

Pengembangan ICT: Peningkatan Kualitas PTAI

Oleh:

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Pada:

Pertemuan Tahunan PTAI

Palembang: 4 Nopember 2008

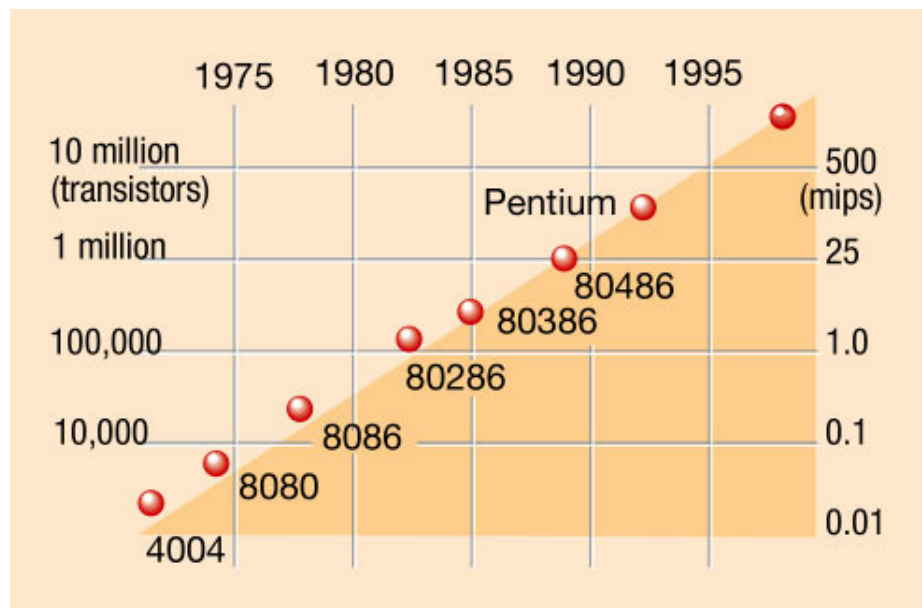
Agenda



- Nilai-nilai ICT dan Hierarki Pengetahuan
- Pola Pikir
- Transformasi Sosial
- Peran ICT
- Apa yang harus disiapkan

Nilai-nilai ICT

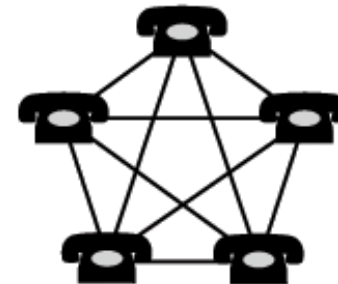
- **Hukum Moore** – Law of Computational Ubiquity



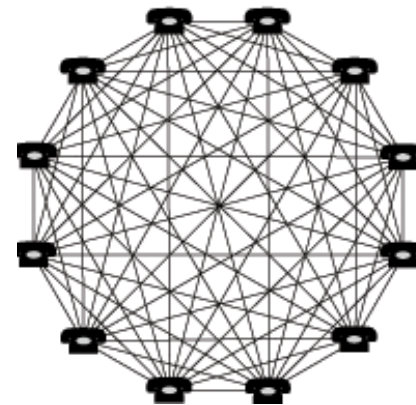
- “Complexity of integrated electronic Circuit for minimum cost has increased at a rate of roughly a factor of two per year” – Gordon Moore, Co Founder, INTEL

Nilai-nilai ICT

- **Hukum Metcalfe** – Law of Global Information Networks



- “The connection of network increase in proportion to the square of the number of nodes”, Robert Metcalfe, Ethernet Inventor, Founder 3M



