

# Extended Producer Responsibility

For Waste from Electrical and Electronic Equipment

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**May 2024**



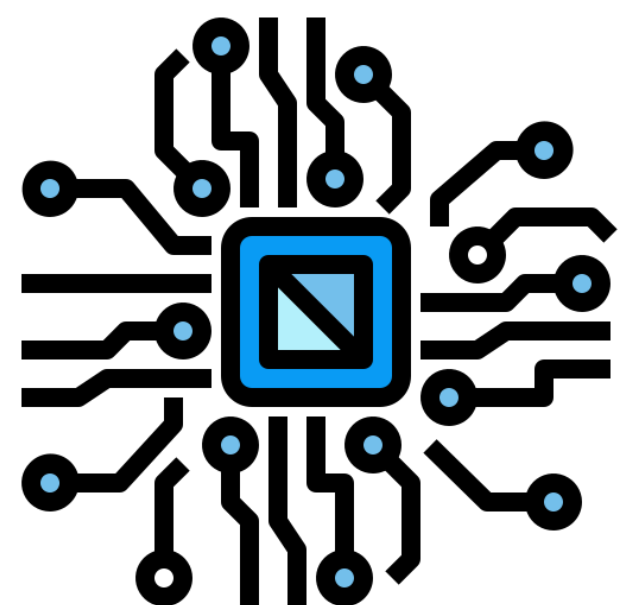
# Samsung Electronics' New Environmental Strategy – Sep 2022

- A** Achieving **net zero** emissions by 2050
- B** Active role in **combating climate change**: mitigation and adaptation
- C** Maximizing resource **circularity**
- D** Addressing climate change through **tech innovation**

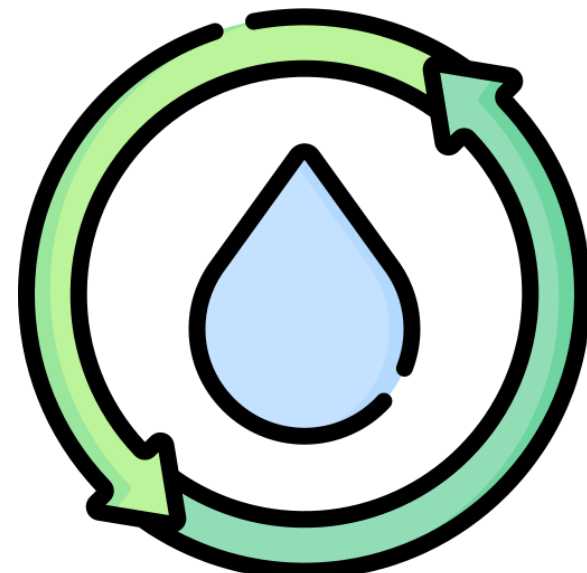


Samsung will have invested over **\$5.2bn** by **2030** in environmental activities

