NATURAL RESOURCES WEALTH AND DIVERSIFICATION

CREATING JOBS AND SHARING PROSPERITY WIDELY

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WHY IMPORTANT?

- >Jobs!
 - Quality of specialization
 - > Long-term growth
 - > Policy response
- Sharing prosperity more widely
 - > Extracting optimal natural resource revenues
 - ➤ Spending it adequately and effectively to create jobs and reduce poverty

JOBS - WHY IN FOCUS IN RESOURCE-RICH COUNTRIES?

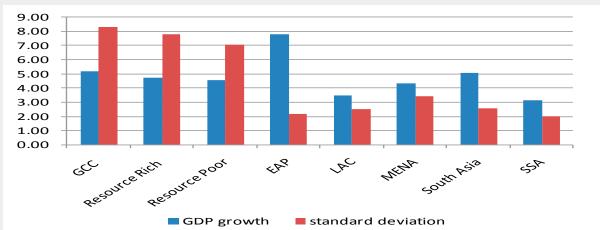
- Employment in agriculture tends to decline with structural transformation (technological development, low income elasticity of food & urbanization)
- Employment absorption capacity of natural resource sectors typically limited
- If Dutch Disease is prevalent, job creation in tradable manufacturing, service and agriculture becomes difficult (lack of competitiveness)
- Only good news: the spending or wealth "effect" of commodities boom typically helps non-tradable service sectors create jobs (restaurants, tourism, retail trade, communication services, domestic transports, etc.)
- But two questions arise:
 - Can the non-tradable service sector, which tends to blossom, offer good quality jobs? Jobs that lift people out of poverty and vulnerability?
 - Can poverty decline quickly when wages are high and productivity low?
 - How can Dutch disease be avoided so jobs in tradable sectors can be promoted?

UNDERNEATH THE JOB DEBATE, "WHAT TO SPECIALIZE ON"?

- Traditional Dutch Disease argument tradable manufacturing suffers
- New evidence: tradable service also potential victim of Dutch Disease (Diop & De Melo 2012)
- Debate on quality of specialization
 - Being specialized is natural resource only, not good for obvious reasons
 - Huge literature highlighting evidence of resource curse
 - Interesting strand of the literature controlling for institutional factors
 - Recent finding by Lederman and Maloney that the resource curse is not as prevalent as alluded to (Lederman and Maloney 2012)
 - Not every can and should specialize in "high tech" goods
 - Product space literature (Tree-Monkeys) => manufacturing goods at different levels of sophistication offer positive externalities to the economy (Harvard Gang)
- Reality: there is no fatality in a world of free movement of capital and labor and dynamic comparative advantage. What seems to count: good vision and good

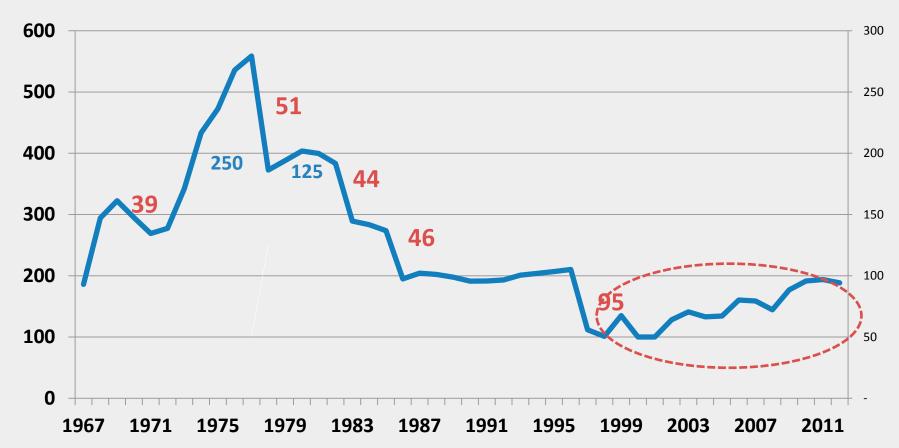
UNDERLYING THE JOB DEBATE, LONG-TERM GROWTH

