



STRATEGI PENINGKATAN PROFESIONALISME DAN KOMPETENSI TENAGA KEPENDIDIKAN DI PERGURUAN TINGGI DI ERA REVOLUSI INDUSTRI 4.0

Pada Acara Workshop dan Seminar Nasional Jabatan Fungsional di
Institut Pertanian Bogor (IPB), 25 Juli 2019

Bunyamin Maftuh

Direktur Karir dan Komptensi Sumber Daya Manusia

Kementerian Riset Teknologi & Pendidikan Tinggi

Challenge
INDUSTRIAL REVOLUTION 4.0
& Digital Economy



75–375 Million
GLOBAL EMPLOYEES SHIFT PROFESSIONS

Technology disruption era is the combination of physical, digital and biological domain
(Schwab, 2017)

Internet of Things

Artificial Intelligence

New Materials

Big Data

Robotics

Augmented Reality

Cloud Computing

Additive Manufacturing 3D Printing

Nanotech & Biotech

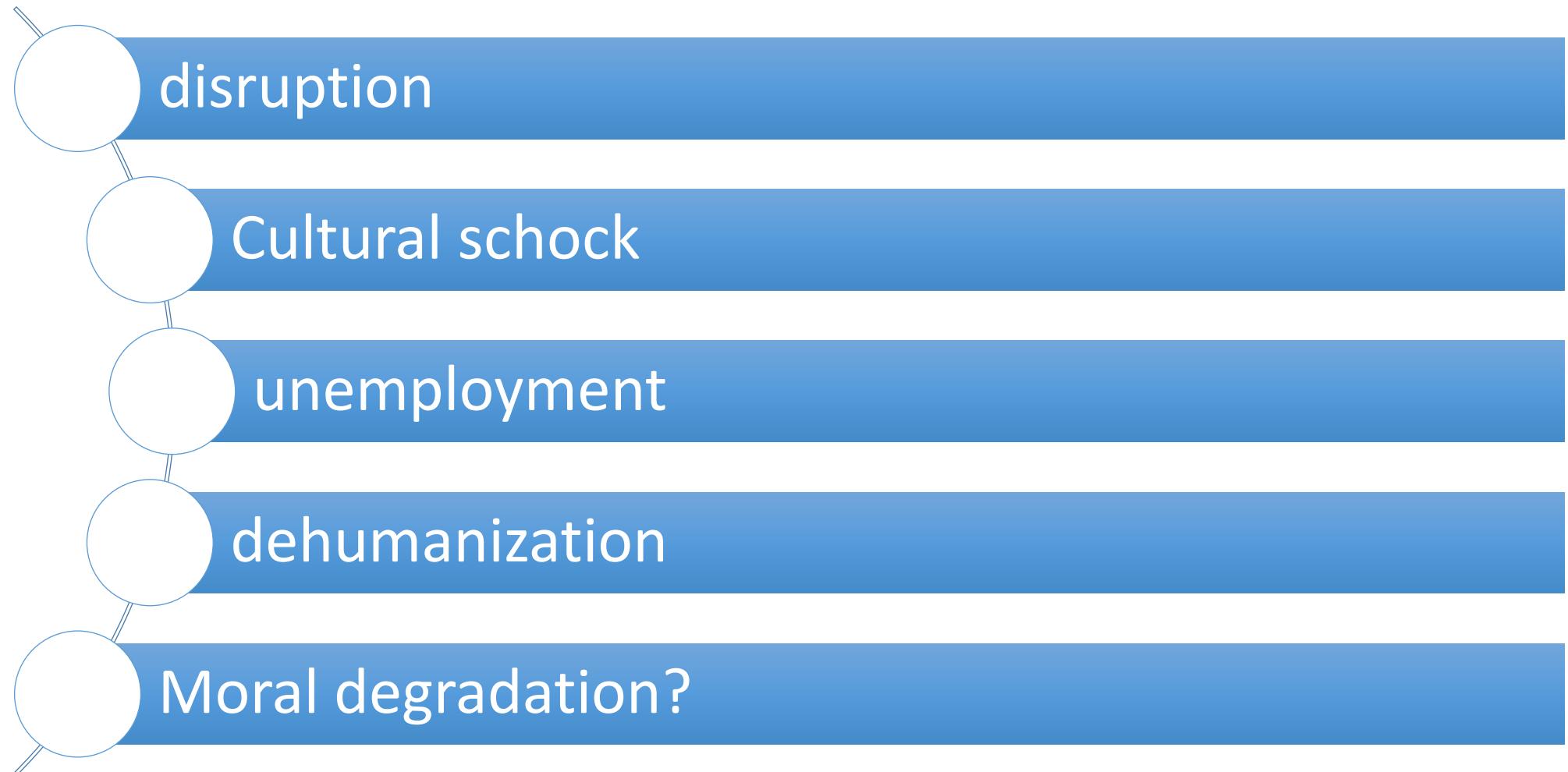
Genetic Editing

E-learning

Positive impact of IR 4.0



Negative impact of IR 4.0



MOOCs

MASSIVE ONLINE OPEN COURSE

CURRICULUM

MODULE

PLATFORM



Isue-Isue tentang SDM

Making

Indonesia
4.0

(WEF, 2017)

36/137
DAYA SAING
INDONESIA

Singapura ke-3
Malaysia ke-23
Thailand ke-32
Vietnam ke-55

(WIPO, 2017)

87/127
DAYA SAING
INOVASI
INDONESIA

(WEF, 2017)

80/137
INDONESIA
TRL
TECHNOLOGICAL
READINESS

8,8%
PENGANGGURAN

Total Pengangguran dari
±128 juta. (BPS, 2017)

1. menjadi 10 besar negara dengan ekonomi terkuat di dunia pada 2030
2. menciptakan 10 juta lapangan kerja baru di 2030

Presiden RI, 4 April 2018



GLOBAL
COMPETITIVENESS
INDEX

36

FROM 37 COUNTRIES

WORLD ECONOMIC
FORUM 2017-2018

COMPETITIVE HUMAN RESOURCES



COMPETENCES HUMANITIES
MINDSET AND TALENT



- CRITICAL THINKING
- CREATIVITY
- COMMUNICATION
- COLLABORATION



DOMAIN KNOWLEDGE
AREA OF SPECIALISATION
EXPERTISE

- CURIOSITY
- INITIATIVE
- PERSISTENCE
- EMPATHY
- ADAPTABILITY

CORE LITERACIES:
READING & WRITING, NUMERACY, SCIENTIFIC
LITERACY, ICT FLUENCY (TECHNOLOGY SKILLS),
LANGUAGE SKILLS, CIVIC & CULTURAL AWARENESS,
LOGICAL THINKING (LIBERAL ARTS)

Kecakapan Abad ke- 21 dan Revolusi Industri 4.0



The Twenty First Century Skills

Information and communication skills:

- (a) information and media literacy
- (b) visual literacy
- (c) communication skills

(Partnership for 21st Century)

The Twenty First Century Skills

Thinking, reasoning and innovation skills:

- (a) critical thinking
- (b) systems thinking
- (c) problem solving
- (d) creating and innovating;

