# 2008 ASPO-USA Peak Oil Conference Proceedings



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#### 2008 SACRAMENTO PEAK OIL CONFERENCE



September 21-23 · Hyatt Regency Sacramento California



# PEAK OIL: Macro Investment Themes

Jim Puplava September 21, 2008

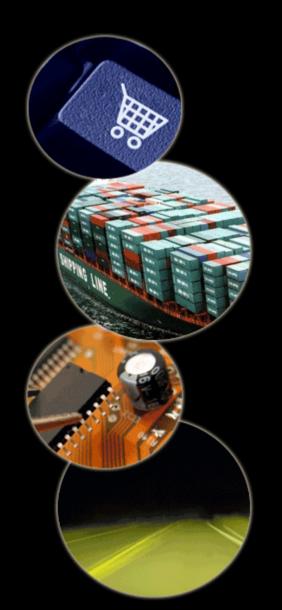








## PEAK OIL MACRO THEMES



Death of the Consumption Society

Reverse Globalization

■The "Gorilla Game"

■The Big Unknown

#### DEATH OF CONSUMPTION ECONOMY

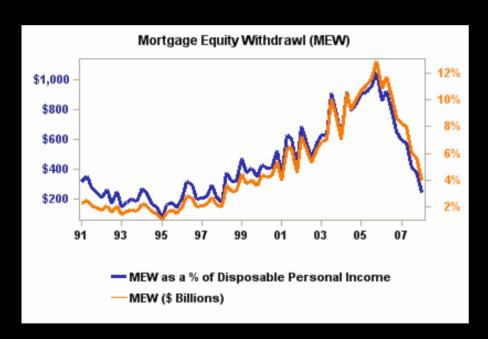


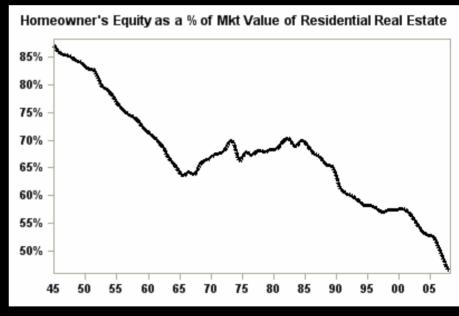
- Taxes & Inflation
  - Rising Taxes
  - Rising Inflation
  - Negative Savings
  - Rising Debt Levels

