
NCDEX WELCOMES ALL

New Delhi

30 Oct 2010

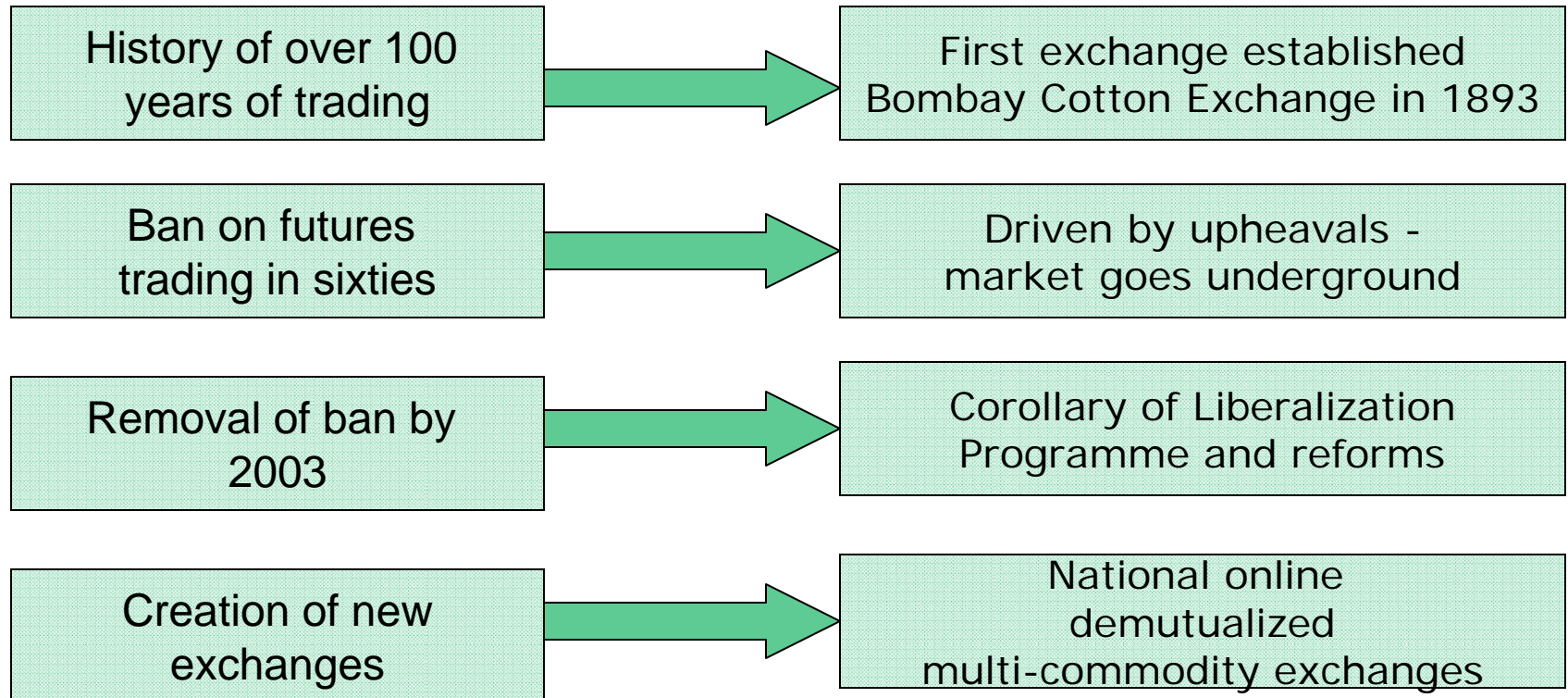
Agenda

- Overview & Evolution of Commodity Markets
- NCDEX Overview
- Financial Vs Commodity Markets
- Myths in Commodity Markets
- Opportunities in Commodity
- Future Scope & Regulatory support