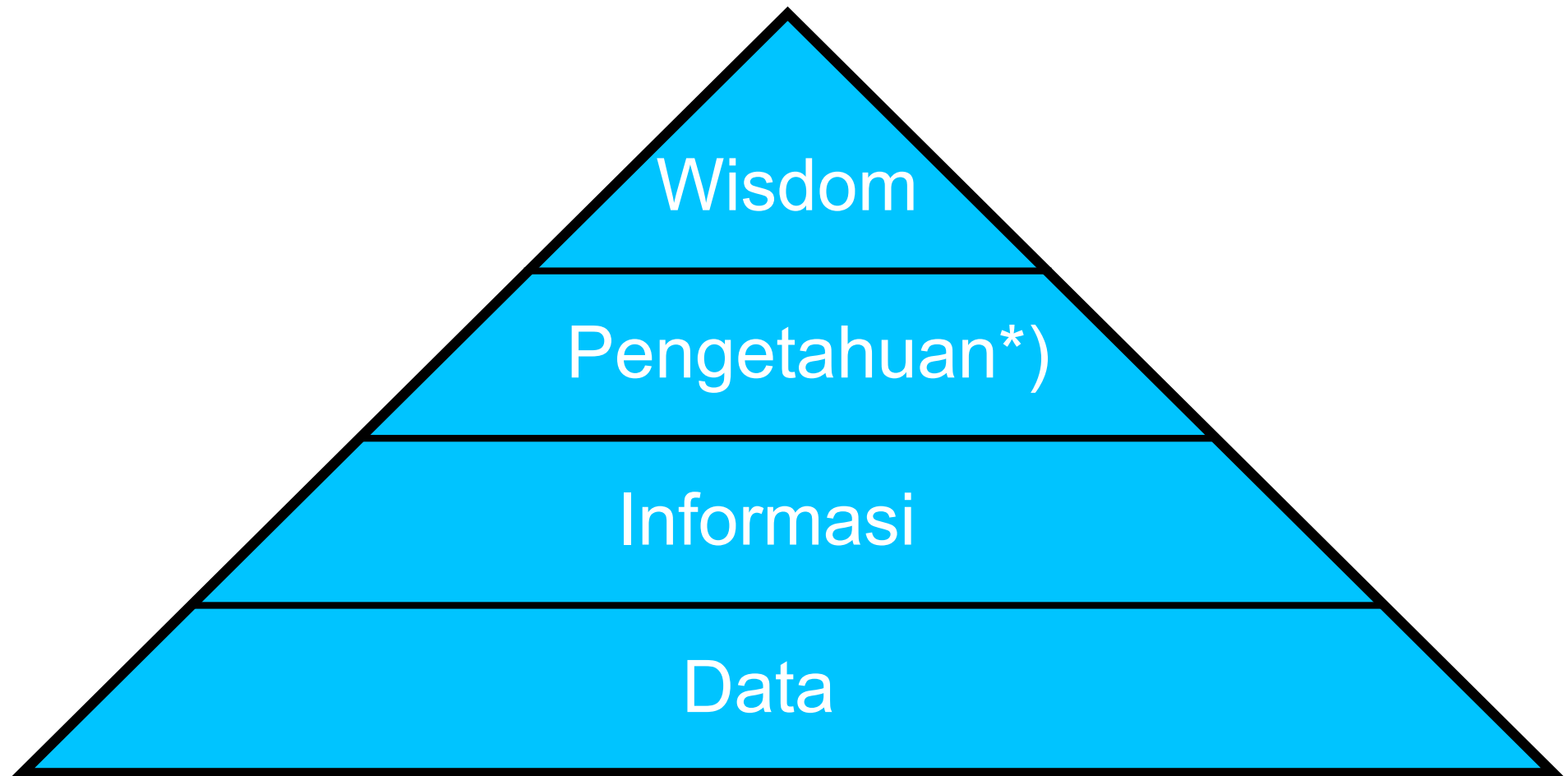
$$y = \frac{1}{2} (n^2 - n)$$

Nilai-nilai ICT

- **Hukum Coase** – Law of the Innovation Economy
- **Transaction cost:** firms should only do what they can do more efficiently than others, and should outsource what others can do more efficiently – Prof Coase, Nobel Laureate, Prof in Chicago University



Hierarki Pengetahuan



*) Tacit dan Codified

Mind Mapping



- Disciplined Mind
- Synthesizing Mind
- Creative Mind
- Respectful Mind
- Ethical Mind

Transformasi Sosial



Competent	4. Mastery Forgotten more than others know	3. Proficiency <i>Know What You Know</i>
Incompetent	1. Ignorance Don't know what you don't know	2. Awareness <i>Know what you don't know</i>
	Unconscious♪	Conscious

