

SIAPKAH KITA MENGHADAPI INDUSTRI 4.0 ?

Sofyan Djalil Ph.D

INDONESIA HERITAGE FOUNDATION



ERA INDUSTRI 4.0 → 70% - 80% Jenis Pekerjaan Diprediksi Hilang Dalam Waktu 20 Tahun Ke Depan

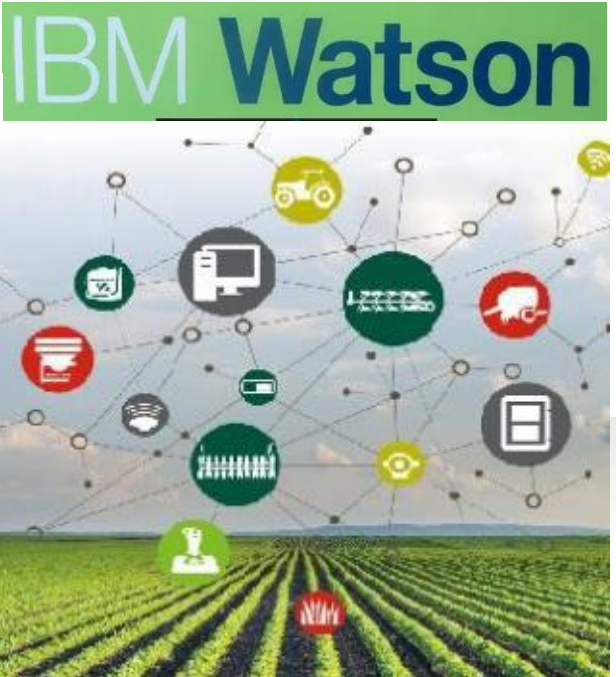
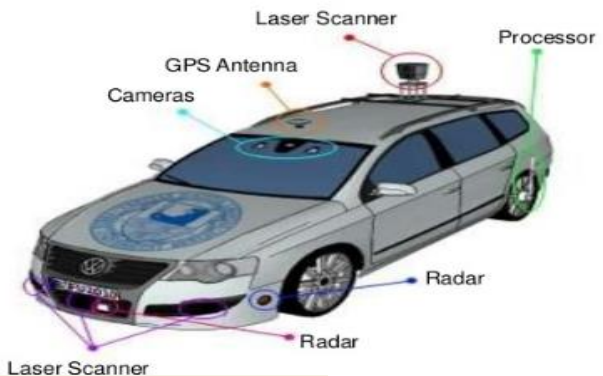
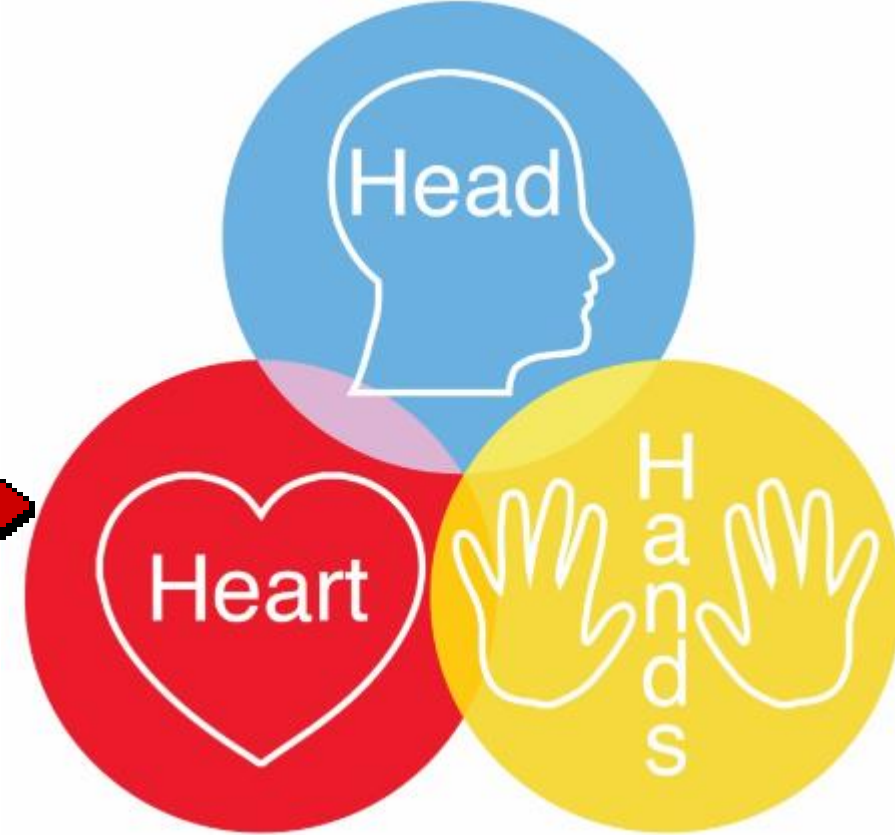


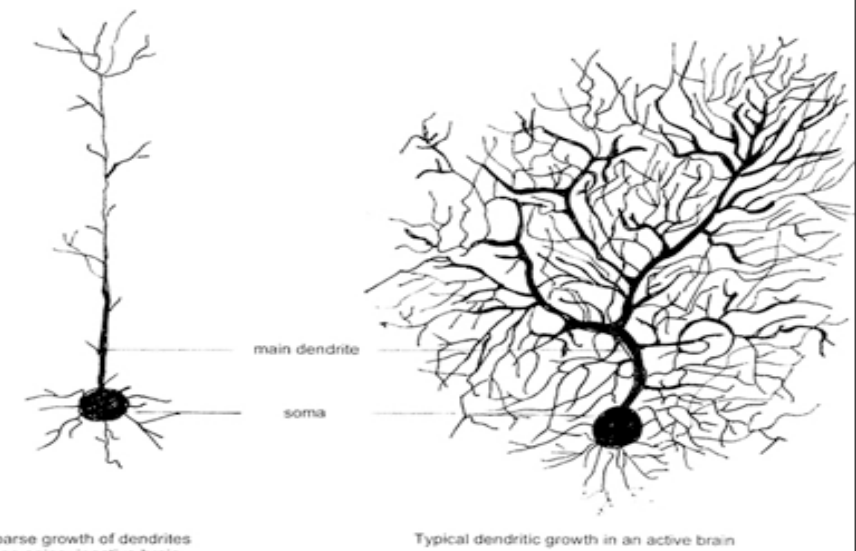
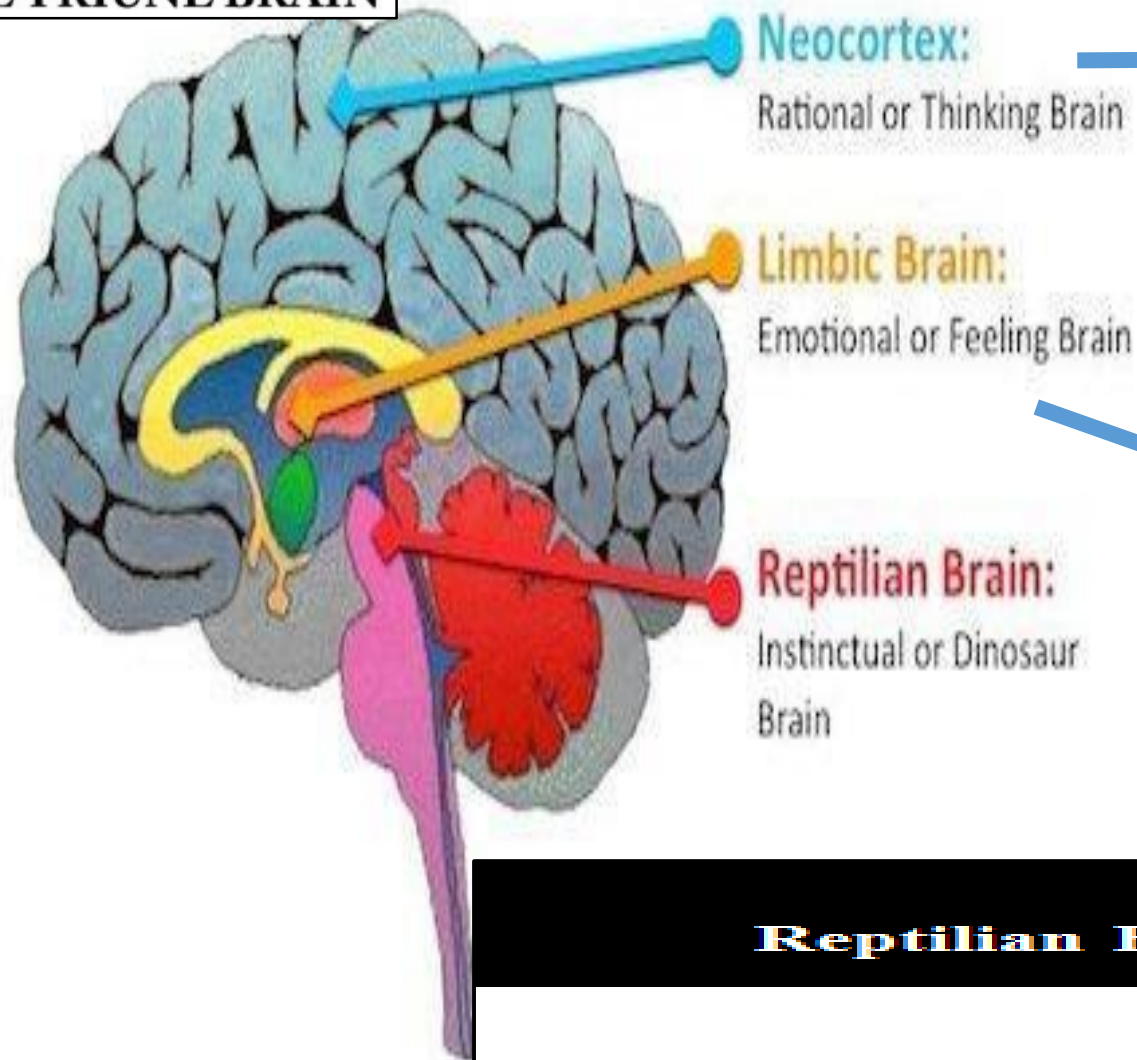
Diagram of Self-Driving car