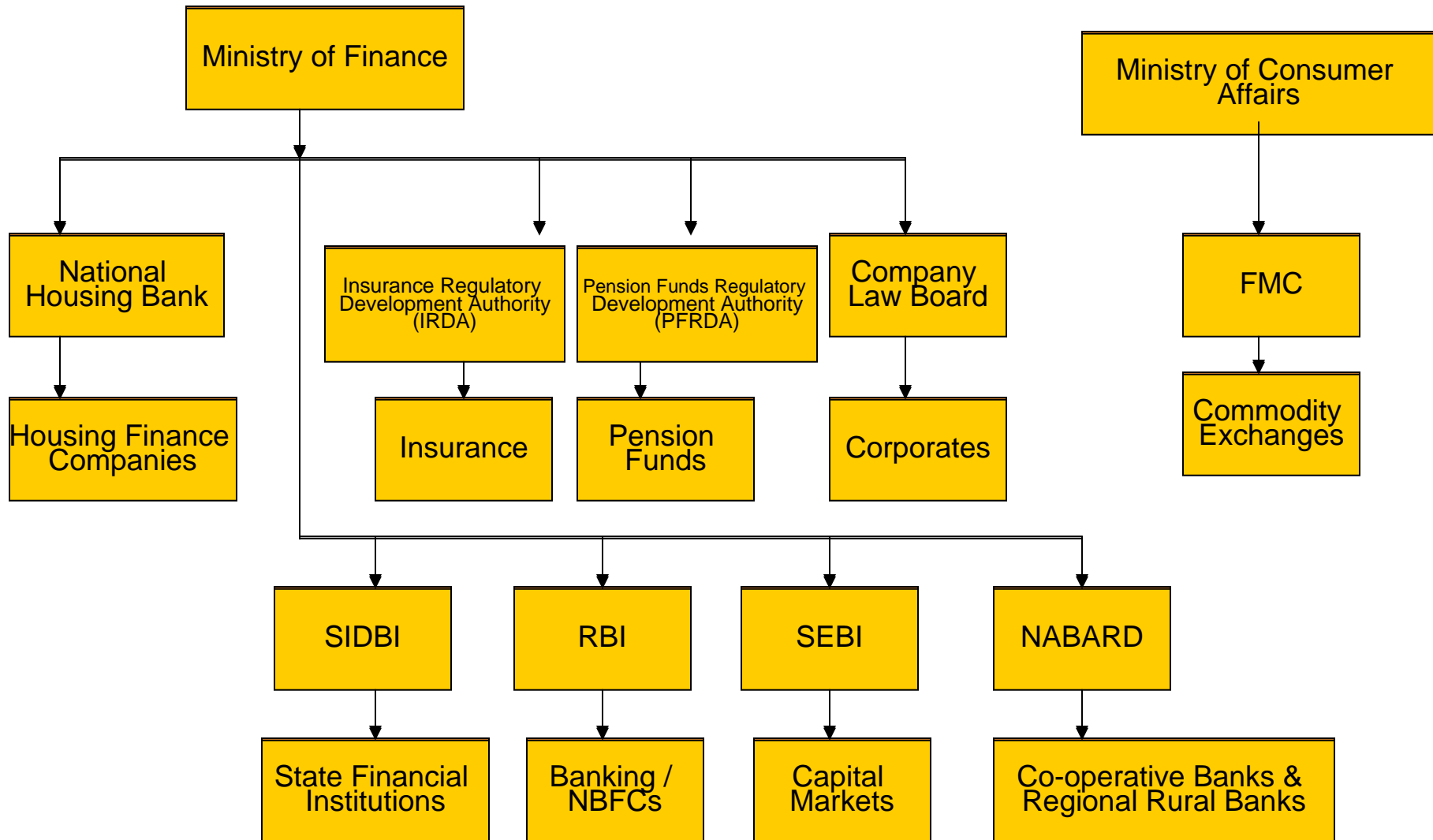
Evolution of Global Commodity Exchanges

- Development of modern futures trading began in US in early 1800s.
- The Chicago Board of Trade (CBOT) officially founded in 1848
- Earliest recorded forward contract on CBOT was on March 13, 1851
- By mid 19th century, futures markets had developed an effective mechanism for managing counter party and price risks
- New exchanges were formed in the late 19th and early 20th centuries as trading started in non-agricultural commodities

