



**Seminar  
on  
“Future Trends for Environmental Sustainability of  
Garments Accessories & Packaging Industry in Bangladesh”**

**under Bangladesh INSPIRED Project Component 2b  
SME Competitiveness Grant Scheme Project of BGAPMEA**

**13th January, 2016 at 3:00 pm at Hall-4, ICCB, Dhaka.**

**Presented by :**

**Prof. Dr. Feroz Iqbal Faruque  
FCS DBA FCCE CEPA (USA) CPA MCSI (UK)  
ISO-9000(UK), ISO-14000(USA) & SA-800(USA) Lead Auditor**

**Organized by :**

**Bangladesh Garments Accessories & Packaging Manufacturers & Exporters Association (BGAPMEA)**

**Funded by :**

**The European Union & Ministry of Industries, Govt. of the People’s Republic of Bangladesh**

**Bangladesh INSPIRED  
Developing SMEs**



- **GLOBAL GREEN PACKAGING MARKET ESTIMATED AT US\$212.1 BILLION IN 2015.**
- **PROJECTED TO REACH US\$274.15 BILLION BY 2020, CAGR 5.27%.**
- **MOST COMMON SUSTAINABLE PACKAGING TRENDS ARE:**
  - **DOWNSIZING/LIGHT-WEIGHTING OF PACKAGING,**
  - **INCREASED RECYCLING AND WASTE RECOVERY,**
  - **INCREASED USE OF RECYCLED CONTENT.**



## **SUSTAINABLE PACKAGING MARKET CATEGORIZED**

- **ON THE BASIS OF MATERIAL**
  - **PAPER & PAPERBOARD**
  - **PLASTIC**
  - **METAL**
  - **GLASS**
  
- **ON THE BASIS OF PROCESS:**
  - **RECYCLED CONTENT PACKAGING**
  - **REUSABLE PACKAGING**
  - **DEGRADABLE PACKAGING**
  
- **ON THE BASIS OF LAYERS:**
  - **PRIMARY**
  - **SECONDARY**
  - **TERTIARY**



**Cont.**

- **ON THE BASIS OF APPLICATIONS:**
  - **FOOD & BEVERAGE PACKAGING**
  - **HEALTHCARE PACKAGING**
  - **PERSONAL CARE PACKAGING**
  
- **ON THE BASIS OF REGIONS:**
  - **ASIA-PACIFIC**
  - **EUROPE**
  - **NORTH AMERICA**
  - **ROW**





## SUSTAINABLE PRODUCTS MUST MEET:

SI.	PERFORMANCE	SOCIETY	ENVIRONMENT
01.	<b>MEETS THE MARKET DEMANDS FOR VALUE</b>	<b>PROVIDES MEASURABLE BENEFITS TO INDIVIDUALS AND COMMUNITIES</b>	<b>MAKES EFFICIENT USE OF RAW MATERIALS AND MINIMISES WASTE</b>
02.	<b>REDUCES THE QUANTITY OF DAMAGED OR WASTED PRODUCTS DURING TRANSPORT, STORAGE OR USE</b>	<b>HELPS EMERGING MARKETS GROW ECONOMICALLY</b>	<b>REDUCES THE ENERGY NEEDED TO MANUFACTURE AND SHIP PRODUCTS AND THE FUEL CUSTOMERS NEED TO SHIP AND STORE THEIR PRODUCTS</b>
03.	<b>HELPS CUSTOMERS OPERATE MORE EFFICIENTLY AND ENHANCES THEIR PRODUCTS</b>	<b>IS SAFE AND MEETS ALL REGULATORY REQUIREMENTS</b>	<b>REDUCES GREENHOUSE GAS EMISSIONS ASSOCIATED WITH THE OVERALL PACKAGE AND CONTENTS OF THE PACKAGE</b>
04.	<b>OPTIMISES THE EFFICIENCY OF THE SUPPLY CHAIN.</b>	<b>BENEFITS OF CBSF</b>	<b>RRRR</b>



