# Prospects, Potentials and Opportunities of Several Emerging Sectors of Bangladesh: Light Engineering Sector, Automobile Sector, Toy Industry and Ship Building

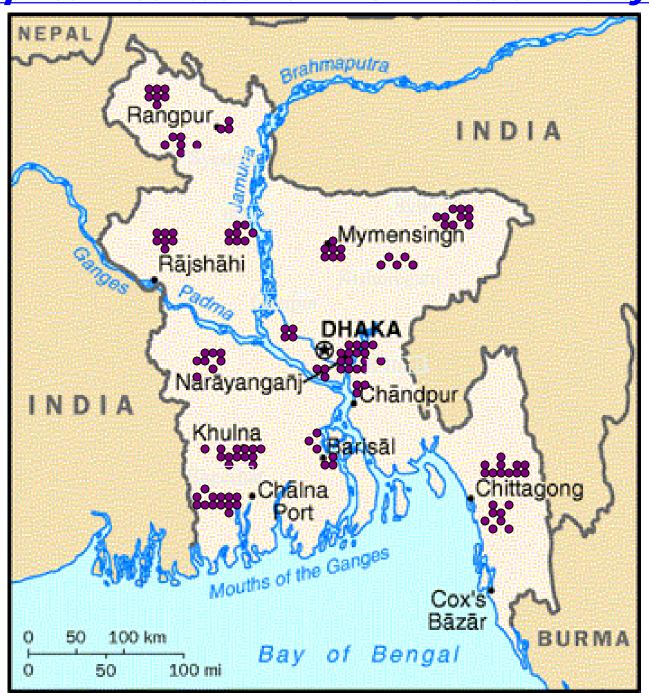


#### Light Engineering Sector of Bangladesh

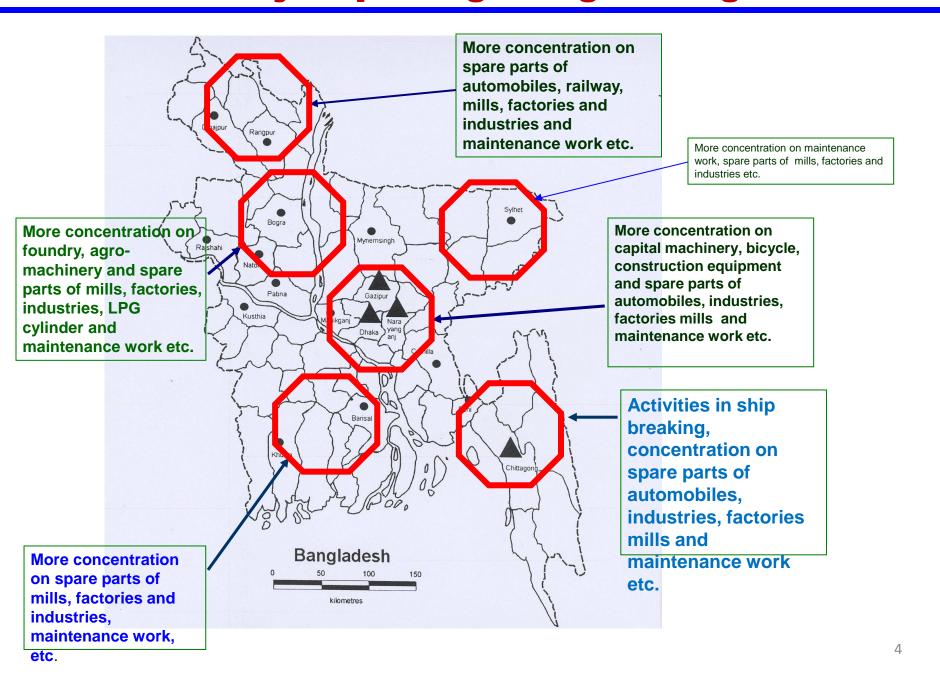




#### Geographical Distribution of LEIs: Thrust & Priority Sector



#### **Product Country Map of Light Engineering Industries**



## Mills & Industries of Various Sectors

Beneficiary
Sectors of
LES

Agriculture, Irrigation, Equipment Construction, Machinery\_

Power & Energy, Telecom, Electrical & Electronics

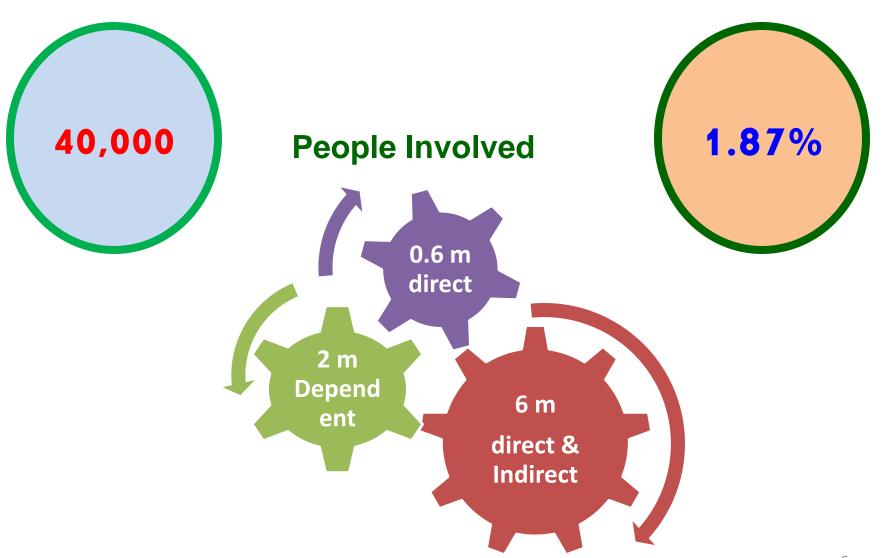
#### **Transport**

- Automobiles
- Marine Transport
- Railways
- Road Transport
- Ferry & Cargo (5)