Peran ICT



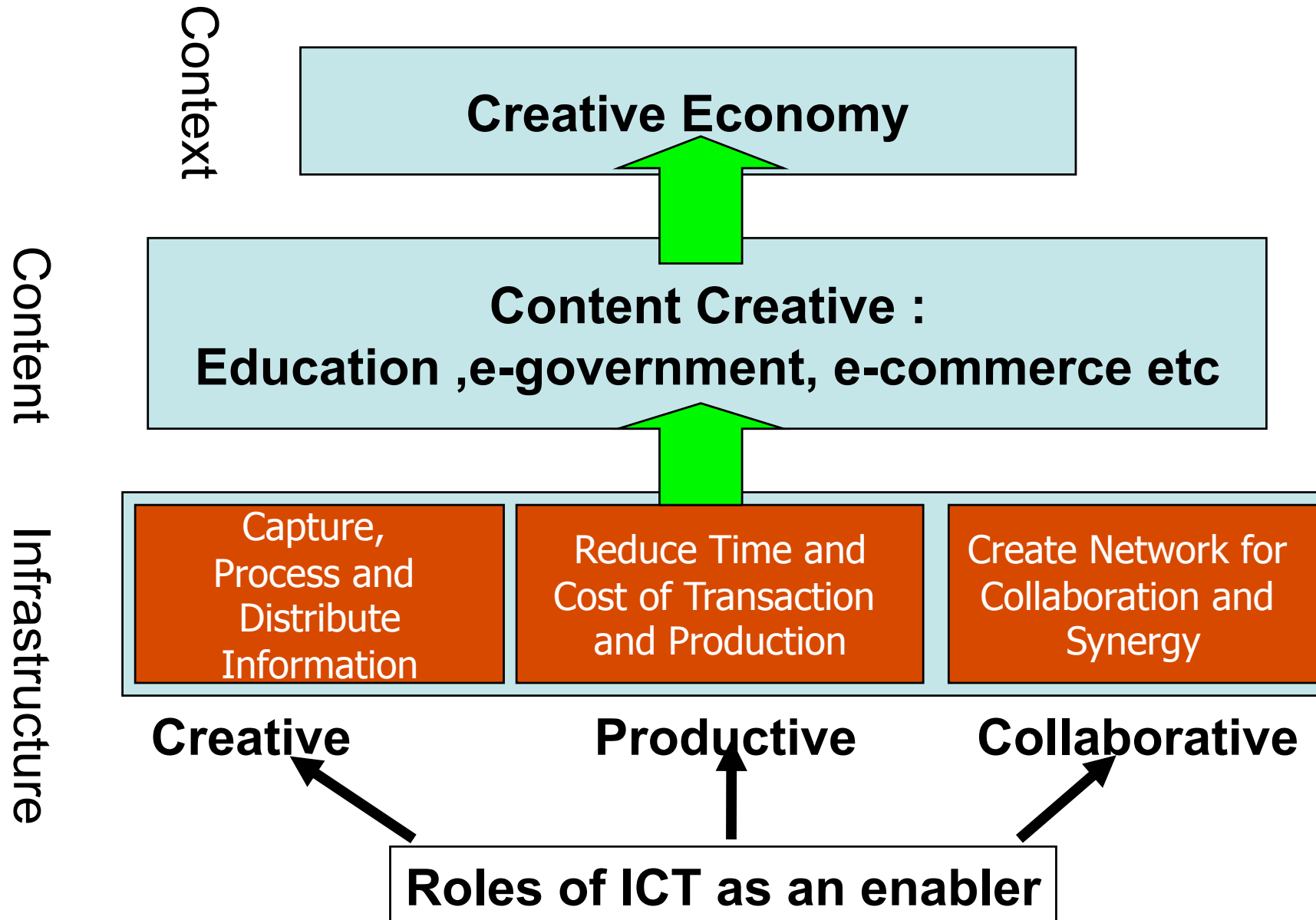
- Supporter
- Driver
- Enabler
- Transformer

Apa yang harus disiapkan



- Konsep Pemahaman ttg peran ICT (supporter, driver, enabler dan transformer)
- Sumber Daya Manusia (Memanfaatkan kerjasama dg Dept/Lembaga lain)
- Membangun sistem ICT untuk pendidikan (adopsi dan kolaborasi: e-administration, e-education dll)
- ICT Infrastructure

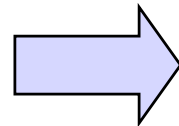
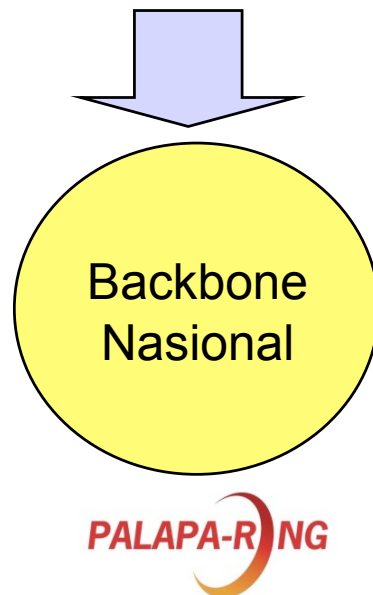
Infrastuktur-Konten-Konteks