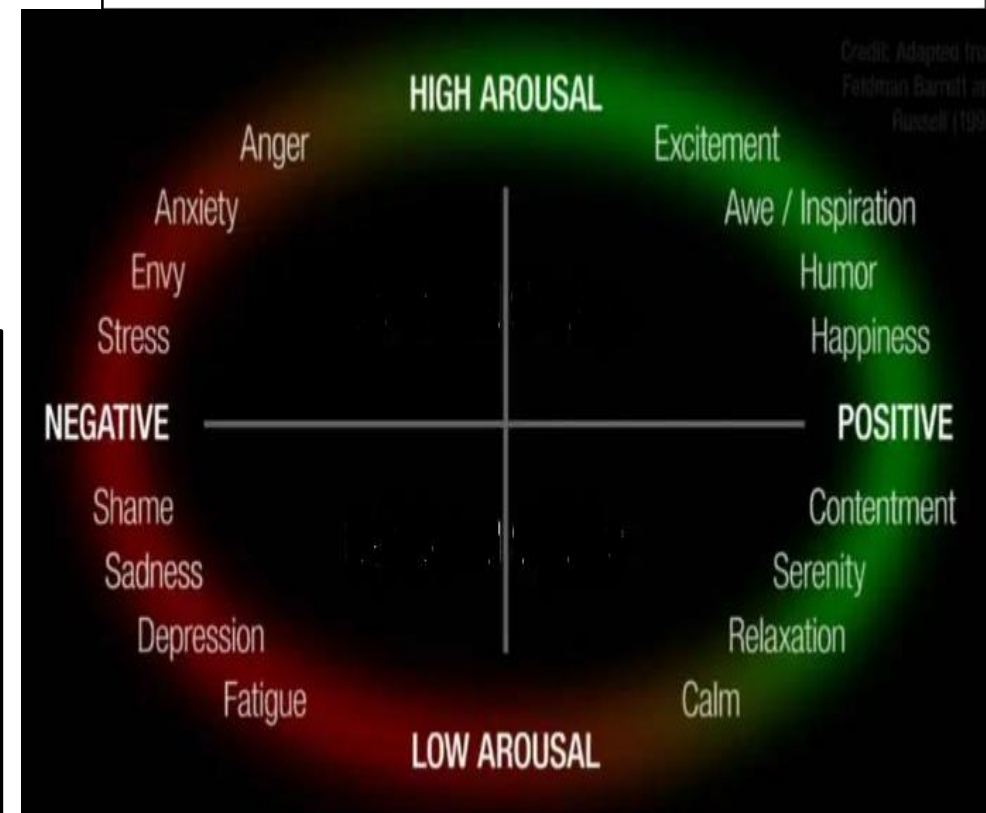
OPTIMALKAN HOT
-HATI – JIWA/NAFSU
-OTAK – AKAL/PIKIRAN
-TANGAN – FISIK/AKSI

THE TRIUNE BRAIN



Reptilian Brain

- **Aggression**
- **Dominance**
- **Territory**
- **Ritual**



OTAK AKAL (NEO-CORTEX)

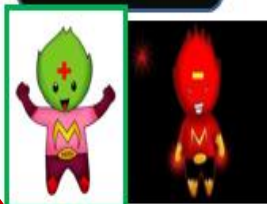
Pusat Berpikir/
Neokorteks



KAPTEN
NEO

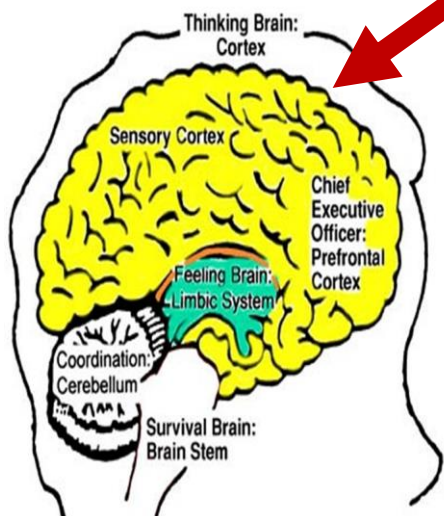
OTAK EMOSI (LIMBIC BRAIN)

MOSI

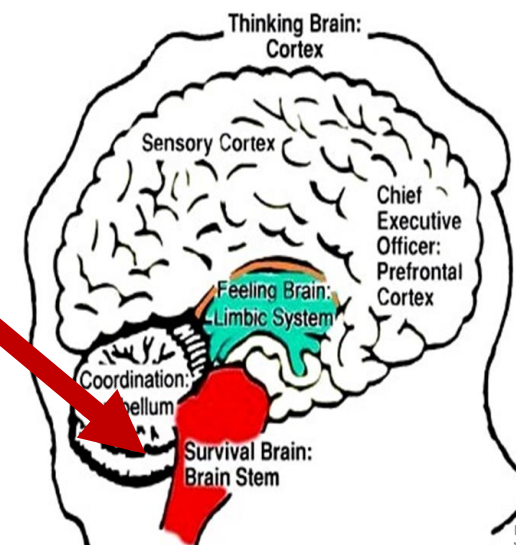


OTAK REPTIL (REPTILIAN BRAIN)

Si Reptil



**Faktor Emosi
Menentukan**





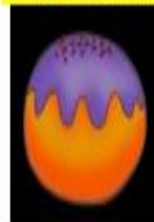
Mosi Positif



SEROTONIN



ENDORPHINS

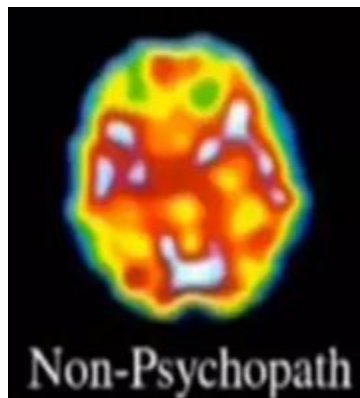


DOPAMINE



✓ KAPTEN NEO AKAN KUAT

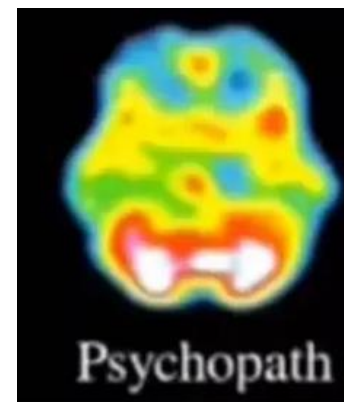
TONIC FOR THE BRAIN
CAPTAIN NEO IS IN CONTROL