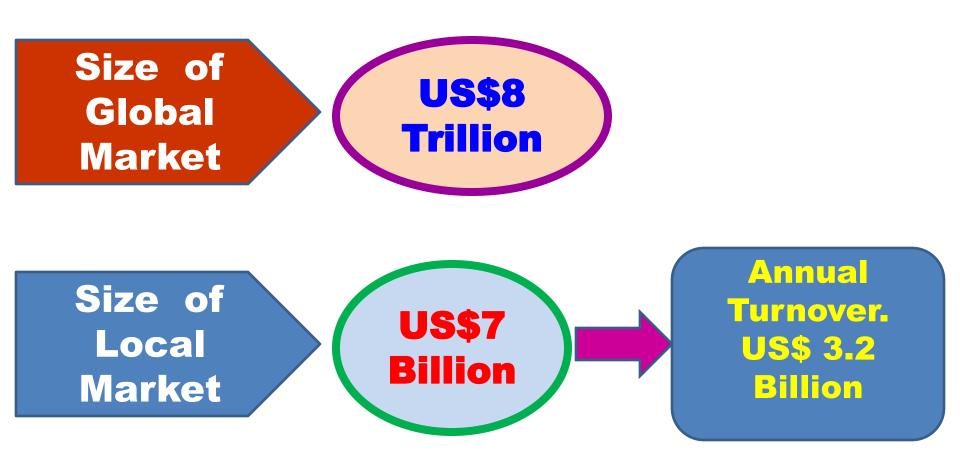
#### **Light Engineering Sector**

#### **Total Enterprises (nos)**

#### **Contribution to GDP**

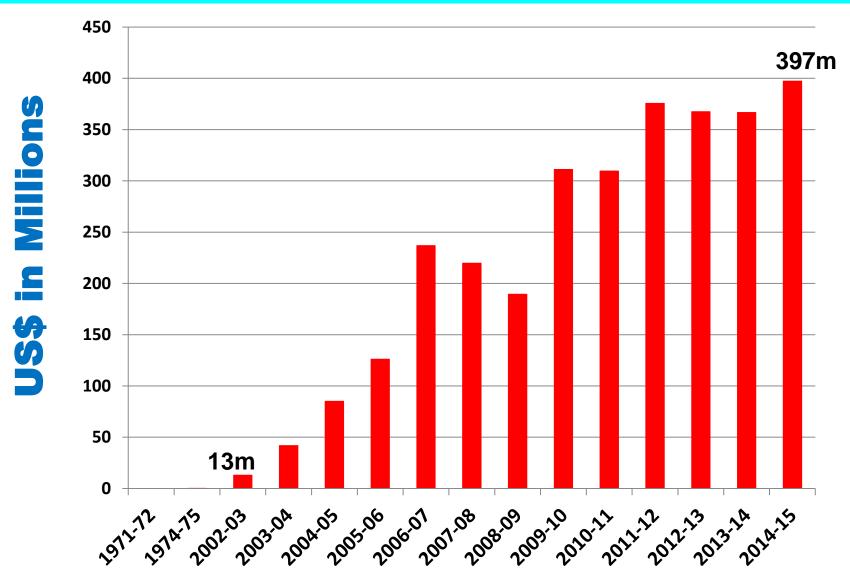


#### **Light Engineering Sector**



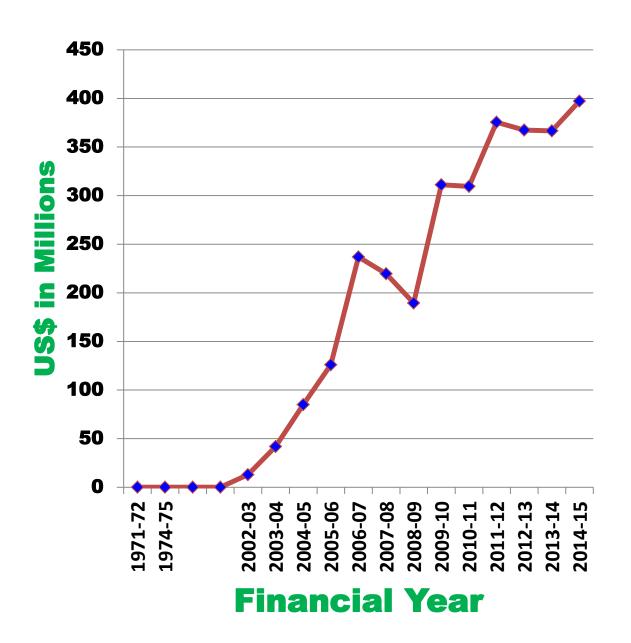
Total numbers of products of LEI: 25,250 nos

#### **Export performance of the Light Eng Sector of Bangladesh**



**Financial Year** 

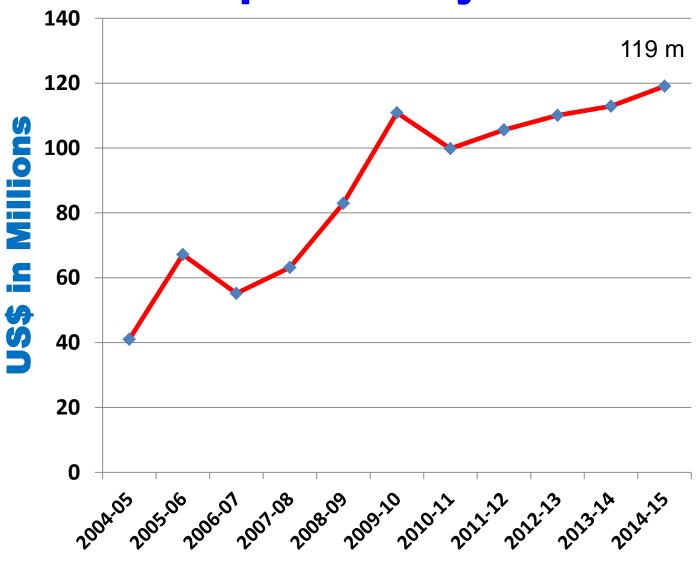