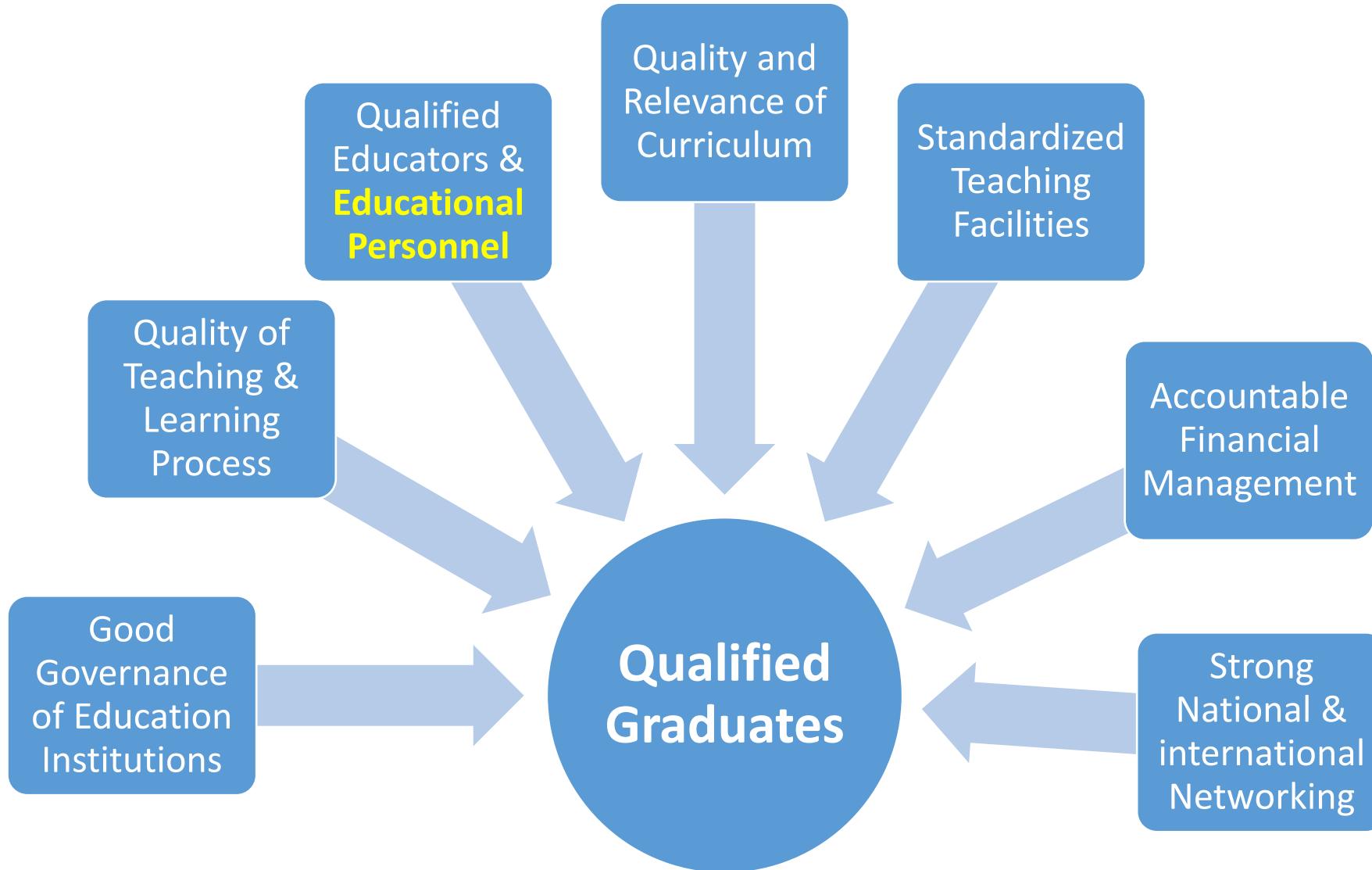
(Partnership for 21st Century)

The Twenty First Century Skills

Personal and works place productivity skills:

- a) interpersonal and collaboration skills,
- b) initiative and self-direction
- c) flexibility and adaptability