Palapa Ring

Latar Belakang

ICT sebagai katalisator pertumbuhan ekonomi
ICT -> Internet -> Pemakaian **masih rendah**
Hanya di kota2 besar -> **Kesenjangan digital**
Biaya internet dan telekomunikasi **mahal**

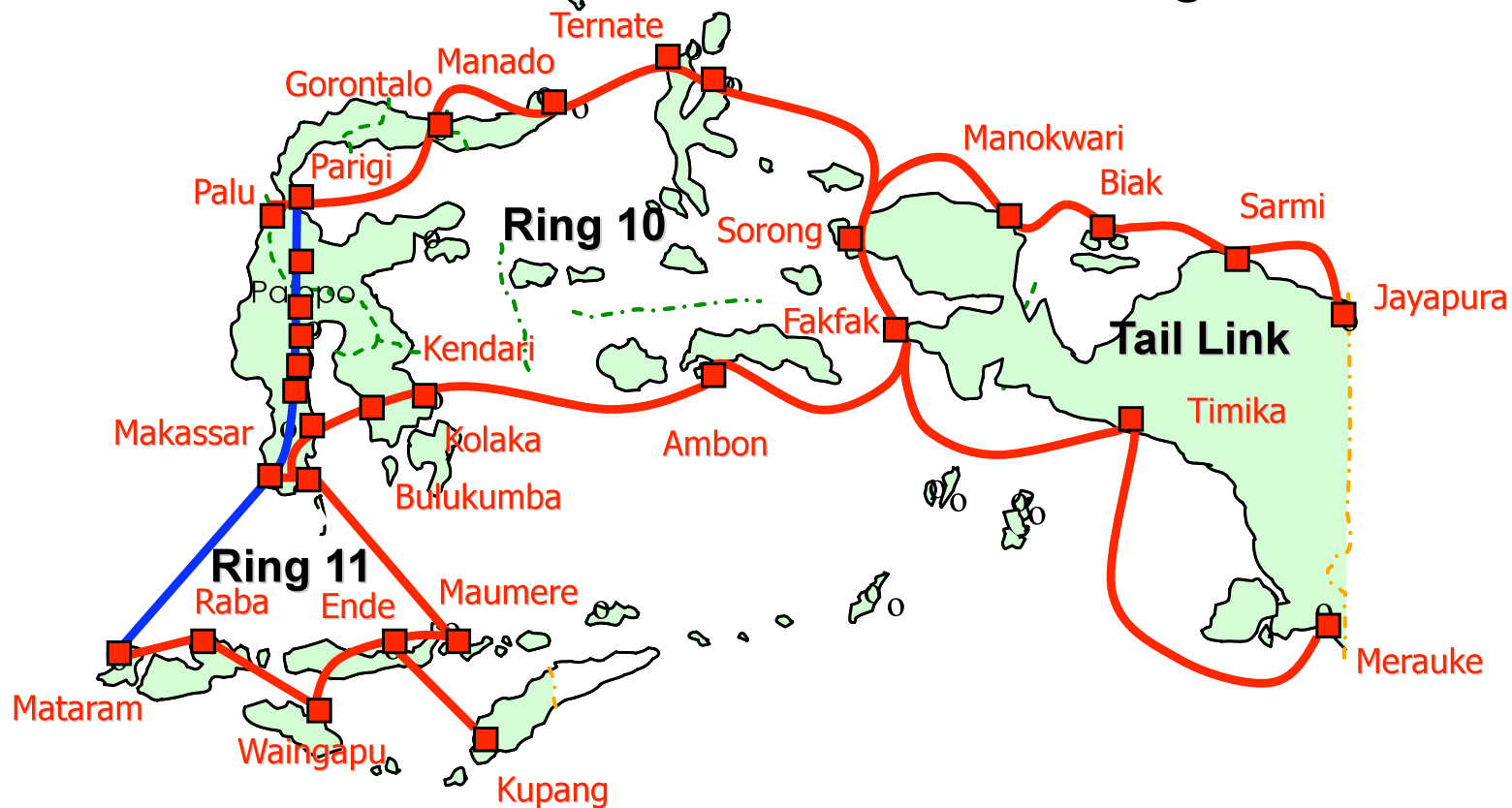


- Biaya Internet dan telekomunikasi menurun -> pemakaian meningkat -> Kesenjangan digital menurun
- SDM meningkat secara merata
- Kesempatan bisnis meningkat
- Pertumbuhan ekonomi yang merata