#### **Export Growth of Light Eng Products**



### **Bicycle and Spare Parts**



#### **Export of Bicycle**



**Financial Year** 

#### Automobile Sector







#### Automobile Sector



#### Agricultural Sector

#### **Power tiller Driven Reaper for Paddy/ Wheat**



#### **Agro-Machinery**

Open Drum Power Thrasher



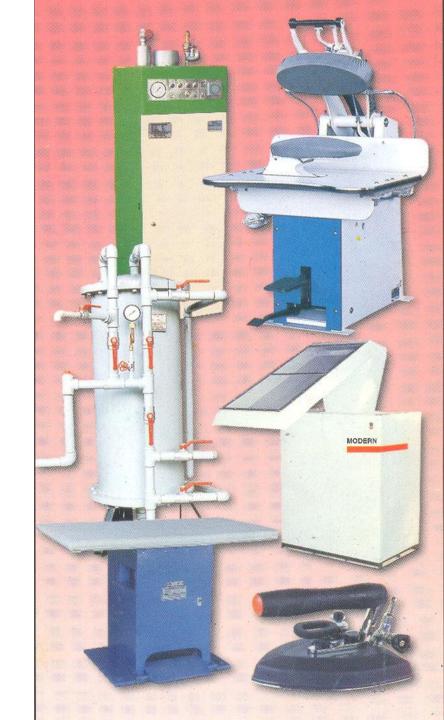


Automatic Reaper for Paddy/ Wheat

#### Garments Sector

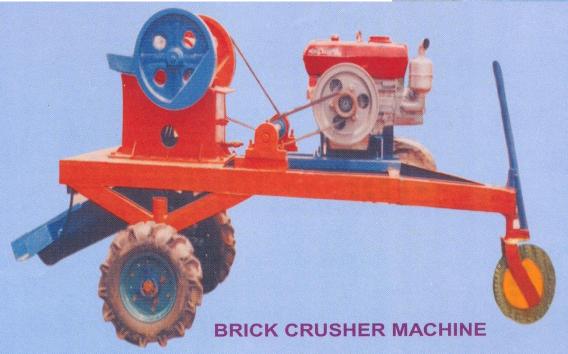
Washing Plant, Steam Boiler, Continuous Fusing Machine, Dying Plant, Finishing Press Machine, and Spare Parts, etc.