Mosi Negatif



TOXIC FOR THE BRAIN
REPTILE IS IN CONTROL





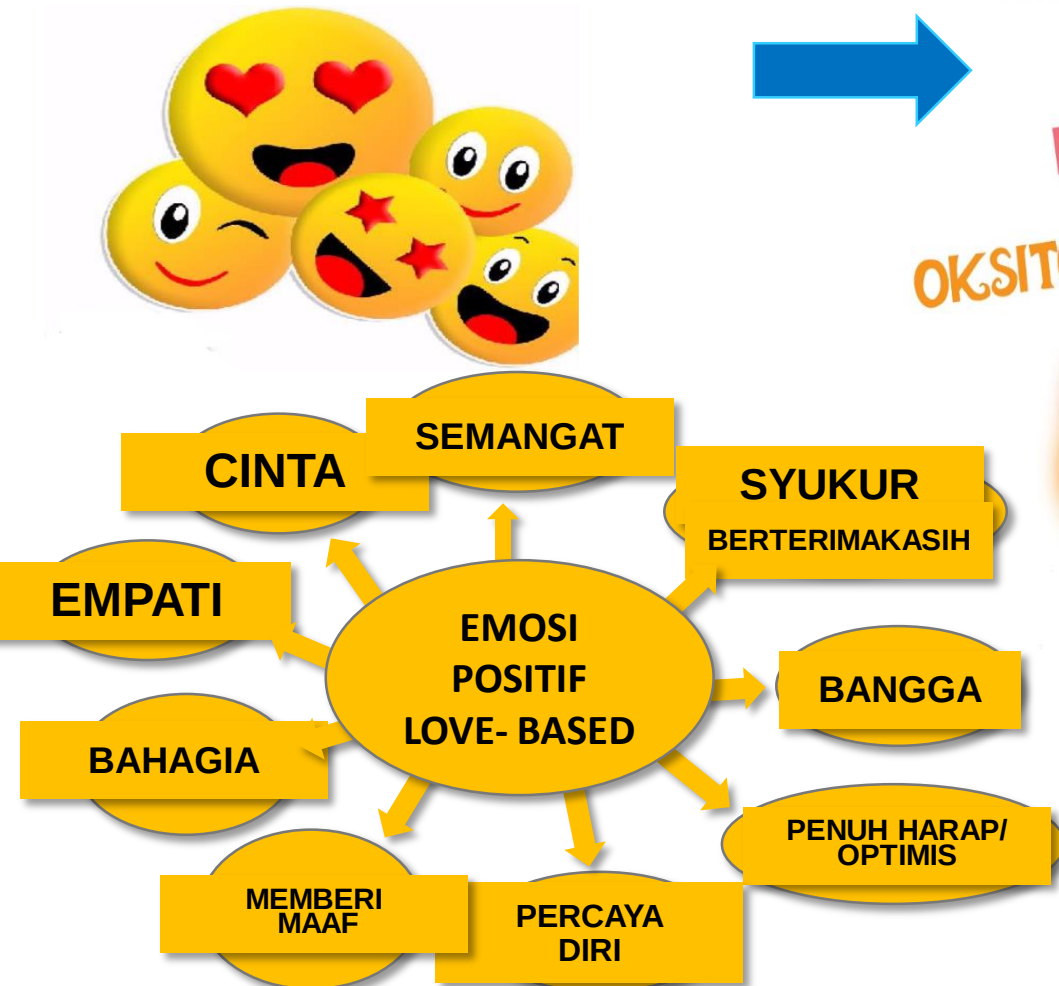
EMOSI POSITIF

EMOSI POSITIF SEBAGAI “MAGIC BULLET” PEMBANGUNAN KUALITAS SDM

HORMON CINTA

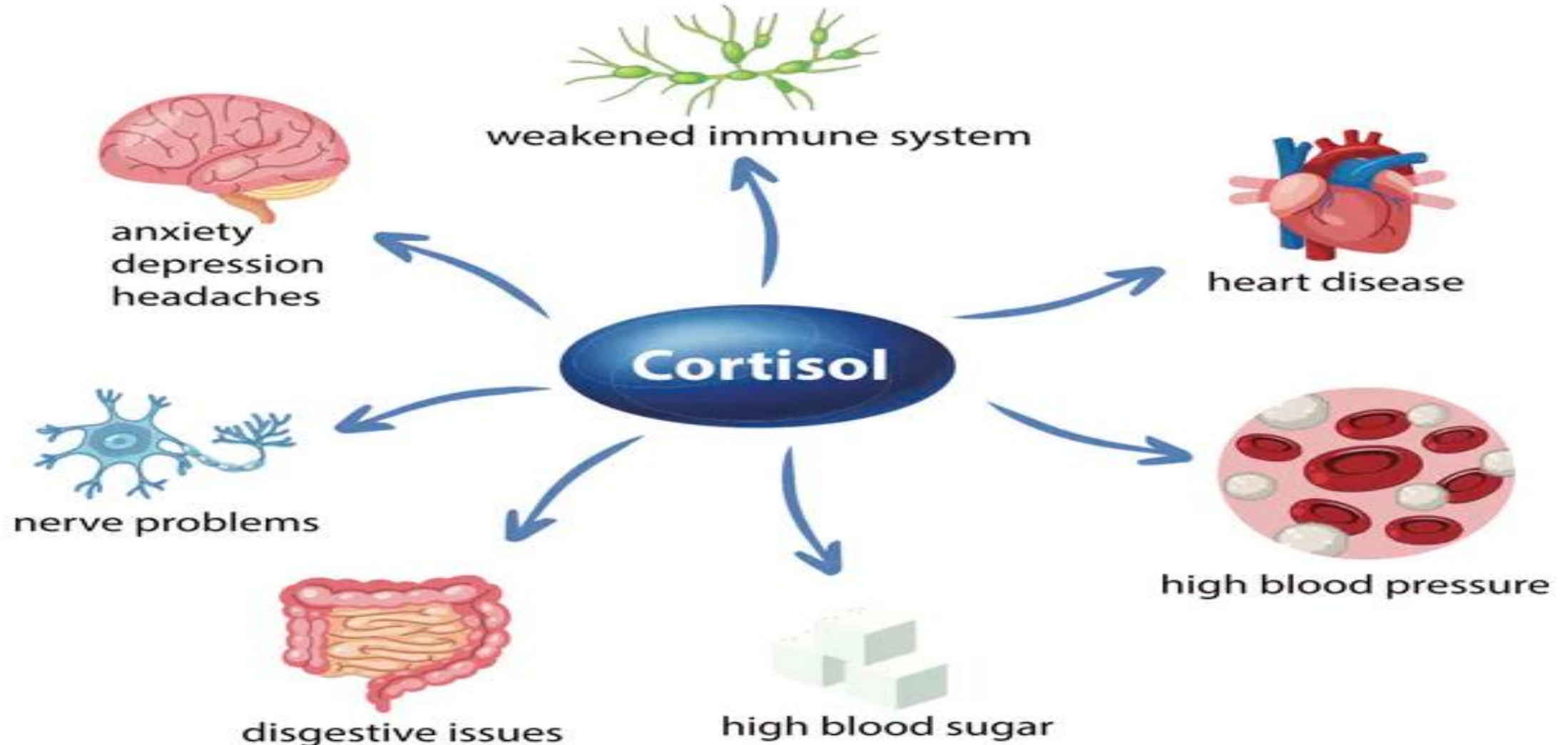
ENDORFIN
DOPAMIN
OKSITOSIN
SEROTONIN

KESEHATAN FISIK
KESEHATAN OTAK
KESEHATAN JIWA



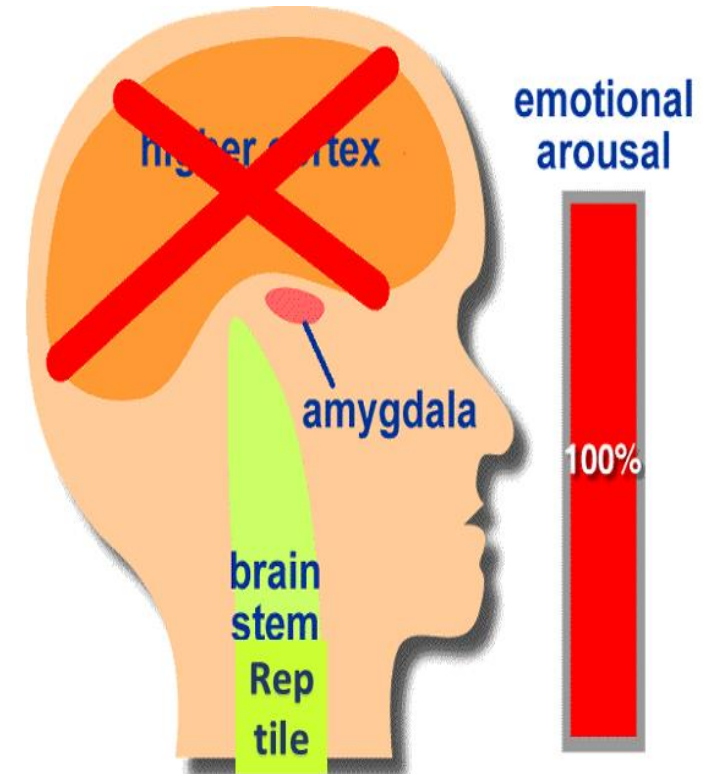
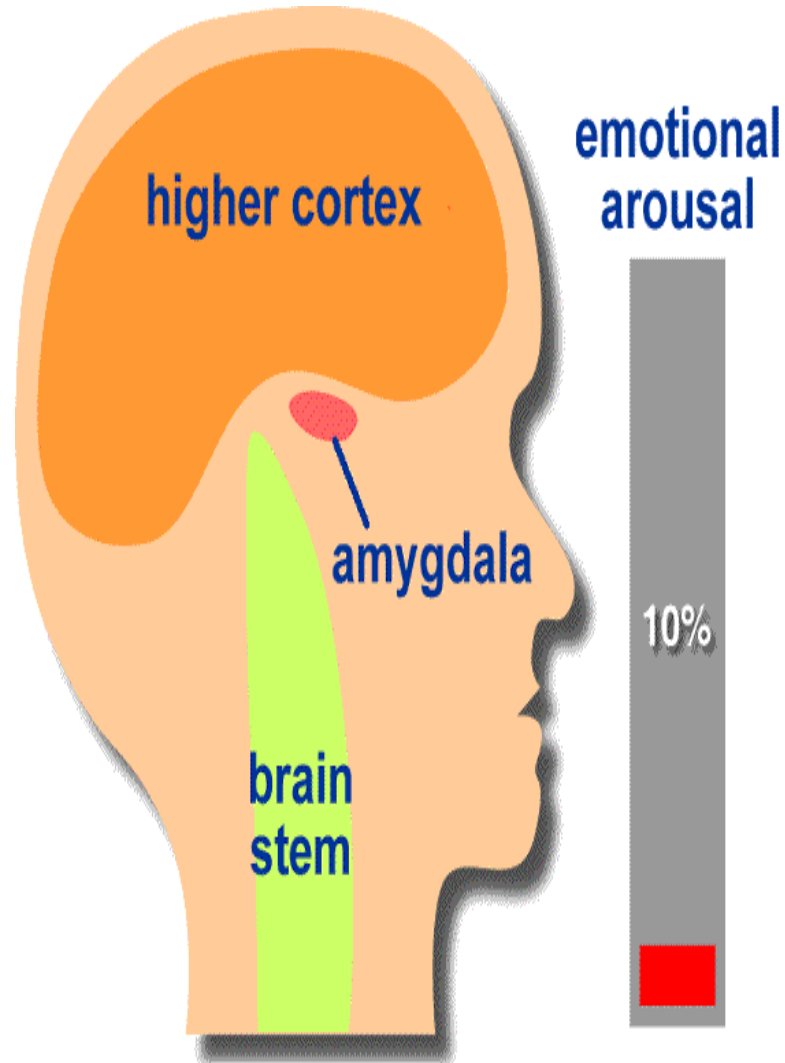
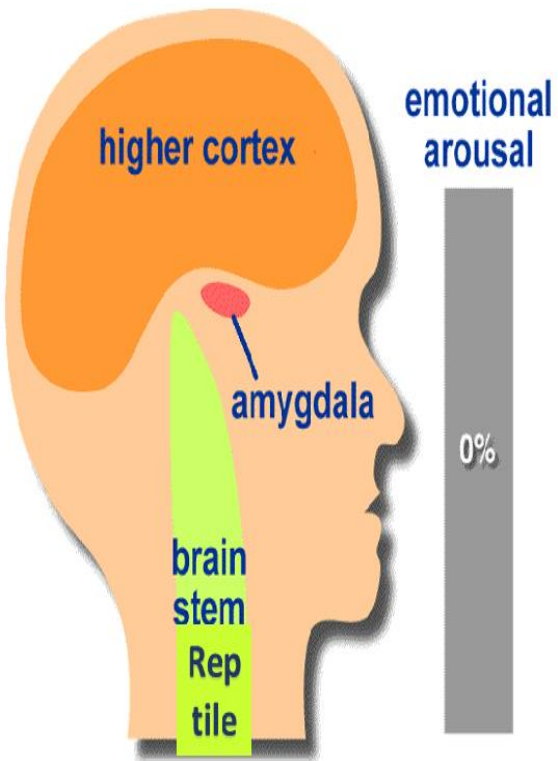
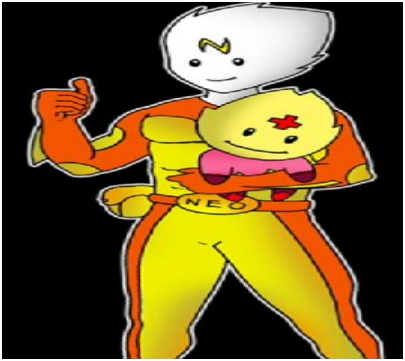
EMOSI NEGATIF/STRESS BERBAHAYA BAGI METABOLISME DAN ORGAN TUBUH

–95% PENYAKIT TERKAIT DENGAN EMOSI NEGATIF

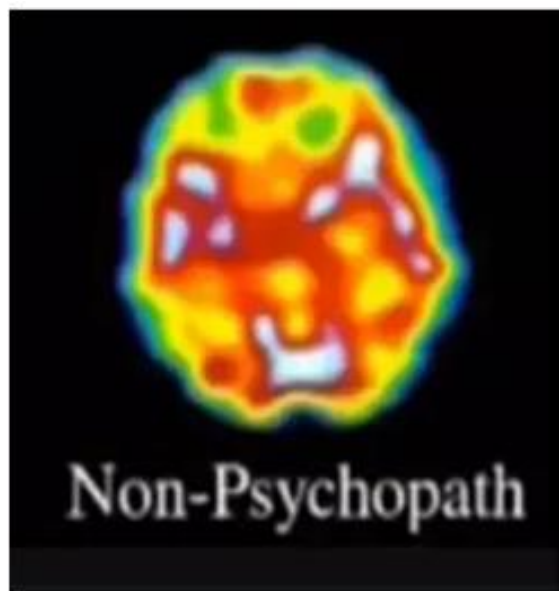


Too much of the stress hormone, cortisol, causes damage throughout the body. [brgfx/Shutterstock.com](https://www.brightfocus.org/shutterstock.com)