- Extreme concentration of activities (e.g. large % of NR in GDP, government revenues and exports) associated with macro volatility
- Output volatility is bad for long-term growth and diversification
- For instance, Aghion et al. (2009) find negative growth effects of terms of trade volatility, measured in 5-year periods, under fixed exchange rate regimes.
- But gov. have become generally better at managing volatility
- EAP doing much better than the rest of the world in "managing" volatility



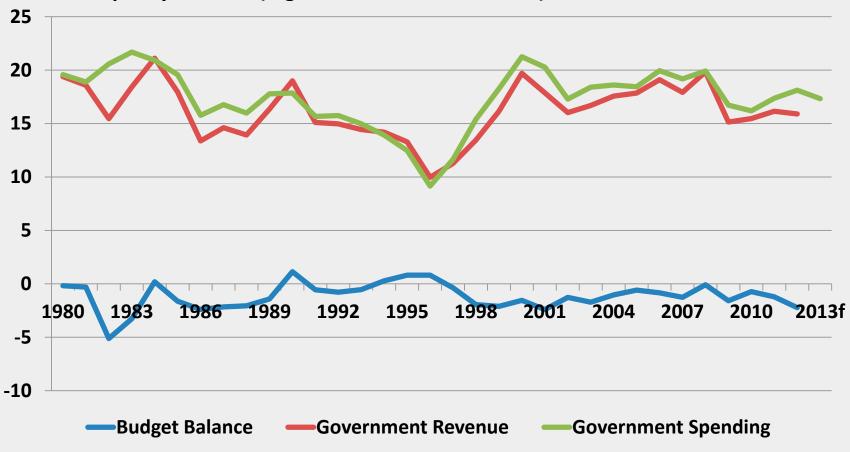
POLICY RESPONSE (1) - AVOIDING A "DUTCH DISEASE"

■Exchange rate flexibility matters (e.g. Indonesia in 1980-1996)



POLICY RESPONSE (2) - AVOIDING A DUTCH DISEASE

■ Fiscal policy matters (e.g. Indonesia in 1980-2013)



POLICY RESPONSE (3) – AVOIDING A DUTCH DISEASE

- Labor policies (to curb the natural tendency of rise in wages)
 - Curb pressure on wages
 - Encourage labor productivity growth (training, skills development)
 - Some countries have used import of workers as a way to reduce the pressure on wages (many countries in the Gulf, Malaysia)
- Investment in the country's produced endowment/ capital
 - ■To diversify and sustain long-term growth (and healthy job creation), countries need to invest heavily on HK, PK and IK to underpin future diversification
 - Human capital
 - Physical capital
 - Institutional capital (law and order, contract enforcement, property rights, market competition, inclusive institutions in general)

SHARING PROSPERITY MORE WIDELY

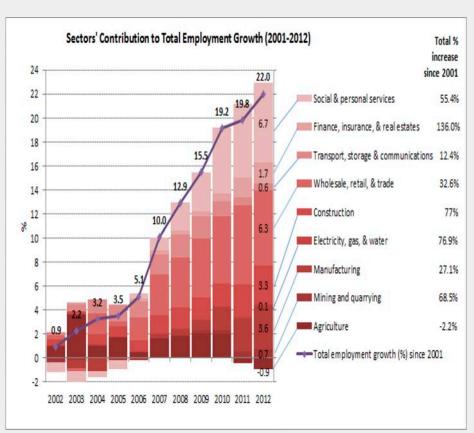
- The impact of natural resource wealth on social outcomes is largely driven by three things:
 - Job creation and whether they lift people far from pov. line
 - The contribution of natural resources to state revenues
 - Good policies and regulations key!
 - Compliance to government regulations key!
 - Capacity to enforce them key!
 - The quality of public spending
 - Spending on the right things (allocative efficiency)
 - Spending on the right things right (efficiency)
 - Assess how well spending translates into desirable social outcomes