> Garments Finishing Machinery



## **Construction Machinery**







#### **Electrical Merchandise Sector**





### MICRO CONTROLLER REMOTE SWITCH

Distribution Panel

## Industrial Units

#### Water Treatment Plant





#### LOCALLY PRODUCED LOW COST LIFT

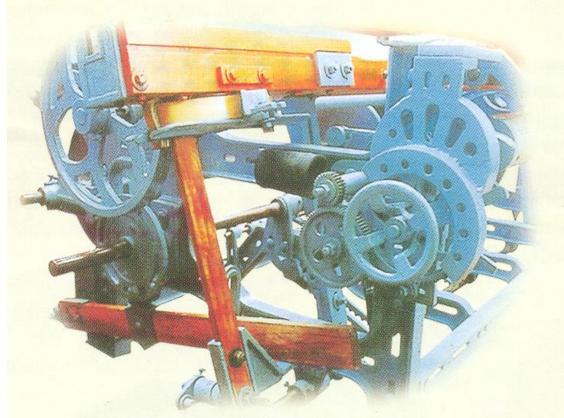




#### Textile Sector

Textile: Handloom, Power loom, Spare Parts of all Textile Machinery, Bobbin, Bracket, Carding, Die, Dye, Gear & Pinion, Liner, Pulley, Ring, Silver Can, Spinning Tubes, Spinning Can, Dobbies & Jacquards, Timing Wheel, Rubber Roller, Twisting Machine, Doubling Machine, Scroll Roller etc.

