

Indonesia's Transition Towards Greener Economies and Policies

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green jobs (unep, 2008)

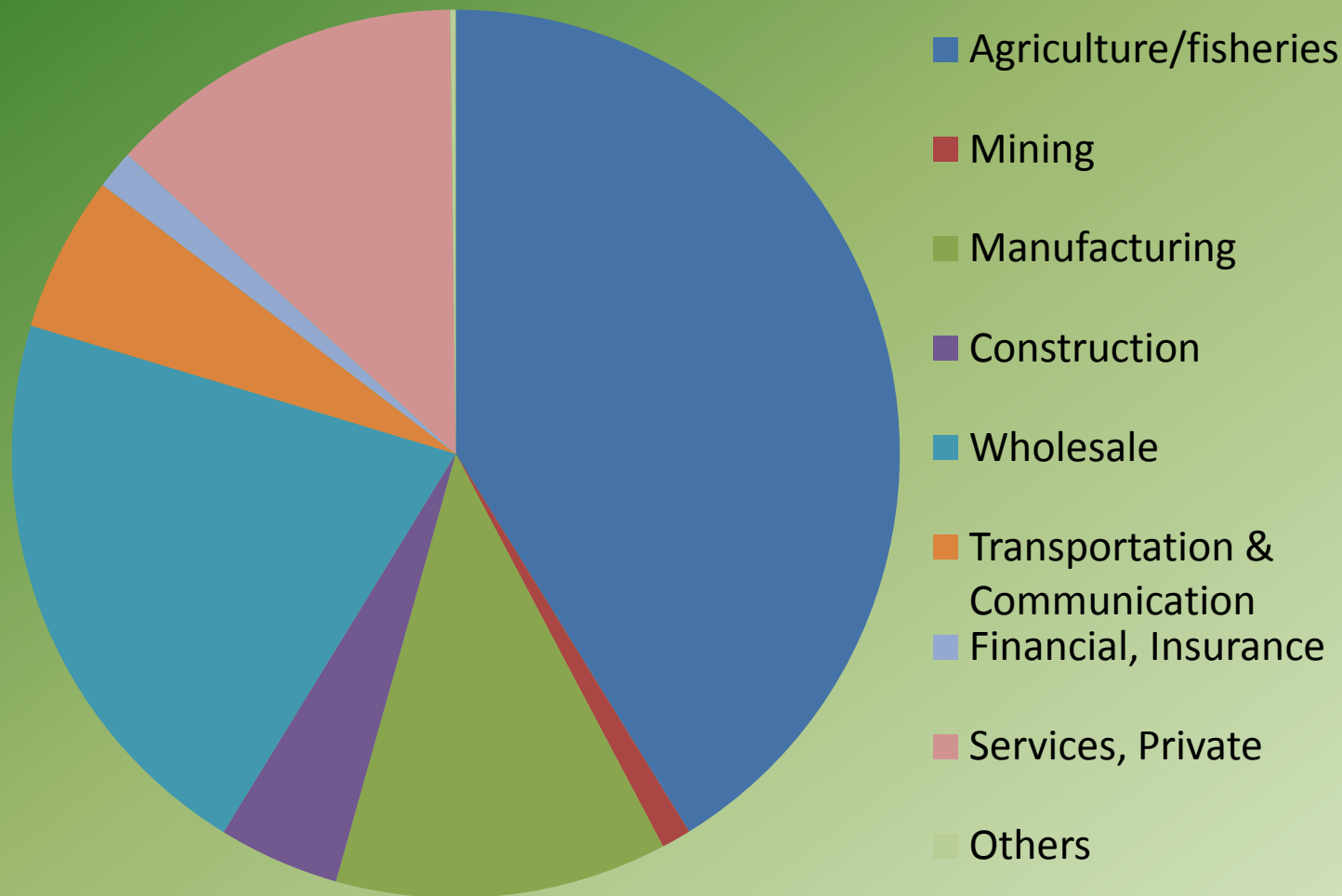
- We define green jobs as work in agricultural, manufacturing, research and development (R&D), administrative, and service activities that contribute substantially to preserving or restoring environmental quality. Specifically, but not exclusively, this includes jobs that help to protect ecosystems and biodiversity; reduce energy, materials, and water consumption through high efficiency strategies; de-carbonize the economy; and minimize or altogether avoid generation of all forms of waste and pollution.
- Employment will be affected in 4 ways:
 - Additional jobs will be created—as in the manufacturing of pollution-control devices added to existing production equipment.
 - employment substitution—as in shifting from fossil fuels to renewable, or from land filling and waste incineration to recycling.
 - Elimination without direct replacement—as when packaging materials are discouraged or banned.
 - Many existing jobs (especially such as plumbers, electricians, metal workers, and construction workers) will simply be transformed and redefined as day-to-day skill sets, work methods, and profiles are greened.