KEADAAN EMOSI MEMPENGARUHI KERJA OTAK



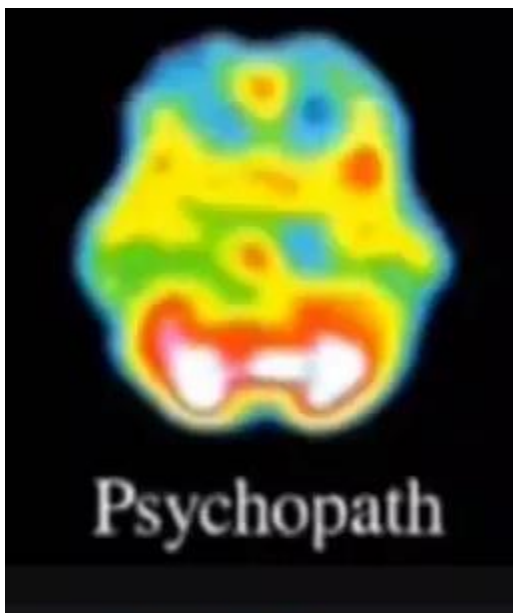
KESEHATAN JIWA : FAKTOR EMOSI SANGAT BERPENGARUH TERHADAP KESEHATAN OTAK → MEMPENGARUHI PIKIRAN DAN PERILAKU (AKHLAK MULIA)



Otak Non-Psikopat

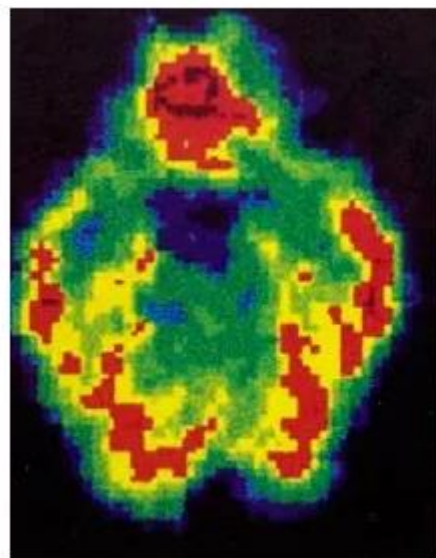


EMOSI POSITIF



Otak Psikopat

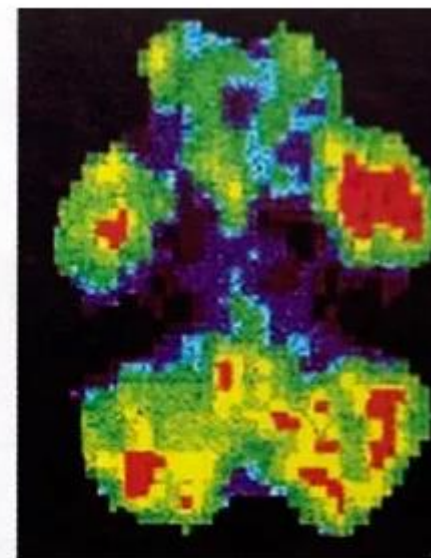
EMOSI NEGATIF



Otak Normal



EMOSI POSITIF



Otak Pembunuh

EMOSI NEGATIF



Kutiupkan Ruh-Ku kepadanya (Ash Shaaf: 72)

Ruh atau Nur Ilahi Rabbi Ada Dalam Diri Setiap Manusia

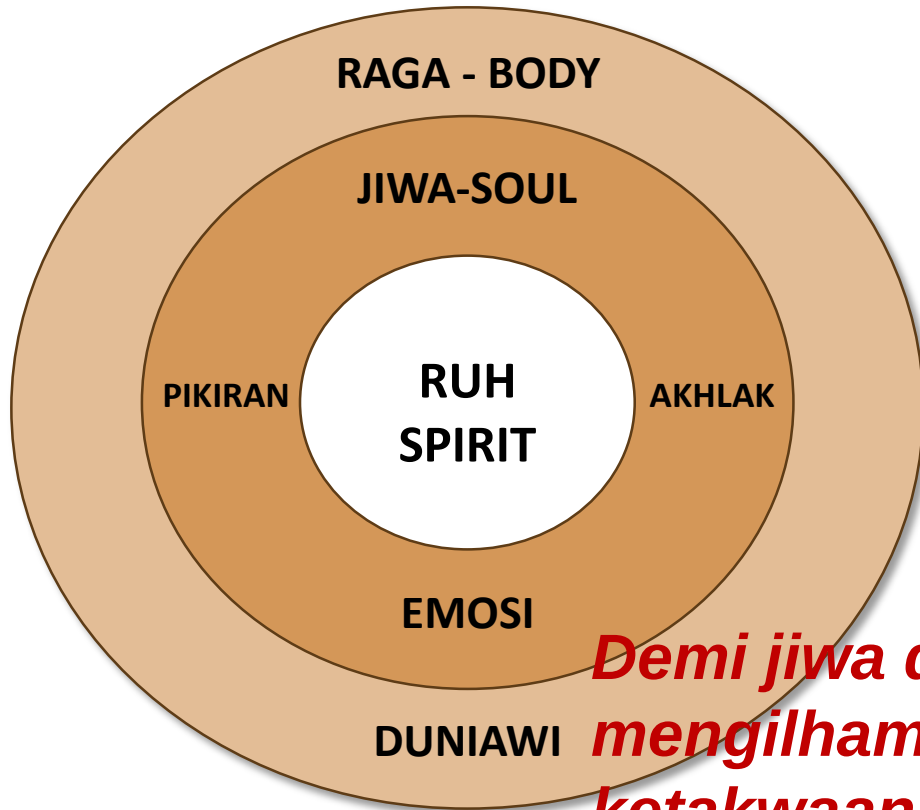


Allah membimbing kepada cahaya-Nya siapa yang Dia kehendaki...(An-Nuur:35)

“Hai nafsu (jiwa) yang tenang, kembalilah kepada TuhanMu dengan hati yang puas lagi diridhaiNya. Masuklah ke dalam golongan hamba-hambaKu, dan masuklah ke dalam surgaKu” (Al Fajr: 27-30)

Antara Allah SWT dan Ciptaan-Nya ada 70,000 Hijab

(Hadits Qudsi -Ibn al-Jawzi, Mawdu'at)



Demi jiwa dan penyempurnaan (ciptaannya), maka Allah mengilhamkan kepada jiwa itu (jalan) kefasikan dan ketakwaannya, sesungguhnya beruntunglah orang yang menyucikan jiwa itu, dan sesungguhnya merugilah orang yang mengotorinya. (Q. S. al-Syams [91]: 7-10).

FAKTOR EMOSI SEBAGAI PENENTU KESEHATAN JIWA, NURANI DAN EMPATI, SERTA PERILAKU (Karen Horney)

Perilaku Negatif
sombong; egois, merasa paling benar; pembohong, tanpa empati, manipulatif, mendominasi, menghindar/lari, perilaku gerombolan, agresif, kriminal, dll

POLA ASUH NEGATIF MENUMPULKAN NURANI DAN EMPATI



**Nurani dan empati
tidak berkembang**

Neurosis

**Kurang Motivasi/Apatis,
Khawatir, Takut, Terancam, Rasa
Dipermalukan, Minder, Stres**

Emosi Negatif

SUASANA SEKOLAH YANG MENUMPULKAN
NURANI DAN EMPATI

Lembar Kerja



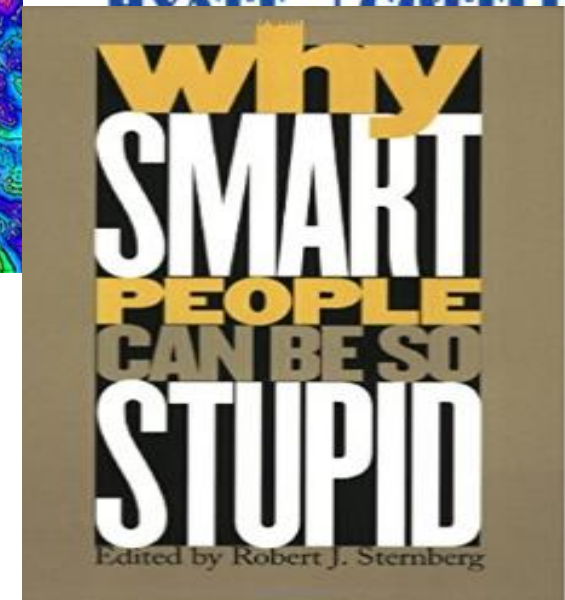
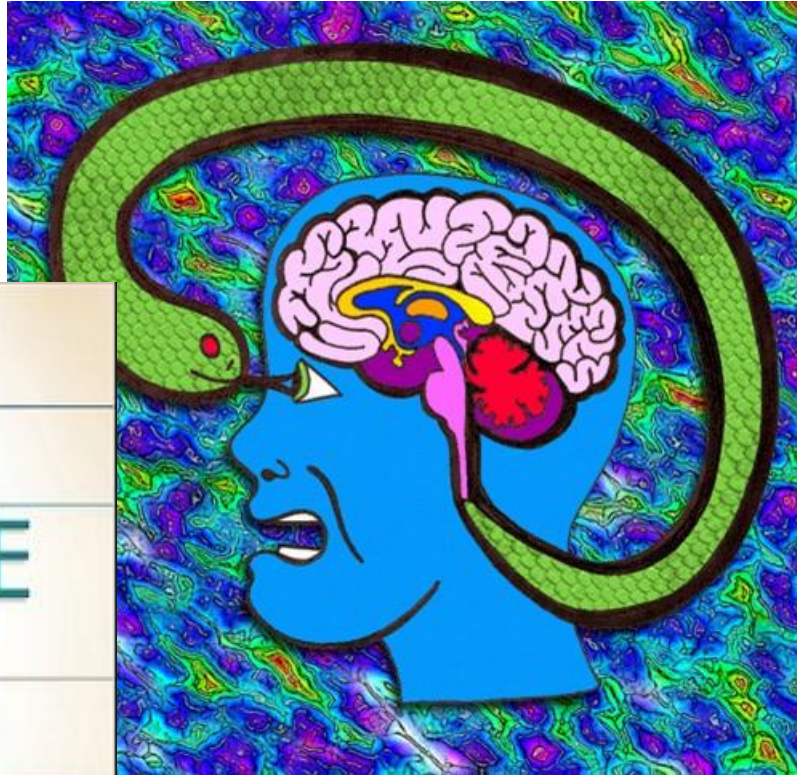
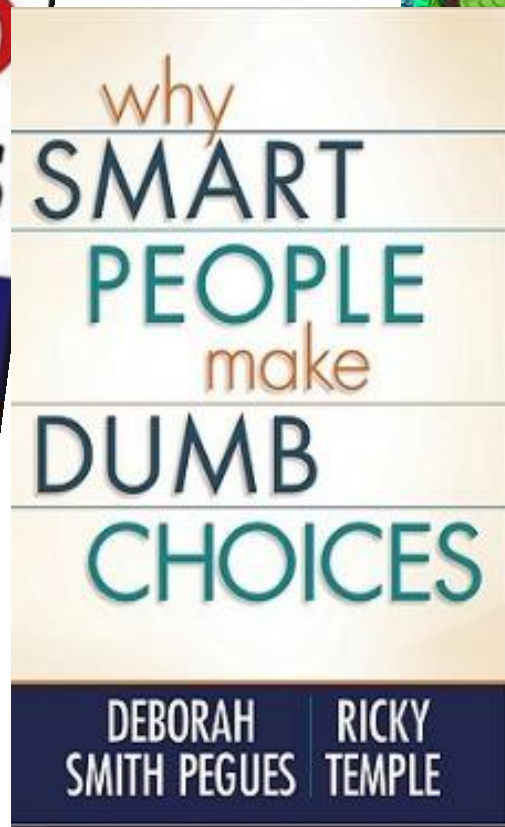
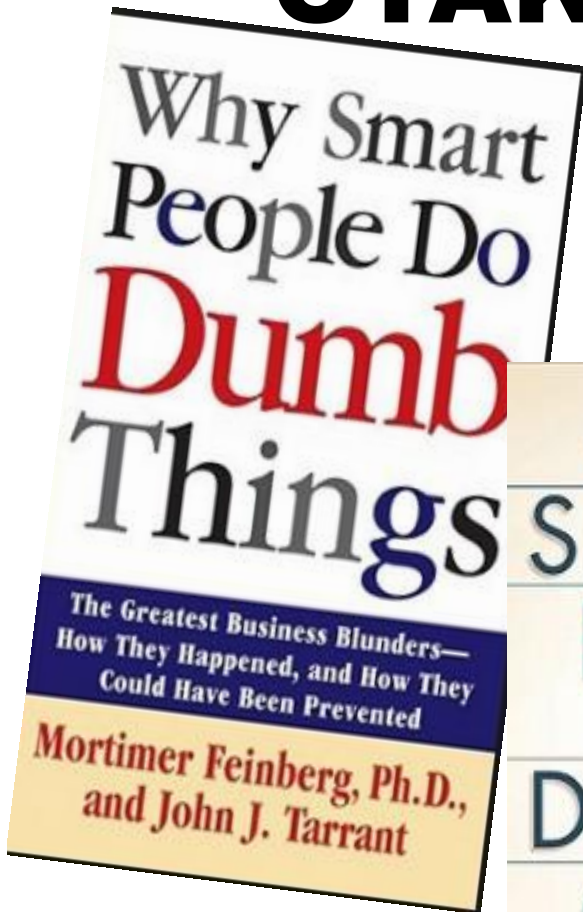
EMOSI NEGATIF SUDAH MENJADI BAGIAN HIDUP SEBAGIAN BESAR ANAK INDONESIA

