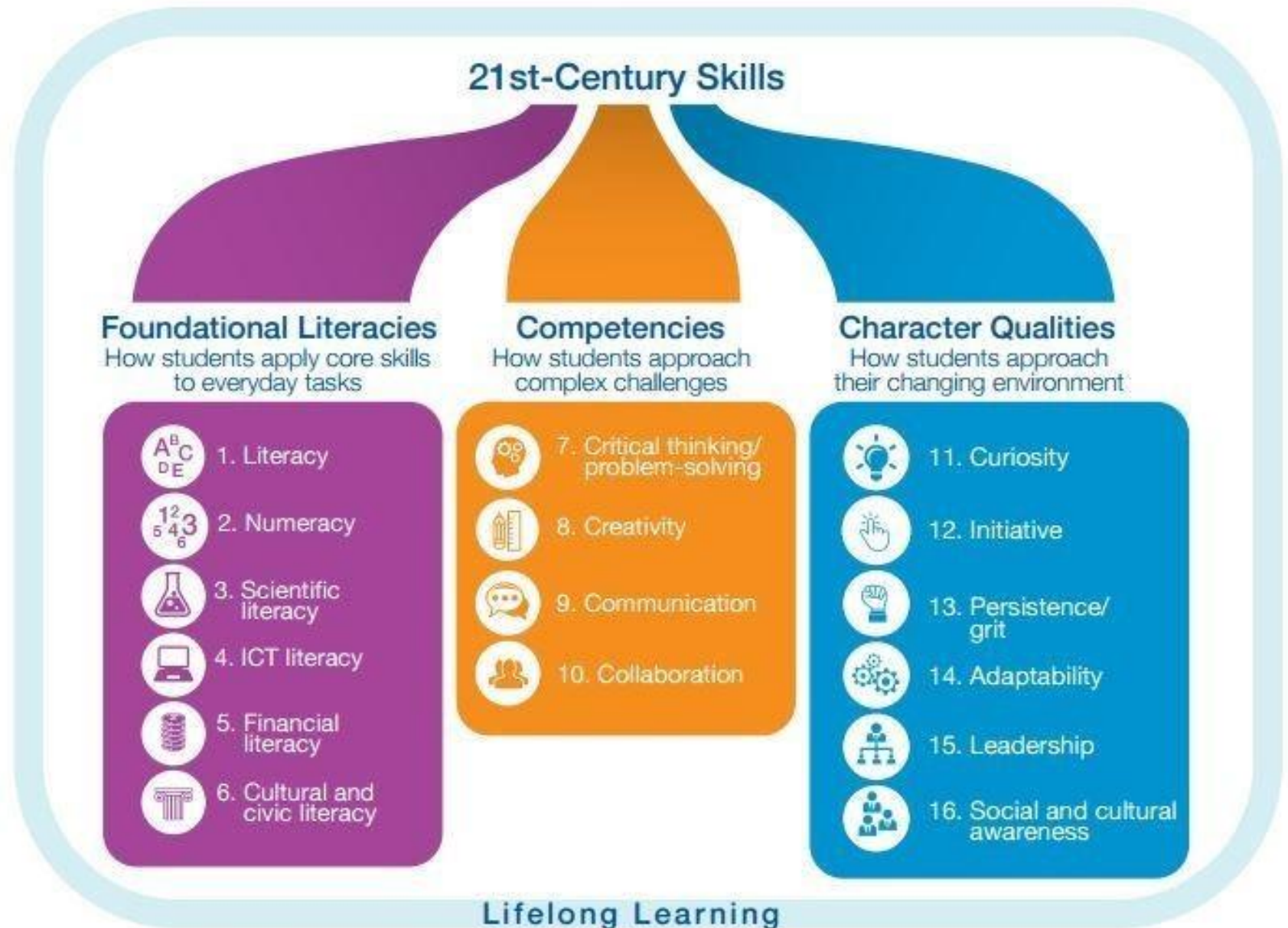
- Will digital dissemination produce a massive disruption to the EDUCATION industry, as it did to telegram & mail delivery services, photography & camera industry, film industry, bookselling and music distribution?
- The answer is YES. The traditional institutions will have to surrender to the challenges of the digital dissemination of knowledge, while gently replacing the traditional roles of the teacher by student centric education or will follow the Darwin's Law of Survival of the fittest.

The Skills Gap

The gap between the skills people learn and the skills people need is becoming more obvious, as traditional learning falls short of equipping students with the knowledge they need to thrive, according to the World Economic Forum report [New Vision for Education: Fostering Social and Emotional Learning Through Technology](#).