- d) ethical behavior
- e) social/personal and cross-cultural skills,
- f) project planning and development
- g) productivity and accountability.

(Partnership for 21st Century)



TENDIK RI 4.0

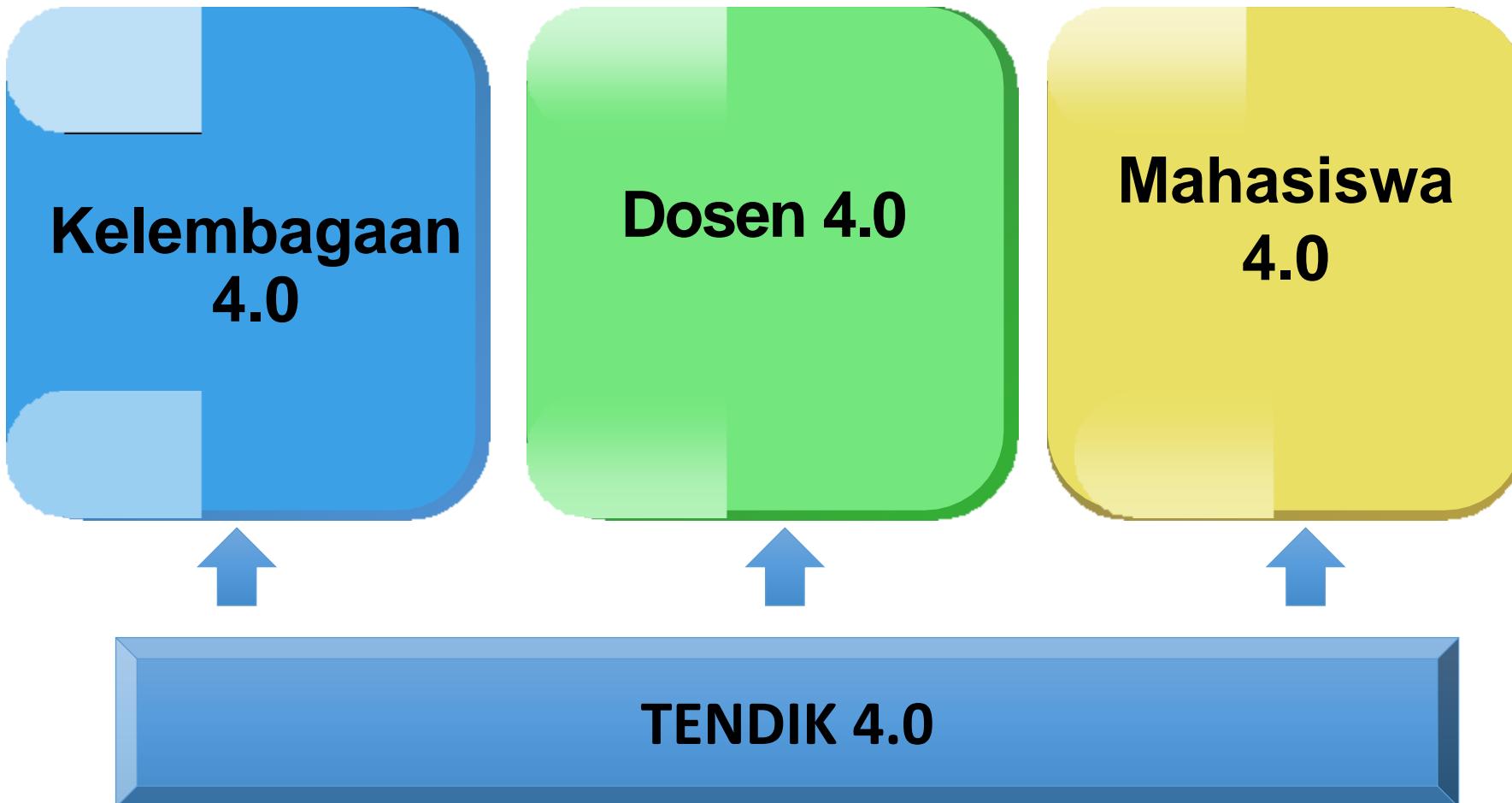
SOFT SKILLS:

- CRITICAL THINKING
- CREATIVE
- COMMUNICATION
- COLLABORATION

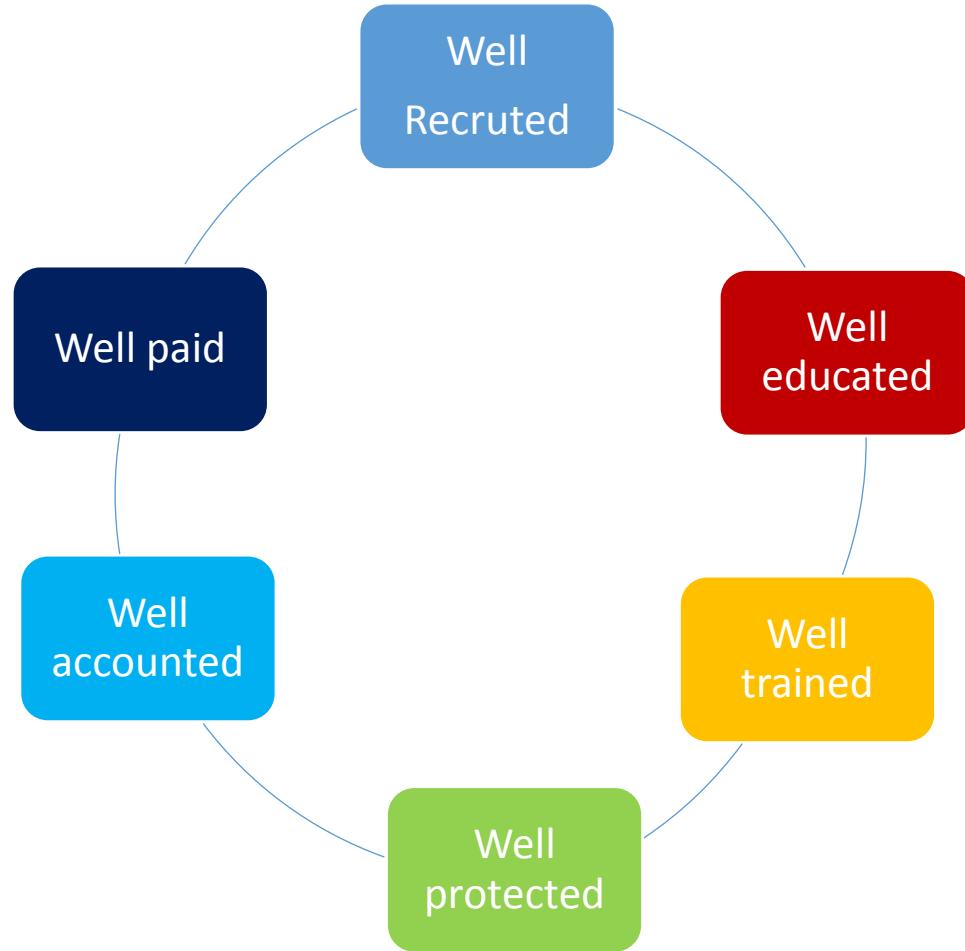
KOMPETENSI INTI
KEILMUAN
(CORE COMPETENCIES)
YANG KUAT