Semiconductor process gas reduction



Water resource preservation

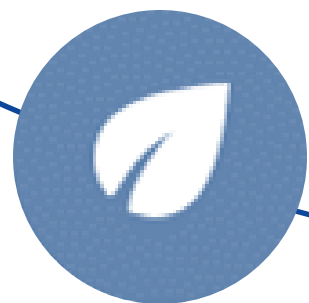


Pollutant minimization



E-waste collection and recycling





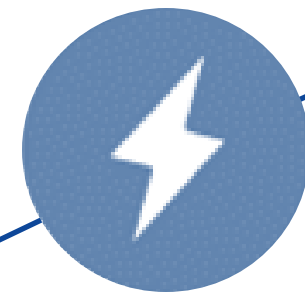
**2025**

- Zero Waste-to-Landfill Certifications
- 100% Renewable energy in Latam



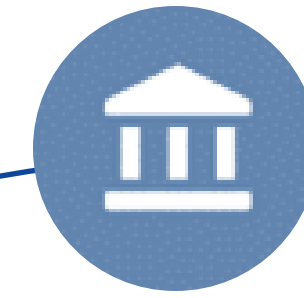
**2027**

- 100% Transition to Renewable Energy
- Replace all corporate vehicles to EVs



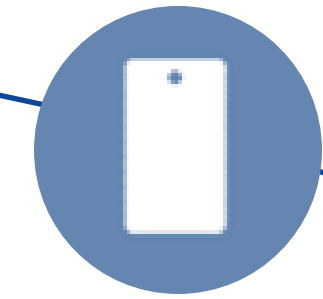
**2030**

- Ultra-power saving products by 30% (2019)
- Net zero for DX
- 50% recycled resin to products in average
- Restore quality of 100% of water consumed by DX
- Expand WEEE collection in all countries
- Reaching 10M tones of WEEE (s 2009)



**2040**

- Remove pollutants during the semiconductor production
- Restore used water to its natural state



**2050**

- Net Zero for all our business sites
- Apply recycled resin to all plastic parts
- Reaching 25M tones of WEEE



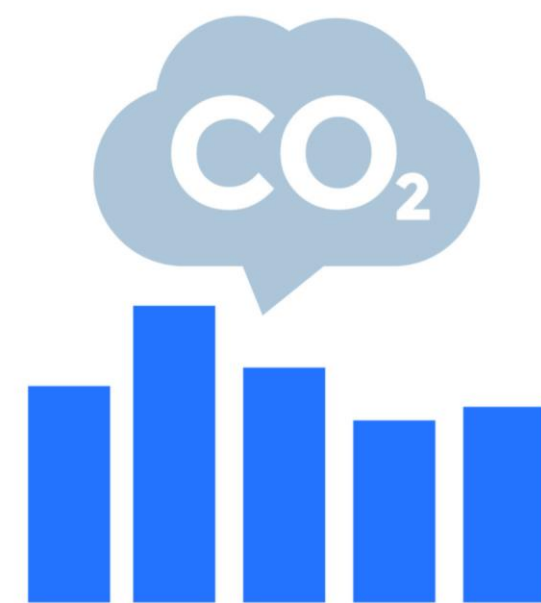


# 1) Achieving Net Zero by 2050

- A** New tech for improving gas treatment efficiency by 2030, carbon emission reduction facility across all manufacturing lines (scope 1)



- C** Improved calculation methods, third-party audit (scope 3)



## Strengthening stakeholder collaboration:

- Asia Clean Energy Coalition
- Semiconductor Climate Consortium
- Clean Development Mechanism
- Latin America and Caribbean: dozens of associations

- B** Joining RE100, transition to renewable energy by 2050 (scope 2)



- D** Ultra-power-saving technology and resource recycling
  - Ultra-low-power semiconductor technology (2025)
  - 30% power consumption drop by 2030 in all seven product categories.



- Solar Cell Remote Control
- From recycled plastic bottles
- 99M batteries saving in 7 years
- 759 soccer fields full of trees



## 2) Addressing Environmental Challenges through Technological Innovation

- Treating air and water to their natural state with minimal environmental impact prior to discharge.
- Develop carbon capture and utilization technology for storing and recycling carbon emitted from our semiconductor.

In 2019 Samsung established the Particulate Matter Research Institute  
In 2021 Samsung established the first Carbon Capture Research Institute  
Becoming **Samsung Air Science Research Center**

- Developing advanced filters and air purification systems
- Storing and recycling carbon emitted from production sites