Palapa Ring

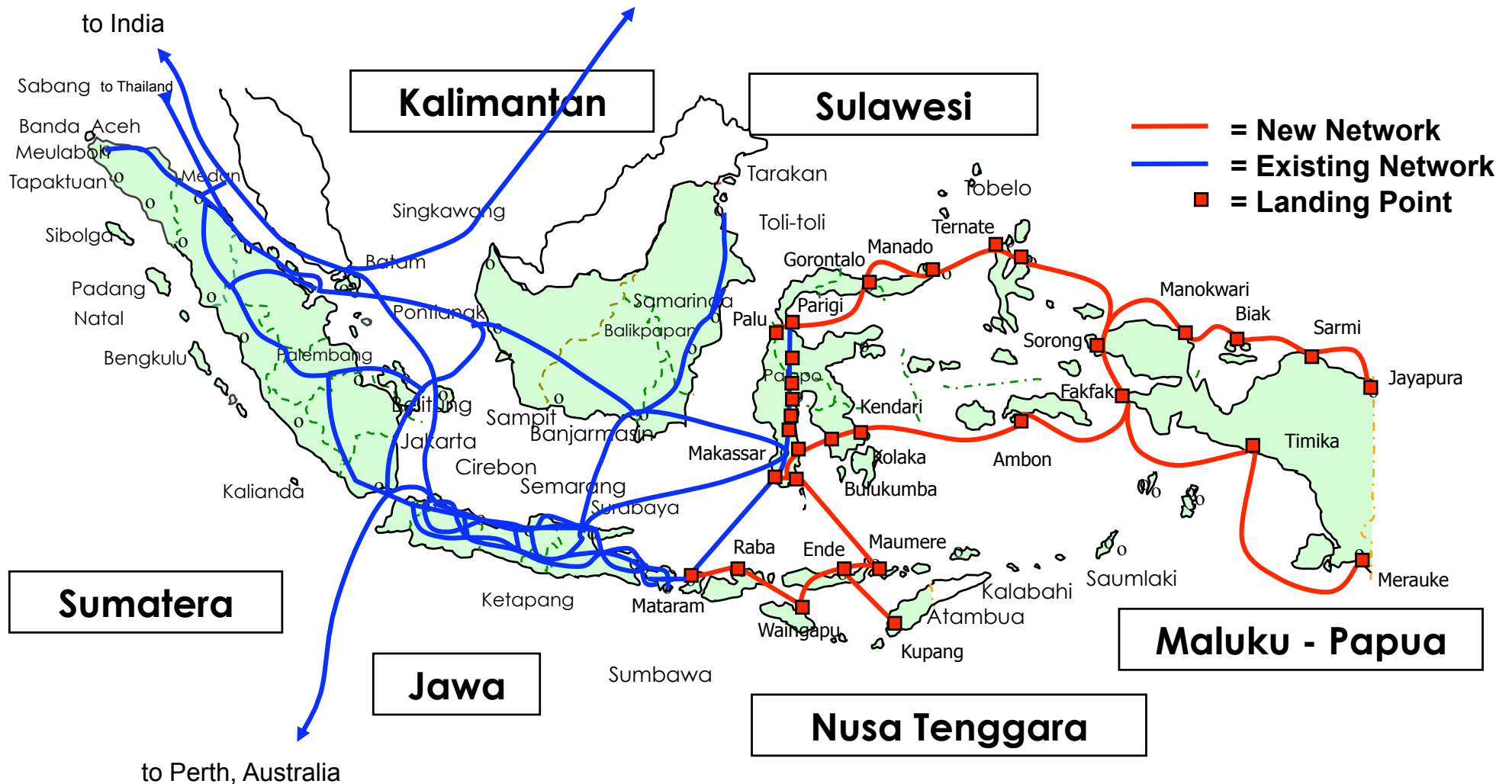
- Konfigurasi Palapa Ring

-  = New Network
-  = Existing Network
-  = Landing Point



Palapa Ring

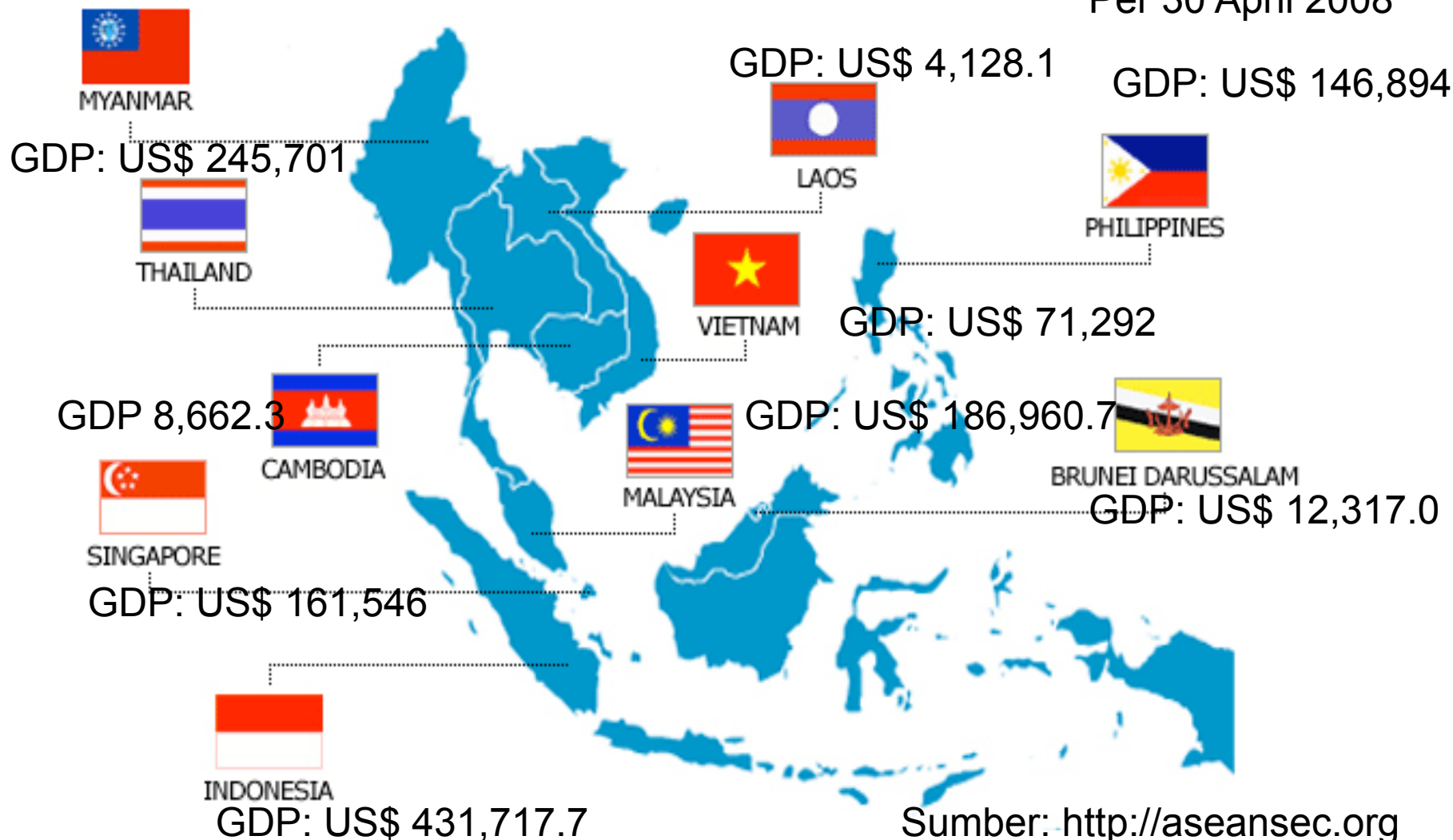
● Integrasi *Existing* & Palapa Ring (Timur) to Asia Pacific



ASEAN GDP Indicator

GDP: US\$ 12,632.7

Dalam jutaan US\$
Per 30 April 2008



ASEAN GDP/Capita Indicator



Per 30 April 2008

US\$ 215



MYANMAR

US\$ 736



LAOS

US\$ 1,652



PHILIPPINES

US\$ 3,740



THAILAND

US\$ 836



VIETNAM

US\$ 598



CAMBODIA

US\$ 6,880



MALAYSIA



BRUNEI DARUSSALAM

SINGAPORE



US\$ 35,206



INDONESIA

US\$ 1,919

Sumber: <http://aseansec.org>