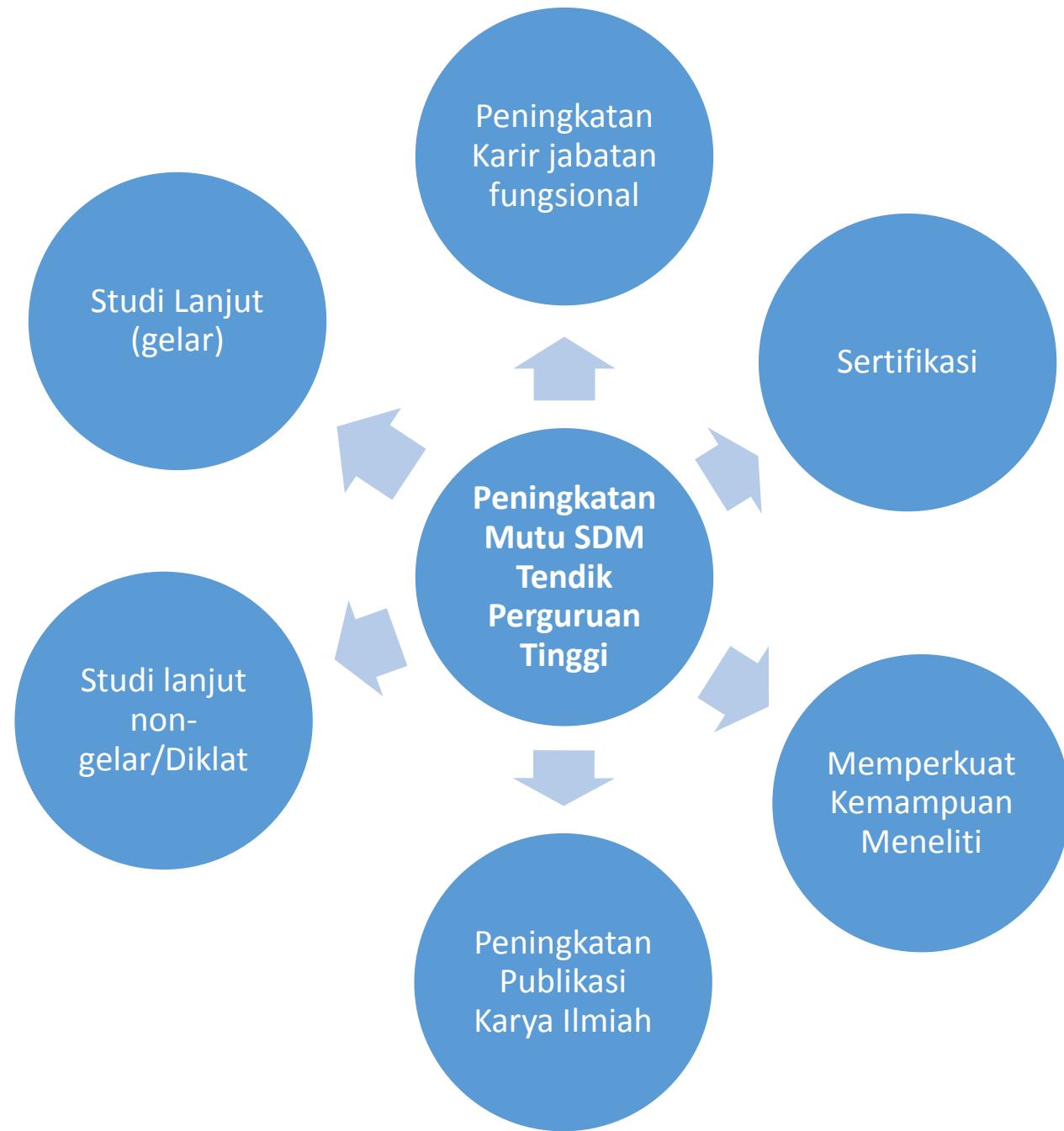
- EDUCATIONAL COMPETENCE
- COMPETENCE IN RESEARCH
- COMPETENCE FOR DIGITAL BUSINESS
- COMPETENCE IN GLOBALIZATION
- COMPETENCE IN FUTURE STRATEGIES

