

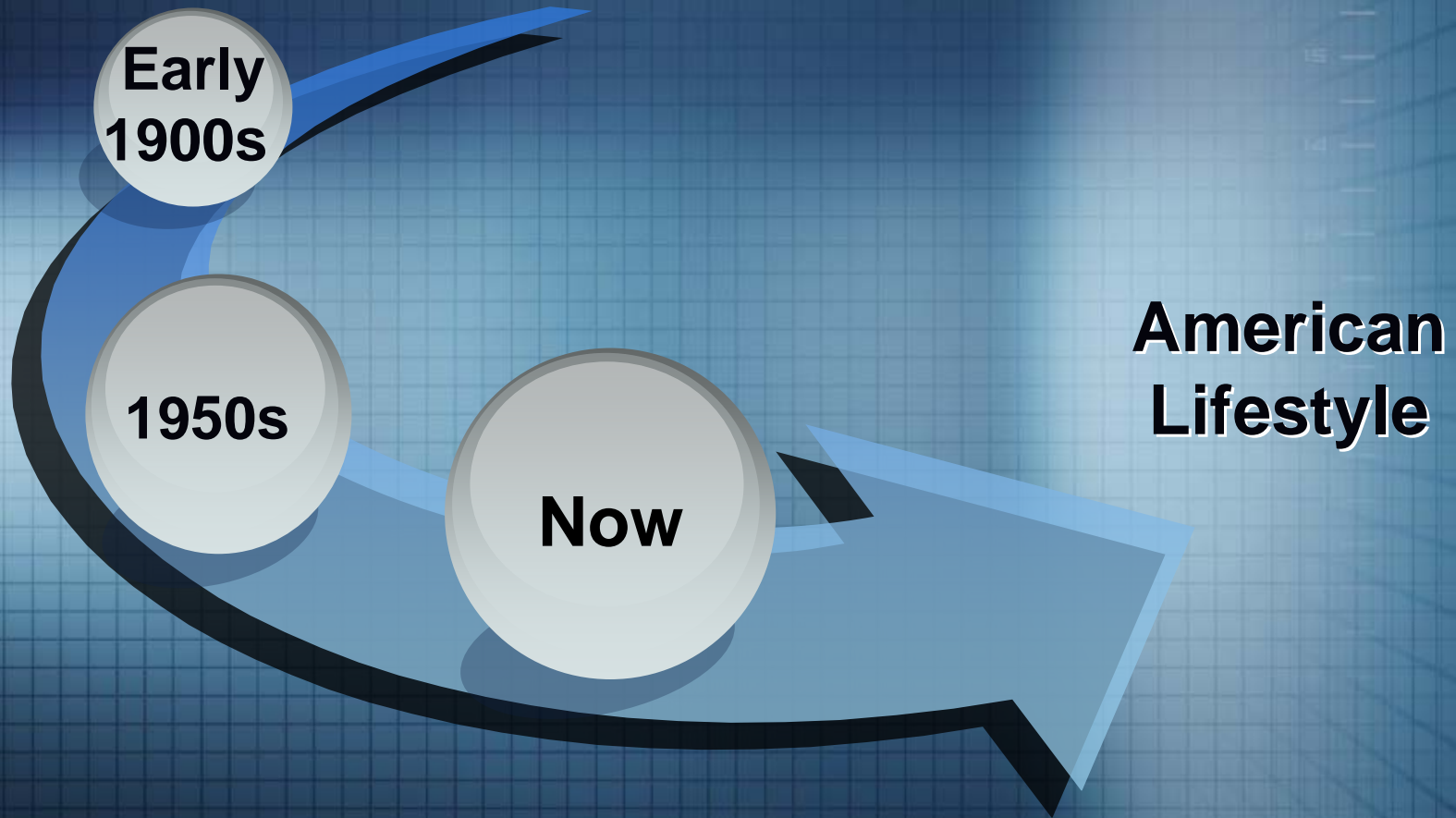
# The Automobile Industry Flow in U.S.

