

Today's Presentation

- Notable Findings
- •Questions Concerning Bilateral Trade
- Data Sources
- •Energy and Fuel Trade
- •Minerals Trade
- •Trends and Implications

Notable findings

- Since 2000, energy and minerals have become a larger portion of North Korean exports and a smaller portion of imports.
- In 2009, energy comprised 17% of official DPRK imports from the PRC and 33% of exports by value.
- Whereas the DPRK is a net importer of PRC crude oil and oil products, it became a net exporter of electricity and coal to China in 2003.
- Between 2000 and 2009 the value of North Korean minerals exports to China increased by an average annual growth rate of 53%.
- North Korean mineral and electricity exports are sold at discounted prices; on the other hand Chinese bituminous coal, crude oil, and oil product are sold to North Korea at premium prices.
- North Korea is a net exporter of both energy and financial resources in its trade with China.

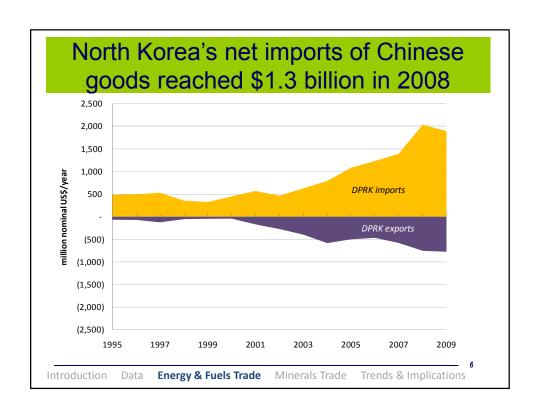
Introduction Data Energy & Fuels Trade Minerals Trade Trends & Implications

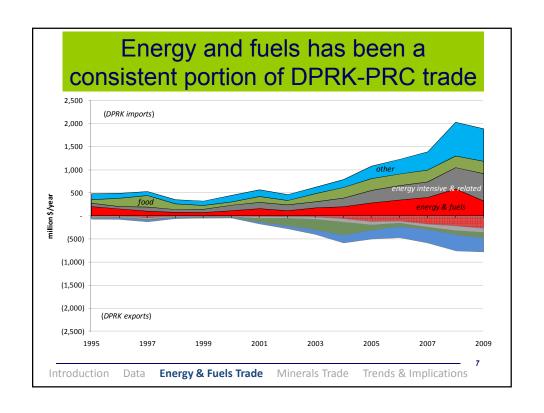
This presentation will address five questions on DPRK energy trade with China

- What is the value and quantity of energy and minerals trade between North Korea and China?
- How does each country price energy and minerals exports relative to China's other trading partners?
- How are goods moving between China and North Korea?
- What type of minerals is China importing from North Korea?
- What do trade data indicate about national policy and the domestic energy situation?

Direct DPRK data are elusive

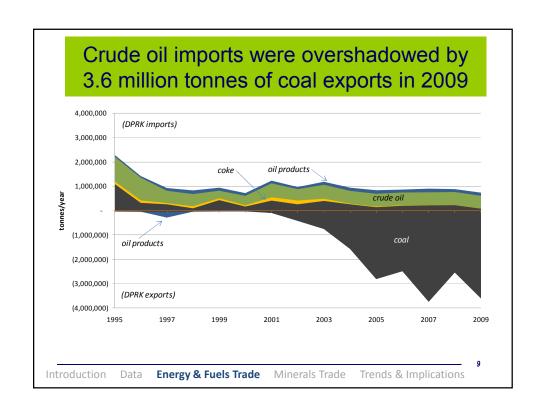
- •North Korean trade data are covered in the UN International Commodity Trade Database and on a fairly detailed level in Chinese Customs Statistics Yearbooks.
- •This presentation reviews data compiled by the China Customs Bureau.
- •Bilateral trade data from China Customs were classified under "Other Asia, N.E.S" from August-November, 2009.
- •Trade value data are in nominal dollars according to current official exchange rates.

