



Pangkalan Data dan Transformasi Digital dalam Masyarakat 5.0: Berubah atau Mati





Siapakah kita?

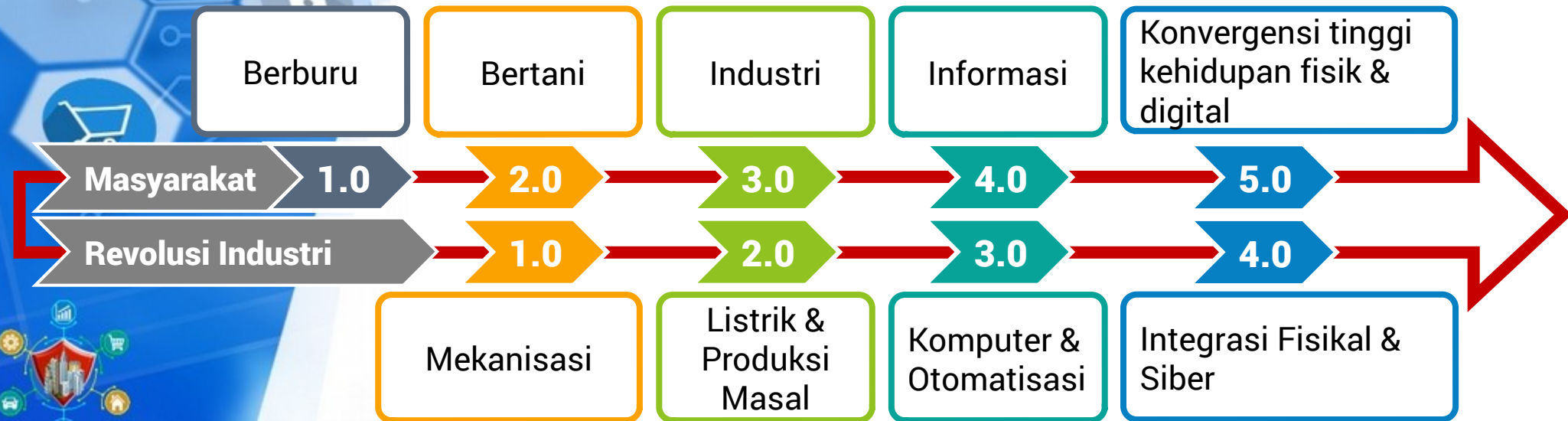
Dalam hubungan dengan

- Tuhan: Ciptaan
- Sesama ciptaan Tuhan: Manusia Mahluk Mulia
- NKRI: Pancasila
- Industri 4.0/Masyarakat 5.0: **Informasi**