Menanamkan
Emosi Negatif

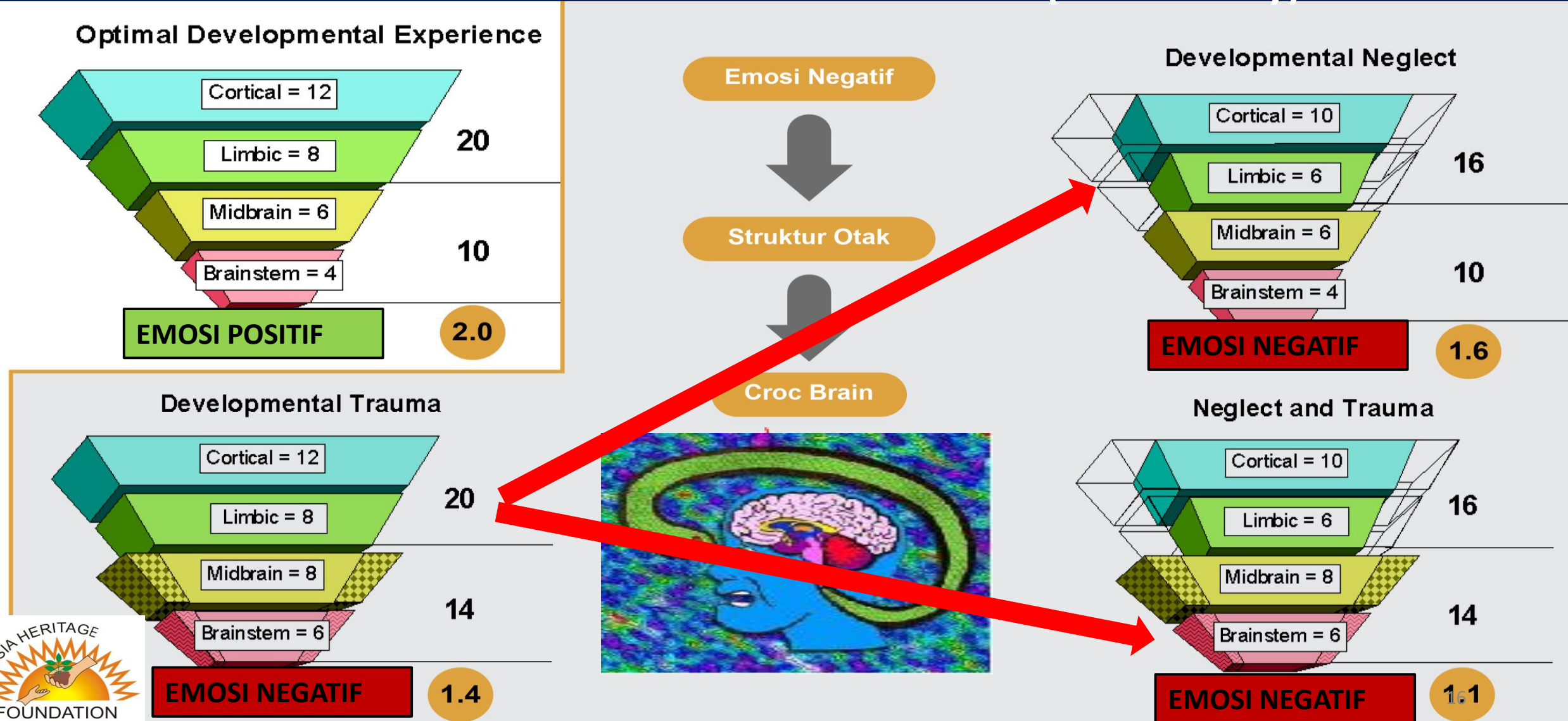


- 93% anak-anak pernah mengalami tindak kekerasan baik **di rumah maupun di sekolah** (Save the Children, Survey di 10 Propinsi)
- Mayoritas (82 persen) remaja beranggapan bahwa orang tua otoriter, 50 persen mengaku pernah mendapatkan hukuman fisik, dan 39 persen mengatakan orang tua pamarah (Survey FEKMI, 2003)
- Sistem pendidikan banyak membuat stress
- Sistem ranking dan nilai yang mengaktifkan otak reptil

EMOSI NEGATIF → REPTIL MENYANDERA OTAK RASIONAL (NEO-KORTEKS)

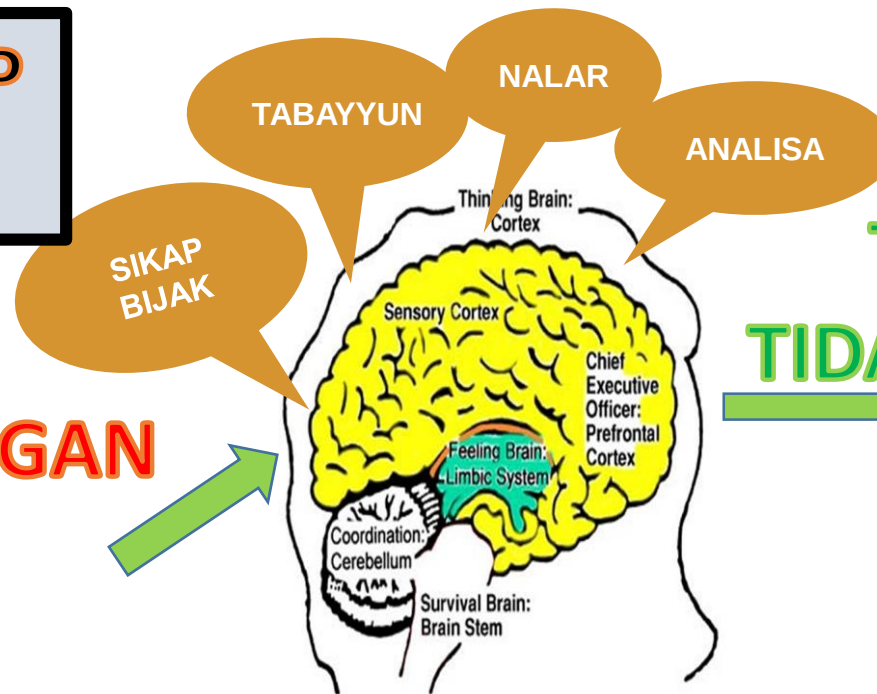


EMOSI NEGATIF BERPERAN TERBENTUKNYA OTAK REPTIL AKIBAT PENGARUH POLA ASUH DAN POLA DIDIK PADA TERBENTUKNYA STRUKTUR OTAK (Bruce Perry)



**REAKSI TERHADAP
INFORMASI**

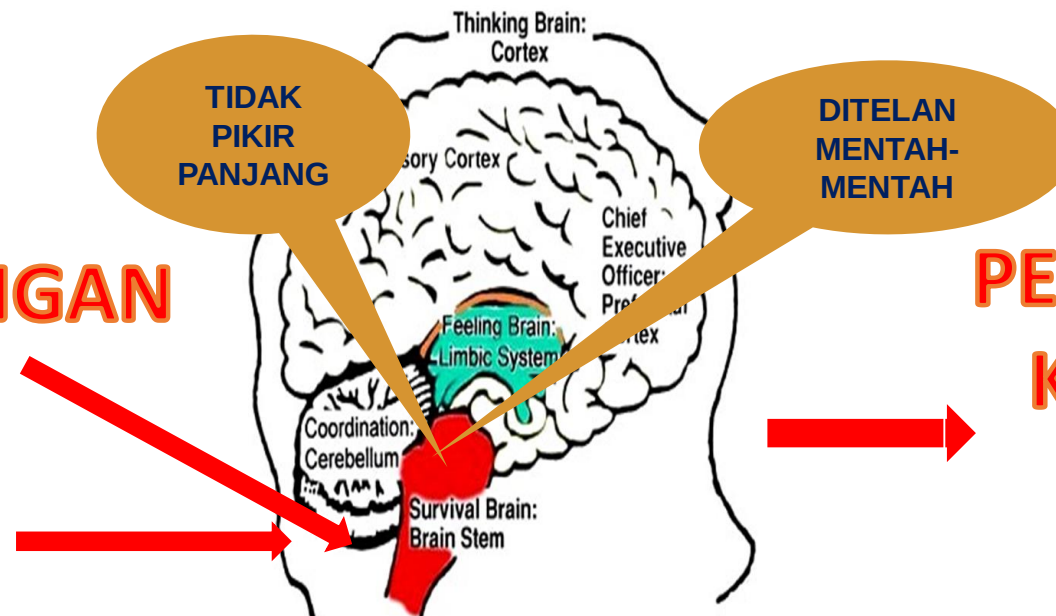
**HOAX - KEBOHONGAN
FITNAH**



**TETAP TENANG
TIDAK TERPROVOKASI
SABAR**



**HOAX - KEBOHONGAN
FITNAH**



**PERMUSUHAN
KEBENCIAN
LICIK
KONFLIK**



The Neuroscience of Hate Speech

Humans are social creatures who are easily influenced by the anger and rage that are everywhere these days.



