

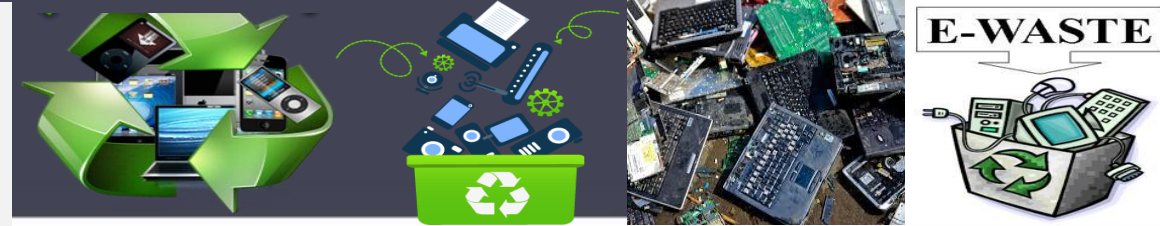
# e-Waste

## (Electronic Waste)

### Recycling and Management

*(Electronic Waste, E-waste, E-scrap, Waste Electrical and Electronic Equipment (WEEE))  
Disposal and Management*

## Recycling Business Ideas and Investment Opportunities



# **Introduction**

**E-waste is electrical and electronic equipment of any kind that has been discarded. This includes practically anything powered by an electrical source (e.g., from a power socket or a battery). Common types of e-waste include the following:-**

**Infocomm technology (ICT) equipment, such as desktop, laptop and tablet computers, mobile phones, computer and mobile phone batteries, peripherals and accessories such as keyboards, modems, monitors, computer mice, docking stations, hard disk drives, printed circuit boards, battery chargers, etc.**

**Home appliances, such as TVs, fridges, air conditioners, washing machines, rice cookers, microwave and toaster ovens, electric kettles, food processors and blenders, electric fans, DVD/video/music players, radios, hi-fis, vacuum cleaners, etc.**

**Other types of e-waste include lamps & lighting, electronic toys, batteries, sports and leisure equipment, etc.**



## Why Recycle E-Waste?

- **Recycling e-waste protects human and environmental health. Improper disposal of e-waste leads to environmental pollution and this may in turn harm human health. The best way to treat e-waste is to recycle it properly. E-waste comprises many different components and requires specialised equipment to dismantle, shred, process and extract the constituent materials that can then be turned into new products. This has to be performed within a controlled system to prevent pollution and ensure workplace safety and health.**



- **Recycling e-waste also helps to conserve our earth's precious natural resources. Recycled material is used to make new products. This reduces the need to mine virgin raw materials from the earth, which are limited in supply. Reducing the need for mining also lowers pollution, as the process of mining has an impact on our environment.**



- **Increased regulation and a better understanding of the environment dictate that many materials in e-waste simply can't be tossed in a landfill. In fact state law requires the safe disposal of e-waste because these products contain hazardous elements that can cause real and lasting damage to our natural environment and public health.**



## Market Outlook

**India is emerging as one of the world's major electronic waste generators and likely to generate 52 lakh metric tonnes (MT) per annum by 2020 from the current level 18 lakh metric tonnes growing at a compound annual growth rate (CAGR) of about 30%.**