Revolusi Industri 4.0 & Masyarakat 5.0

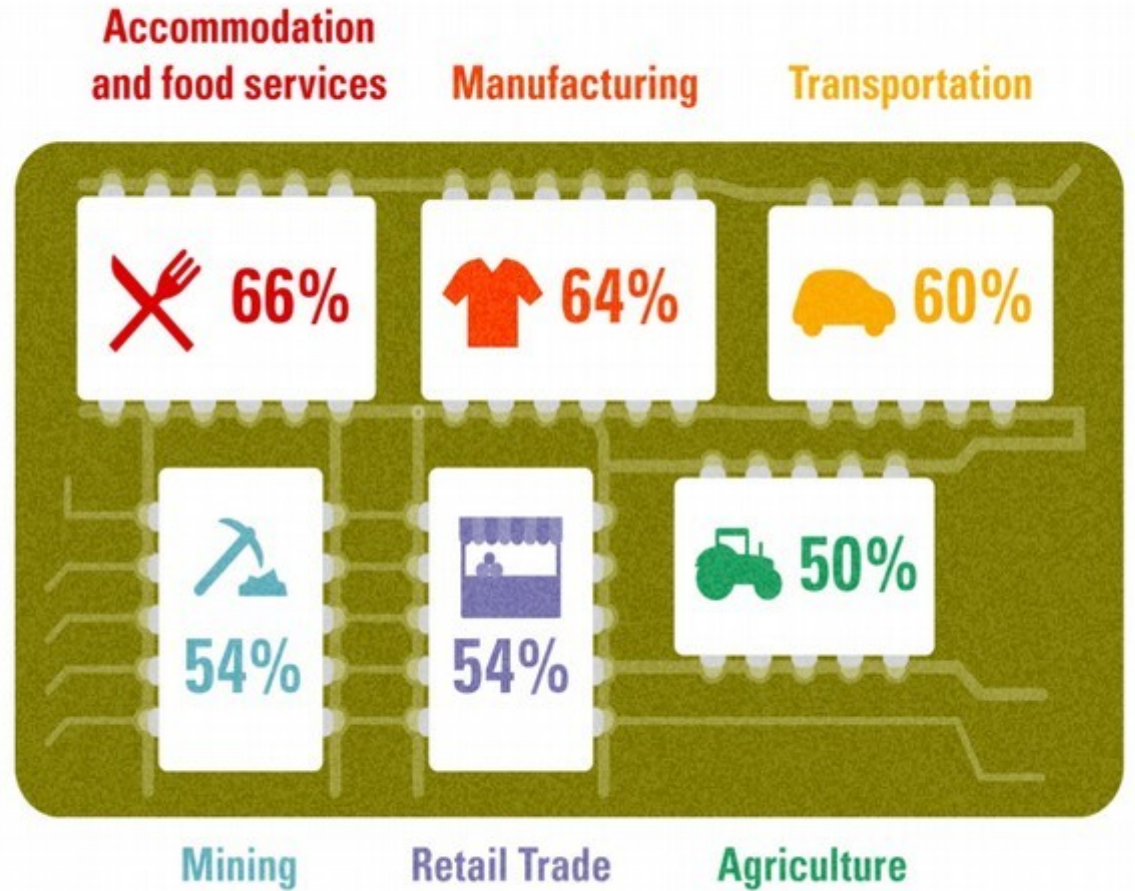
Industri 3.0: Dunia Fisik dan Siber adalah **dunia parallel**.
Industri 4.0: Dunia Fisik dan Siber adalah **dunia terintegrasi**.