GDP by sector (%), BPS 2009



- Agriculture/fisheries
- Mining
- Manufacturing
- Construction
- Commerce
- Transportation & Communication
- Financial & Biz Services
- Services
- Others

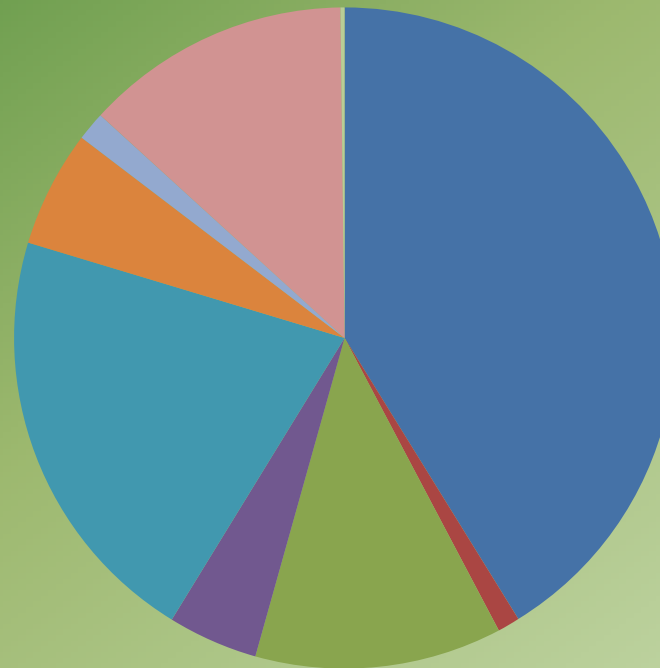
employment by industry (%), BPS 2009



in synch? implications?