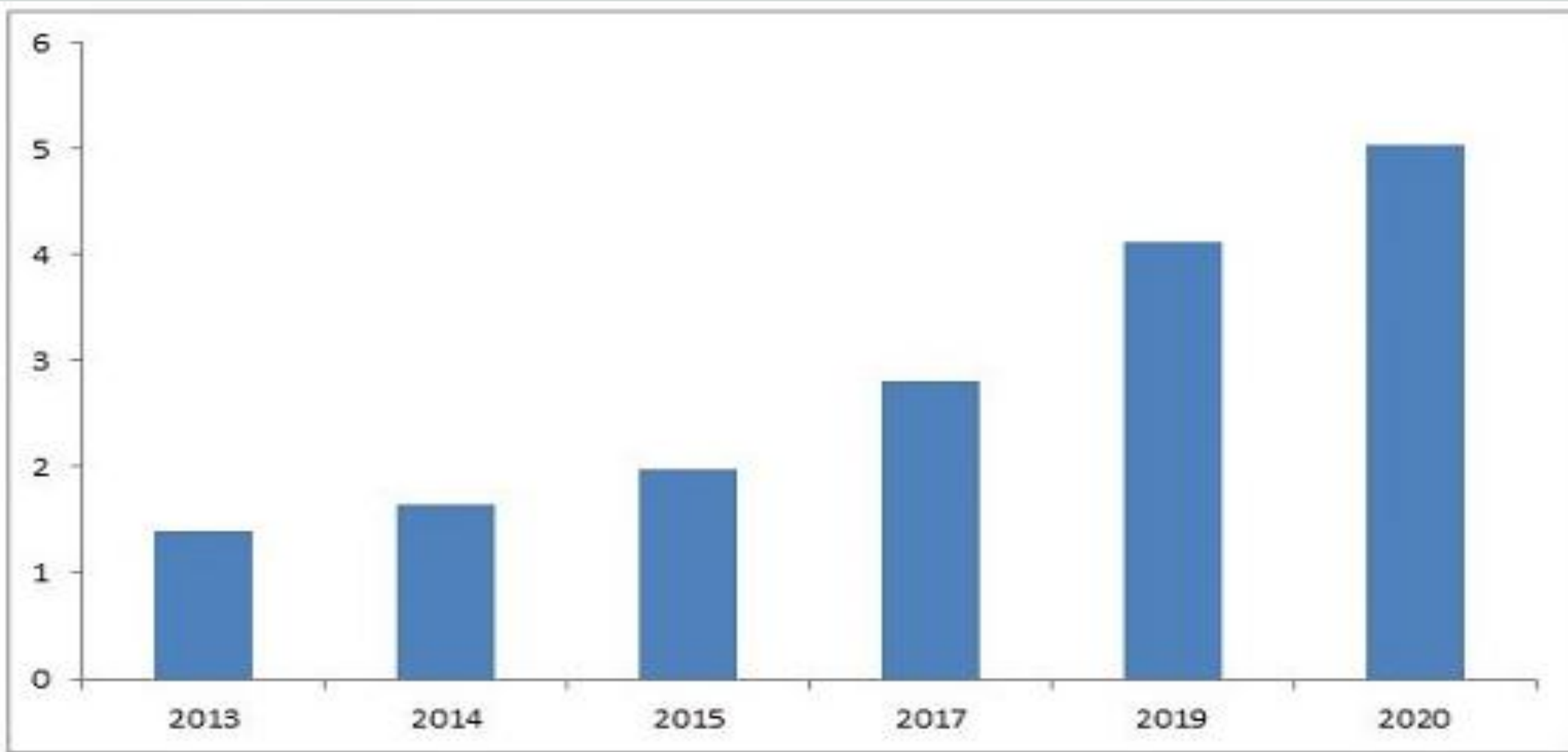


**The global volume of e-waste generated is expected to reach 130 million tons in 2018 from 93.5 million tons in 2016 at a compound annual growth rate of 17.6 percent from 2016 to 2018. The e-waste management market has the potential to recycle and recover materials like metals, including ferrous and non-ferrous metals, plastic, glass, and others, including wood and ceramic.**