In 2022 Samsung established the **Circular Economic Lab**

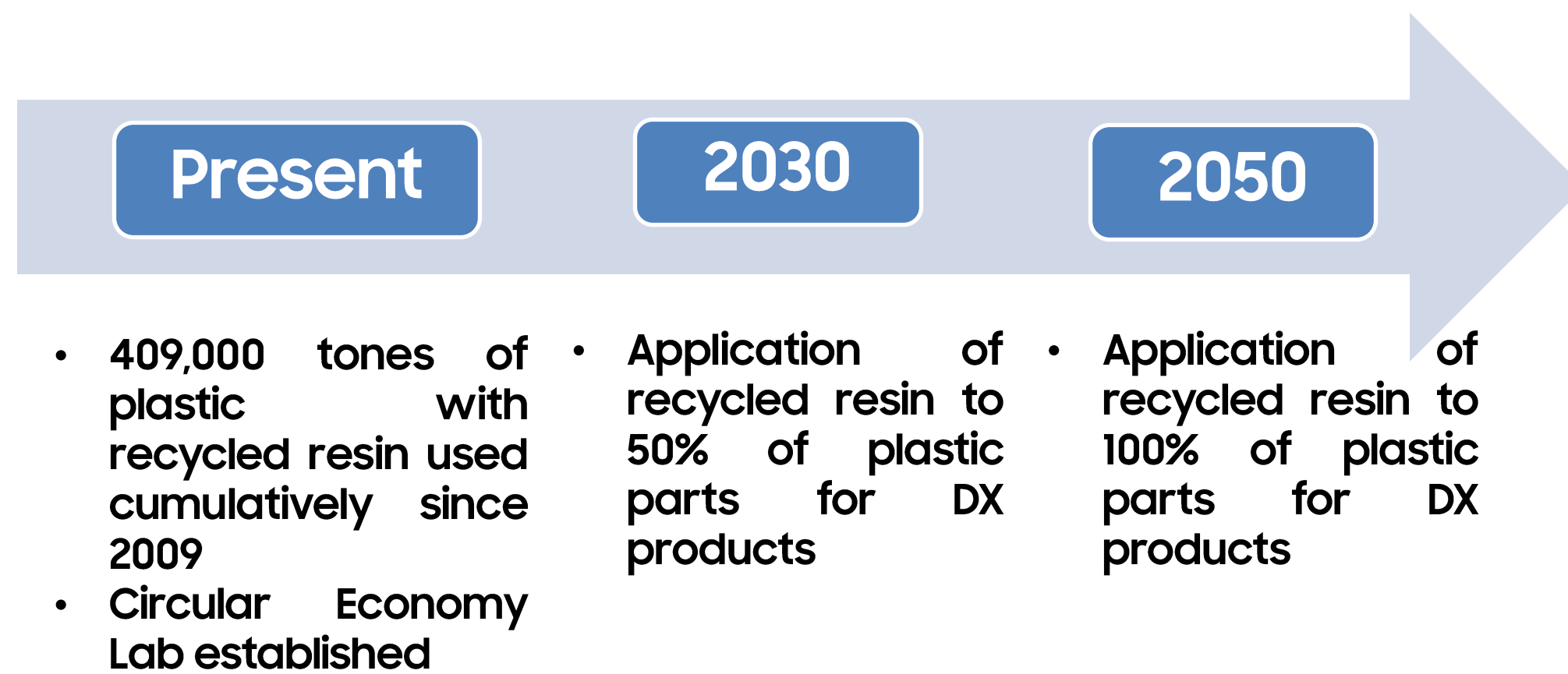
- Research on material recycling process and incorporation into production