GDP



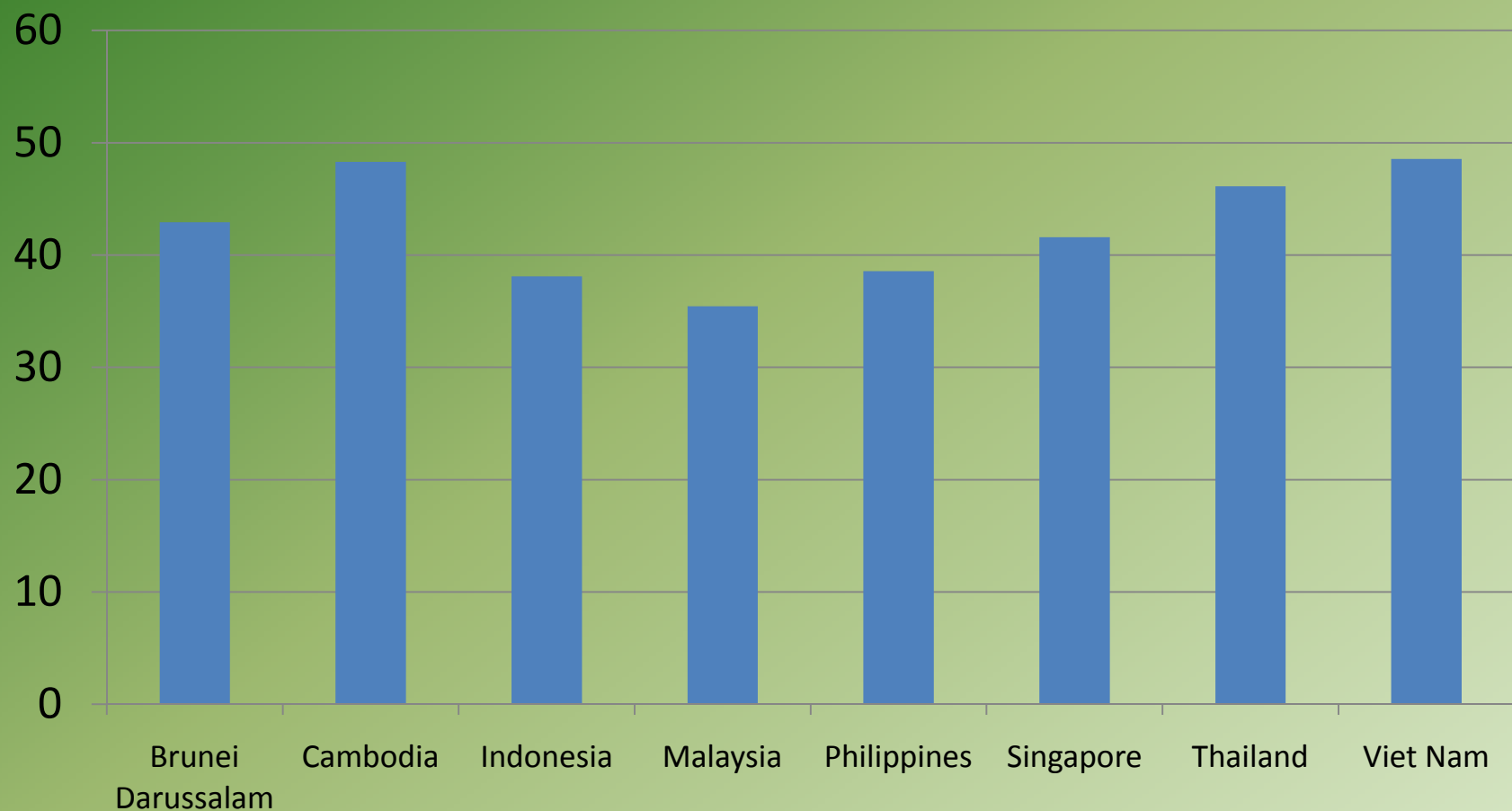
Employment

- Agriculture/fisheries
- Mining
- Manufacturing
- Construction
- Wholesale
- Transportation & Communication
- Financial, Insurance
- Services, Private
- Others