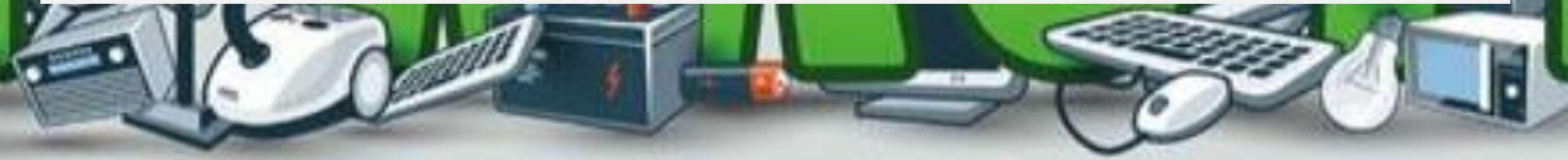
# Global E-Waste Management Market Size



# Waste Management & Recycling Market in India

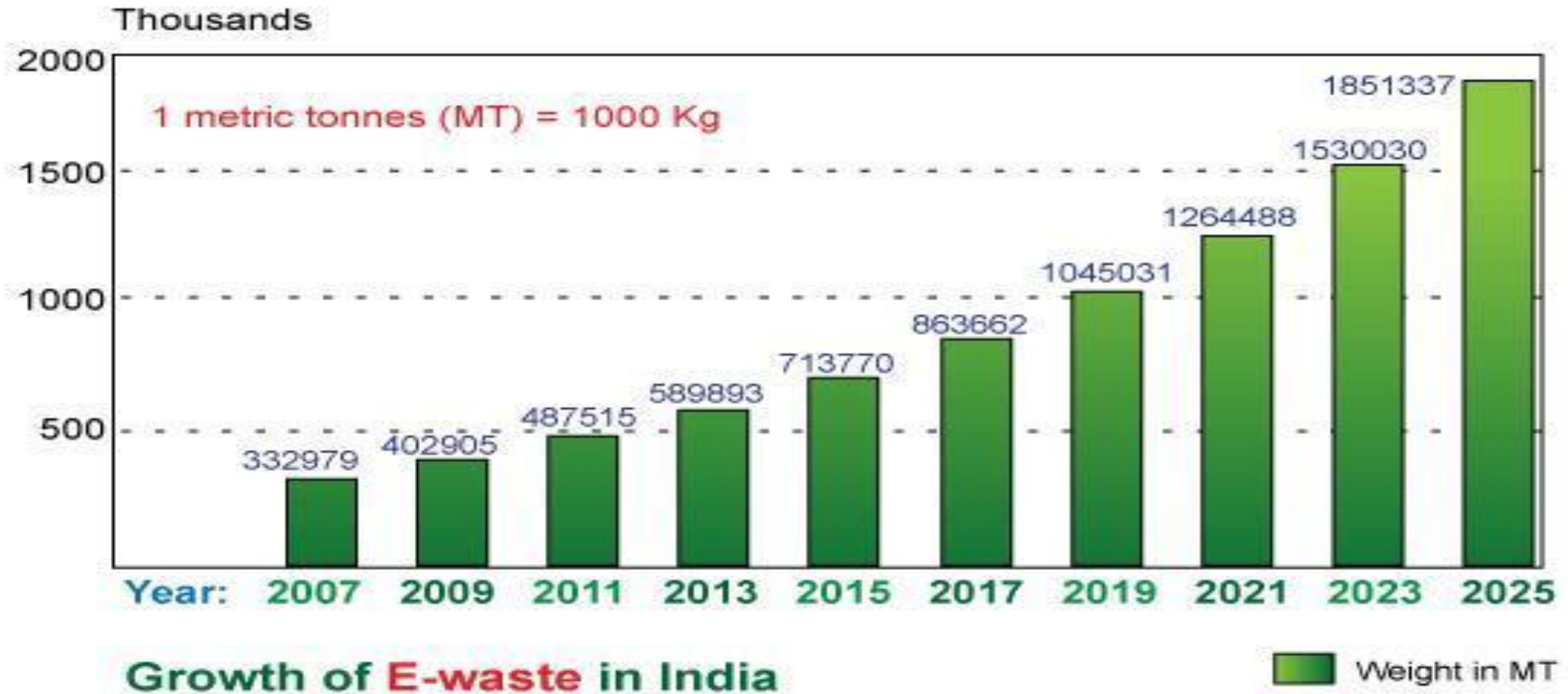


**The current e-waste generation pattern is 1.7 million tons / annum, with an alarming growth rate of 15% each year. The major concern in terms of management of e-waste is, more than 90% of the available E-waste continued to be recycled in the informal sector, in the by-lanes of cities and towns. However, if recycled scientifically, 95-98% of the materials can be recovered and put back in the process of material flow.**





# Growth of E-Waste in India



**Recycling of electronic waste is an upcoming trend which growing immensely as there is a severe need to protect human and environmental health. Electronic wastes have a very high impact on environment, the pollution due to the increasing electronic wastes as led to the recycling of electronic waste on a larger scale.**



**Electronic waste recycling is the reprocessing of electrical and electronic equipment of different types which have been discarded so as to reuse it.**