Source: Bureau of Economic Analysis

#### DEATH OF CONSUMPTION ECONOMY

#### THE LAST STRAW





Source: Federal Reserve Board

Source: Federal Reserve Board Flow of Funds

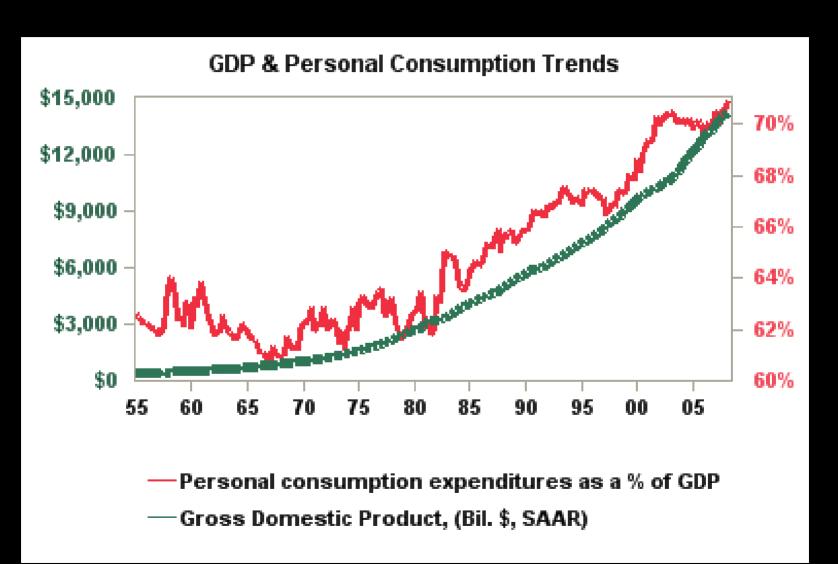
#### DEATH OF CONSUMPTION ECONOMY

#### SOCIAL SECURITY WAGE BASE

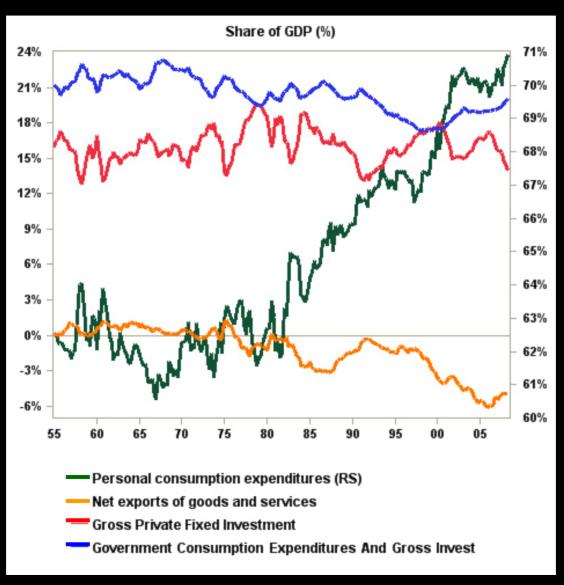


Source: "Contribution and Benefit Base," Social Security Administration

## CONSUMPTION AND GDP



#### THE CONSUMPTION-ORIENTED ECONOMY



Source: Bureau of Economic Analysis

# REVERSE GLOBALIZATION

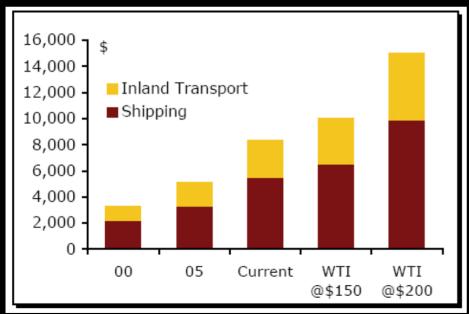


### REVERSE GLOBALIZATION



- Cost of Moving Goods Key Variable
- Last 3 Years:

\$1 Oil  $\uparrow$  = 1% Rise in Transport Costs



Source: Jeff Rubin & Benjamin Tal, "Will Soaring Trade Costs Reverse Globalization?," CIBC World Markets StrategEcon, 5/27/2008, Chart 2

