



UNIVERSITAS  
ISLAM  
INDONESIA

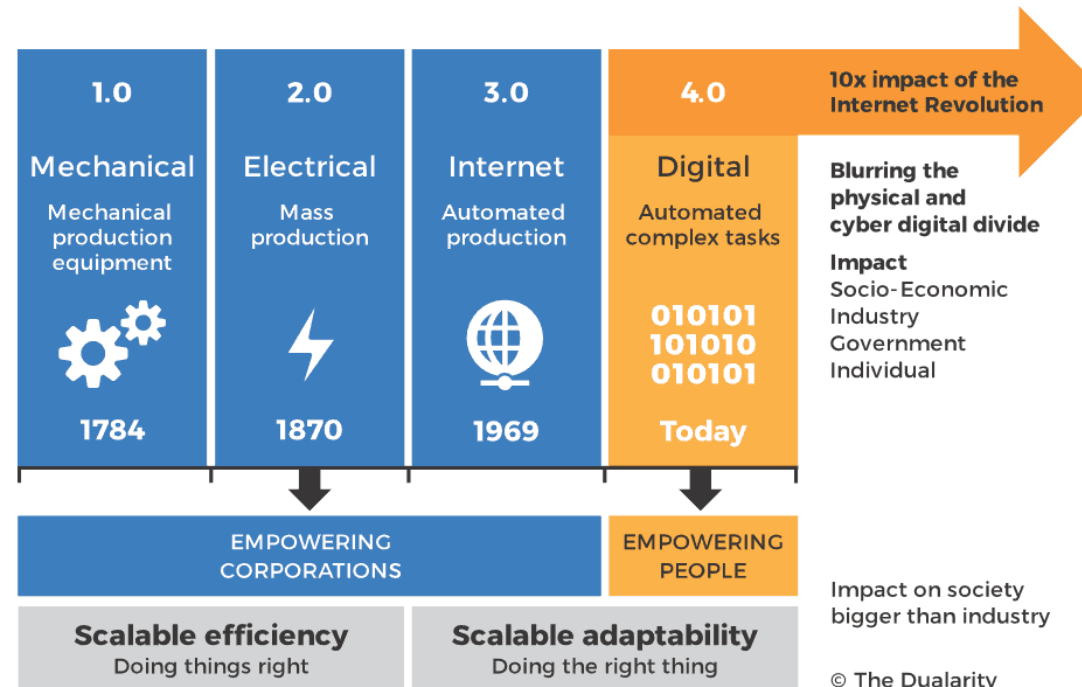
# PSIKOLOGI DAN INDUSTRY 4.0

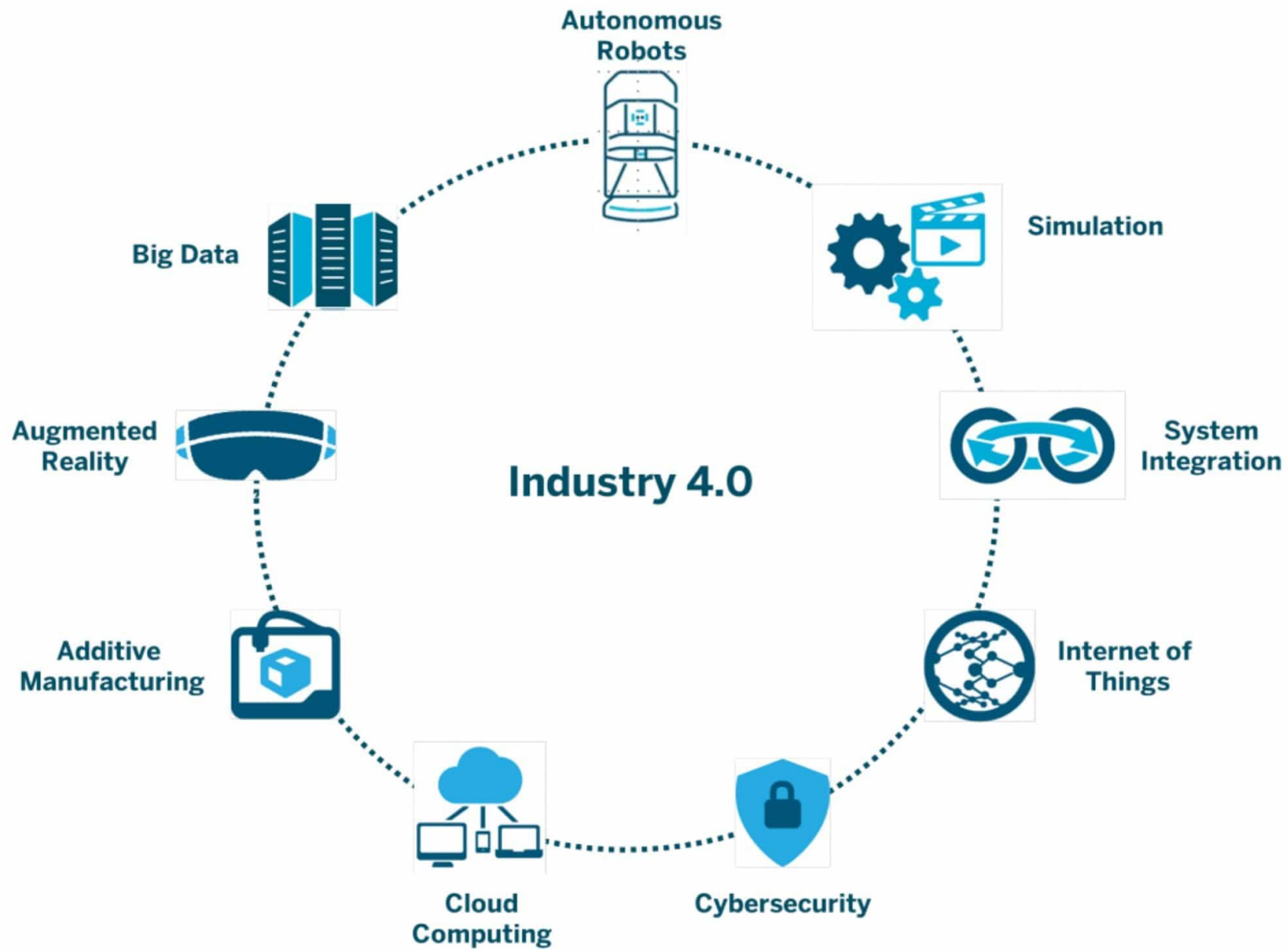
Dr. rer. nat. Arief Fahmie, S. Psi, MA, Psikolog  
Universitas Mercu Buana Yogyakarta, 24 November 2018

# INDUSTRIAL REVOLUTION

## Welcome to the Industrial Revolution 4.0

010101  
101010  
010101





<https://aethon.com/mobile-robots-and-industry4-0/>

## The safest jobs

Mental health and substance abuse social worker  
Chance of automation  
**0.3%**

Occupational therapist  
Chance of automation  
**0.35%**

Dietitian and nutritionist  
Chance of automation  
**0.39%**

Physician and surgeon  
Chance of automation  
**0.42%**

Clergy  
Chance of automation  
**0.81%**

## The least safe jobs

Telemarketer  
Chance of automation  
**99%**

Loan officer  
Chance of automation  
**98%**

Cashier  
Chance of automation  
**97%**

Paralegal and legal assistant  
Chance of automation  
**94%**

Taxi driver  
Chance of automation  
**89%**

Fast food cook  
Chance of automation  
**81%**

<https://www.theguardian.com/us-news/2017/jun/26/jobs-future-automation-robots-skills-creative-health>







CSC

# EVOLUTION OF RETAIL





# Top 10 skills

## in 2020

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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

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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



Source: Future of Jobs Report, World Economic Forum