PERAN TENAGA KEPENDIDIKAN (TENDIK)



TENDIK YANG BAIK





PROGRAM-PROGRAM UNTUK PENINGKATAN KUALIFIKASI DAN KOMPETENSI TENDIK DI PERGURUAN TINGGI

BEASISWA

BIMTEK/DIKLAT

MAGANG

**REGISTRASI
(NITK)**

PAK ONLINE

DANA RISET

**SHORT-COURSE/NON-
DEGREE TRAINING KE
LNU**

PUBLIKASI

SERTIFIKASI

Pengembangan SIMTENDIK

SIMTENDIK (SISTEM INFORMASI TENAGA KEPENDIDIKAN) → laman :
sdm.pddikti.ristekdikti.go.id

23 jenis tendik yang memiliki Jabatan Fungsional Tertentu (JFT) Permenristekdikti No. 49 Tahun 2015 → Agar diusulkan memperoleh NITK



REGISTRASI TENDIK (NITK)



DATA TENDIK

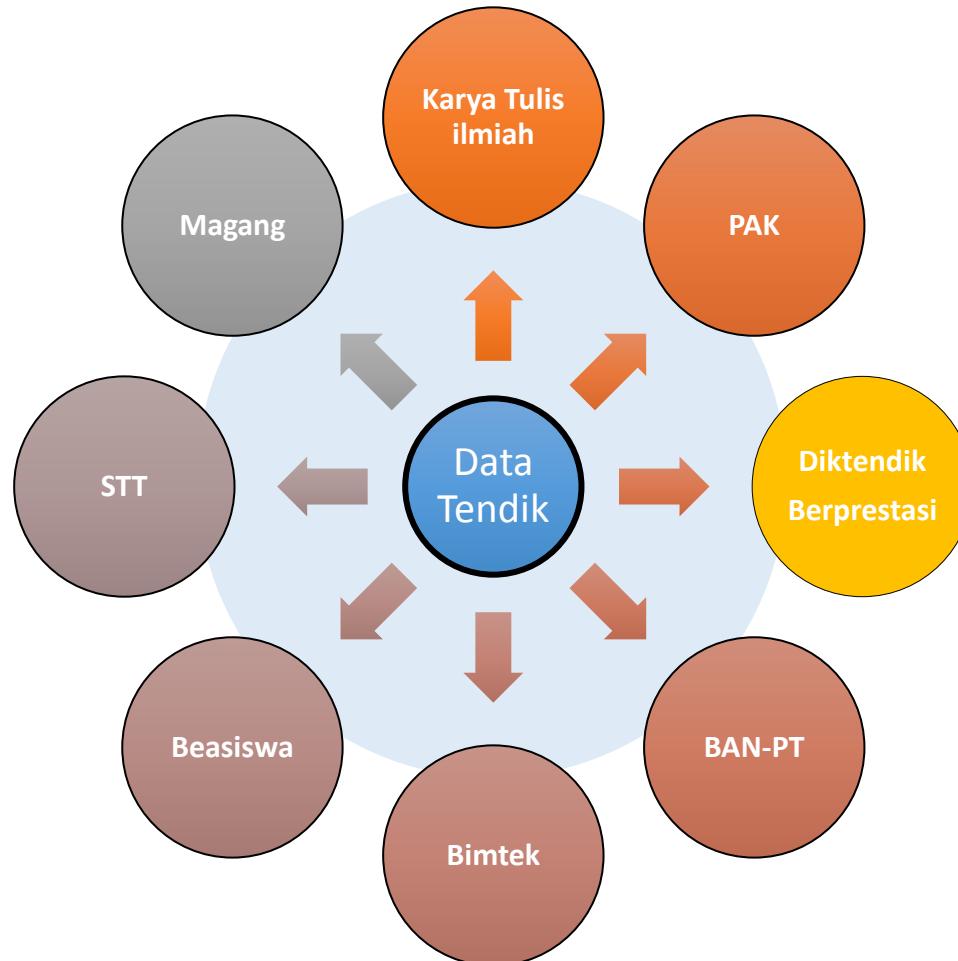
Perbaikan Data Tendik melalui laman :
sister.ristekdikti.go.id

TENDIK YANG MEMILIKI JABATAN FUNGSIONAL TERTENTU (JFT)