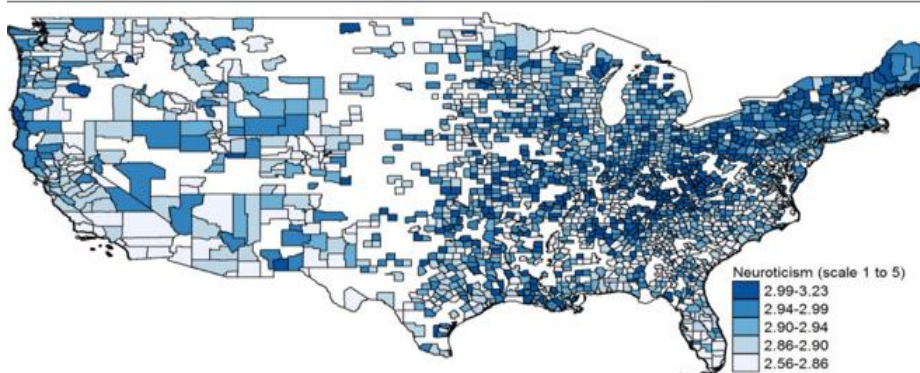
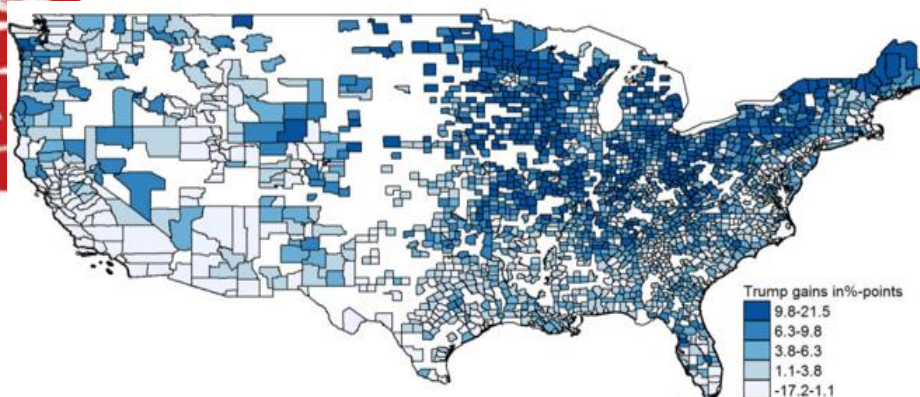
By **Richard A. Friedman**
Dr. Friedman is a psychiatrist.

The New York Times

Fear, Populism, and the Geopolitical Landscape: The “Sleeper Effect” of Neurotic Personality Traits on Regional Voting Behavior in the 2016 Brexit and Trump Elections

Martin Obschonka¹, Michael Stuetzer^{2,3}, Peter J. Rentfrow⁴, Neil Lee⁵, Jeff Potter⁶, and Samuel D. Gosling^{7,8}

Social Psychological and
Personality Science
2018, Vol. 9(3) 285-298
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DOI: 10.1177/1948550618755874
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SAGE



Trump shares and the neurotic traits were also moderate in size (neuroticism: r -sq .37, $p < .05$; anxiety: r -sq .38, $p < .05$; depression: r -sq .22, $p < .05$), whereas the correlations between Trump gains and the neurotic traits were slightly larger (neuroticism: r -sq .44, $p < .05$; anxiety: r sq .45, $p < .05$; depression: r -sq .29, p

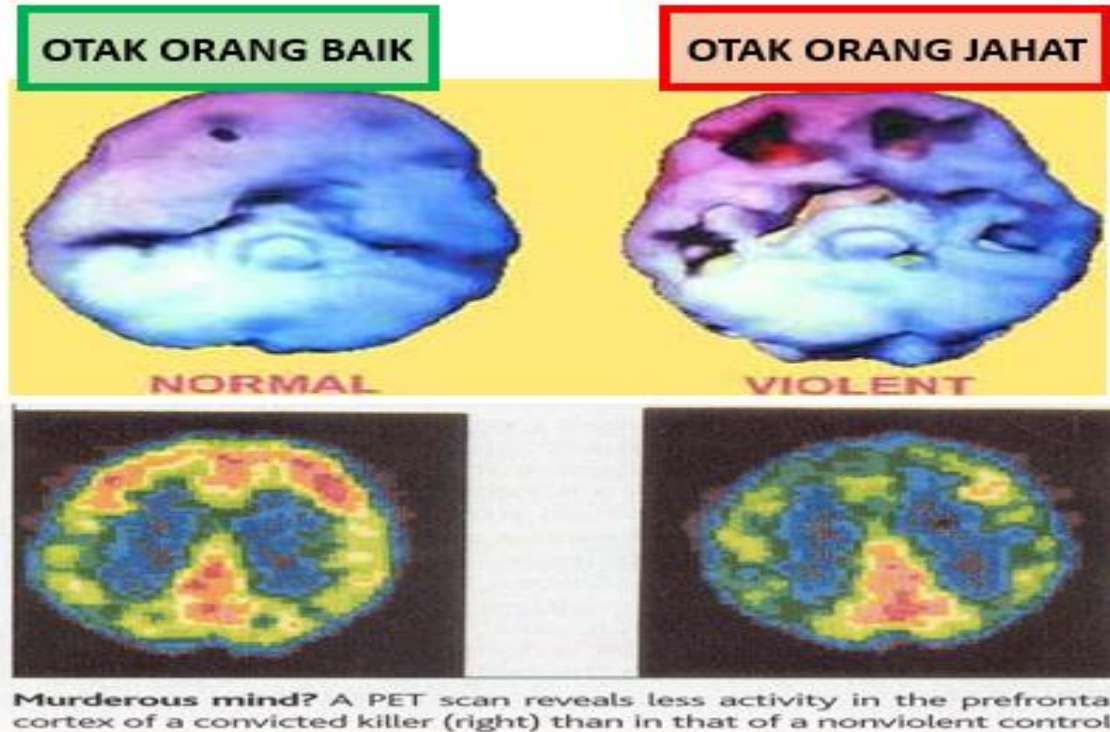
KESEHATAN JIWA- KUALITAS AKHLAK / KARAKTER

HORMON CINTA

EMOSI POSITIF
(TENANG, SABAR,
KASIH SAYANG,
OPTIMIS, PERCAYA DIRI):
BAHAGIA →
MENYEHATKAN OTAK →
SIFAT INSAN KAMIL
DOMINAN



**NAFSU
MUTMAINNAH**



HORMON RACUN

EMOSI NEGATIF
(MARAH,
BENCI, FRUSTASI,
IRI/DENGKI, PESIMIS,
MINDER): **MERANA** →
MERUSAK STRUKTUR
OTAK → SIFAT
HEWANI DOMINAN



**NAFSU
AMARAH¹**

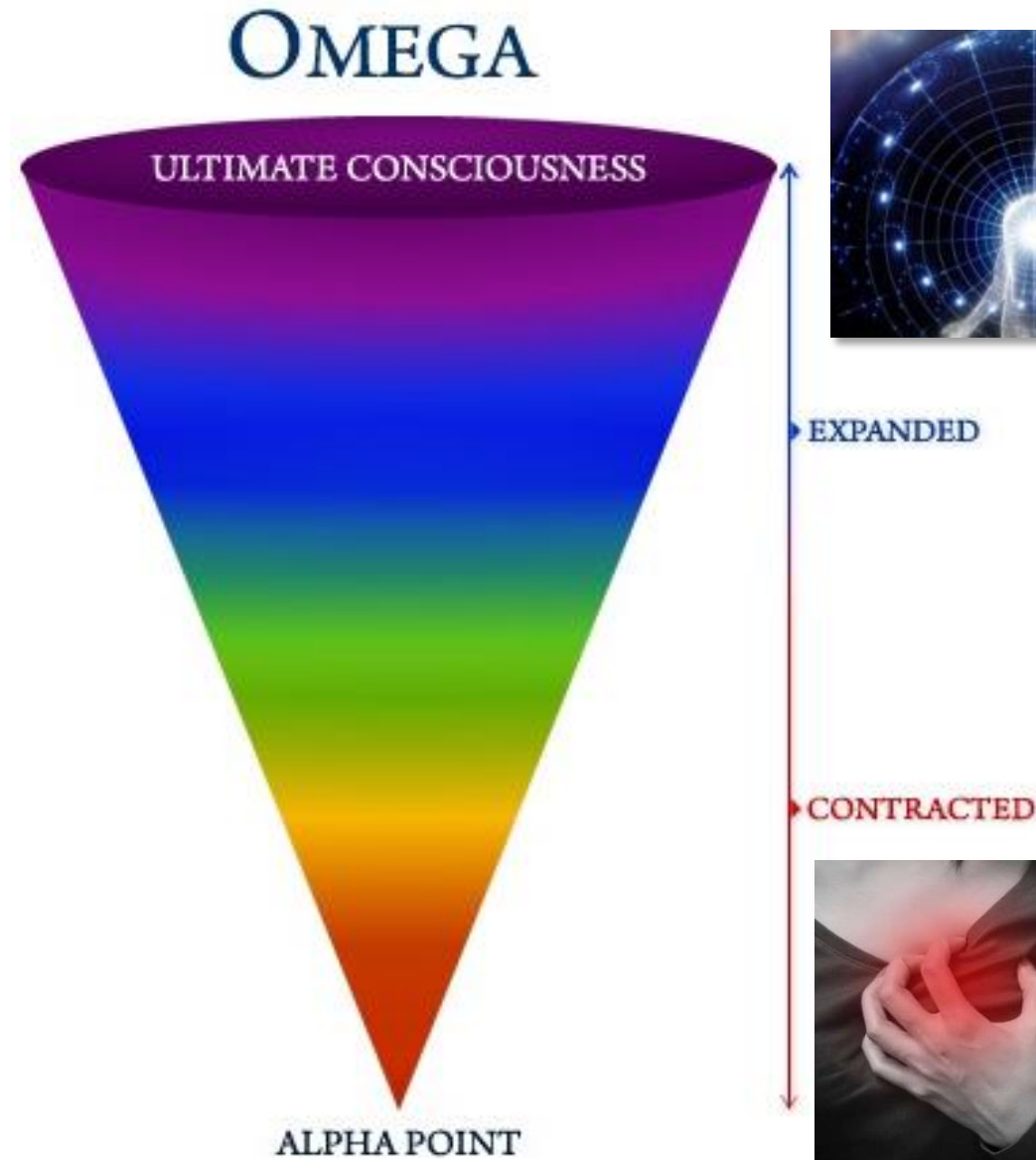


INDIKATOR EMOSI: DADA LAPANG Vs DADA SESAK

KUALITAS JIWA MEMILIKI ENERGI/AURA YANG BISA DIRASAKAN

Dr. David Hawkins

700+	Enlightenment
600	Peace
540	Joy
500	Love
400	Reason
350	Acceptance
310	Willingness
250	Neutrality
200	Courage
175	Pride
150	Anger
125	Desire
100	Fear
75	Grief
50	Apathy
30	Guilt
20	Shame