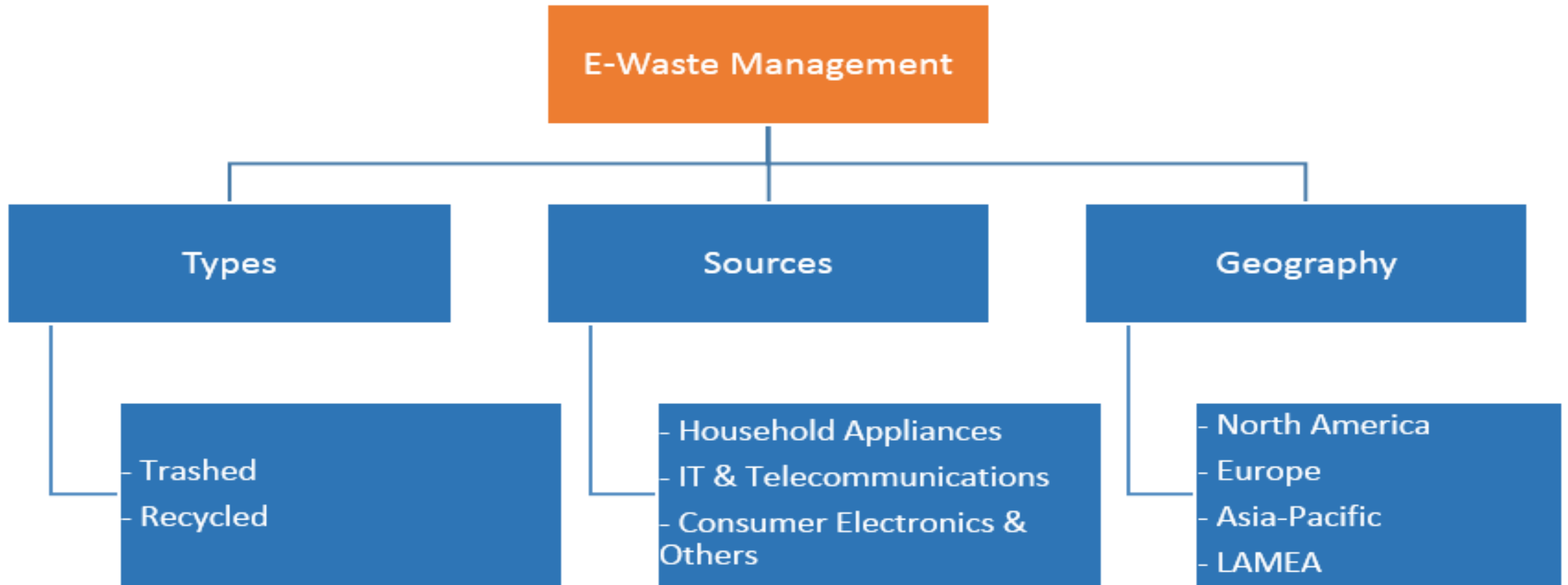
**The Electronic Waste Recycling Market has been segmented on the basis of components of processed materials and sources of equipment processed. The components of processed materials segment consists of plastic, glass, mercury, metals, printed circuit boards, hard drives, batteries and others.**



**The growth of E-Waste market is supplemented by the growing need for upgrading to the latest technologies. A desire towards the adoption of new technologically advanced devices leads to generation of millions of tons of E-Waste across various regions.**

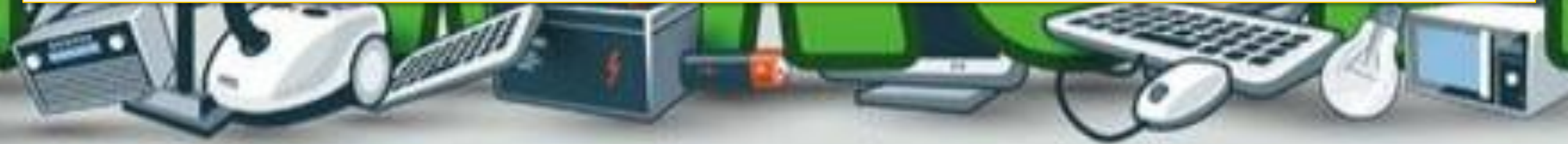


# Global E-Waste Management Market Segmentation



Niir Project Consultancy Services (NPCS) can provide  
Detailed Project Report on