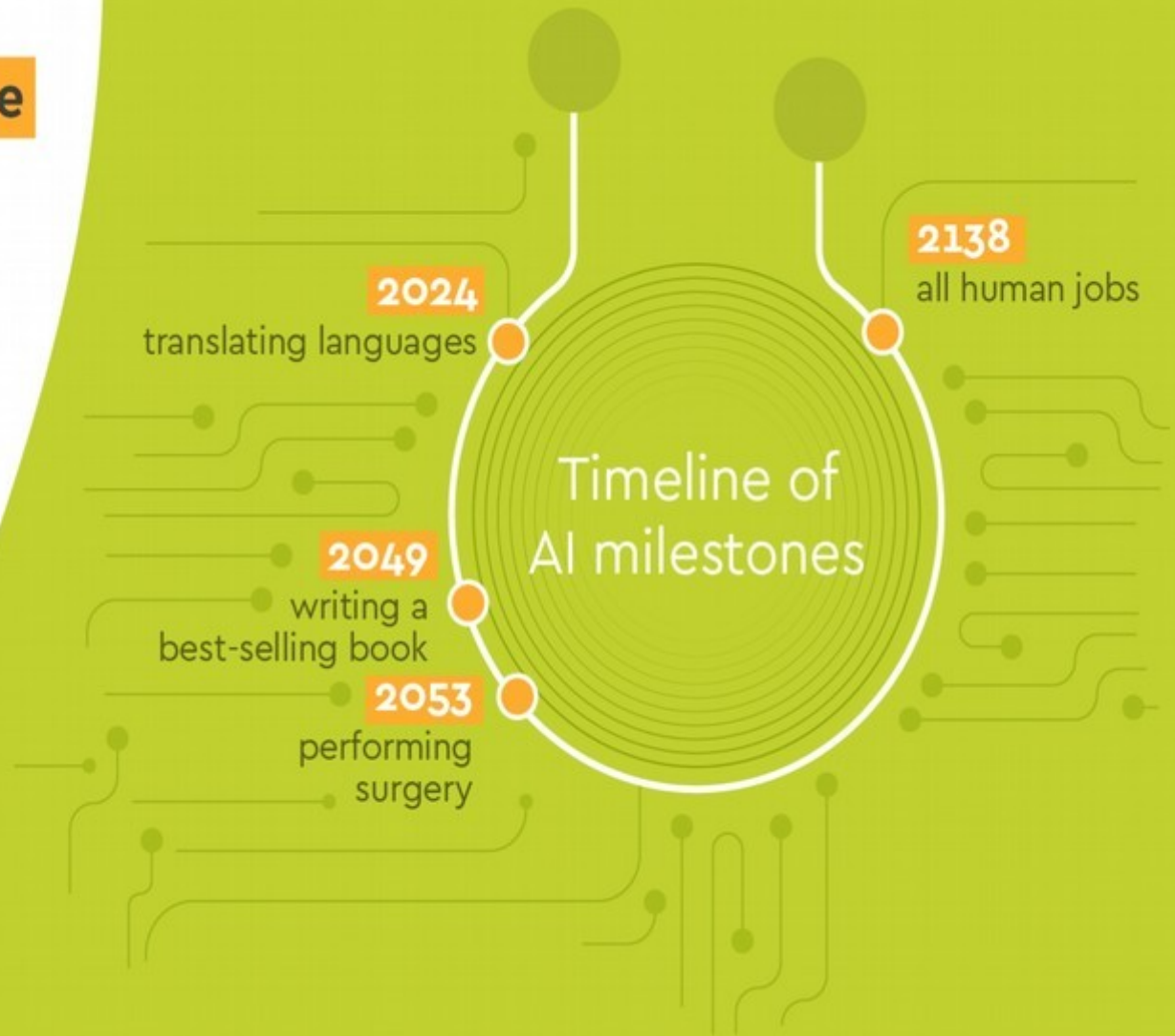
65% of primary school children will end up working in jobs that don't exist today



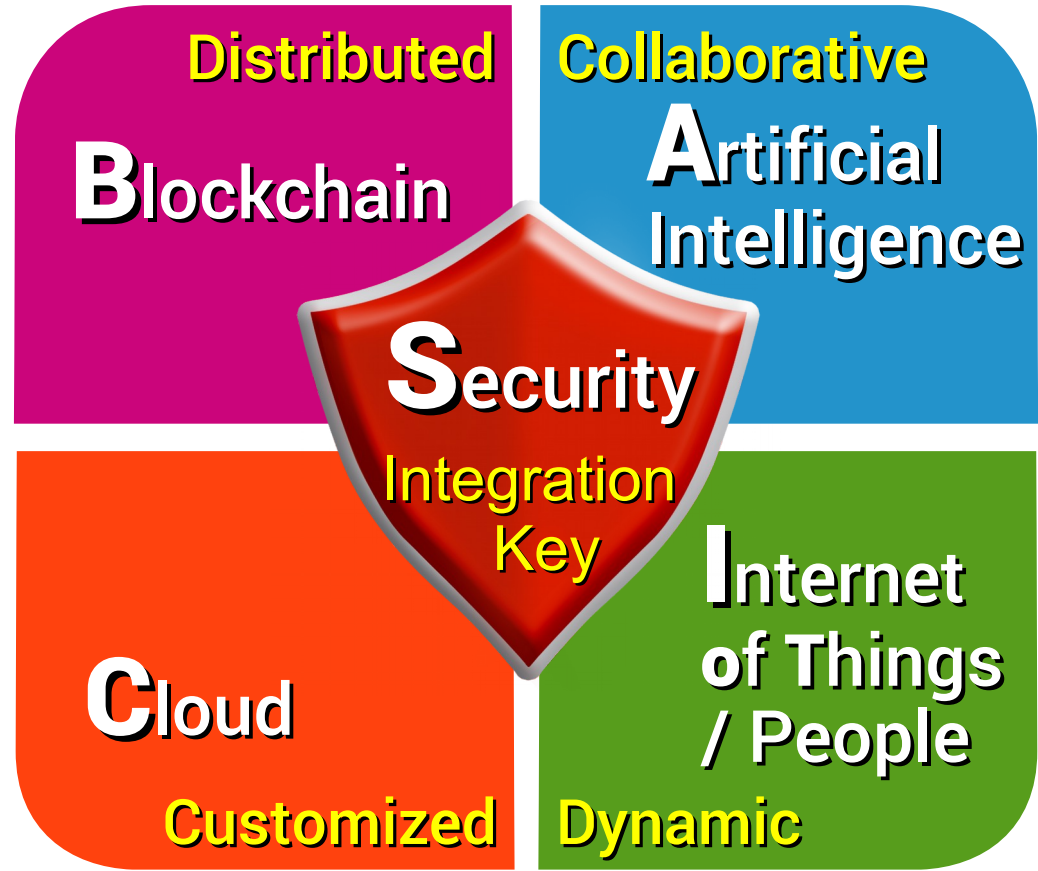
If existing technology is adapted, lower-skill and manual jobs have the **highest automation potential**