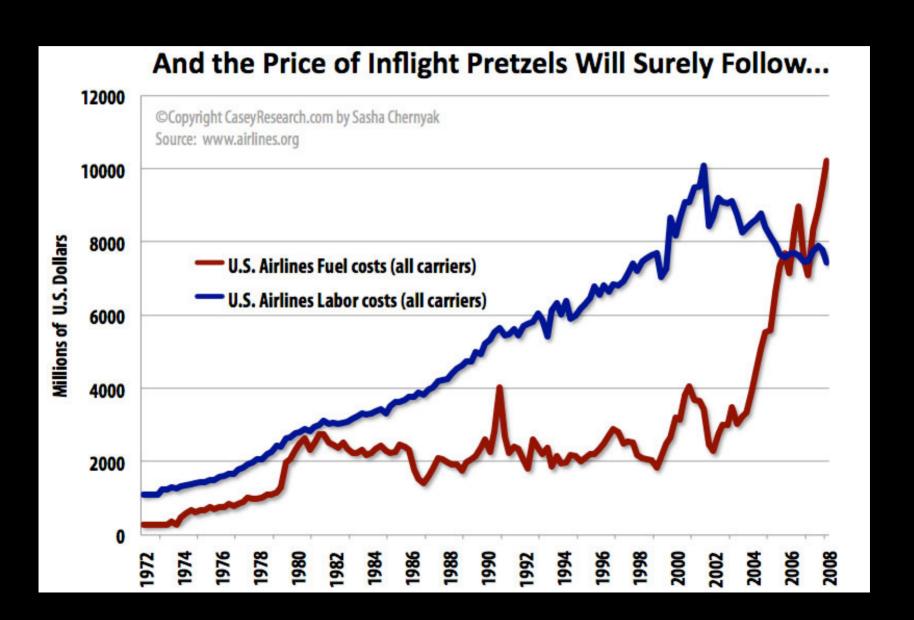
#### China to North America 4 Weeks

Total Cost of Transporting a 40'
Container from Shanghai to
US East Coast

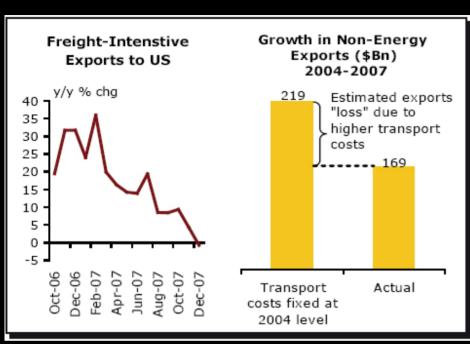
YEAR	COST
2000	\$3,000
2008	\$8,000

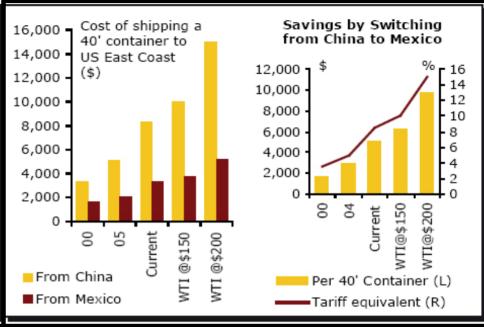
\$200 Oil = \$15,000

#### AIR TRANSPORTATION COSTS



#### SHIFTING INTERNATIONAL TRADE DYNAMICS

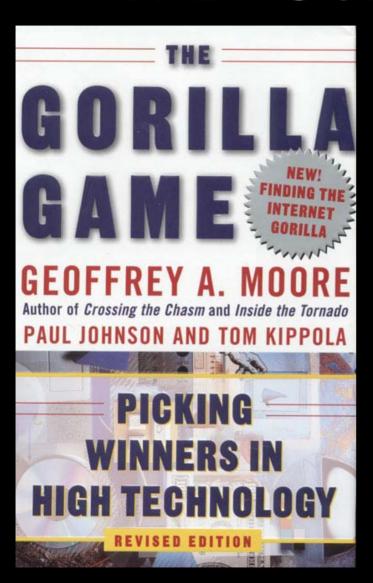




Source: US Census Bureau, Golisticsmgnt, De 2007, CIBCWM; as cited in Jeff Rubin & Benjamin Tal, "Will Soaring Trade Costs Reverse Globalization?," CIBC World Markets StrategEcon, 5/27/2008, Charts 7 & 8

- Altering Wage Differentials
- Capital-Intensive Manufacturing
  - \$90 Freight cost per ton of steel
- Shifting Trade Patterns
  - ◆ Interregional Trade

## THE "GORILLA GAME"



- Traditional Energy
- Alternatives
- Transportation
- Infrastructure
- Lifestyle

# THE GREAT UNKNOWN SOLVING PEAK OIL





A. Conservation

B. More Drilling

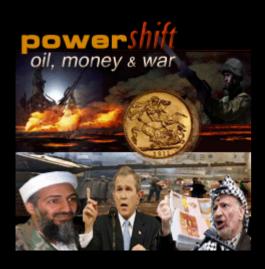
C. Alternative Energy

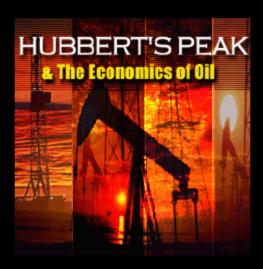
D. Manhattan Project

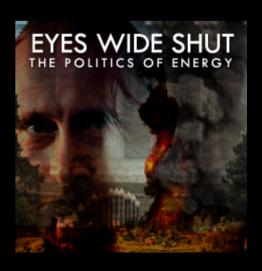
E. All of the Above

## UNKNOWN OUTCOMES

- I. Last Man Standing Richard Heinberg
- 2. Long Emergency James Kunstler
- 3. Collapse Jeremy Diamond
- 4. Silver Bullet







# THE NEW "GREAT GAME"



Source: The New Great Game by Lutz C. Kleveman

My name is Ozymandias, King of Kings, Look on my Works, ye Mighty, and despair! Nothing beside remains. Round the decay Of that colossal Wreck, boundless and bare The lone and level sands stretch far away.

—"Ozymandias" by Percy Bysshe Shelley (1817)

"My grandfather rode a camel, my father rode a camel, I drive a Mercedes, my son drives a Land Rover, his son will drive a Land Rover, but his son will ride a camel."



—Sheikh Rashid bin Saeed Al Maktoum (1912-1990) Prime Minister of United Arab Emirates 1979-1990