MILLIONS OF JOB CREATED IN NON-TRADABLE SERVICE SECTOR DURING THE COMMODITIES BOOM 2003-2011

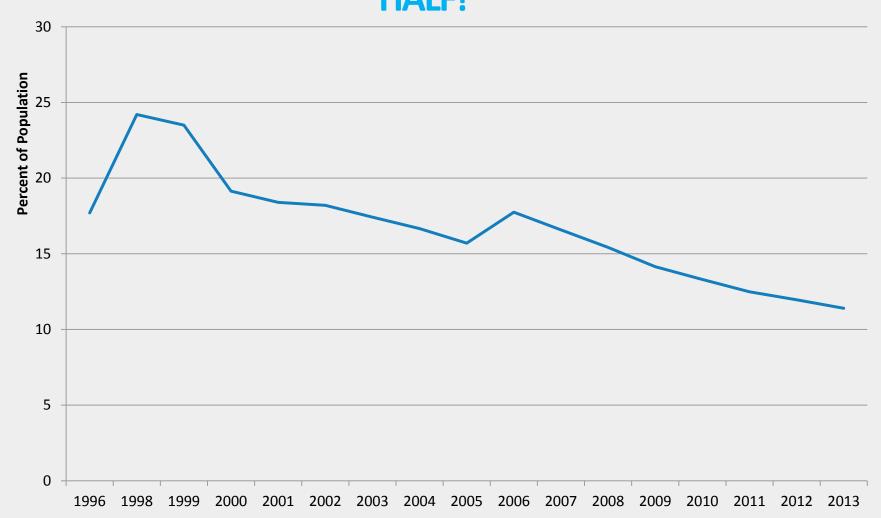
Massive jobs created in services

- Between 2001 and 2012, a total of over 20 million new jobs were created
- 82 percent of these new jobs (16.8 million) were created in services
- The industry sector created only 4 million of new jobs
- Agriculture lost almost 1 million jobs

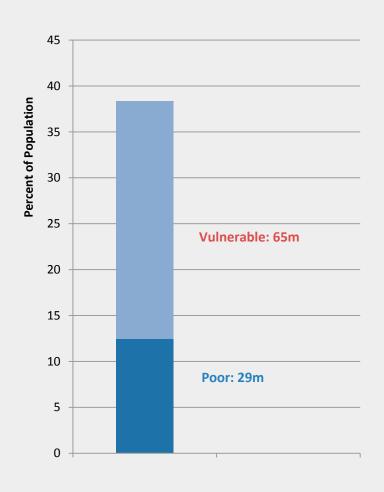
Mostly non-tradable service

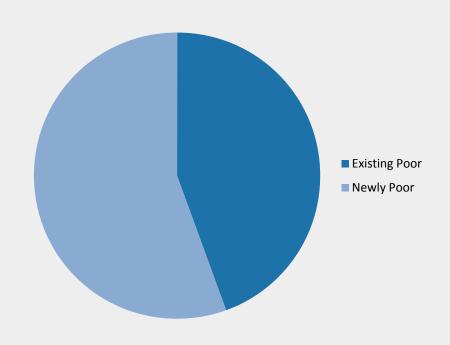


DEFINITELY HELPING REDUCING POVERTY ALMOST BY HALF!