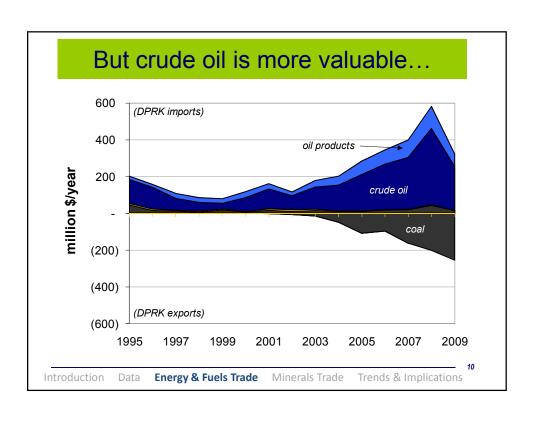


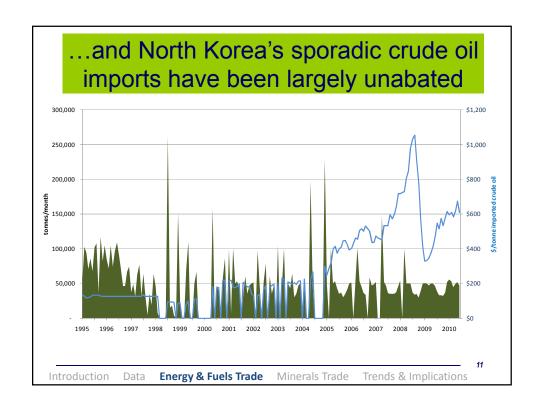


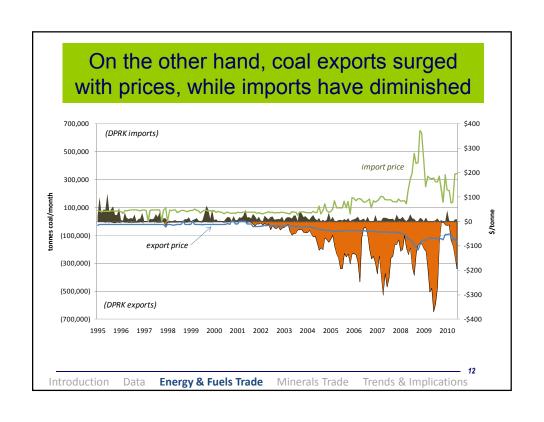
In 2009, energy and fuels was the single largest official DPRK-PRC trade category

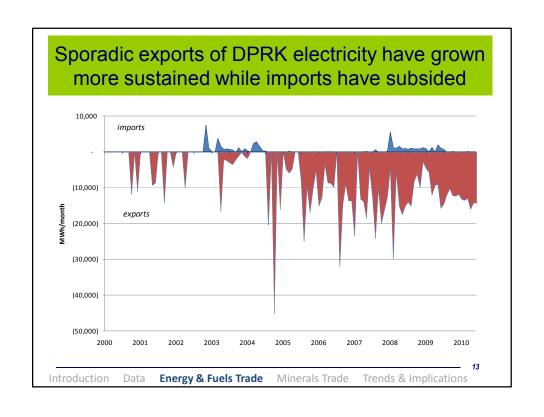
	DPRK Imports			DPRK Exports		
	Commodity	Value (million \$)		Commodity	Value (million \$)	
1	Energy & fuels	\$	327	Energy & fuels	\$	259
2	Machinery	\$	160	Ores, slag, ash	\$	140
3	Electrical machinery	\$	132	Woven apparel	\$	93
4	Vehicles, not railway	\$	103	Iron and steel	\$	73
5	Knit apparel	\$	94	Fish and seafood	\$	57
6	Plastic	\$	75	Salt; sulfur; earth, stone	\$	29
7	Iron and steel	\$	68	Zinc & articles thereof	\$	20
8	Manmade filament, fabric	\$	67	Inorg chem; rare earth mt	\$	16
9	Cereals	\$	55	Edible fruit and nuts	\$	16
10	Iron/steel products	\$	51	Aluminum	\$	13
	Total Imports	\$	1,891	Total Exports	\$	777

