National GDP Contributors (Q2-2019)

1. Manufacturing: 19.52
2. Agriculture: 13.57
3. Trade: 12.95
4. Construction: 10.37
5. Mining: 7.38
6. Transportation and Warehouse: 5.57
7. Financial Services & Insurance: 4.10
8. Information & Telecommunication: 3.89
9. Gov. Administration: 3.72
10. Education Services: 3.22
11. Real Estates/Housing: 2.75
12. Accomodation & F&B: 2.74
13. Other Services: 1.92
14. Business Services: 1.89
15. Electricity & Gas: 1.13
16. Health & Social Services: 1.08
17. Water Supply: 0.07

17,36 Non-Oil&Gas

3 Biggest Manufacturing (Non-Oil&Gas) to National GDP (Q2-2019)

1. Food & Beverages Industry: 6.40%
2. Chemical, Pharmacy, &Traditional Medicine: 1.65%
3. Metal Products; Computers, Electronics, & Optical Products; Electric Equipments Industries: 1.65%

Source: National Statistics Bureau, 2019
“Indonesia must utilize the revolution through *Making Indonesia 4.0*”

Presiden Joko Widodo

*Indonesia Industrial Summit 2018*
5 sectors were selected for 4th Industrial Revolution implementation priority sectors

Sector Prioritization Matrix

Top 5 Sectors

- Food & Beverage
- Textile
- Automotive
- Electronics
- Chemical

Source: A.T. Kearney, World Bank, BPS
Indonesia has set 10 National Priorities for “Making Indonesia 4.0”

1. Reform Material Flow
   - Enhance domestic upstream material production; e.g. 50% of petrochemical is imported

2. Redesign Industrial Zones
   - Build a single nationwide industry zoning roadmap; resolve zoning inconsistency challenges

3. Embrace sustainability
   - Grab opportunities under global sustainability trend; e.g. EV, biofuel, renewables

4. Empower SMEs
   - Empower 3.7 million SMEs† by technologies; e.g. build SME e-commerce, technology bank

5. Build Nationwide Digital Infrastructure
   - Advance network and digital platform; e.g. 4G to 5G, Fiber speed 1Gbps, Data center and Cloud

6. Attract Foreign Investments
   - Engage top global manufacturers with attractive offer and accelerate technology transfer

7. Upgrade Human Capital
   - Redesign education curriculum under 4IR era
   - Create professional talent mobility program

8. Establish Innovation Ecosystem
   - Enhance R&D centers by government, private sector and universities

9. Incentivize Technology Investment
   - Introduce tax exemption/subsidies for technology adoption and support funding

10. Reoptimize Regulations & Policies
    - Build more coherent policies/regulations by cross-ministry collaborations

---

† Including micro enterprises
Source: Ministry of Industry, A.T. Kearney
INDONESIA HAS OPPORTUNITY TO GET ADDITIONAL GDP OF USD 155 BILLION BY 2025

Through the implementation of Industry 4.0, the additional GDP will be gained from Labour Input and Productivity Enhancement

<table>
<thead>
<tr>
<th>Source: Global Insight (WMM), IHS data, Euromonitor International, Team analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional GDP (USD Billion)</td>
</tr>
<tr>
<td>Labour Input</td>
</tr>
<tr>
<td>35</td>
</tr>
<tr>
<td>Productivity</td>
</tr>
<tr>
<td>120</td>
</tr>
<tr>
<td>Cumulative</td>
</tr>
<tr>
<td>155</td>
</tr>
</tbody>
</table>

Addition of Digital Workforces:

<table>
<thead>
<tr>
<th>Workforce of Manufacturing 4,5 million people</th>
<th>Workforce of Manufacturing Supporting Industry 12,5 million people</th>
</tr>
</thead>
</table>

Source: McKinsey,
Indonesia Industry 4.0 Readiness Index (INDI 4.0) merupakan standar acuan untuk mengukur tingkat kesiapan perusahaan untuk bertransformasi ke era Industri 4.0.

KRITERIA PENILAIAN INDI 4.0

Level 0: Belum siap
Level 1: Kesiapan awal
Level 2: Kesiapan sedang
Level 3: Kesiapan matang
Level 4: Sudah menerapkan

5 PILAR PENILAIAN KETERKAITAN PERUSAHAAN DENGAN INDUSTRI 4.0

1. Manajemen & Organisasi
   Seberapa besar dukungan peran manajemen dan organisasi untuk bertransformasi

2. Orang dan Budaya
   Apakah budaya dan karyawan perusahaan Anda siap untuk bertransformasi ke Industri 4.0

3. Produk & Layanan
   Keterkaitan antara layanan dan produk perusahaan untuk fit dengan Industri 4.0

4. Teknologi
   Teknologi Industri 4.0 apa saja yang sudah mulai disepakati di perusahaan

5. Operasi Pabrik
   Bagaimana kesiapan operasi perusahaan untuk mengimplementasikan sistem Industri 4.0
INDUSTRY 4.0 TRANSFORMATION MANAGER TRAINING

**Industry 4.0 Transformation Manager**
- To lead and drive the implementation of industry 4.0 for the company

**Industry 4.0 Transformation Expert**
- Acknowledgement from a renowned certification institute with the qualification in accordance with industrial needs

**Knowledge Management**
- Vertical and Horizontal Integration
- Main Technology for Industry 4.0
- Smart Factory
- Industry 4.0 Impact
- Key Performance Indicator
- Cyber Security

**Industry 4.0 Transformation Manager**
- Understand the digital necessity for production, logistic as well as the challenge
Pada Bulan Juli 2019, WEF menetapkan **10 lighthouse baru** dipilih karena:

- penerapan teknologi industri 4.0 memberikan dampak finansial dan operasional
- berhasil mengintegrasikan teknologi untuk meningkatkan efisiensi dan mendorong inovasi
Partner Country at HANNOVER MESSE 2020 is Indonesia

Representatives from Indonesia set the stage for their country's role as Partner Country at HANNOVER MESSE 2020 with the unveiling of the official Partner Country logo. From 20 to 24 April 2020, the resource-rich country will be the center of attention at the world's leading trade fair for industrial technology. Indonesia belongs to the Association of Southeast Asian Nations (ASEAN) and has the biggest economy within the group.

02 Apr. 2019

www.hannovermesse.de

From 20 to 24 April 2020, one of the largest manufacturing economies in Asia takes center stage at the world's leading tradeshow for industrial technology. Indonesia is by far the largest economy within the Association of Southeast Asian Nations (ASEAN). The archipelagic country aspires to become a global top ten economy by 2030.
THANK YOU

MINISTRY OF INDUSTRY OF THE REPUBLIC OF INDONESIA
Jl. Gatot Subroto Kav. 52-53,
Jakarta 12950 – INDONESIA
www.kemenperin.go.id