## **GLOBAL CLOTHING ACCESSORIES INDUSTRY**

- **GLOBAL CLOTHING ACCESSORIES INDUSTRY IS WORTH CLOSE TO \$16.5 BILLION;**
- **THE WORLD CLOTHING ACCESSORIES MARKET IS EXPECTED TO EXCEED \$20 BILLION BY 2018;**
- **INDUSTRY FACES CHALLENGES, INCLUDING RISING PRICES OF RAW MATERIALS AND STRICTER GOVERNMENT AND TRADE REGULATIONS;**
- **ASIA-PACIFIC DEMAND FOR LUXURY ITEMS AND REPLICA RISING;**



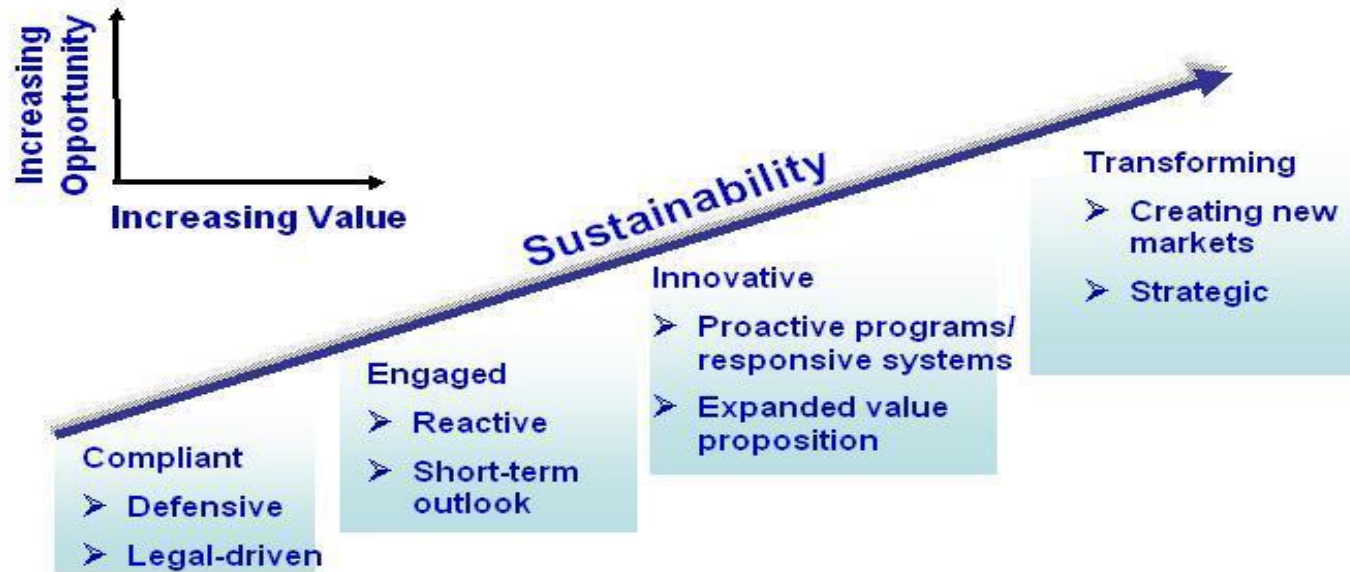
**Cont.**

- **THE INDUSTRY IS HEAVILY RELIANT ON TECHNOLOGY;**
- **ZIPPERS, BUTTONS, LABELS, HOOKS, HANGERS, ELASTIC BANDS, THREAD, BACKBOARDS, BUTTERFLY PINS, CLIPS, COLLAR STAYS, COLLARBONES AND CARTONS ARE THE MAJOR GARMENT ACCESSORIES PRODUCED IN BANGLADESH;**
- **THE USE OF HIGH-END ACCESSORIES ALSO ADDS VALUE TO THE GARMENT**



# THE SUSTAINABILITY JOURNEY

## The Sustainability journey







## **BENEFITS OF SUSTAINABLE PACKAGING**

- A. BENEFICIAL, SAFE & HEALTHY THROUGHOUT LIFE CYCLE;**
- B. MEETS MARKET CRITERIA FOR PERFORMANCE AND COST;**
- C. SOURCED, MANUFACTURED, TRANSPORTED AND RECYCLED USING RENEWABLE ENERGY;**
- D. OPTIMIZES USE OF RENEWABLE OR RECYCLED SOURCE MATERIALS;**
- E. MANUFACTURED USING CLEAN PRODUCTION TECHNOLOGIES AND BEST PRACTICES;**
- F. MADE FROM MATERIALS HEALTHY THROUGHOUT THE LIFE CYCLE**
- G. PHYSICALLY DESIGNED TO OPTIMIZE MATERIALS AND ENERGY.**

