

Mien R. Uno
— FOUNDATION —

Industry 4.0

Dynamics and Opportunity for Muslim Youth

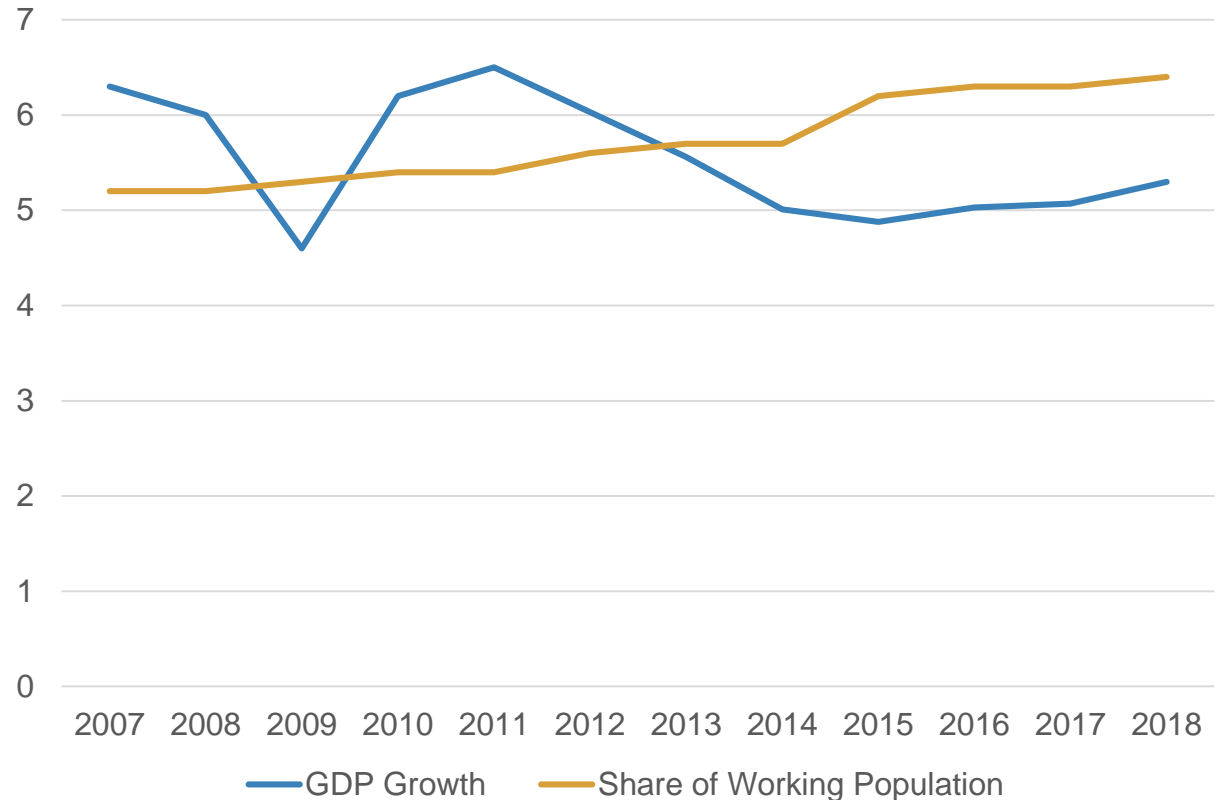
Munas XVI FoSSEI, UPI Bandung
12 September 2018

Indonesia remains one of fastest-growing emerging market economies, growth stabilizing at around 5%

Its working age population is projected to continue to increase as a share of total population until 2030 (Indonesia Demographic Bonus 2020-2030).

This young and growing workforce will need quality jobs.