Evolution of Indian Commodity Exchanges: The Big Picture



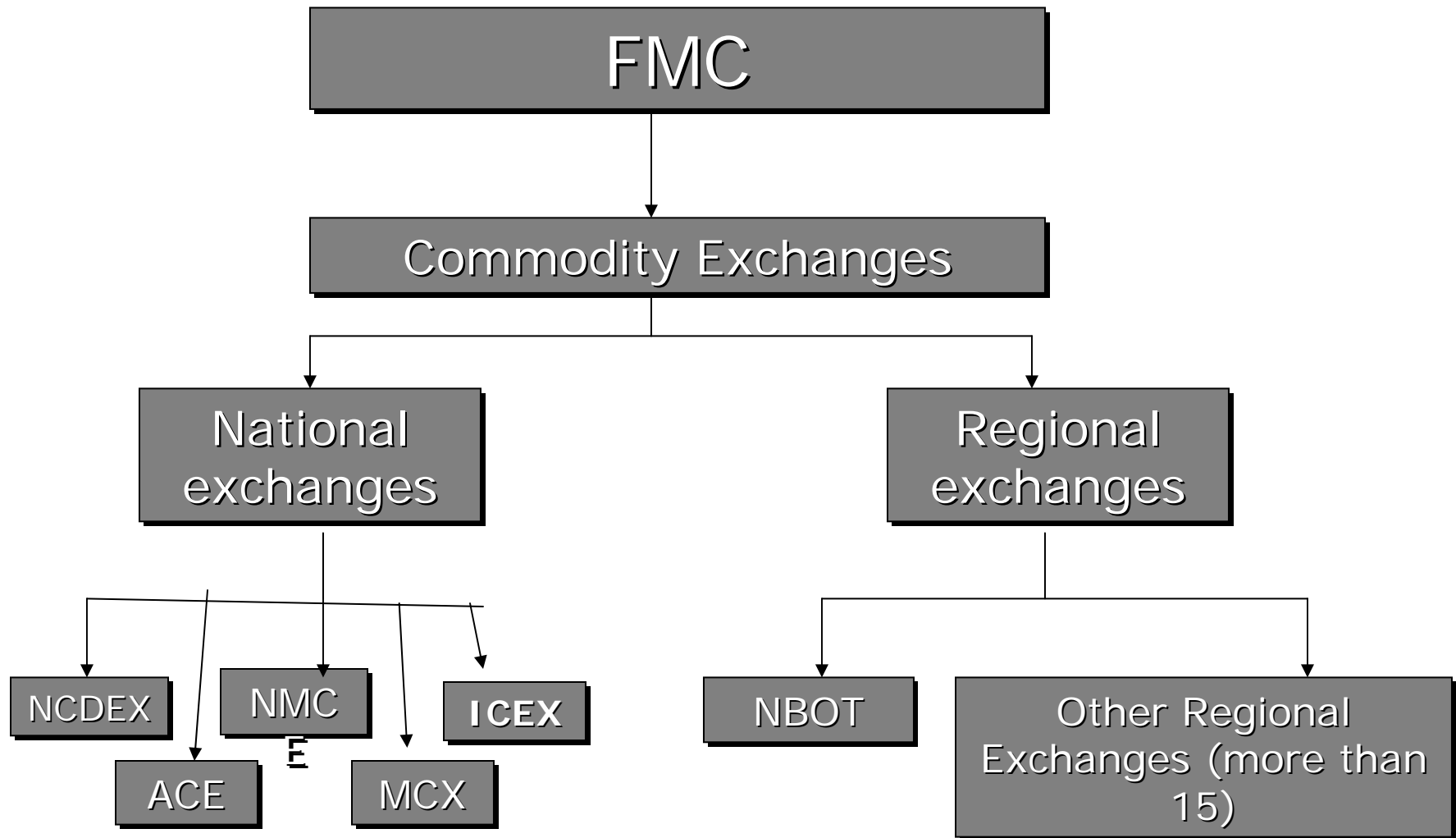
Regulatory Structure in India



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Structure of Indian Exchanges



NCDEX – Current shareholders



NABARD
15%



NSE
15%



LIC
15%



IFFCO
12%



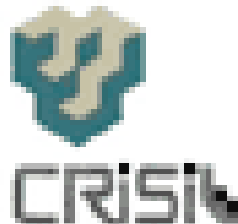
Shree Renuka
sugars
12%



PNB
8%



Canara Bank
8%



CRISIL
5%



Goldman Sachs
5%



Inter Continental
Exchange
5%

- Only institutions are our shareholders
- NCDEX fully compliant with shareholding guidelines

Products offerings

Agriculture	Metals	Energy	Others
<ul style="list-style-type: none">■ Grains■ Pulses■ Oil & Oilseeds■ Spices■ Fibres■ Plantations■ Softs■ Others	<ul style="list-style-type: none">■ Precious■ Ferrous■ Non-ferrous	<ul style="list-style-type: none">■ Crude Oil■ Natural Gas■ Coal	<ul style="list-style-type: none">■ Polymers■ CER