Used significantly in Tangail, Pabna, Sirajganj, Narsindi

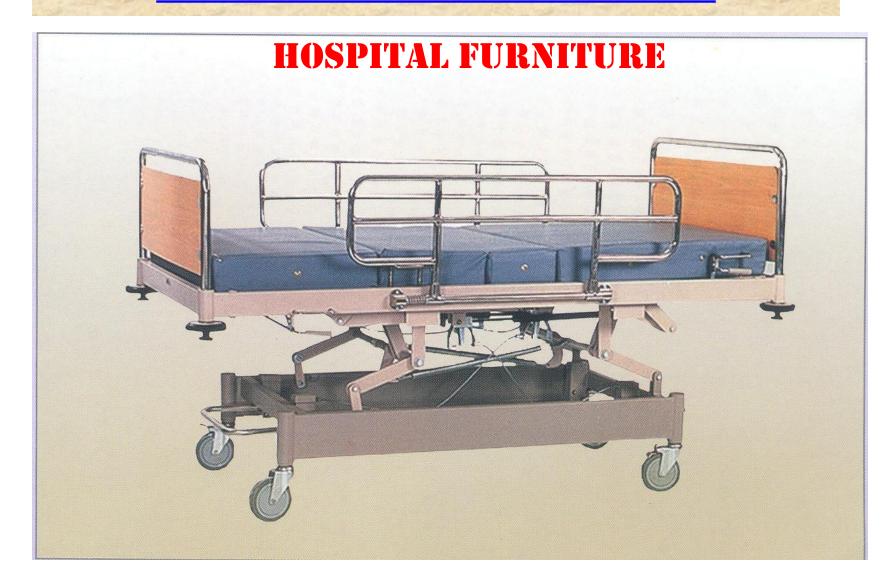


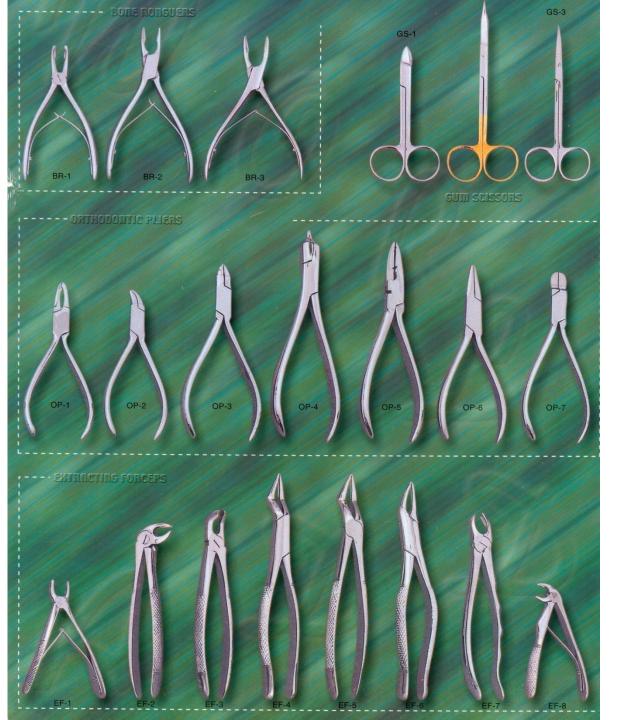


#### **Pharmaceuticals**



#### **Mechanical Furniture**





#### Surgical Instruments



#### LE Industrial Sectors: Area of Cooperation

- Steel making Industry
- Sponge Iron Making Industry
- CNC machine production industry
- Machine Tools Industry
- Ferrous & non-Ferrous Industrial Parts and products
- High powered Batteries
- Automobiles spare parts
- Railway spare parts
- Construction machinery
- Electrical & Micro Electronics Products
- Laboratory equipment industries
- Biomedical instruments, equipment & Machinery

(41 type of industries)

## Investment Needed for machinery and Technology Up gradation

#### If you invest on 1% of selected LEIs

**Investment:** 

400 Nos. x US\$ 0.25m (Average)= US\$ 100 Million

#### Result

**Profit: Production of additional Import Substitute Product and Export Products** 

= US\$ 35 million per annum





#### **Motor Cycle Industries in Bangladesh**

0.5 m People Involved

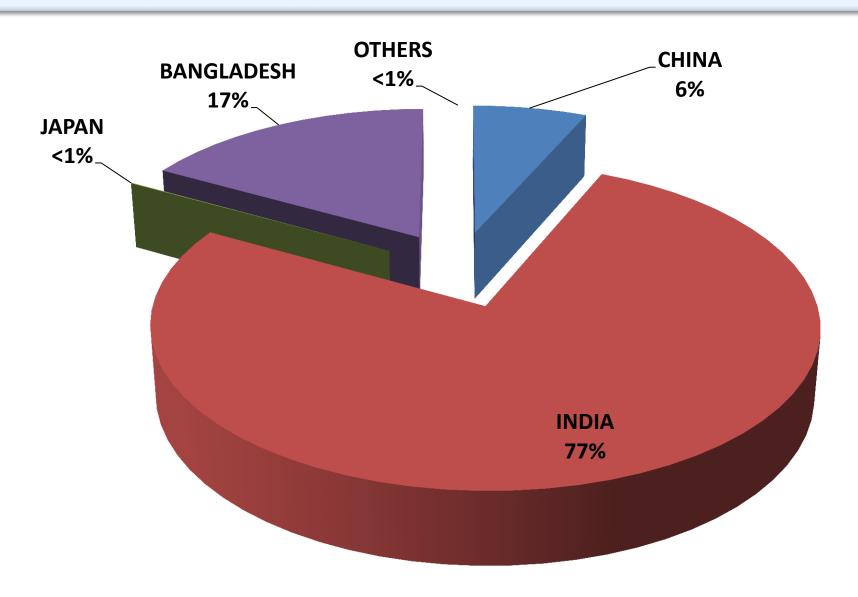
US \$ 120m industry of two companies

Walton: 200.000/ Yr

**Runner: 100.000/yr** 



#### **MARKET SHARE COUNTRYWISE 2013**



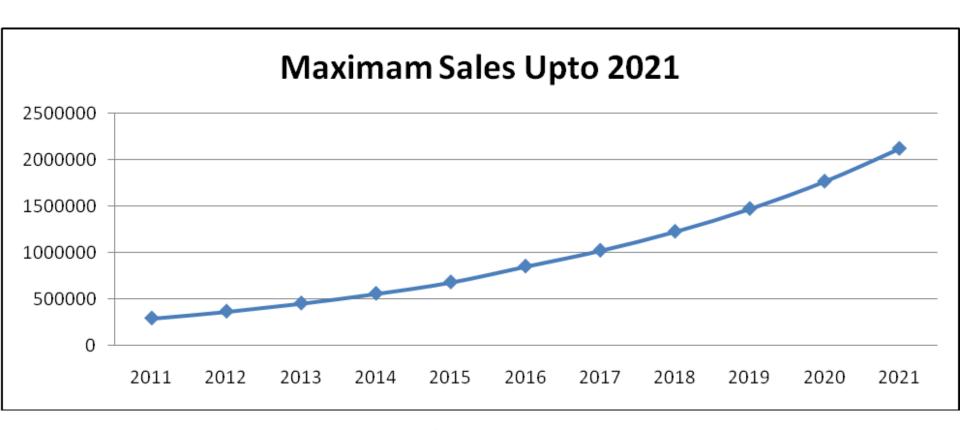


Figure: Maximum forecasted sales up to 2021.