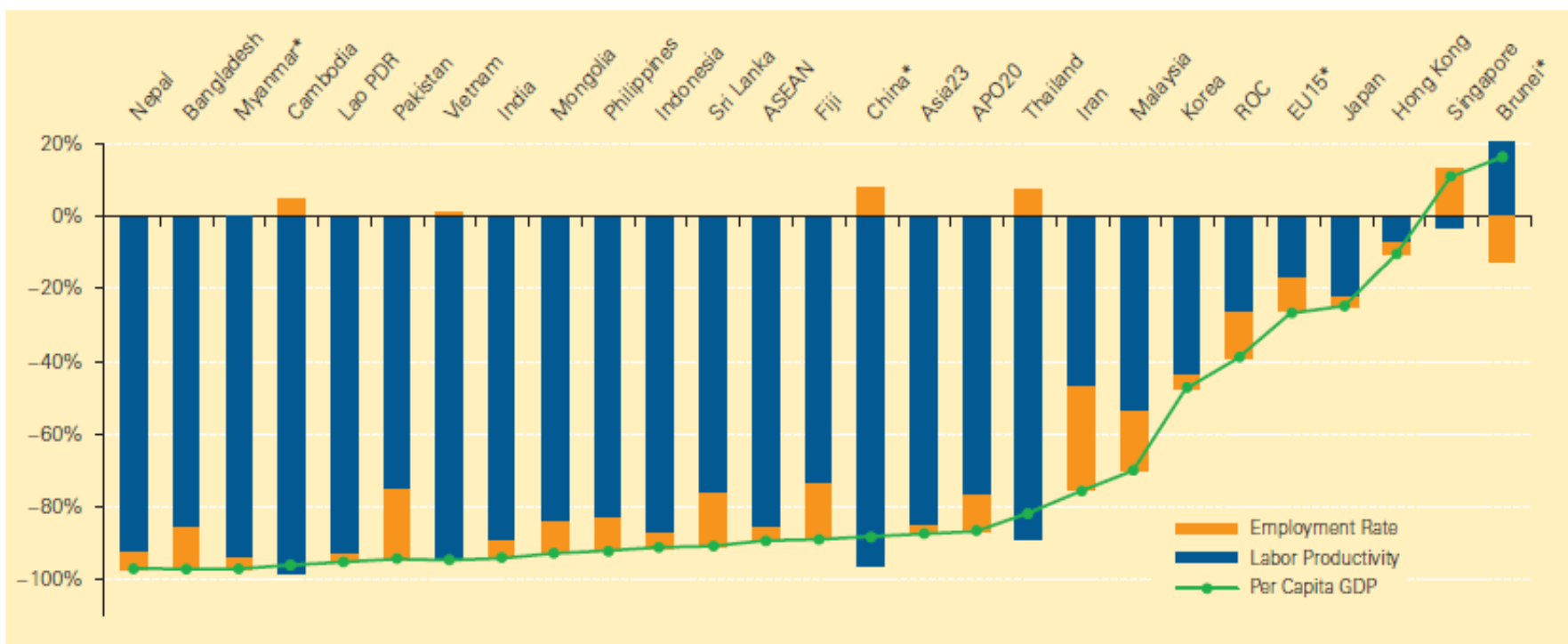
% taking care of household, BPS 2009



% of women in adult labor force, UNStats 2009



productivity



i: Labor Productivity and Employment Rate Gap with Respect to the US, 2007
 –Decomposition: Gap of GDP at constant market prices per person, using the 2005 PPPs

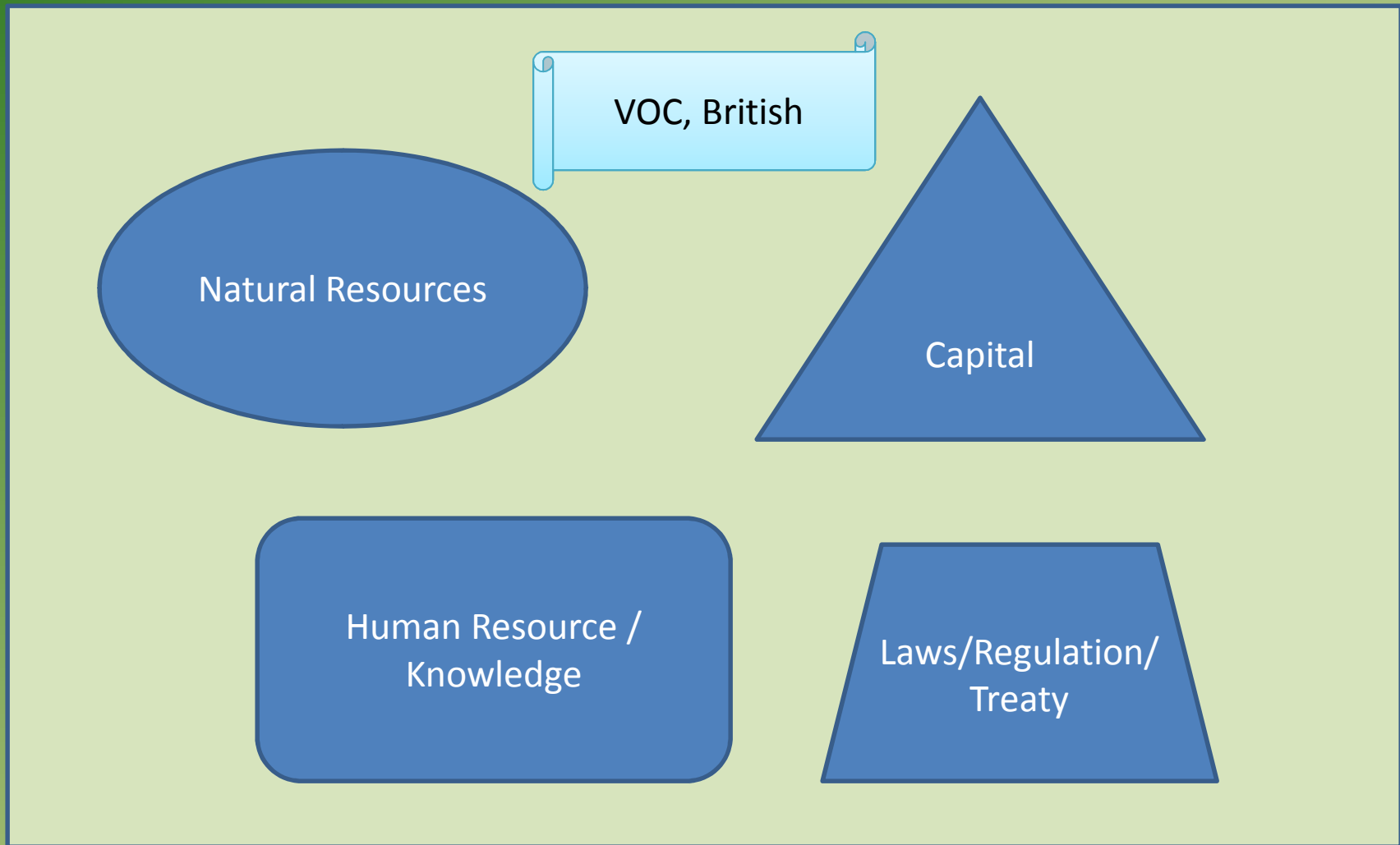
catching up to do ?