NCDEX Profile

**Exchange
architecture
is
vast
and dynamic**

Products

**62 (43 agri, 7 bullion
3 polymers, 4 energy, 5 metals)**

Members

1100

Terminals

~20,000 in ~700 centres

Accredited
Warehouses

760 with 5 Lakh MT capacity

Clearing banks

13

Functions of an Exchange

- Major functions of an exchange are
 - Price discovery
 - Price dissemination
 - Risk management
 - Market surveillance
 - Clearing and settlement

Key risks in commodity trading

Foreign exchange risk

Interest rate risk

Commodity price risk

Credit risk

Operational risk

Investment risk

Commodity price risks include

- Increase in purchase cost vis-à-vis commitment on sales price
- Change in value of inventory
- Counterparty risk translating into commodity price risk
- Basis risk



Commodity futures

- Base inventory hedging
- Borrowings linked to commodity prices
- Removal of counterparty risk
- Locational premium/discount

Risk Management

- A commodity Exchange manages two types of risks
 - Price risk
 - Credit risk
- The commodity exchange provides a market for all participants to manage price risk by locking prices of commodities for fixed delivery dates in advance
- The exchange also has to organise trading in such a way that risk of default (counterparty credit risk) is almost eliminated
- Various measures to manage credit risk:
 - Capital adequacy requirements
 - Margins
 - Mark to Market
 - Price bands
 - Member Margin Fund

Role of an Exchange

- Anonymous auction for price discovery
- Neutrality - conflict of interest avoided
- Transparent real time price dissemination
 - Benchmark reference price
 - Liquidity to participants
- Risk Management in a volatile market
 - Robust Clearing & Settlement systems - counter party credit risk mitigated
 - Fair, safe, orderly market - rigorous financial standards and surveillance procedures

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FINANCIAL MARKETS	COMMODITY MARKETS
RESTRICTED TO INDIAN MARKETS	RELATED TO INTERNATIONAL MARKETS
BALANCE SHEET, UPCOMING PROJECTS, AUDITED RESULTS, RATIOS	PRODUCTION, CONSUMPTION, EXPORT, IMPORT, TAXATION, POLICY
FMCG, BANKING, OIL& GAS, POWER	AGRI, BULLION, FERROUS, ENERGY
OPTIONS AND INDEX TRADING IS ALLOWED	RESTRICTED
DELIVERY IN ELECTRONIC FORM	DEMAT & PHYSICAL FORM
PARTICIPANTS ARE LARGE – FII, BANKS, MUTUAL FUNDS, RETAIL	RETAIL , PHYSICAL INDUSTRY ONLY
SEBI	FMC
COMPANY INFORMATION IS ADV	CROP INFORMATION IS ADV

Correlation: 1997-05

Correlation Coefficients in Indian markets				
	Gold	Silver	Stocks	Bonds
Gold	1	0.55	-0.09	-0.076
Silver		1	-0.06	-0.015
Stocks			1	0.112
Bonds				1

Data: LBMA bullion prices, NSE Nifty, NSE G-Sec Index

Benefit of diversification can be seen from the
Risk Adjusted Returns

Volatility comparison – 1997-05

Average annual volatility

- Sensex or Nifty - 25-30%
 - Govt Sec Index - 5-10%
 - Gold - 12-18%
 - Silver - 15-20%
 - Cotton - 10-12%
 - Oil seeds - 15-20%
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- Commodities are less volatile compared to equity market, but more volatile as compared to G-Sec's