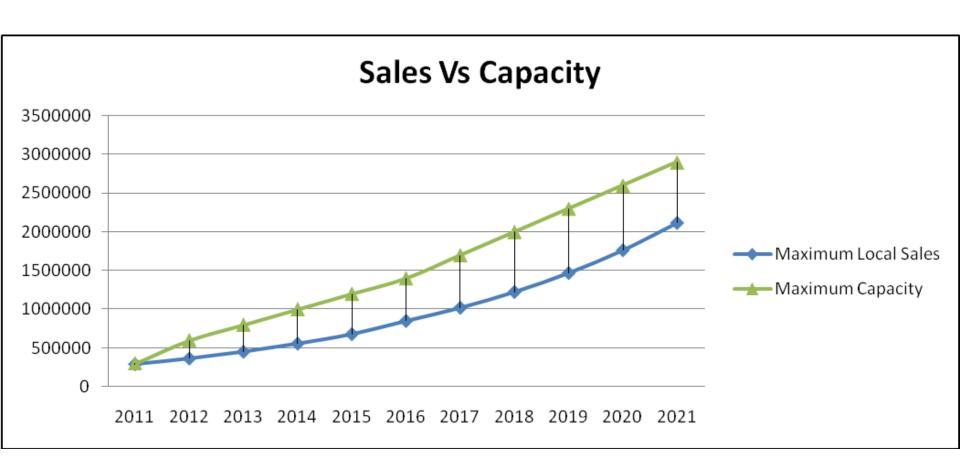


Figure: Maximum sales vs. maximum capacity up to 2021.

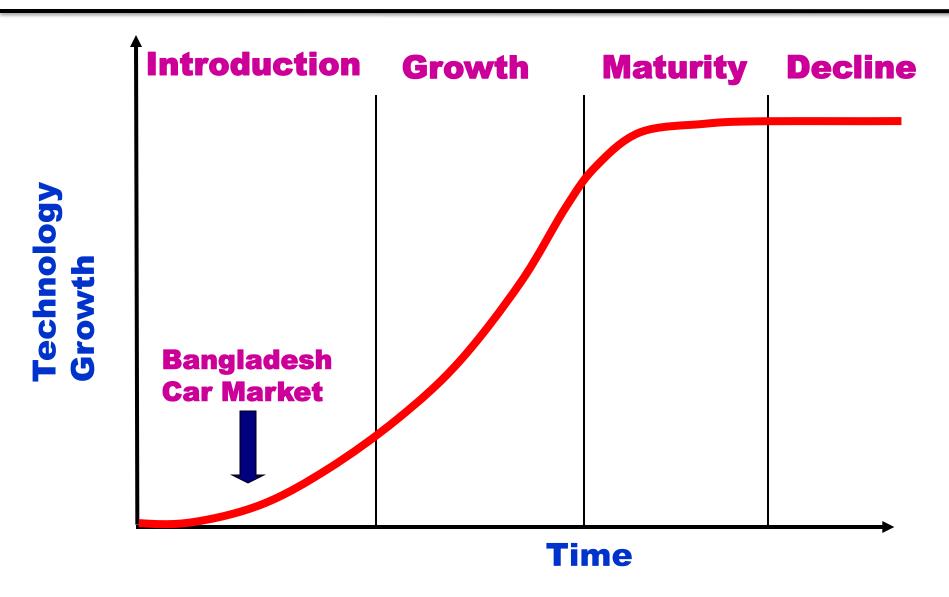
#### **New Motor cycle Policy**



#### 4 wheeler



#### **Car Production Tech Life Cycle in Bangladesh**



Bangladesh car market is being on the early introduction phase and it could be estimated to grow rapidly over the next 5 years



Major components we make for an automotive industry

#### **Some Auto Components**



- 1. Cross Tie-Rod Socket
- 2. Spindle
- 3. Spindle Knuckle
- 4. Yoke
- 5. Torque Rod End
- 6. Tube Flange
- 7. Spindle Hub
- 8. Crankshaft
- 9. Hub
- 10. Knuckle
- 11. Anchor Pin
- 12. Shift Fork
- 13. Slip Yoke
- 14. Connecting Rod Cap
- 15. Connecting Rod
- 16. Flange Yoke
- 17. Gear
- 18. Block Anchor
- 19. End Yoke
- 20. Fork Bottom Bridge
- 21. Fork Bottom Bridge