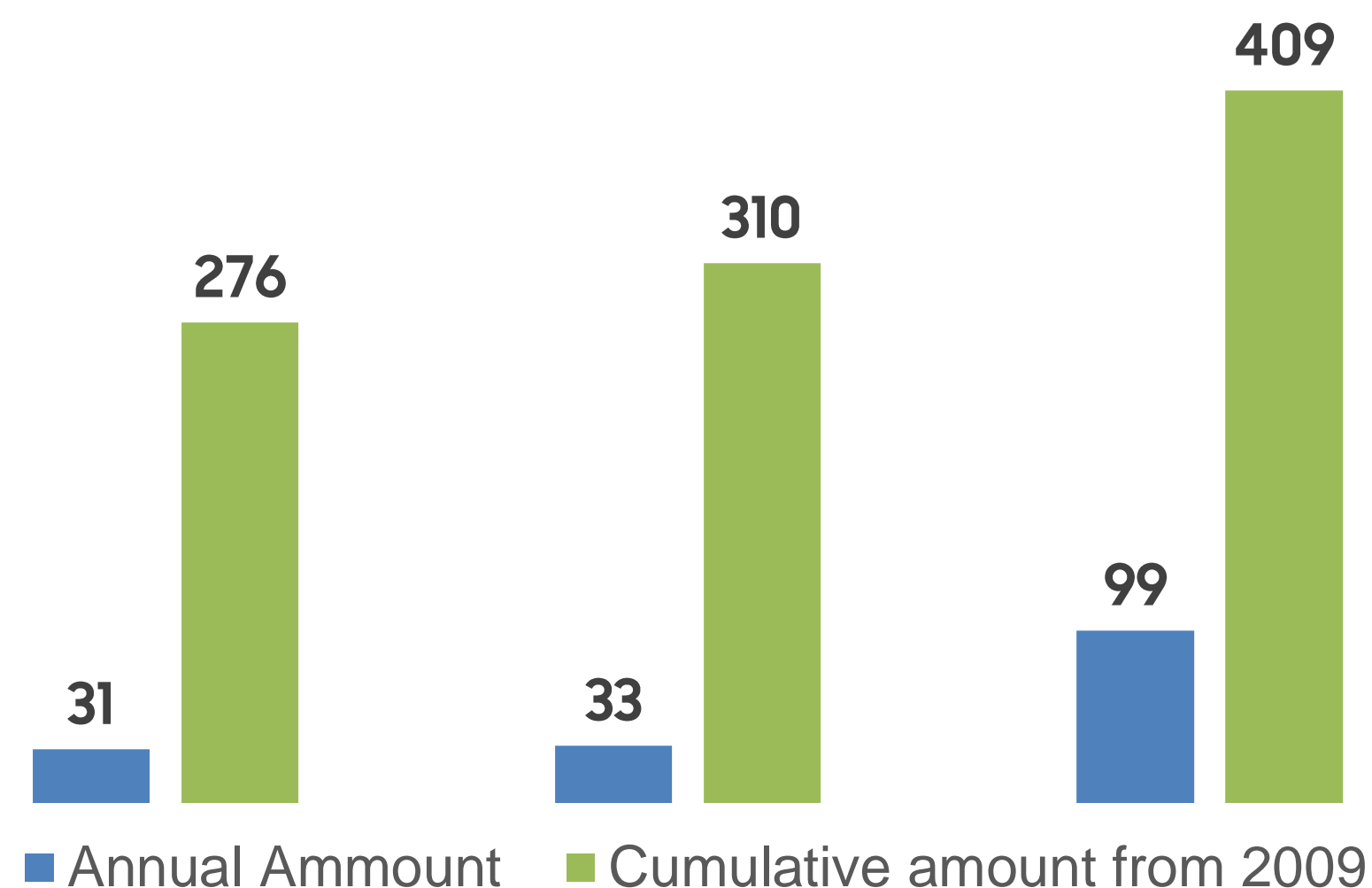


# 3) Maximizing Resource Circularity across the Entire Product Life Cycle

## Recycled resin to all plastic parts by 2050



Use of plastic with Recycled Resin (Unit: 1,000 tones)



## Eco-Packaging

### Displays and Home Appliances:

- SS use recycled expandable polystyrene (EPS) cushions in the packaging of our major TV models and are expanding their application to all monitor and signage models released in 2023.
- Since 2020 we have engaged our users in upcycling the packaging materials of our TVs - repurposing them into small furniture and objects.

### Mobile Devices:

- For the Galaxy S23 series released in 2023, 100% of the packaging box was made from recycled paper.