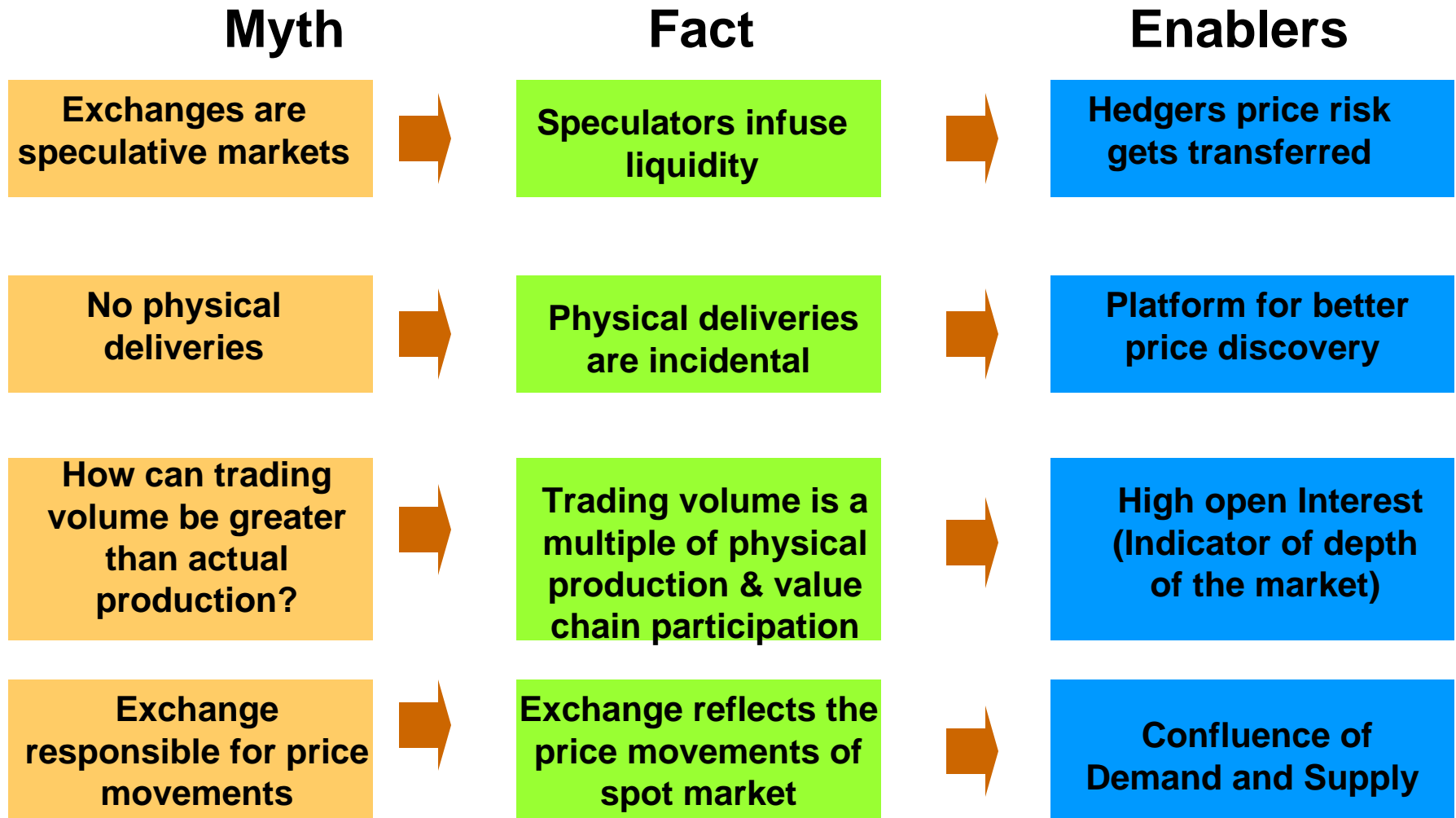
Risk-Adjusted Returns: 1997-05

Portfolio structure	Abs Cumulative Returns	Risk of portfolio	Risk Adjusted Return
100% Stock Portfolio	73.70%	24.43%	3.017
Stocks (50%) & Gold (50%) Portfolio	47.80%	14.37%	3.326
Stocks (50%) & Silver (50%) Portfolio	48.30%	13.29%	3.634
100% Gold Portfolio	21.80%		2.001
100% Silver Portfolio	22.90%		1.742
100% Bonds Portfolio	25.20%	7.92%	3.182
Bonds (50%) & Gold (50%) Portfolio	23.50%	8.79%	2.673
Bonds (50%) & Silver (50%) Portfolio	24.00%	6.58%	3.647