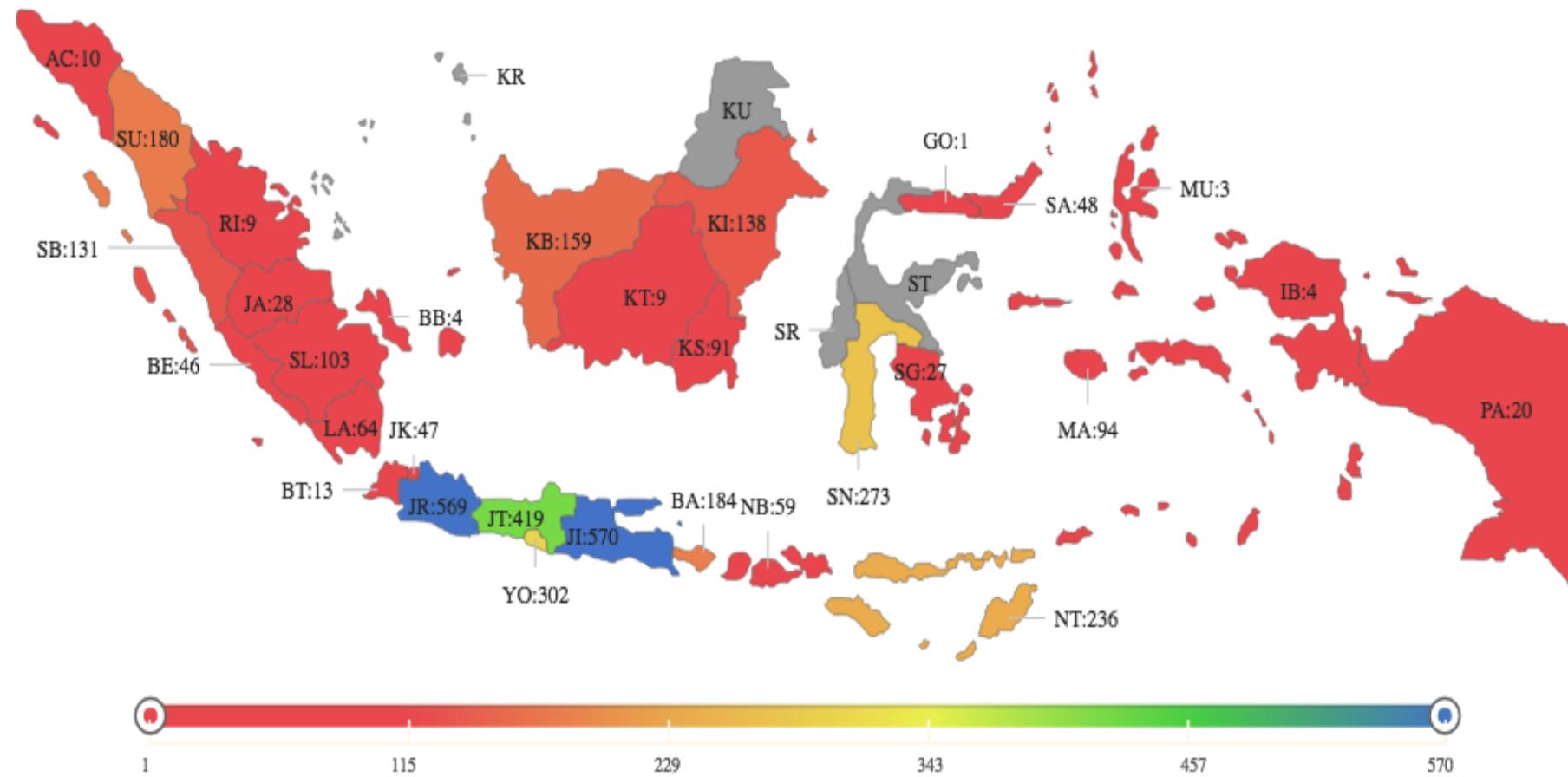
Permenristekdikti No. 49 Tahun 2015

NO.	JFT TENDIK
1	Arsiparis
2	Analisis Kebijakan
3	Analisis Kepegawaian
4	Auditor Kepegawaian
5	Bidan
6	Dokter Gigi
7	Dokter
8	Pengelola Pengadaan Barang/Jasa
9	Pengembang Teknologi Pembelajaran
10	Penyuluhan Kesehatan Masyarakat
11	Perancang Peraturan Perundang-undangan
12	Perawat Gigi
13	Perawat
14	Perencana
15	Pranata Humas
16	Pranata Komputer
17	Pranata Labkes
18	Pranata Laboratorium Pendidikan
19	Radiografer
20	Widyaiswara
21	Pustakawan
22	Pengelola Poliklinik
23	Pranata Fotografi