: Country Groups Based on the Initial Economic Level and the Pace of Catching Up with the US
 – Level and average annual growth rate of GDP at constant market prices, using the 2005 PPPs

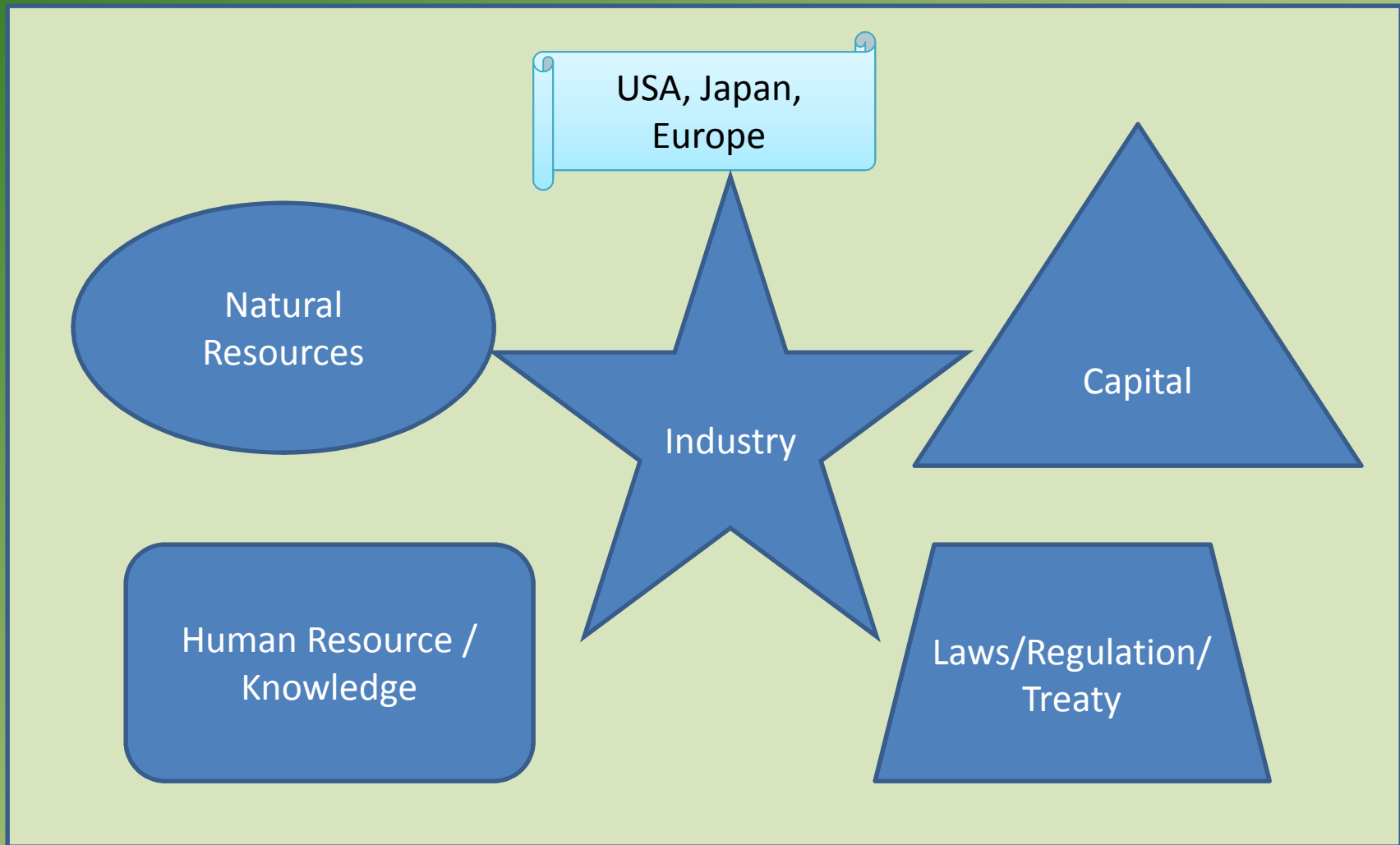
GDP Level to the US	Annual Rate of Catchup to the US			
	(C1) 3% <	(C2) 1% < – < 3%	(C3) 0% < – < 1%	(C4) < 0%
(L1) 60% <			Japan, EU15*	Brunei*
(L2) 20% < – < 60%	Singapore	Hong Kong		Iran
(L3) 5% < – < 20%	Korea, ROC	Malaysia, Sri Lanka, Thailand	Mongolia, Pakistan	Fiji, Philippines
(L4) < 5%	Cambodia, Vietnam, China*	India, Indonesia, Lao PDR, Myanmar*	Bangladesh	Nepal