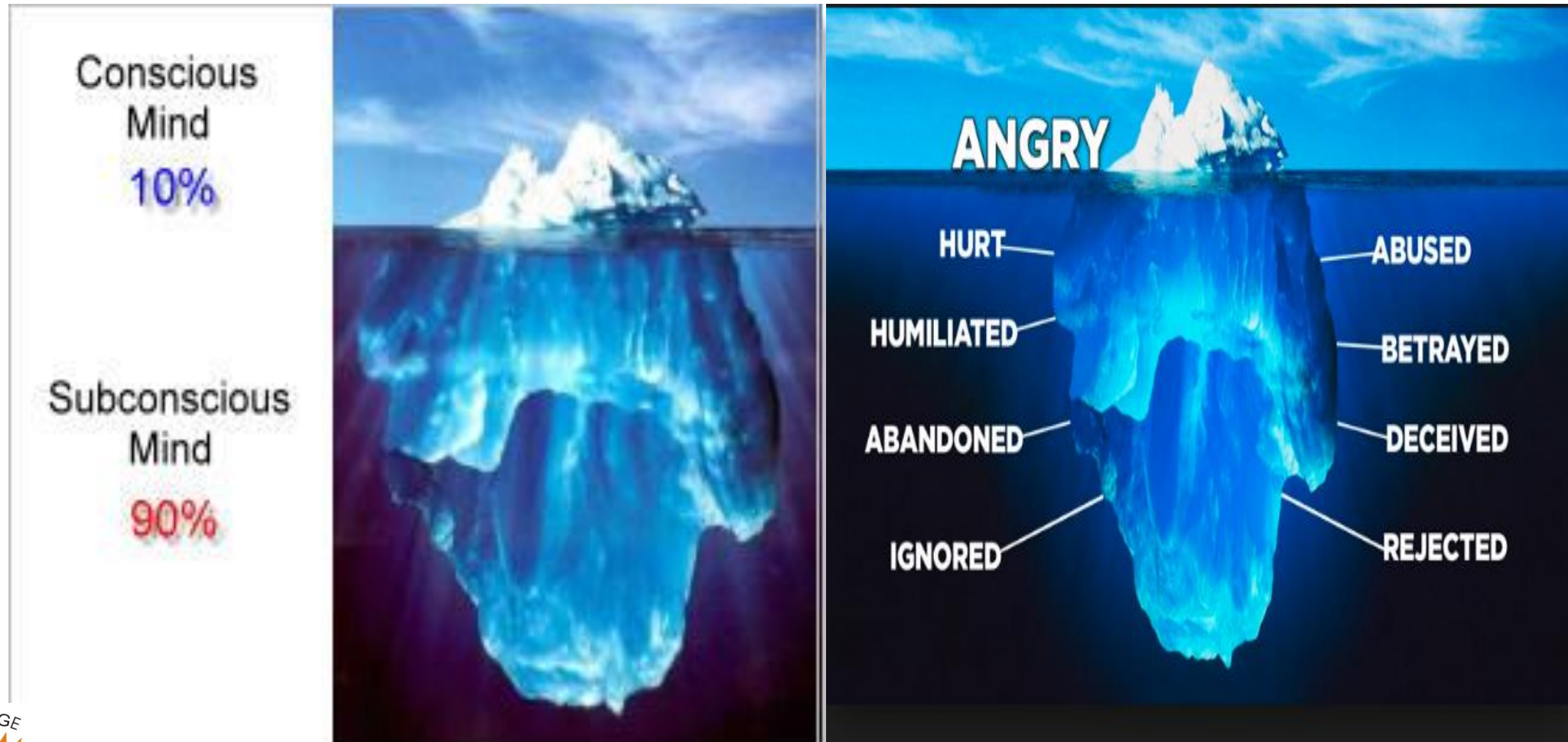


"Siapa-siapa yang Allah menghendaki akan memberikan kepadanya petunjuk, maka Dia melapangkan dadanya."
QS. Al-Anfal: 125

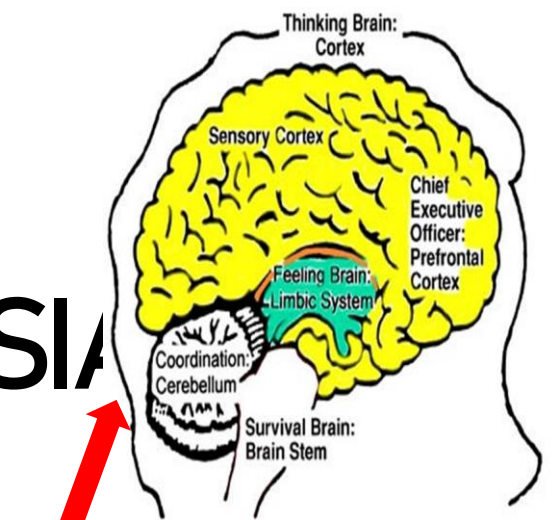


.....Dan barangsiapa yang dikehendaki Allah kesesatannya, niscaya Allah menjadikan dadanya sesak lagi sempit, seolah-olah ia sedang mendaki langit...
QS: Al-An'am Ayat 125

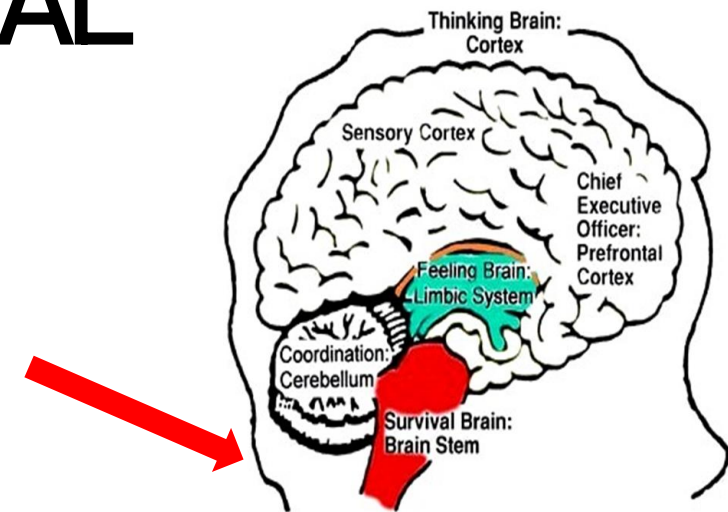
ENERGI ALAM BAWAH SADAR (LIMBIK & BATANG OTAK) MEMPENGARUHI 90% PERILAKU MANUSIA



BAGAIMANA KUALITAS SDM INDONESIA

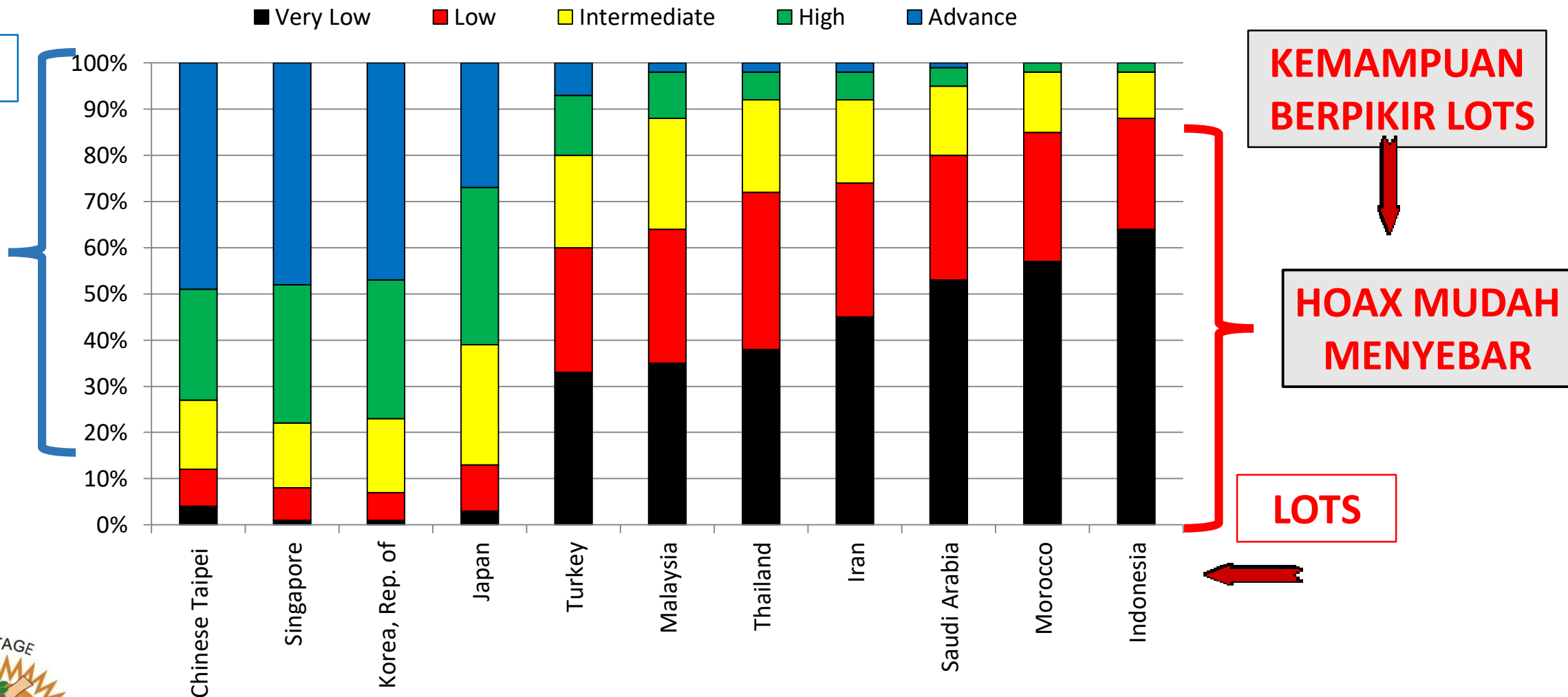


MANA YANG LEBIH DOMINAN,
HIGHER CORTEX- OTAK RASIONAL
ATAU
BRAIN STEM- OTAK REPTIL?