Pemanfaatan Data Tendik

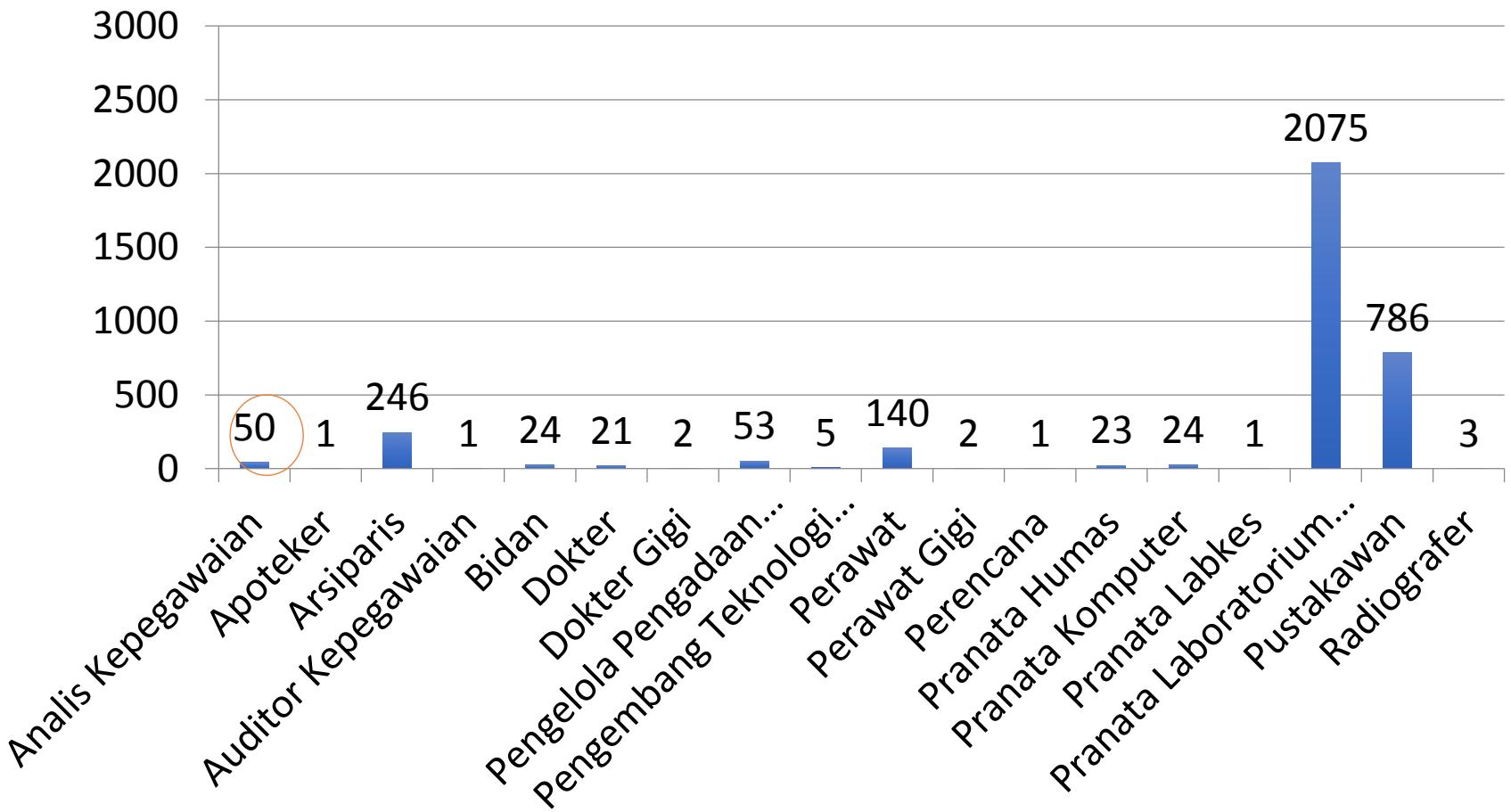


SEBARAN JABFUNG TENDIK PER PROVINSI



TENDIK YG SUDAH MEMILIKI NITK

TOTAL TENDIK : 4077



TERIMA KASIH



KEMENTERIAN RISET, TEKNOLOGI, DAN
PENDIDIKAN TINGGI