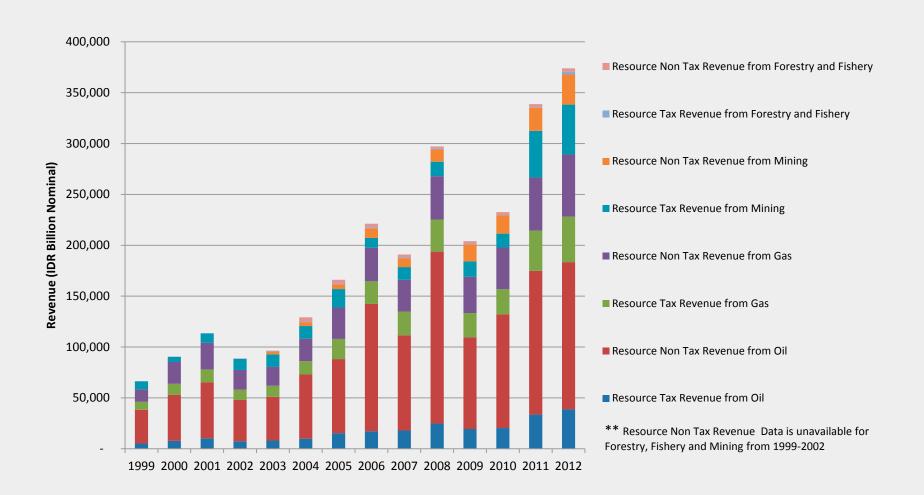


BUT THE TYPES OF JOBS CREATED LEFT WORKERS VERY CLOSE TO THE POVERTY LINE (HIGHLY VULNERABLE)

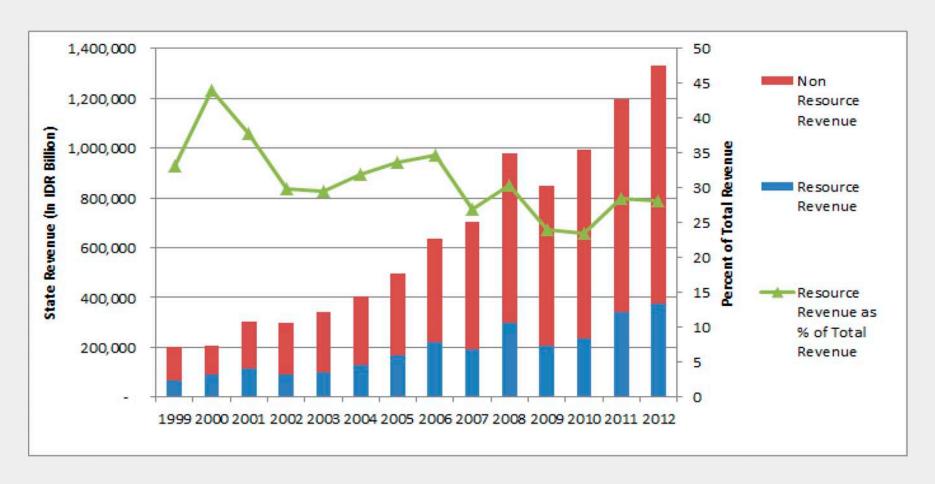




INDONESIA HAS DONE PRETTY WELL CAPTURING REVENUES FROM THE NR SECTOR ..

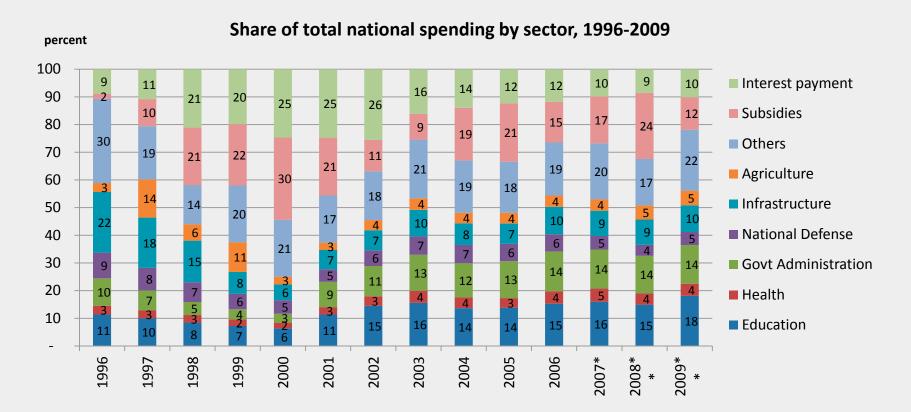


EVEN IF NON-RESOURCE REVENUES GREW FASTER THAN REVENUES FROM THE NR SECTOR (DIV.)