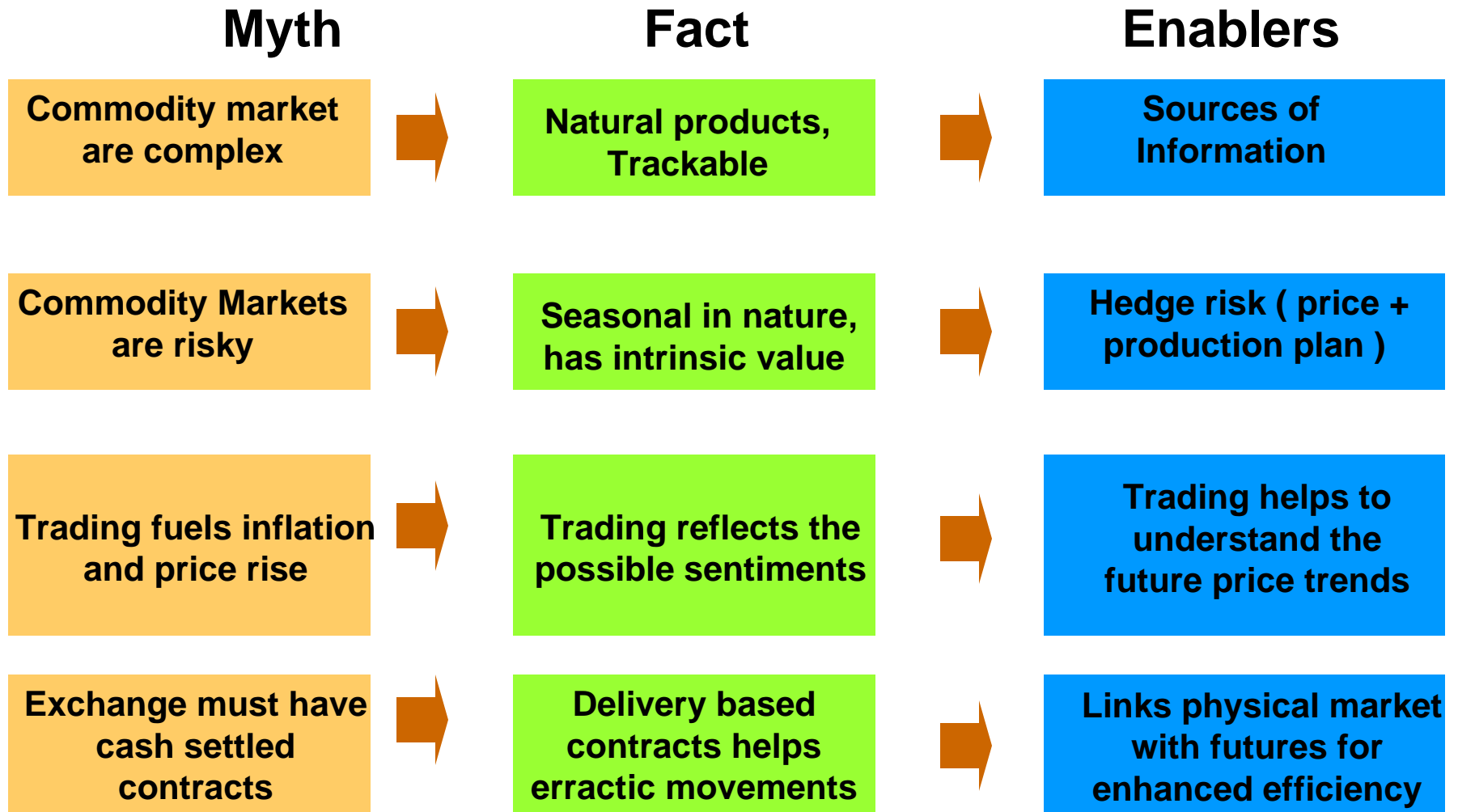
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Myths about Commodity Exchanges



Myths about Commodity Exchanges



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Factors affecting price of a commodity

- **Some of the important factors affecting price are**
 - Production
 - Consumption patterns
 - Carry over stock
 - Expected demand
 - Imports and exports
 - Government policies
 - Economic condition
(Rate of Growth, Inflation, Interest Rate etc.)