Note: The annual catch-up rates are estimated based on the data during 1970–2007. The starting years for some countries are different due to data availability: Bangladesh (1973–), Brunei (1974–), Cambodia (1987–), Lao PDR (1984–), Nepal (1974–) and Vietnam (1986–). The countries with “*” represent the non-member countries in Asia.

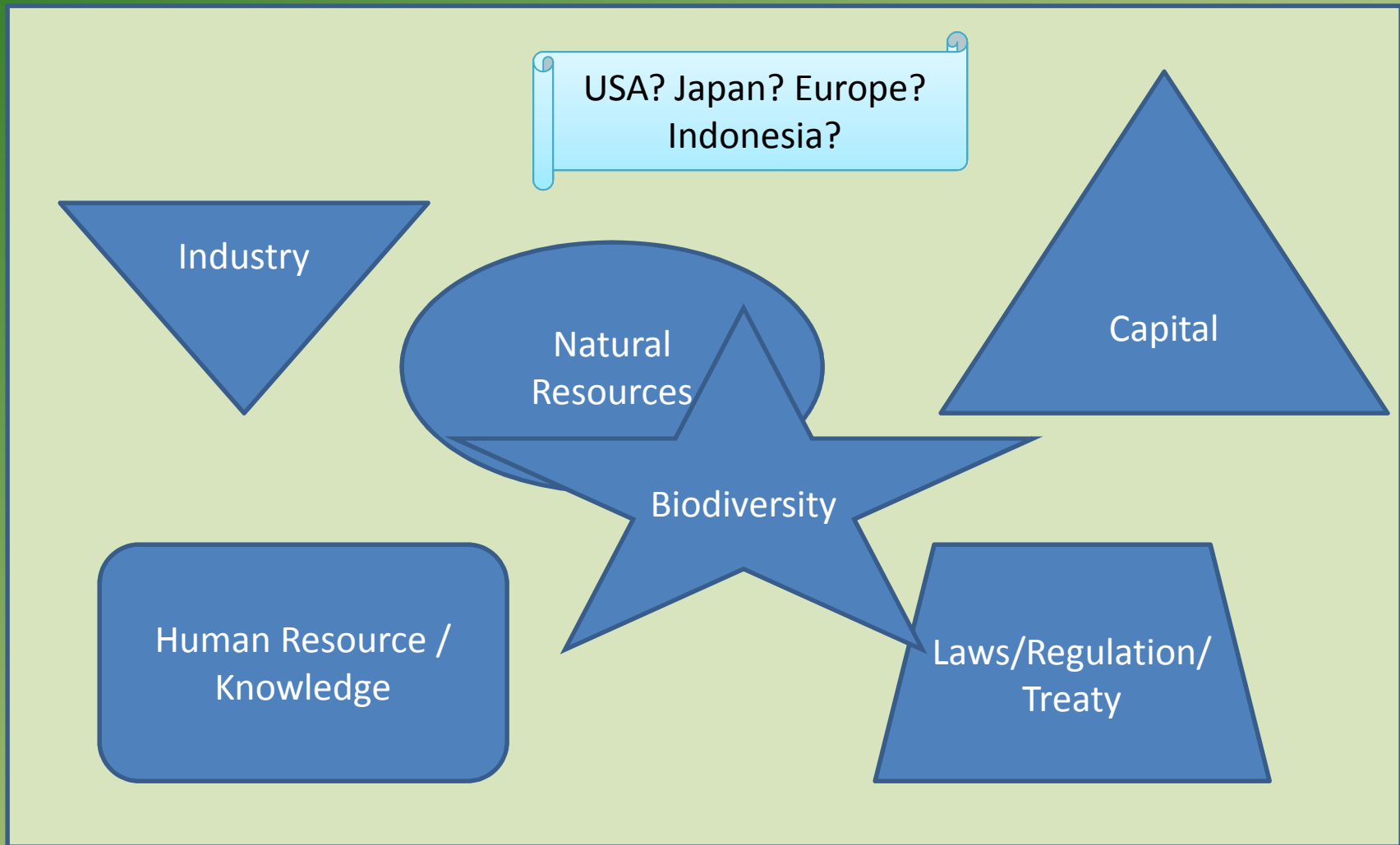
“business” from time to time power



“business” from time to time industrial revolution



“business” from time to time green revolution



- Asia's growth helped global recovery from recent financial crisis (Risks: Slow recovery of developed nations, capital flows that destabilize, increasing protectionism, global instability).
- Other foreseeable crisis: food, energy & environment → social crisis → Needs green policy that is sustainable.
 - Although Asia leads in global recovery but at the same time there are problems of environmental degradation and lower social indicator in Asia. Income disparity, pollution, natural resources depleting fast → real capital decrease in Asia.
- The richness of biodiversity in Asia-Pacific is facing its biggest threat ever → causing higher poverty.
 - Need to stop climate change and biodiversity erosion.

- APEC, 54% of world's GDP, 44% world's trade, 40% world's population.