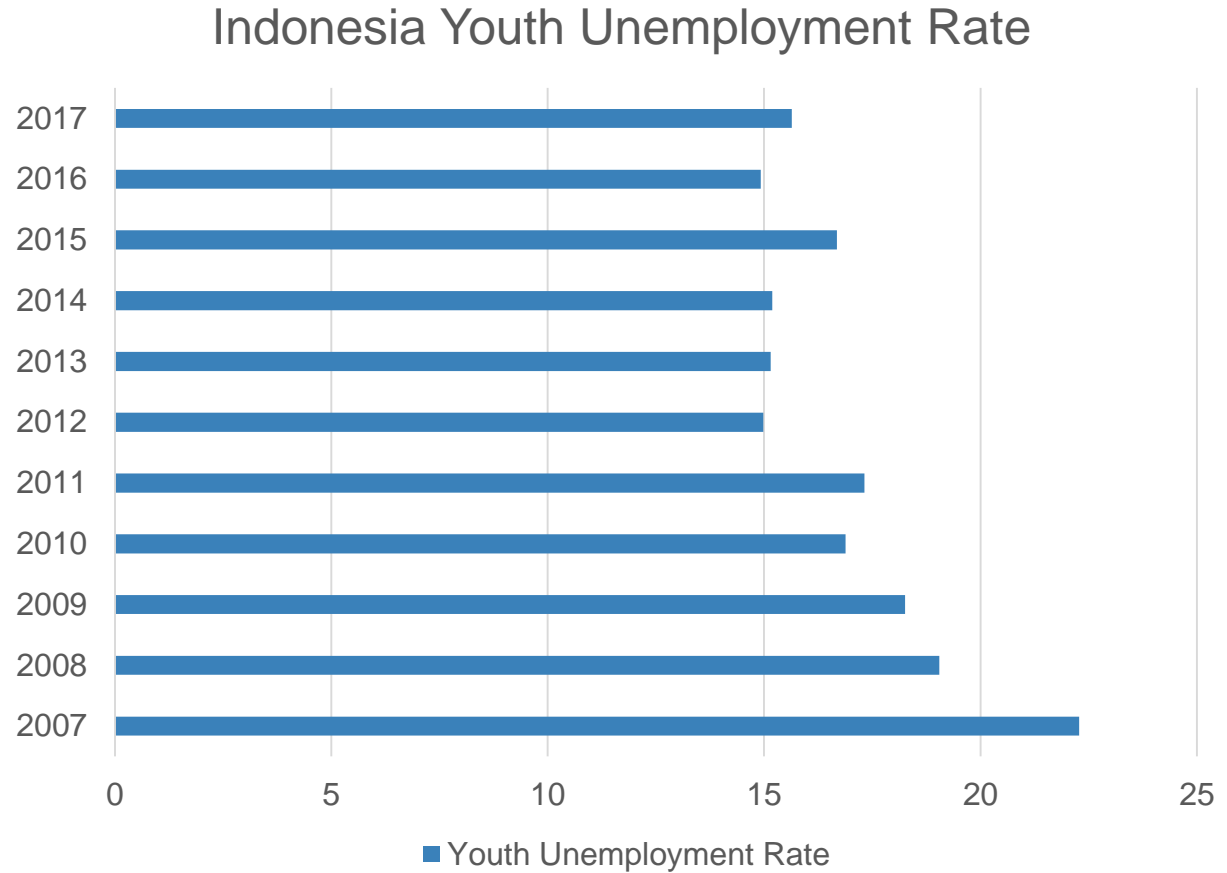
GDP Growth and Working Population



Indonesia Unemployment Rate



Indonesia Youth Unemployment Rate



Source: ILO Estimates

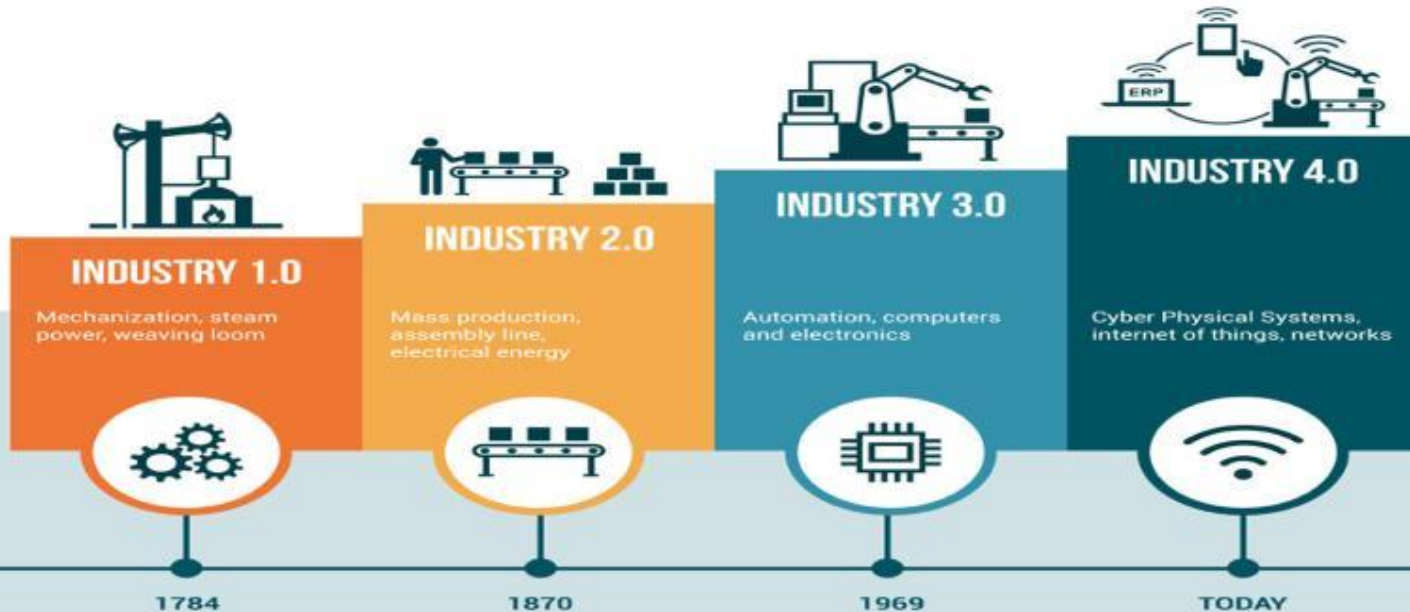
Underemployment In Indonesia

- **Underemployment Rate was around 35% of total workforce (Manning, 2003).**
- **Male and young workers tend to be underemployed, due to their less working experience.**
- **Workers with high education, such as university tend to be underemployed.**