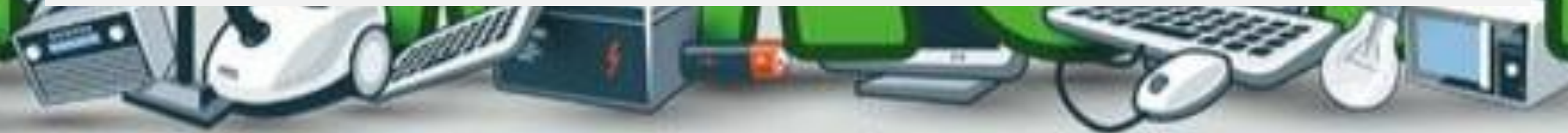
E-waste Recycling (Electronic Waste, E-waste, E-scrap,  
Waste Electrical and Electronic Equipment (WEEE))  
Disposal and Management





## ➤ E-Waste Recycling Plant

**Electronic wastes, "e-waste", "e-scrap", or "Waste Electrical and Electronic Equipment" ("WEEE") is a description of surplus, obsolete, broken or discarded electrical or electronic devices. Technically, electronic "waste" is the component which is dumped or disposed or discarded rather than recycled, including residue from reuse and recycling operations....[Read more](#)**



➤ **Good Future Prospects for E-WASTE RECYCLING PLANT  
(Electronic Waste, E-Waste, E-Scrap, or Waste Electrical  
and Electronic Equipment (WEEE))**

**Electronic waste, e-waste, e-scrap, or Waste Electrical and Electronic Equipment (WEEE) is a loose category of surplus, obsolete, broken, or discarded electrical or electronic devices. The processing of electronic waste in developing countries is causing serious health and pollution problems due to lack of containment, as do unprotected landfilling (due to leaching) and incineration. ....[Read more](#)**

**For more details visit at:**

[E-waste Recycling \(Electronic Waste, E-waste, E-scrap, Waste Electrical and Electronic Equipment \(WEEE\)\) Disposal and Management](#)

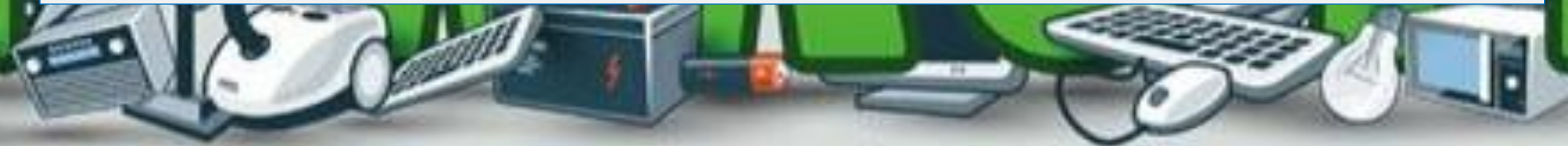
[Waste Management, Waste disposal and Recycling Industry](#)

# Major Queries/Questions Answered in our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**



5. **What is the total project cost for setting up the plant?**
6. **What are the operating costs for setting up the plant?**
7. **What are the machinery and equipment requirements for setting up the plant?**
8. **Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
9. **What are the requirements of raw material for setting up the plant?**



- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Plant Layout for setting up the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**

- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**

- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**



# Reasons for buying our report:

- **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**

- **The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

# Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**



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<https://goo.gl/VstWkd>





# *Locate us on Google Maps*

<https://goo.gl/maps/BKkUtq9gevT2>

# Contact us

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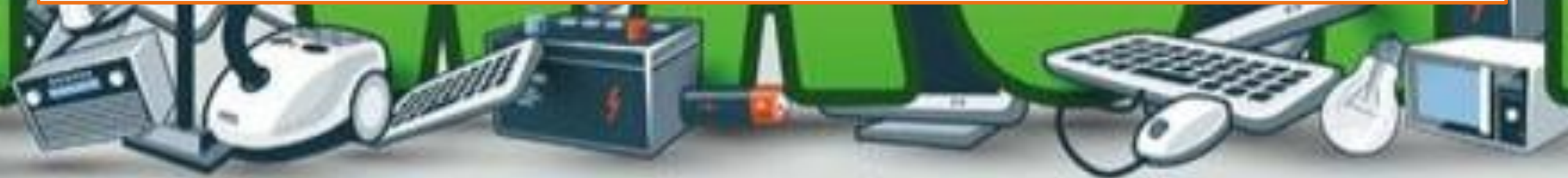
# NIIR PROJECT CONSULTANCY SERVICES

**An ISO 9001:2015 Company**



# Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



## What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

## How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

# Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



# Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

# Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*



- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*



- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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