**FROM “LESS BAD” TO “MORE GOOD”  
LIFE CYCLE APPROACH**



**ACCORDING TO ISO 14040/44 STANDARDS AN  
LCA CONSISTS OF FOUR PHASES**

- 1. GOAL AND SCOPE;**
- 2. LIFE-CYCLE INVENTORY (INPUT/OUTPUT ANALYSIS);**
- 3. EVALUATION OF ENVIRONMENTAL RELEVANCE, E.G.,  
GLOBAL WARMING POTENTIAL; AND**
- 4. INTERPRETATION (E.G, OPTIMIZATION POTENTIAL) THE  
CRADLE TO CRADLE APPROACH- NATURAL PRINCIPLES  
OF REGENERATION AND CREATE ZERO WASTE.**

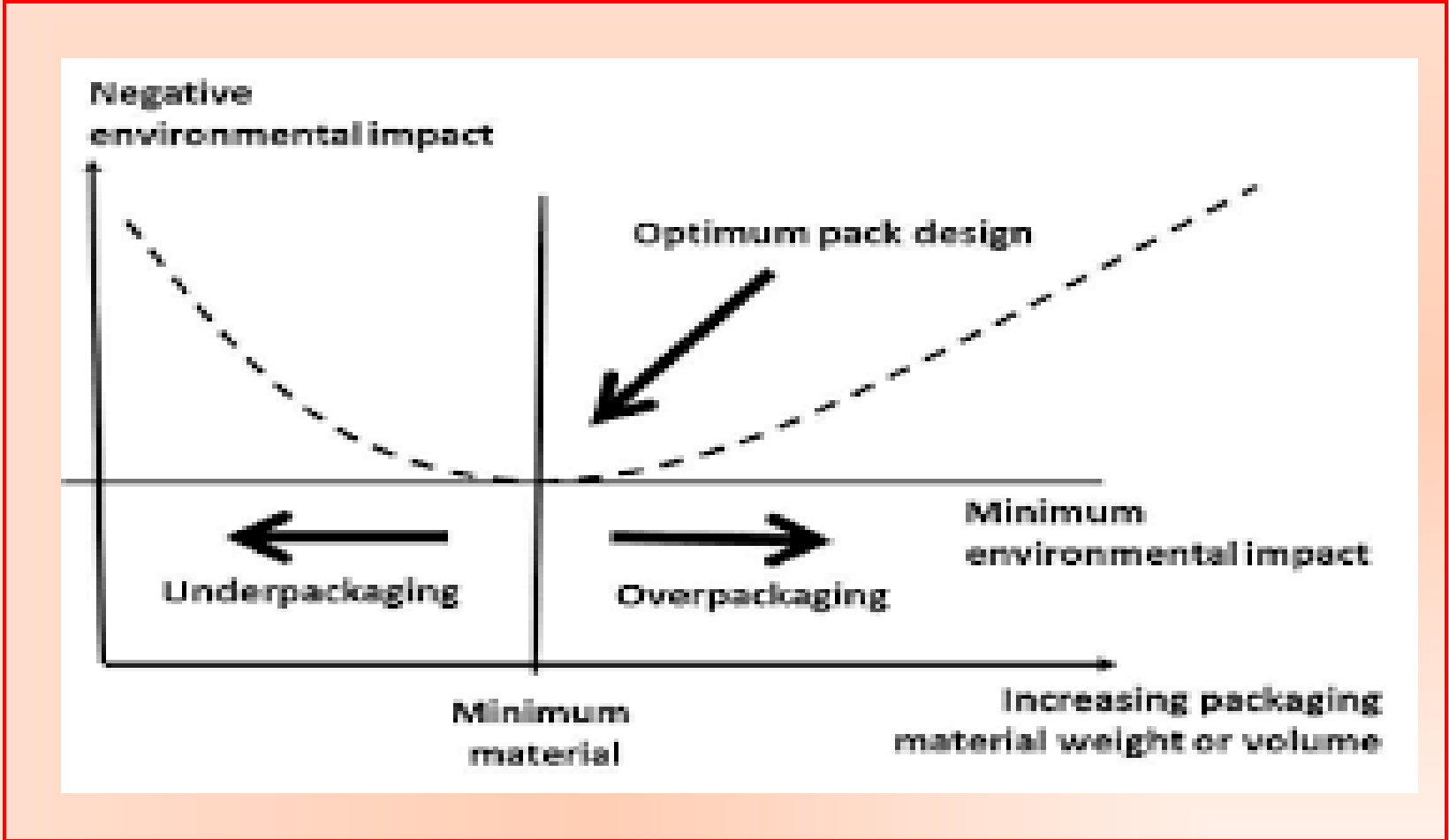


## **FIVE (5) WAYS OF MAKING PACKAGING GREENER**

- 1. REDUCE PACKAGING**
- 2. HAS SMALLER ECOLOGICAL FOOTPRINT.**
- 3. USE BIODEGRADABLE MATERIALS**

### **‘ZERO WASTE’ PUZZLE**







# RECOMMENDATIONS

## **(A) FOR INDUSTRY:**

- 1. PRESSURE FOR MORE SUSTAINABLE PACKAGING WILL INCREASE.**
- 2. AGENDA 'SUSTAINABLE PACKAGING'.**

## **(B) FOR MANAGEMENT:**

- 1. REVIEW CUSTOMER BASE;**