When will artificial intelligence outperform humans?



Komponen **BASIC** Revolusi Industri 4.0



BRINGING CIVILIZATION TO ITS KNEES...

Goths



Vandals

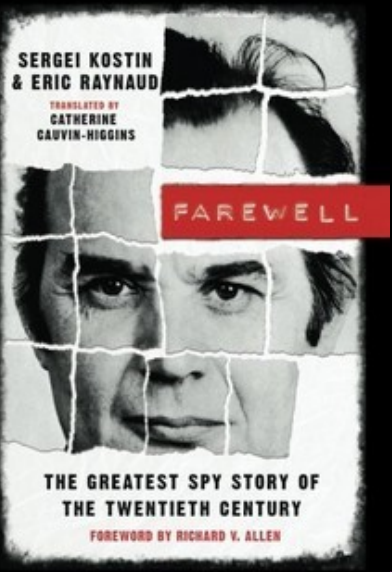


Huns



Geeks





1982: Farewell Dossier, CIA sabotaged Trans-Siberian gas pipeline **resulting 3 kilotons explosion.**

2005-2010: BTC Turkish Oil Pipeline Hacked, resulting explosion & fire for more 20 days.

Stuxnet attacked Iranian nuclear facility.
Intl. Space Station infected by malware.

2011-2015: RSA Security Hacked, 40 million one time password secrets stolen.

300 Oil Companies Hacked in Norway.

2016: SWIFT Hacked, The Central Bank of Bangladesh Lost \$101M

2017: 2.6 Billion records stolen.

Business Email Compromise, \$676 Million stolen
Equifax Hacked, 146.6M records stolen.

2018: DDoS Attack, 1.7 Tbps traffic flooding.

Google+, 500K users data at risk.
Facebook Hacked, 50M users affected.

Pentagon Hacked, 30K records stolen.

SingHealth Hacked, 1.5M records stolen.

Hackers Massively Bypass Two Factors Authentication.



“Cybercrime ecosystem profits \$1.5 trillion in 2017.”



Industry 4.0 Revolution in Fragile Environment

Example of Identity Theft Victim

BBC News Sport Weather Capital TV Radio

NEWS Magazine

News Front Page

Page last updated at 11:00 GMT, Thursday, 3 April 2008 12:00 UK

[E-mail this to a friend](#) [Printable version](#)

'I was falsely branded a paedophile'



Simon Bunce's credit card details were stolen while online shopping

Africa

Americas

Asia-Pacific

Europe

Middle East

South Asia

UK

England

Northern Ireland

Scotland

Wales

UK Politics

Industry 4.0 Revolution, Challenge: Agile in The Fragile Environment

Success Factors:

E-FAST

Efficient

Focus

Agile

Simple

Timely

5G



Solusi: Revolusi Pola Pikir





**“Rasa Aman Berbahaya.
Rasa Aman Membuat Kita Lengah.”
~Gildas Deograt**