### A Potential joint venture project Automobile Industrial Town

#### **Progati Industries**



**PROGATI Industry Ltd** is doing: Pazero Zip assembly

### **BMTF**



#### Nitol with Collaboration of TATA



NITOL group is performing well in collaboration with Tata group

**Body Making and Vehicle Assembly** 



#### AFTAB AUTOMOBILES

**Japanese Bus Hino** 

Luxury AC bus: Body making & assembly cos

### **Exporting Auto Parts to Milbert Int, USA Collaboration of BEIOA, BITAC & Milbert Int, USA**



## Toy Industry of Bangladesh



#### Bangladesh is Producing Currently (100 comps)

- Non-Motorized Plastic Toys
- Motorized Toys
- Toys with electronic devices
- MEMS Toys
- Computer games for Children
- Electronic Games and Indoor Games as Commercial Enterprises

# General Types of Toy of Bangladesh







- Digital-virtual toys
- Digital-mechanical toys
- Mechanical-physical toys
- Electro-physical toys
- Physical toys

### Ship Building Industry of Bangladesh



- 200 Ship Building and Repair-yards in Bangladesh
- Internal demand: US\$ 20 B is met
- Production: 4500-6100 dwt; Value Addition: 30-40%
- Export incentive: 5%
- Ship Building is a labor intensive industry. Labors are still cheaper than China, Korea and Japan
- Small & Medium Size Global Ship Market: US\$400B. To capture 1%. 20 shipvards are required

### **Ship Building Industry**



Entrepreneurs Expect that earning of this sector would be =US\$ 1.25B per year.

In Fiscal year, 2011-12 receive US\$ 0.5B crore earning

#### Bangladesh could be next hub

- Skilled Labor availability with low labor cost
- Excellent infrastructure facilities for FDI in EPZ area
- Competitive, young skilled manpower available
- Bonded warehouse license allows for export
- Duty Draw Back and Cash Incentive facilities for export
- FDI with attractive package
- Strong Backward & Forward Linkage
- Preferential Market Access over the world
- Strong local entrepreneurial class

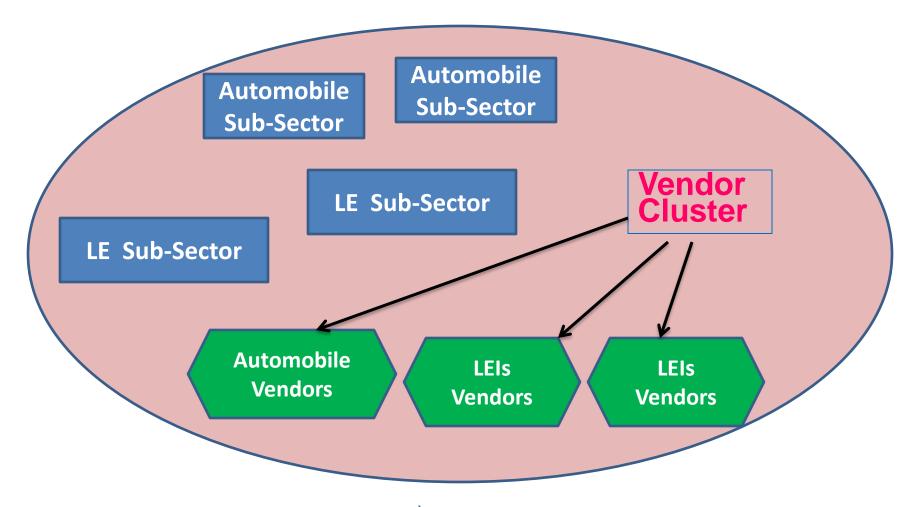
#### POTENTIALS OF BANGLADESH

- Stable Economy
- Low-cost, hardworking, skilled and trainable labour
- Geographic location: Sea and Air route
- **♣** Natural gas, coal, hardrock, limestone, fertile land
- Cost of utilities and services: Lower than other developed countries
- Tax holiday up to 7 years, cash incentive up to 20% availability of GSP and other facilities, 100% repatriation of capital and profit



#### **Special Economic Zone / Industrial Park**

## **Bangladesh Economic Zones: A New Horizon for Investment**



## Investment Opportunity with Foreign Partnership

**Technology Incubation Centre** 

**Technology Transfer Centre** 



**Technology Innovation Centre** 

LES Special Economic Zone (SEZ)





#### Duty Free Access of Bangladeshi Products

Duty Free Access -EU, Canada, Australia, New Zealand, Norway

Partial: India, Pakistan, Thailand

In Process: China, Russia, Malaysia & Tanzania, Male, Mozambic,
 Vietnam, Zambia
 & India

#### **Potentials of Bangladesh**



Bangladesh with its availability of trainable & quick learning manpower at competitive cost, availability of almost all the raw materials at a competitive cost can emerge as one of the favorite investment destinations for the automotive manufacturers.