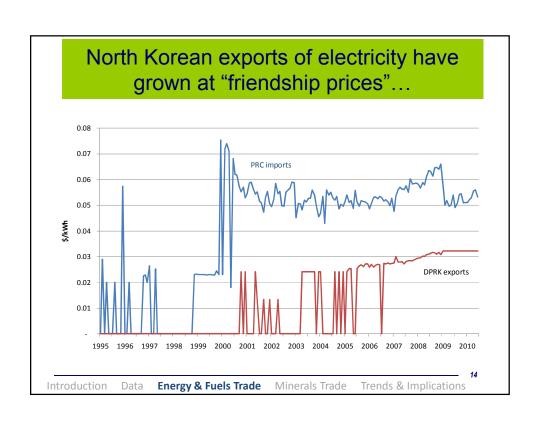


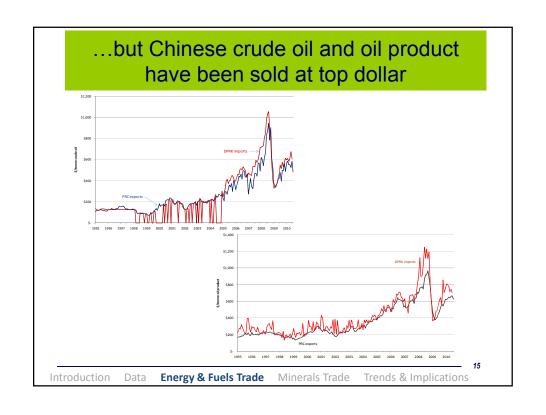


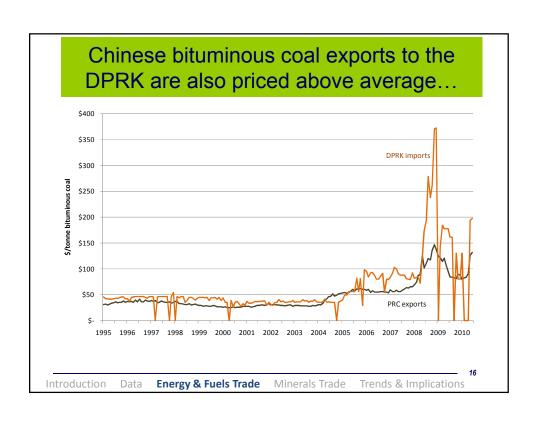


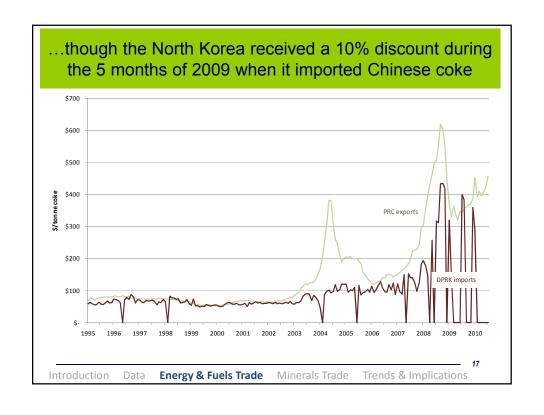


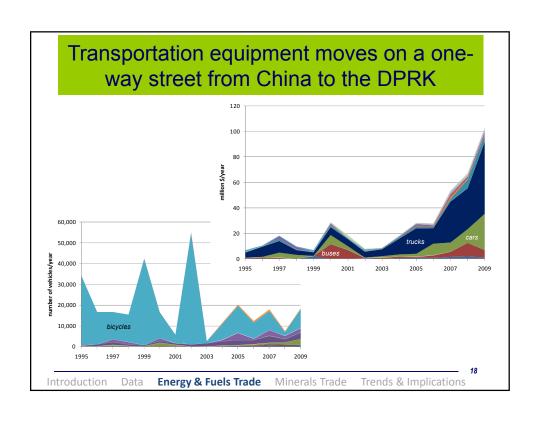


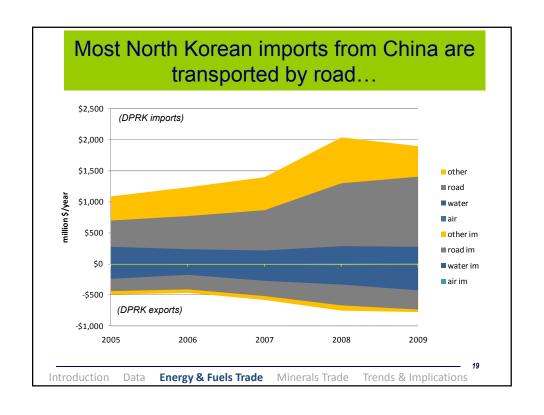


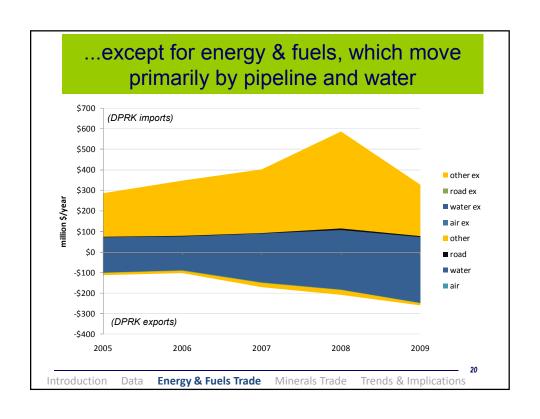






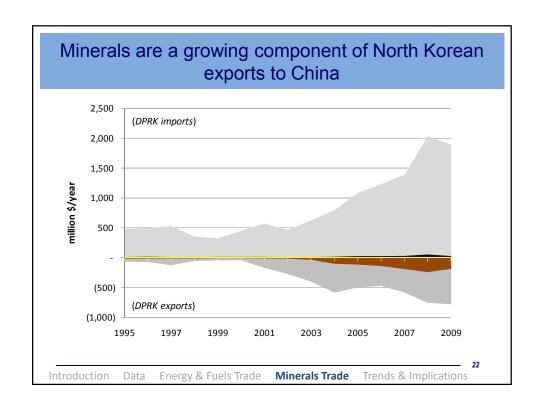


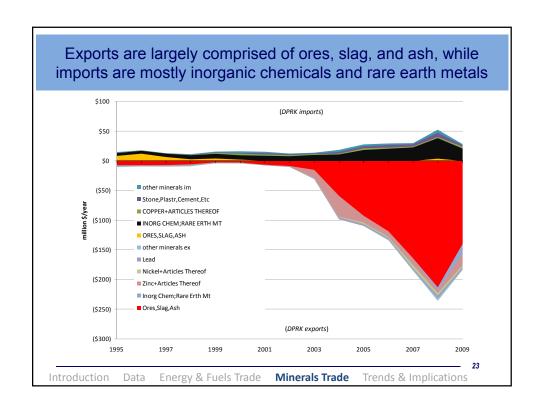


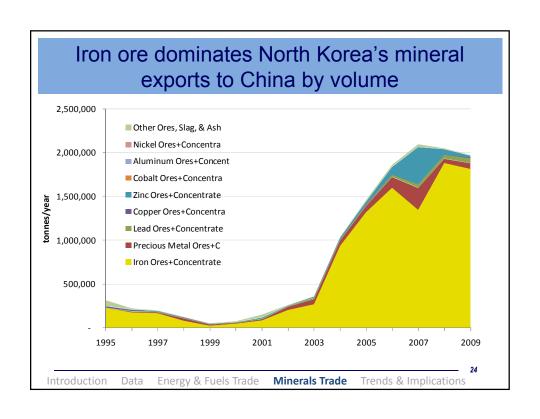


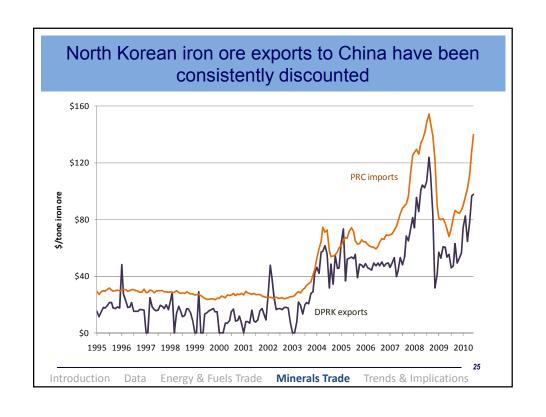
Minerals emerged as the largest DPRK export category in the first half of 2010

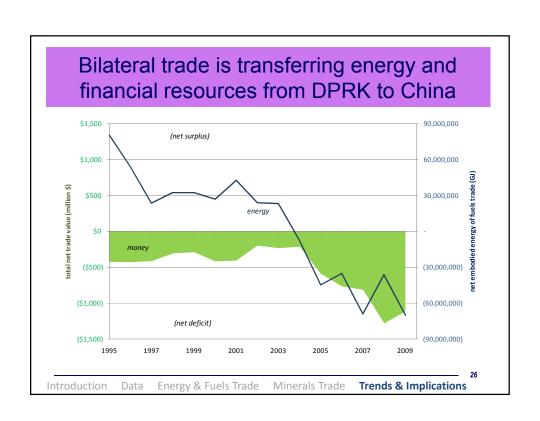
	DPRK Imports			DPRK Exports		
	Commodity	Valu	e ion \$)	Commodity	Value (million \$)	
1	Energy & fuels	\$	257	Ores, Slag, Ash	92	
2	Machinery	\$	76	Energy & fuels	72	
3	Vehicles, Not Railway	\$	68	Iron And Steel	45	
4	Electrical Machinery	\$	68	Woven Apparel	43	
5	Iron And Steel	\$	39	Zinc+Articles Thereof	16	
6	Plastic	\$	32	Fish And Seafood	16	
7	Manmade Filament, Fabric	\$	26	Salt;Sulfur;Earth,Stone	14	
8	Iron/Steel Products	\$	23	Electrical Machinery	11	
9	Cereals	\$	23	Inorg Chem;Rare Erth Mt	8	
10	Manmade Staple Fibers	\$	23	Knit Apparel	7	
	Total Imports	\$	939	Total Exports	348	











These 'mirror statistics' have implications for DPRK energy and bilateral relations

- DPRK-PRC trade deficit surged to its highest point in 2008 (\$1.3 billion), at the same time the value of the energy-trade deficit rose to its highest point (\$378 million).
- Expanding coal, electricity, and minerals exports may reflect surplus capacity, dilapidated transmission infrastructure, and/or desperation for hard currency.
- Asymmetrical energy export pricing suggests an unbalanced alliance.
- Simultaneously increasing electricity exports and electrical generator equipment imports suggests the need for grid updating and improvement.
- North Korea's net export of both energy and money in its trade with China suggests increasing reliance on resource extraction for economic survival.

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Thank you!

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