Trading Strategies

- Hedging
- Arbitrage
 - Cash & Carry Arbitrage
 - Inter Exchange Arbitrage
 - Inter Commodity Arbitrage
- Calendar Spreads
 - Bull Spread
 - Bear Spread
- Speculation
- Jobbing

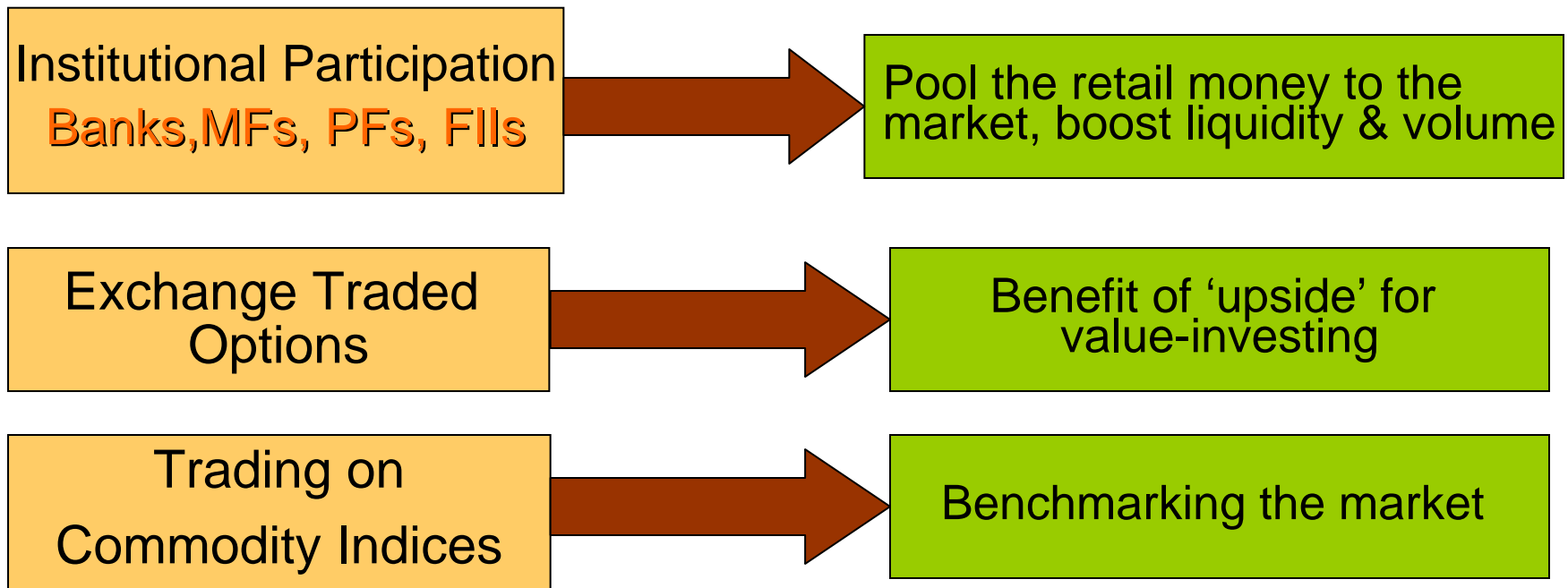
Portfolio diversification & value investing

- Low co-relation between stocks/bonds and the commodities market
 - Better diversification of portfolio
- Commodity markets are less risky compared with stock market.
 - Reduces risks in a diversified portfolio

Agenda

- Overview
- Arbitrage Opportunities
- Hedging Opportunities
- Investment Opportunities
- Institutional Participation
- Future Scope / Regulatory support

Regulatory Facilitation



Banks - Present Scenario

- Not allowed to trade on commodity exchange
- Not allowed to do margin financing against commodities
- Bank lending to commodities remained very low
 - **Commodity a 'sensitive sector'**
 - **Not under priority sector lending**
 - **Credibility of Warehouse receipts**
 - **Reliability of the warehouse**

Involvement of Banks

- Banks as aggregators
 - Institutions with good rural presence and sufficient financial expertise and infrastructure
- Banks can hedge their agri and corporate loans
- Banks as market makers for price stabilization
 - Role similar to the role of RBI for stabilization of dollar prices
- Banks as dealers in commodity markets

FII presence

■ Benefits

- More liquidity
 - Broaden and deepen markets
- Help in the utilization of capital
- Global experiences
- Research
- Best practices

■ Issues involved

- Concentration and control over prices of crucial commodities
- Physical delivery
- Withdrawal from the country

Involvement of Mutual Funds

- Mutual Funds can bring liquidity and professional skill in the commodity market
- Mutual Funds can mobilize small savings and invest in commodities and commodity derivatives
- Easiest route for retail investment

Options and indices

- Options
 - Provides benefit of upside
 - Substitute MSP of government
 - Not allowed under FCRA
 - Need for changes in the Act
- Indices
 - Weather indices
 - Regulatory changes needed

Thanks

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