## Government Role as Facilitator is Marvelous



## **Invest in Export Processing Zones: A Manufacturer of Global Brands**

500
Factories in EPZ:
Manufacturing Export
Products

South Korea, China, Hong Kong, Taiwan, Japan, USA, Europe and Canada

Nike, Rebok, Adidas, Marks and Spencer, Walmart, Nissan, Mitsubishi, Hino, Toyota, Sony Ericson, Konica, Nikon, Fuji, Olympus, etc.

# Investment Environment is very Attractive in Bangladesh

- The LES is still unexplored and have opportunity to investment
- Very High Value Addition Potentials of LEIs(10 to 70%)
- High demand of Products in Local and Int'l market

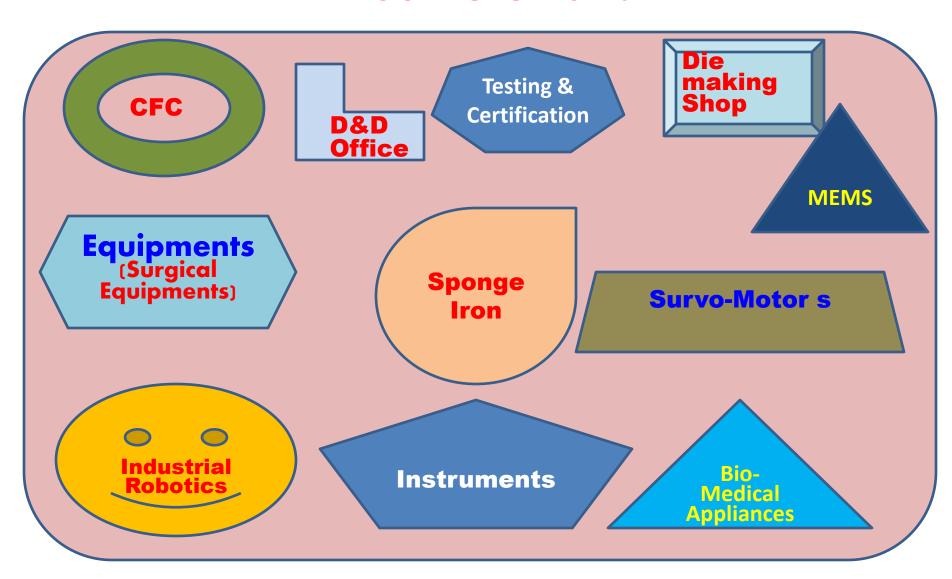
#### **Cooperation with Other Countries**

The cooperation & collaboration between Bangladesh and other countries can be in the following areas:

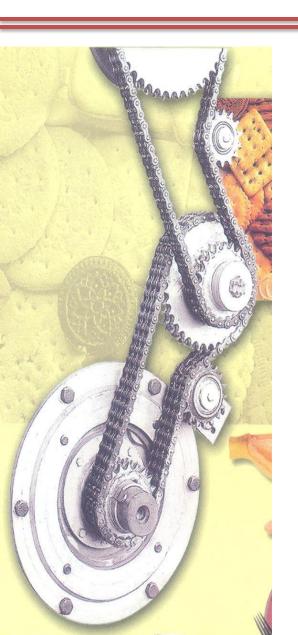
- 1. Investment on infrastructure development such as
  - Automotive Industrial park (IP),
  - Automotive Special Economic Zone (SEZ),
  - Automotive Cluster Development,
  - Automotive Common Facility Centre (CFC),
  - Automotive Testing Facility,
  - Automotive R&D and Design office
  - Vendor development
- 2. R&D with Venture Capital
- 3. Outsourcing of spare parts
- 4. Production Sharing Contract (PSC)

#### **Proposed LE & Automobile Industrial Town**

#### **100 Acre Land**



### Proposed LE Industrial Sector 300 Acres Land



- New Product Development
- Development of Quality product
- Instruments
- Equipments
- Capital Machinery
- Industrial Robotics with artificial intelligence
- MEMS Products (Micro Electro-Mechanical System Products)

### Business Modes with International Partners

- < Foreign Direct Investment
- Technical collaboration (Licensing, technical services agreements)
- < Joint Venture