- APEC, 90% SME, 20-50% GDP, 25% of work-force (in Indonesia it is nearly 90%).
- Changing into an economy with low carbon intensity needs green technology, such as “smart grid”, renewable energy, environmental friendly transportation in urban area, etc. The focus is on 3 areas: stop climate change, stop biodiversity erosion, work on achieving MDGs.

where are we heading? example

- REDD+ → where carbon and other ecosystem services of Indonesia's forest can be credited, compensated and traded. (Land status/rights of stakeholders/establish certification & registry system, law/legal enforcement, etc.)
- Political (SBY's declaration of emission reduction, Sumatra governors', Copenhagen Accord), Policies & Regulations (Sumatra Spatial Planning, Decentralization Law). Setting up plan on financing and MRV, moratorium.
- Biodiversity and Peat and Forest Carbon Conservation.
- Where is the value? How is the supply chain developed? What type of businesses? Ripe?
- From natural resource exploitation to value added.

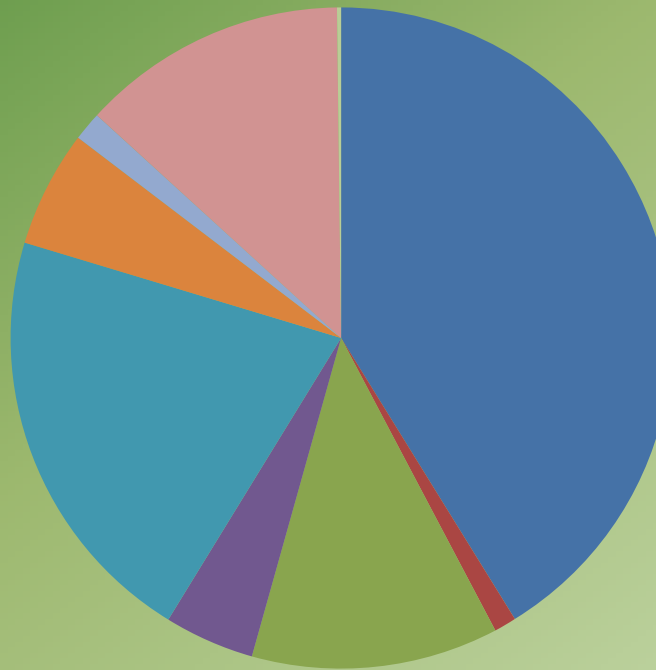
Closing

what ever we do....

in synch? implications?



GDP



Employment

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Knowledge Management

SECI vs Linearity