INDUSTRY AS SOLUTION FOR JOB CREATION

INDUSTRIAL REVOLUTION

TRANSFORMING INDUSTRIES AND INNOVATION



Source: WEF

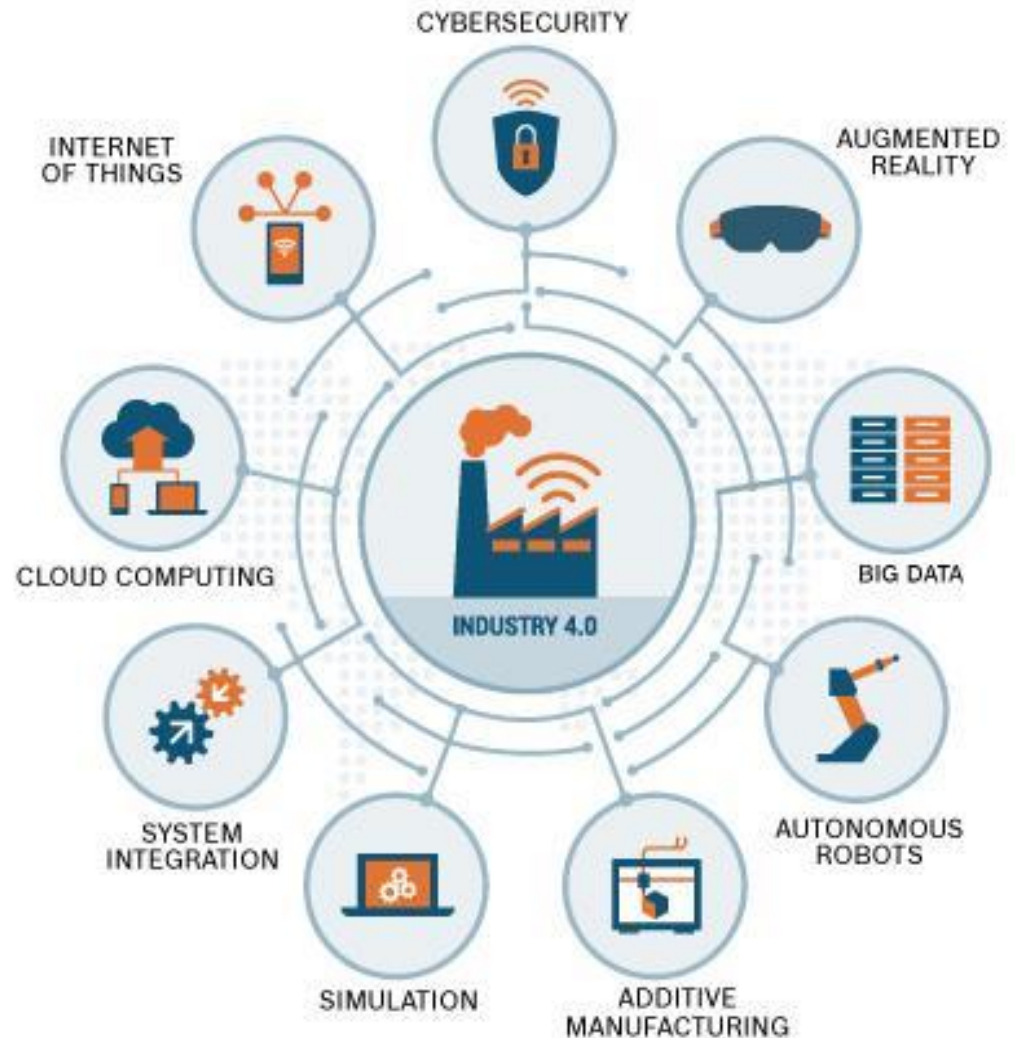
Industry 4.0 Driven Forces

Rise in Data Volumes and Computational Computer

Improvements in Transferring Digital Instructions to Physical World

Emergence of Analytics and Business-Intelligence Capabilities

New Forms of Human Machine Interactions



Industry 4.0 Characteristics

Platforms, in which
product, services,
information can be
exchanged via
predefined streams

Pay by use and
subscription-based
services

Business that license
intellectual property

Business That
Monetize Data

Fundamentals of Industry 4.0

ECommerce

Financial Technology

Big Data

Smart Cities

Shared Economic

Internet of Things

Renewable Energy

3D Printing

Virtual Reality

Nanotechnology





**TECH
DISRUPTION**

STARTUP CONTINENT: THE MOST WELL-FUNDED TECH STARTUPS IN ASIA AND THE PACIFIC

as of 2017 YTD (5/23/2017)



Owning



Sharing
Economy

The most well-funded VC-backed tech startups by country in Asia and the Pacific with new funding since 2014. Excludes countries whose most well-funded startup has not raised more than \$200K. Excludes debt.



HIJUP





FOOD
\$1,088 BILLION
2012 EXPENDITURE



FINANCE
\$1,354 BILLION
2012 ASSETS



CLOTHING
\$224 BILLION
2012 EXPENDITURE



TOURISM
\$137 BILLION
2012 EXPENDITURE



**MEDIA/
RECREATION**
\$151 BILLION
2012 EXPENDITURE



PHARMACEUTICALS
\$70 BILLION
2012 EXPENDITURE



COSMETICS
\$26 BILLION
2012 EXPENDITURE



CORE SECTORS

Food
Finance
Travel
Pharmaceuticals & Cosmetics
Clothing/Fashion
Media & Recreation
Others: Education, Philanthropy

**...STRUCTURALLY AFFECTED
BY ISLAMIC VALUES**

Halal food compliance
Islamic law compliant
Halal food, prayers services
Halal ingredient compliance
Custom clothing
Family friend/Halal media

**...DRIVEN BY RETAIL
CUSTOMER NEEDS**

Halal food
Islamic finance
Value based services
Non-haram ingredients
"Modest" clothing
Values based media/recreation

**...DRIVEN BY BUSINESS
CUSTOMER NEEDS**

Islamic financing
Compliance
Standardization
Social responsibility
Governance
Business ethics

1.6B to 2.8B

Tech-Savvy Muslim Millennial in 2010-2050

Islamic Finance and Lifestyle Media

Social Media Most Discussed Topics by Muslim Youth

\$335B

Estimation of “sharing economy” growth by 2025

132,726,000

Indonesia Internet User Population 2018,

52% of population

And the number it is still growing in a very high pace

Thanks!

Any questions?

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