Today's job candidates must be able to collaborate, communicate and solve problems – skills developed mainly through social and emotional learning (SEL). Combined with traditional skills, this social and emotional proficiency will equip students to succeed in the evolving digital economy.

Exhibit 1: Students require 16 skills for the 21st century



Note: ICT stands for information and communications technology.

Exhibit 3: A variety of general and targeted learning strategies foster social and emotional skills



The Powershift in Skills

Another Forum report, *The Future of Jobs*, launched during the Annual Meeting 2016 in Davos, looked at the employment, skills and workforce strategy for the future.

The report asked chief human resources and strategy officers from leading global employers what the current shifts mean, specifically for employment, skills and recruitment across industries and geographies.

Policy-makers, educators, parents, businesses, researchers, technology developers, investors and NGOs can together ensure that development of social and emotional skills becomes a shared goal and competency of education systems everywhere.

Top 10 skills

in 2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgment and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility



in 2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity



The Future of Jobs

Five years from now, over one-third of skills (35%) that are considered important in today's workforce will have changed.

By 2020, the Fourth Industrial Revolution will have brought us advanced robotics and autonomous transport, artificial intelligence and machine learning, advanced materials, biotechnology and genomics.

These developments will transform the way we live, and the way we work. Some jobs will disappear, others will grow and jobs that don't even exist today will become commonplace. What is certain is that the future workforce will need to align its skillset to keep pace.

A new Forum report, The Future of Jobs, looks at the employment, skills and workforce strategy for the future. The report asked chief human resources and strategy officers from leading global employers what the current shifts mean, specifically for employment, skills and recruitment across industries and geographies.

What skills will change most?

Creativity will become one of the top three skills workers will need. With the avalanche of new products, new technologies and new ways of working, workers are going to have to become more creative in order to benefit from these changes.

Robots may help us get to where we want to be faster, but they can't be as creative as humans (yet).

Whereas negotiation and flexibility are high on the list of skills for 2015, in 2020 they will begin to drop from the top 10 as machines, using masses of data, begin to make our decisions for us.

A survey done by the World Economic Forum's Global Agenda Council on the Future of Software and Society shows people expect artificial intelligence machines to be part of a company's board of directors by 2026.

Similarly, active listening, considered a core skill today, will disappear completely from the top 10. Emotional intelligence, which doesn't feature in the top 10 today, will become one of the top skills needed by all.

Disruption in Industry

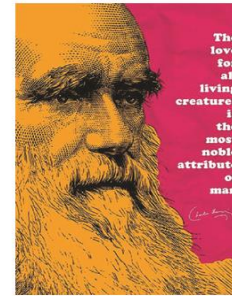
The nature of the change will depend very much on the industry itself. Global media and entertainment, for example, has already seen a great deal of change in the past five years.

The financial services and investment sector, however, has yet to be radically transformed. Those working in sales and manufacturing will need new skills, such as technological literacy.

Some advances are ahead of others. Mobile internet and cloud technology are already impacting the way we work. Artificial intelligence, 3D printing and advanced materials are still in their early stages of use, but the pace of change will be fast.

Change won't wait for us: business leaders, educators and governments all need to be proactive in up-skilling and retraining people so everyone can benefit from the Fourth Industrial Revolution.

You Are Wrong, Mr Darwin!



In the past 100 years, the world has transformed in to an amazing place with innovations galore!

- ☑ Edison's yellow tungsten lamp made way to brilliant energy savers called LED lamps.
- ☑ Baird's heavy weight B&W TV was replaced by billion display of colours of hang-on-the-wall LED TVs
- ☑ Bell's telephone metamorphosed in to today's slim & swanky smartphone, which can do almost everything for you except warming up of your cheese pizza!
- ☑ Paradoxically over the centuries, the traditional Indian classroom has neither evolved nor perished, challenging Charles Darwin's postulate of *survival of the fittest*.

For the 1st time in India, JISCE have digitally transformed the fossilised classroom in to a vibrant, awesome and innovative place; equipping students to face the challenges of future.

Digital Learning Will Take Your Breath Away!

Industry 4.0 - better known as
the fourth industrial revolution based on
automation & data exchange -
is here and changing the way
we live, work, think, manufacture, communicate,
perceive, exist and even dream!
Only we @ JISCE gear you up for the challenges of
the future through digital learning in India.

Digital Learning Will Take Your Breath Away!