- 3. CARBON FOOTPRINT, ENERGY USAGE, WASTE ETC.;**
- 4. LIFE CYCLE ASSESSMENT (LCA);**



**Cont.**

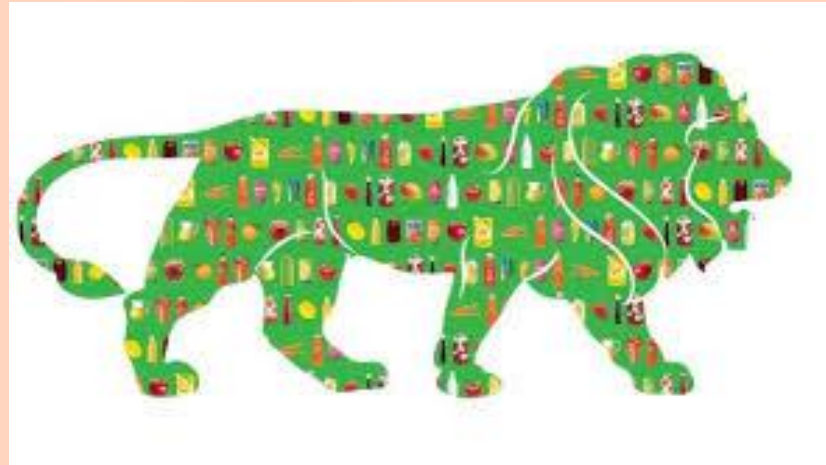
**(C) FOR GOVERNMENT:**

- GREEN FINANCIAL INCENTIVES (GFI),**
- SUBSIDIZING OF GREENING COST TO THE INDUSTRY,**
- PREFERENTIAL TREATMENT OF GREEN INDUSTRY FOR BANK LOANS,**
- LOWER(SINGLE DIGIT) INTEREST RATE FOR GREEN INDUSTRY,**
- GREEN COMMERCIALLY IMPORTANT BUSINESS(GCIB),**
- INTRODUCTION OF YEARLY GREEN INDUSTRY NATIONAL AWARDS (NGA),**
- SLASHING DOWN PETROLEUM PRICE.**



### **(C) OTHERS:**

- **FARUQUE CONCEPT OF SUSTAINABILITY  
“CHEAPERBETTERSAFERFASTER”(CBSF)  
(1/2P+Q2+S2+1/2T=SUSTAINABILITY)**
- **BREAKTHROUGH ANALYSIS**
- **BPR**
- **GREEN FACTORY BUILDING**
- **INSTALLATION OF EFFLUENT TREATMENT PLANT  
(ETP)**
- **INDUSTRIAL ESTATE FOR GAP SECTOR**
- **RETHINK> REDUCE> RECYCLE> REUSE=F4R  
PRINCIPLES**





**Thank you all**