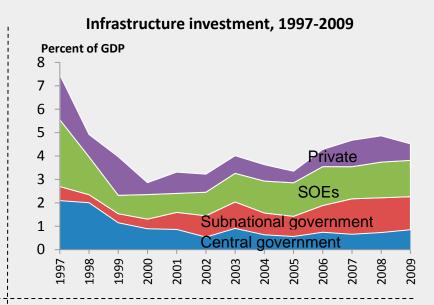
INDONESIA'S INTER-SECTORAL ALLOCATION OF SPENDING

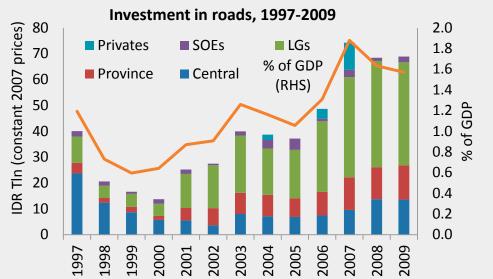
Relative to pre-crisis (1996) the share of the budget going to subsidies, education and govt. administration have increased while defense and infrastructure have declined

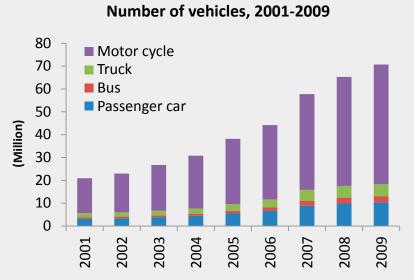


INDONESIA: INTRA-SECTORAL ALLOCATION (INFRASTRUCTURE)

- After a sharp fall in 1997/1998 infrastructure investment has only partially recovered
- Infrastructure investment (4% of GDP) has increased – but still lower than pre-1997 level
- 40% of total infrastructure investment is on roads which returned to the pre-1997 financial crisis level of 1.6 % of GDP with more on LG spending





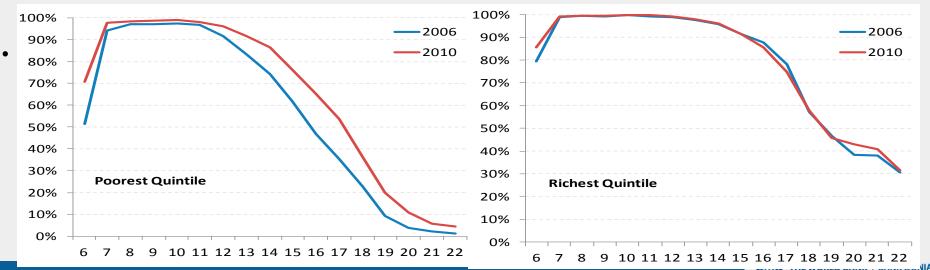


THE LIMITED SPENDING ON INFRASTRUCTURE HAS A MATERIAL IMPACT ON COMPETITIVENESS, ESP. AGRICUL

- Competitiveness at the farm-gate level is good (relative low cost of farming)
- But when the goods arrive in urban centers, they are no longer competitive!
- It is cheaper to import oranges from China to Jakarta than to chip them from Kalimantan to Jakarta!
- It is cheaper to import beef from Australia than to purchase them from Sumbawa in East Indonesia
- Upgrading the infrastructure in ports crucial
- Enhancing competition along supply chains equally crucial

