

LEARNING OF THE FUTURE

# Education 4.0



2020, MARCH 02



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**LEARNING  
AND INNOVATION GO HAND IN HAND.  
THE ARROGANCE OF SUCCESS IS TO  
THINK THAT WHAT  
YOU DID YESTERDAY WILL BE  
SUFFICIENT FOR TOMORROW.**

- WILLIAM POLLARD

# What is Industry 4.0?

## **4<sup>th</sup> INDUSTRIAL REVOLUTION**

Industry 4.0 refers to a new phase in the Industrial Revolution that focuses heavily on interconnectivity, automation, machine learning, and real-time data.

# Industry 1.0

Steam-based  
machines



18th Century

# Industry 2.0

Electrical Energy-  
based mass  
production



19th-20th Century

# Industry 3.0

Computer and  
Internet-based  
mass production



Late 20th Century

# Industry 4.0

Artificial  
Intelligence, IoT,  
Big Data



Early 21st Century



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**65% OF TODAY'S KIDS  
WILL END UP DOING  
JOBS THAT HAVEN'T  
EVEN BEEN INVENTED  
YET.**

- ALEXIS RINGWALD  
Co-founder & CEO, LearnUp

# What is Education 4.0?

EDUCATION 4.0 IS A DESIRED APPROACH TO LEARNING THAT ALIGNS ITSELF WITH THE EMERGING FOURTH INDUSTRIAL REVOLUTION.

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It is a school of thought that encourages non-traditional thinking when it comes to imparting education; essentially using technology-based tools and resources.

# EDUCATION 4.0: THE SHIFT IN PARADIGM

- Demand-led instead of supply-led education
- Emphasis on EQ than IQ alone
- Incorporate disruptive technologies & skill-sets
- Lifelong learning instead of front-loaded learning
- Competency-based instead of knowledge-based
- Modular Degree instead of one-shot going
- Focus on mindfulness leading to overall Happiness & Wellbeing



# The Effect on Education

## Education 1.0

- No expectation of formal education from children
- People learned a trade with on the job apprentice training
- Formal education: luxury for the rich

## Education 2.0

- Industry 2.0: need for skilled workers
- literacy valued
- many ways still in place today
- Knowledge-based
- Tested for retention over skill
- Rigid framework

## Education 3.0

- Educators replaced with computers but ethos of 2.0 continued
- Better distance learning & information access since Internet

## Education 4.0

- Training over teaching
- Finding information than memorizing it
- More idiosyncrasy & flexibility
- Alignment with Industry 4.0

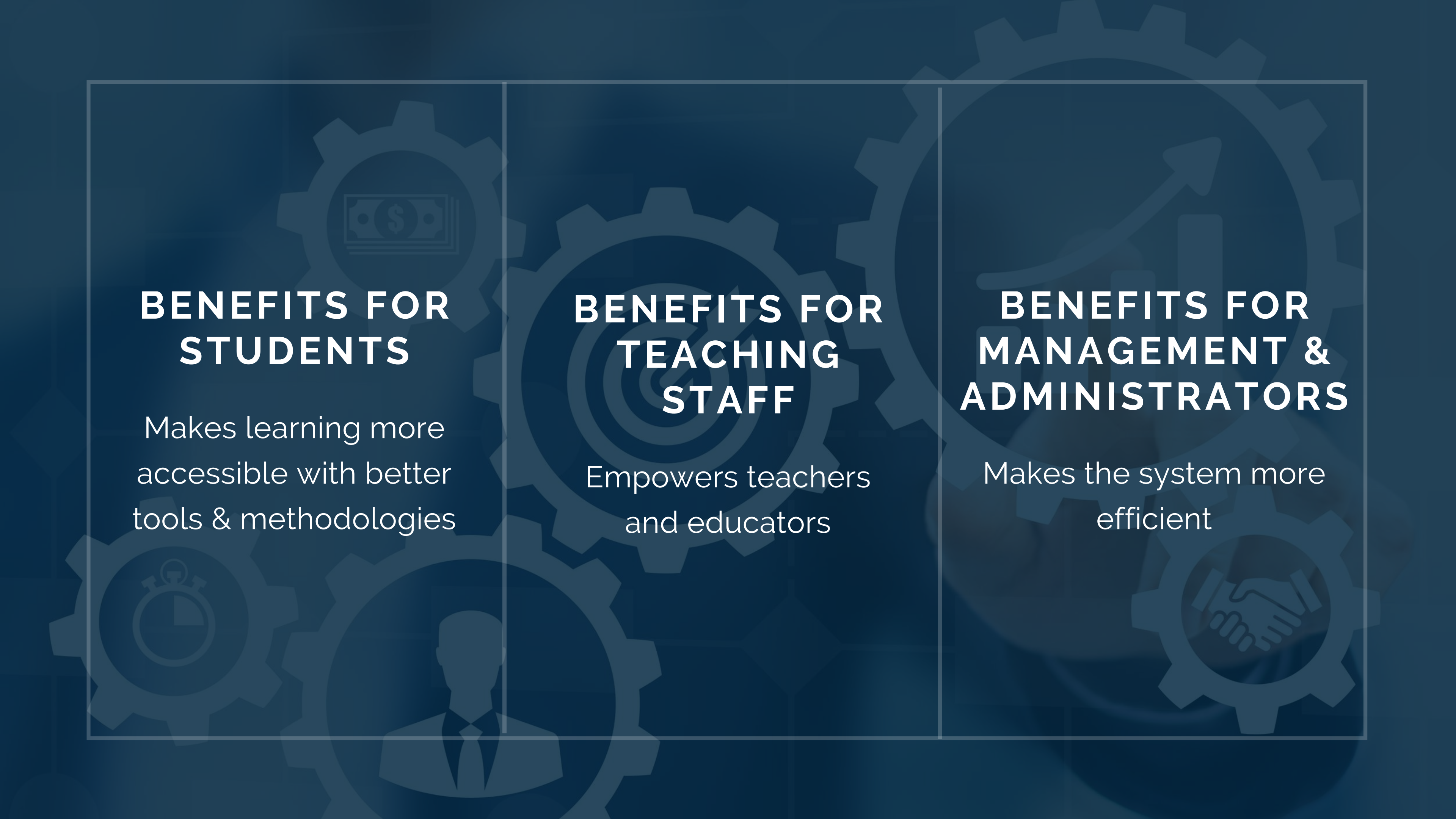


# Why do we need education 4.0?

**EDUCATION MUST KEEP PACE WITH THE WORLD IT IS TRAINING STUDENTS FOR**

- Education 4.0 ensures that the teaching experience is similar to the working experience
- More realistic and practical approach to learning
- Increased personalisation in learning
- Use of smart management, learning & communication tools
- Better learning outcomes for students in terms of their real academic or professional interests





## **BENEFITS FOR STUDENTS**

Makes learning more accessible with better tools & methodologies

## **BENEFITS FOR TEACHING STAFF**

Empowers teachers and educators

## **BENEFITS FOR MANAGEMENT & ADMINISTRATORS**

Makes the system more efficient

- Accelerated remote learning
- Project-based learning
- SCALE-UP way of learning
- Practical & experiential projects or field work for assessment
- Deeper fusion of technology into the teaching process
- Advanced analytics
- Possibility of entirely customizable degrees

# Key Takeaway



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