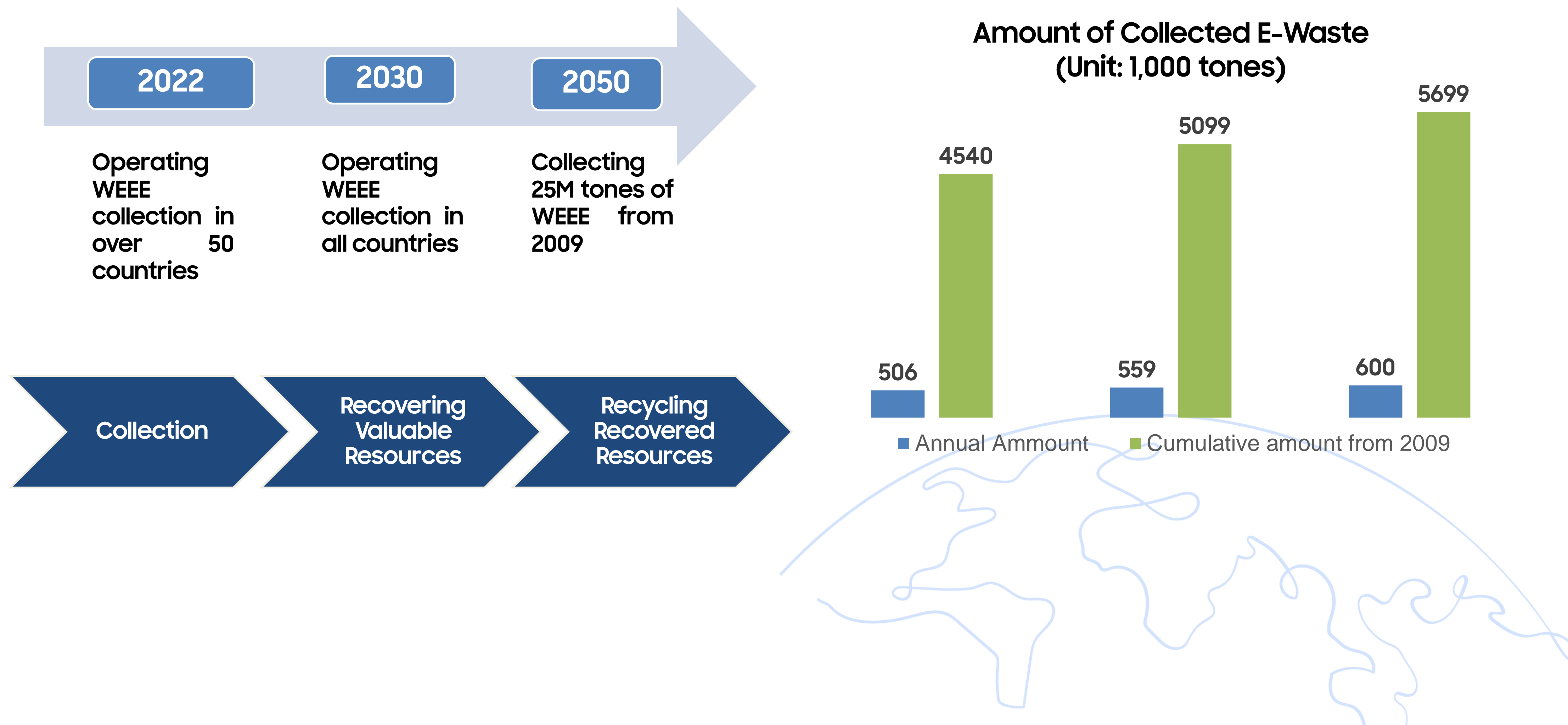
## Eco-Packaging (video)



# Expanding E-Waste collection

## Expansion of E-Waste Collection System:

- Samsung Electronics has collected 5.69M tones of WEEE in cumulative terms, from 2009 to 2022 through our e-waste collection system operated in over 50 countries.





# WEEE Management - Central America and the Caribbean

## E-Waste Collection System in all Major Countries

- By 2024, Samsung Electronics implemented WEEE collection in the whole region.
- Increasing WEEE collection in Central America and Dominican Republic.



Active participation in government-led discussions on norms and policies on WEEE and EPR in alliance with the industry and other stakeholders

Recicla y ahorra con **Eco Canje**

**Canjea y ayuda al medio ambiente**

Entrega tu electrodoméstico viejo como parte de pago y compra uno nuevo con un 10% de descuento adicional.



## Extended Producer Responsibility – Main Challenges

- 01 Broad perspective of the “producer”, we all hold responsibility
- 02 Promoting the emergence of actors across the WEEE management system (formal + national)
- 03 Establishing a data-driven baseline to determine collection goals and capabilities
- 04 Final costumer empowerment through information and awareness
- 05 Enabling environment, including a set of norms, rules and procedures





**Thank you**