THE GOVERNMENT EMPHASIS ON EDUCATION SPENDING IS CLEARLY IMPORTANT

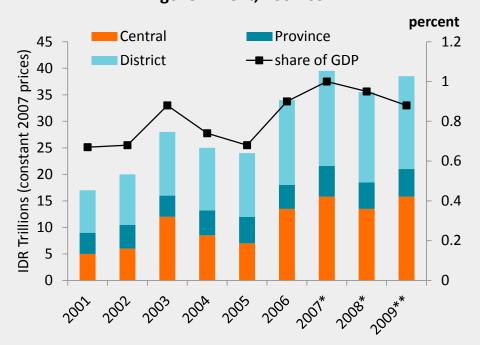
- By law, the government should dedicate at least 20% of its budget to education
- Share of education spending in the budget doubled between 2001 and 2010
- As a result, almost all kids go to school now and schools are better equipped
- There is greater equity in access to education
 - The poor are enrolling earlier and staying longer in school (% enrolled by age 6 went up from 50% to 75% and % still enrolled at age 15 increased from 60% to 75%)
- Key remaining challenge: increasing quality



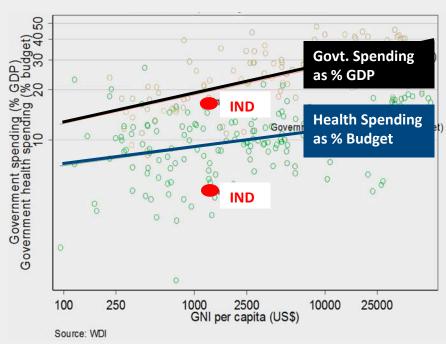
INDONESIA: INTER-SECTORAL ALLOCATION — HEALTH

- Government health expenditures are about 1 percent of GDP
- Health spending as % of GDP has stagnated in recent years
- Indonesia's public spending on health is low compared to similar countries

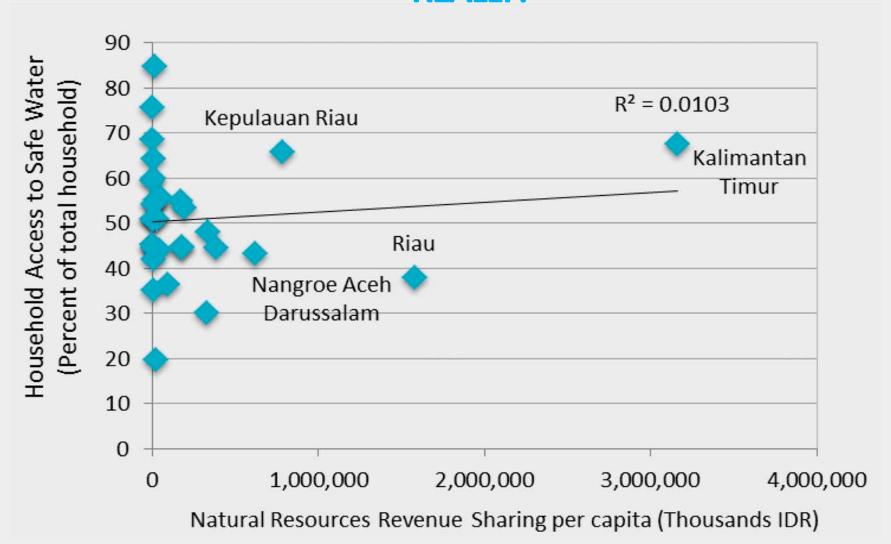
Government health expenditures by level of government, 2001-09



Government spending versus Income, 2004-06



IS LOCAL GOVERNMENT SPENDING EFFECTIVE? NOT REALLY!



ENHANCING THE CAPACITY OF LOCAL GOVERNMENT TO SPEND WELL AND ACCOUNT FOR IT IS CRUCIAL

- Quality of spending is not only about money
- It's also about enhancing budget execution
- It's also about putting in place accountability mechanisms that force everyone to do the right thing (e.g. reining in teacher absenteeism)!