Hampir 90% Siswa Indonesia Memiliki Tingkat Kemampuan Berpikir Rendah & Sangat Rendah (TIMMS, PISA)

HOTS

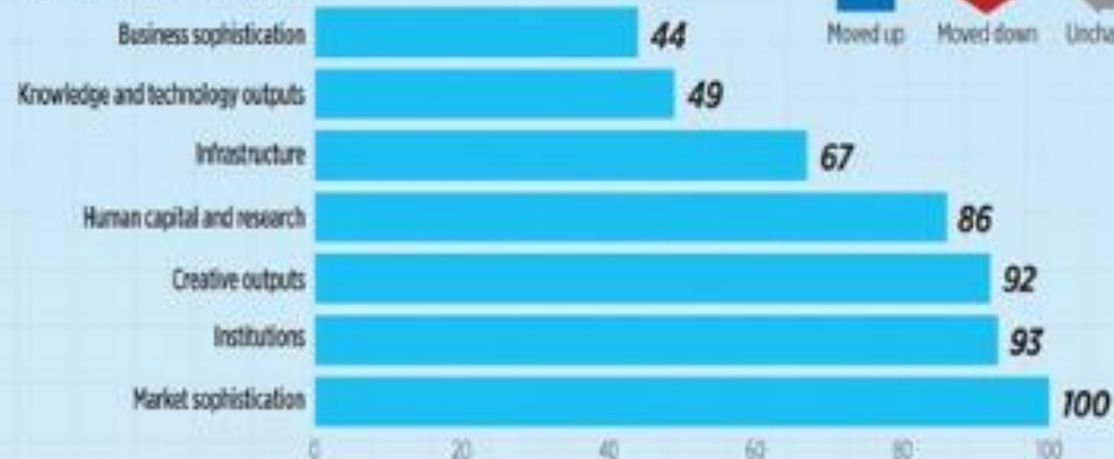


Sumber: Hasil TIMSS Matematika SMP/MTs Kelas VIII (2011)

GLOBAL INNOVATION INDEX 2018

Ranking of Philippines in the seven GII areas

(1 is highest possible ranking)



Global Top 10

2018 rank Change in ranking from 2017

1		Switzerland	
2		Netherlands	
3		Sweden	
4		United Kingdom	
5		Singapore	
6		USA	
7		Finland	
8		Denmark	
9		Germany	
10		Ireland	

SOURCE: GLOBAL INNOVATION INDEX 2018 by CORNELL SC JOHNSON COLLEGE OF BUSINESS, INSEAD, and WORLD INTELLECTUAL PROPERTY ORGANIZATION
BUSINESSWORLD GRAPHICS: BONG R. FORTIN

Change in ranking from 2017



VIETNAM
2018 rank: **45** 



CAMBODIA
2018 rank: **98** 



PHILIPPINES
2018 rank: **73** 



THAILAND
2018 rank: **44** 



MALAYSIA
2018 rank: **35** 



 **INDONESIA**
2018 rank: **85** 



SINGAPORE
2018 rank: **5** 



BRUNEI
2018 rank: **67** 



Global Entrepreneurship Index – Ranking 94



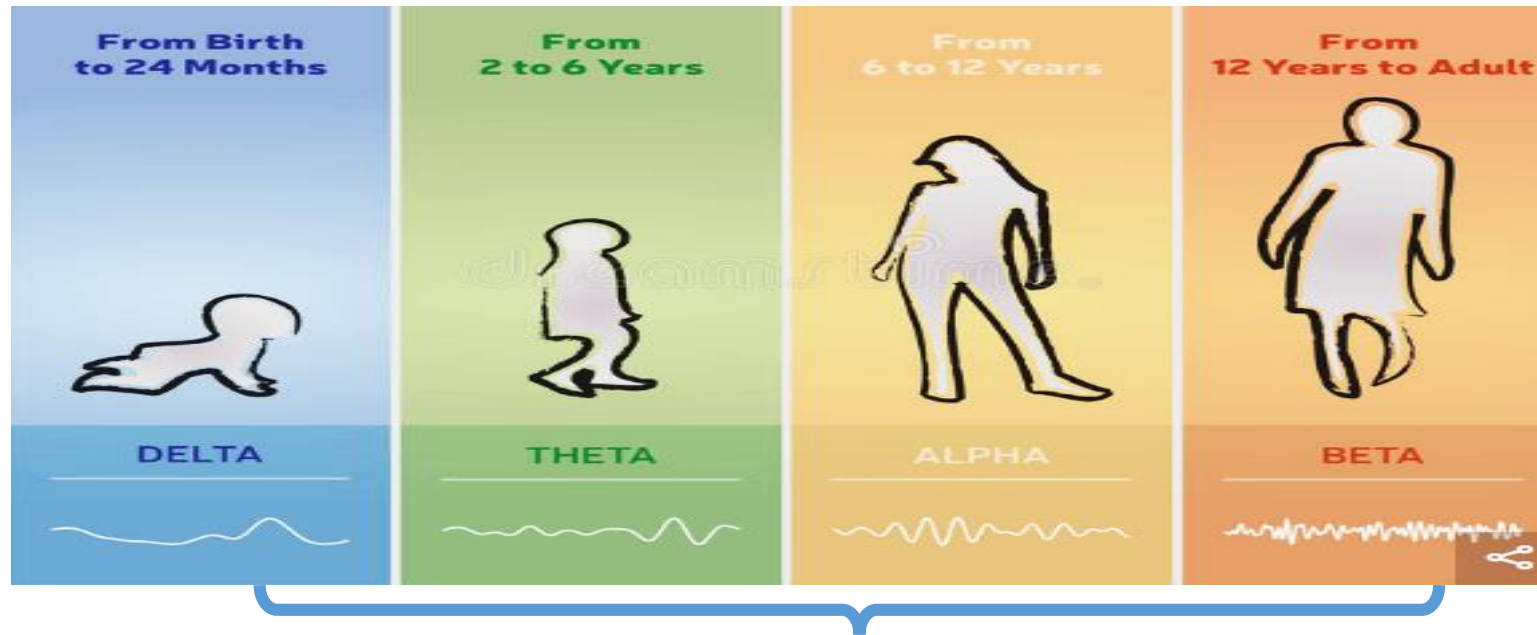
Rank	Country	GDP World Bank international\$ 2011	GEI
1	United States	52676	83.6
2	Switzerland	54933	80.4
3	Canada	42104	79.2
4	United Kingdom	37451	77.8
5	Australia	42149	75.5
6	Denmark	44005	74.3
7	Iceland	34541	74.2
8	Ireland	42012	73.7
9	Sweden	45533	73.1
10	France	37948	68.5
11	Netherlands	46241	68.1
12	Finland	38509	67.9
13	Hong Kong	53959	67.3
14	Austria	43574	66



2018 Data

81	Trinidad & Tobago	26529	24.4
82	Dominican Republic	12038	24.3
83	Albania	10021	24.2
84	Philippines	8057	24.1
85	Argentina	0	24
86	Swaziland	7228	23.8
87	Vietnam	5092	23.2
88	Armenia	8042	22.8
89	Jamaica	8211	22.2
90	Sri Lanka	8022	21.9
91	Rwanda	1556	21.5
92	Moldova	5242	21.2
93	Ghana	3724	21.2
94	Indonesia	9725	21
95	Bosnia and Herzegovina	9810	20.7

FOKUS PROGRAM IHF → USIA 0 – 12 TAHUN MASA TERPENTING PEMBENTUKAN KARAKTER



Sekolah Karakter- IHF

- ✓ Lingkungan Sekolah yang menimbulkan emosi positif PG-TK-SD-SMP-SMA

Semai Benih Bangsa

Penyebaran Model Sekolah Karakter ke Seluruh Indonesia

Program Parenting- IHF

- ✓ Lingkungan Keluarga yang menimbulkan emosi positif

COLLEGE OF CHARACTER-BASED
HOLISTIC EDUCATION
(SEKOLAH TINGGI PENDIDIKAN
HOLISTIK BERBASIS KARAKTER)

MODEL OF “CHARACTER-BASED HOLISTIC EDUCATION “ DEVELOPED BY INDONESIA HERITAGE FOUNDATION

POSITIVE
EMOTION

POSITIVE
EMOTION

POSITIVE AND CARING SCHOOL CLIMATE:

- ✓ CARING , LOVING, AND INSPIRING TEACHERS AND SCHOOL STAFF
- ✓ TEACHER-CHILD BONDING
- ✓ BULLYING FREE
- ✓ INCLUSIVE EDUCATION

DAP

(DEVELOPMENTALLY APPROPRIATE PRACTICES),
Collaborative Learning
Bain-based learning

EXPLICITE AND IMPLICITE CHARACTER EDUCATION

SELF-ESTEEM, PASSIONATE LEARNING
SELF-MOTIVATED

Acting the
good

Knowing the
good

9 PILLAR OF
CHARACTER

Feeling the
good

Reasoning
the good

SELF-ESTEEM, PASSIONATE LEARNING
SELF-MOTIVATED

STANDARDIZED TEACHER TRAINING
CHARACER-BASED TEACHING
ASSESSMENT & EVALUATION

SCHOOL, PARENTS AND
COMMUNITIES AS PARTNERS
(School Committee, Parents
Association)

Daily Reflection &
Apperception

Character-based
Integrated Curriculum
(Thematic Teaching and
daily lesson plan)

Feeling Education

Character-based Story
books, teaching
materials

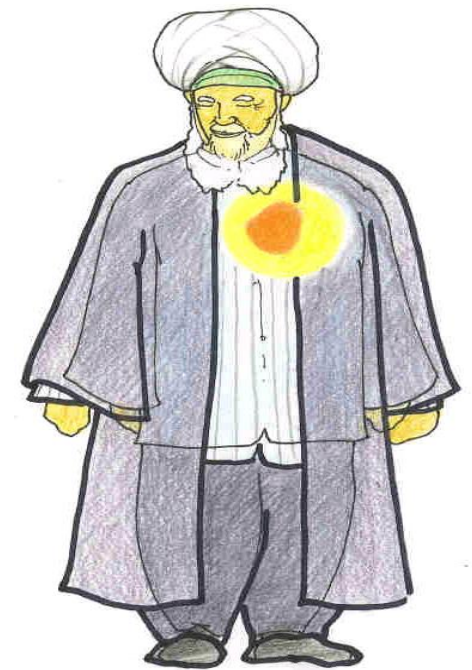
Character-based Co-
Parenting

SELF-CONTROL,
MORAL COMMITMENT,
WELL- DEVELOPED CONCSIENCE.

MEMBANGUN SELURUH DIMENSI MANUSIA

WHOLE PERSON → MANUSIA HOLISTIK → *HOLY MAN*

PENDIDIKAH (*WHOLE*)LISTIK BERBASIS KARAKTER (PHBK)



EMOSI POSITIF

dengan

FOKUS JANTUNG:

Untuk Fisik Sehat, Jiwa Sehat, dan Cerdas Kreatif



ERA INDUSTRI 4.0 MEMERLUKAN EMOSI POSITIF ATAU HORMON CINTA ALAMI UNTUK PERKEMBANGAN OTAK OPTIMAL



Your Character is Your Destiny, Your Altitude depends on Your Attitude.
WATCH YOUR DIGITAL QUOTIENT

JEJAK DIGITAL PERMANEN

Raise your
Digital Quotient