▶▶ The Recycle and Remanufacture Industry of Automobiles

# Agenda

- 1 Automobile Culture in America**
- 2 Current Flow in Automobile Industry**
- 3 Recycle and Remanufacture Industry**
- 4 Environmental Impacts and Benefits**

# Automobile Culture



# Automobile Industry in U.S.

**Huge Industry & Current Flow**

**\$260 billion per year in GDP**

**2.5 million employees**

**200 million automobiles**

**13 million cars sold in 2007**

**11 million cars retired**

# Flow of Retired cars

- Rust removers
- Carburetor cleaners
- Degreasers
- Parts cleaners
- Paint thinners
- Motor oil
- Automotive batteries



**Hazardous  
waste**

# Automobile Waste



# “3R” Flows

## Reduce

**Reduce waste** from the design stage to facilities management.

## Reuse

**Reuse parts** including engines, transmissions, doors and bumpers, etc.

## Recycle

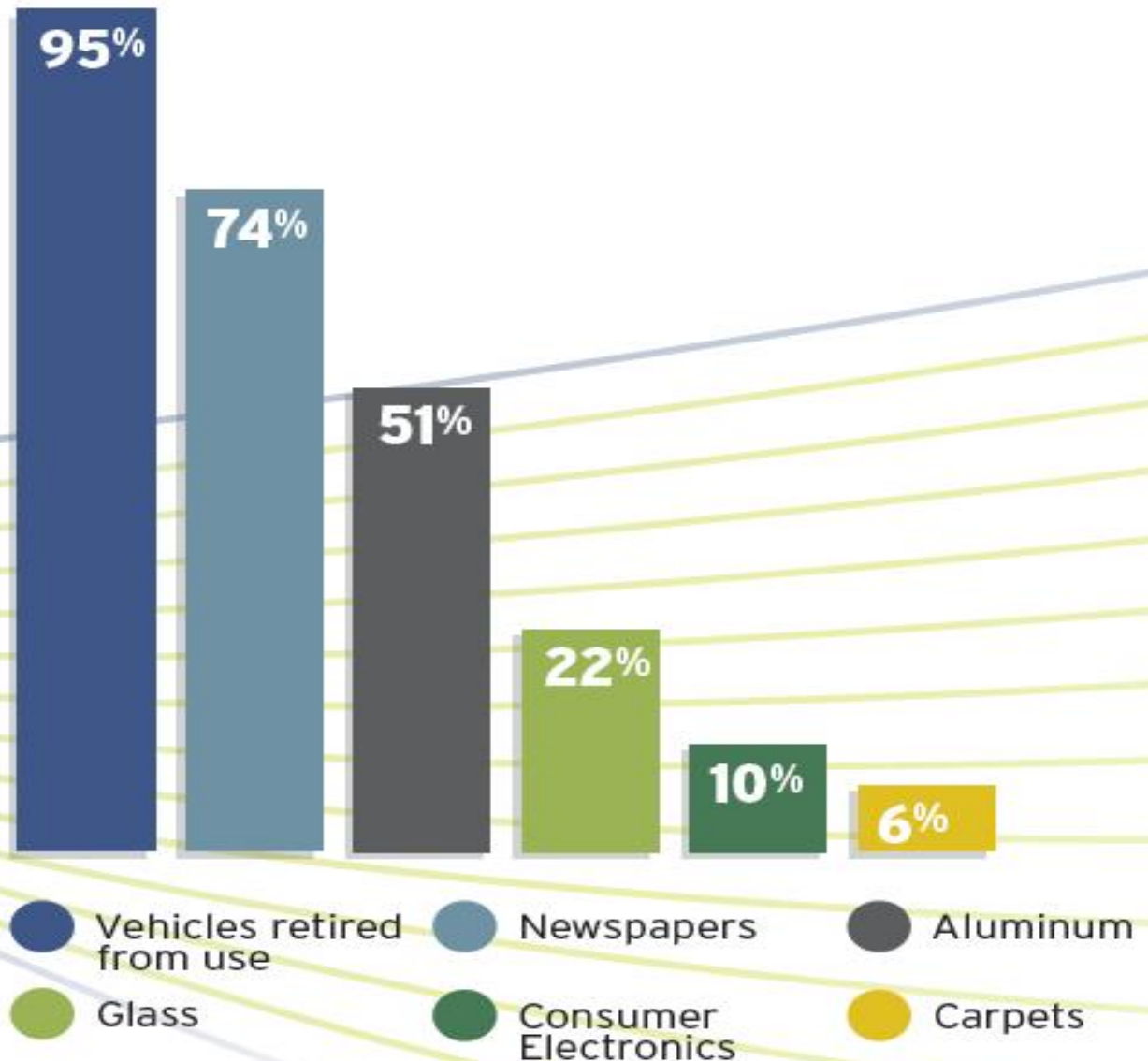
**Remanufactured/Rebuilt parts** are disassembled and cleaned, and components are replaced if necessary.

# Automotive Recycling Industry

- Automobile recycling is the **16th** largest industry in the United States.
- A **\$25 billion** per year industry.
- There are approximately **7,000** automobile recycling operation.
- Recycling autos provides enough steel to produce **13 million** new automobiles.
- Generate jobs for **46,000** people.