## WHAT UNIVERSITIES NEED TO DO

1. Instil 4Cs into students — Communication, Collaboration, Critical Thinking, Creativity
2. Make programming and ICT education a compulsory subject
3. Develop educational content in collaboration with industry
4. Reform content and the methodology of education via digital
5. Have top people resources to lead global industry engagement
6. Create new business trends through reform of higher education
7. Industry 4.0 government, industry, university research



# Content Design of Positive Psychology Based ERP HRM

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Psychology as a science of behavior has been interacting with information technology in various ways in term of increasing technology acceptance and psychological well being of users.

Examples: Computer-Based Test Form of 16PF (Fahmie, 2003), E-Government and organizational psychology (Fahmie, 2004), Effectiveness of SAP ERP for HCM Learning (Miranty & Fahmie, 2014).

Developed by integrating contents of positive psychology, such as engagement, gratitude, empowerment, in modules of ODOO 11, an open source ERP that offers a range of business applications. Research in progress.

Compared to other Human Resource Information System software, such as Happster, built on the principals of positive psychology.

## New Feedback

Title

Thanks for the new laptops!

33

Description

I

300 max characters

SENTIMENT SCORE

Negative 🚫

Neutral 😐

Positive 😊





Other research:

1. Applied psychology for SMEs in halal tourism industry