# Autos Recycled Rate

**Autos are the most recycled consumer product in the world today. This chart reflects the recycling rate of other commonly used products and materials.<sup>8</sup>**



# Remanufacture Industry

- Remanufacturing is the process of disassembly of products during which time parts are cleaned, repaired or replaced then reassembled to required working condition.



**Carpets**



**Tires**



**Steel**

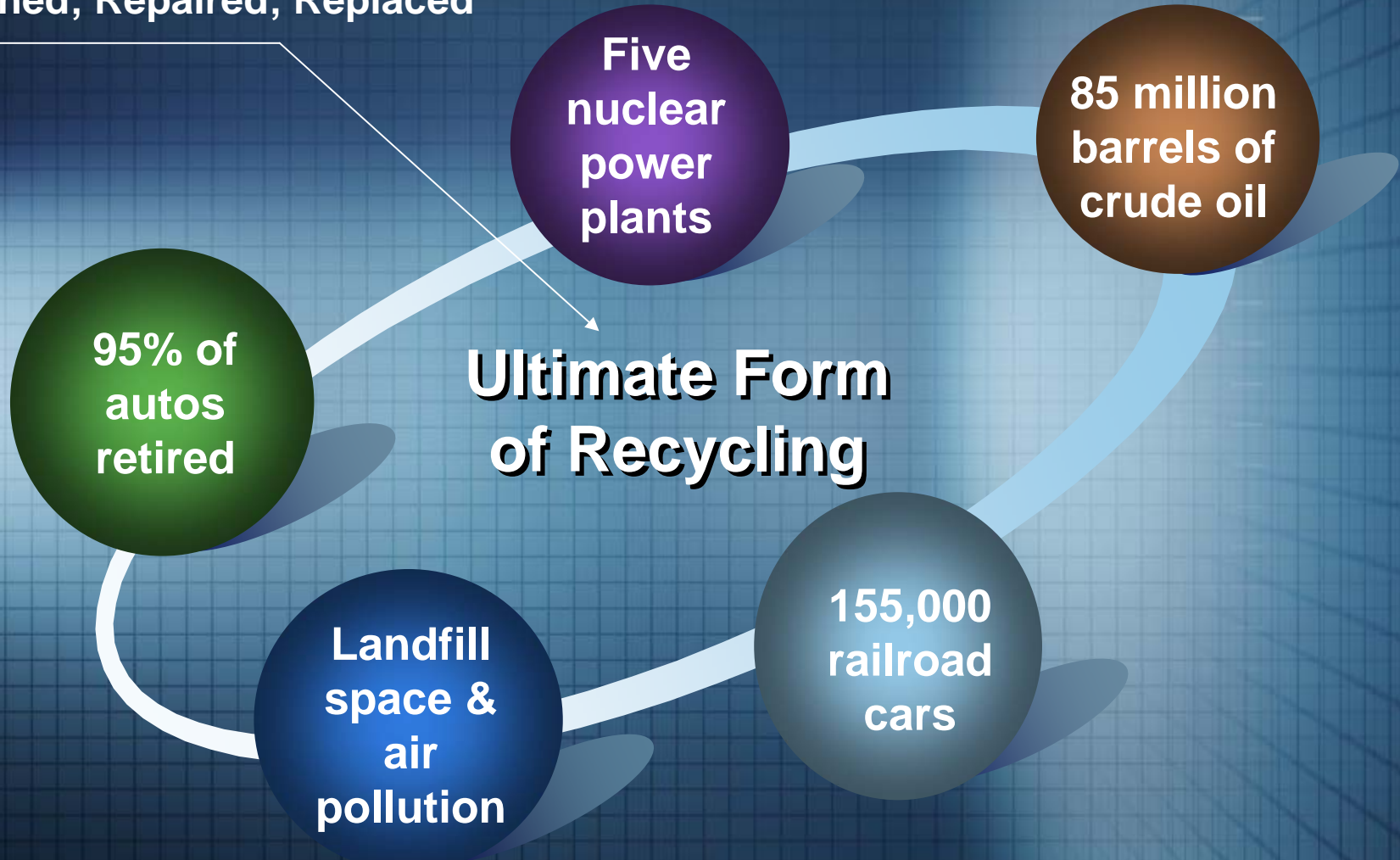
# Auto Companies

Taking plastics recycling for example



# Environmental Impacts and Benefits

Cleaned; Repaired; Replaced



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**Thank You !**