



# Industry Initiatives to Promote ESM

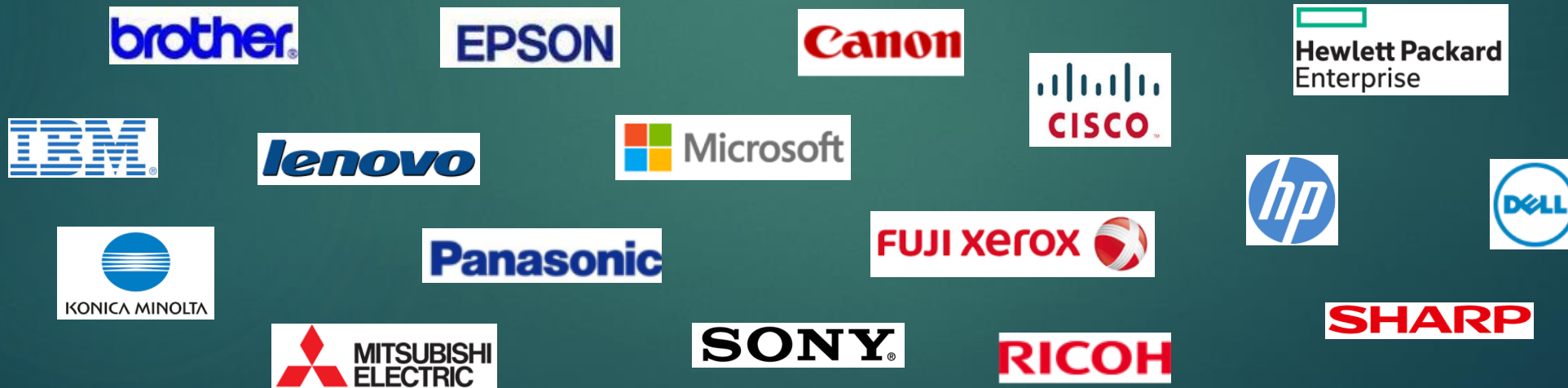
MATTHEW DELA SERNA, FUJI XEROX ASIA PACIFIC

ON BEHALF OF ICT-SEA GROUP

# ICT SEA Group Members

A group of InfoComm and Consumer Electronics Technology (ICT) companies formed in July 2008 to discuss various environmental topics. Regional Coverage commonly on Southeast Asia with some company representatives covering other countries in Asia Pacific and Oceania.

Members are 20 major global ICT and CE companies.



# The ICT-SEA Group





A photograph showing a man in a white and red cap working on a circuit board in a cluttered room filled with e-waste. The man is wearing a dark jacket and is focused on his work. The room is filled with various electronic components, including circuit boards, wires, and bags of waste. The lighting is dim, and the overall atmosphere is one of a makeshift recycling facility.

## Informal recycling of e-waste, still prevailing

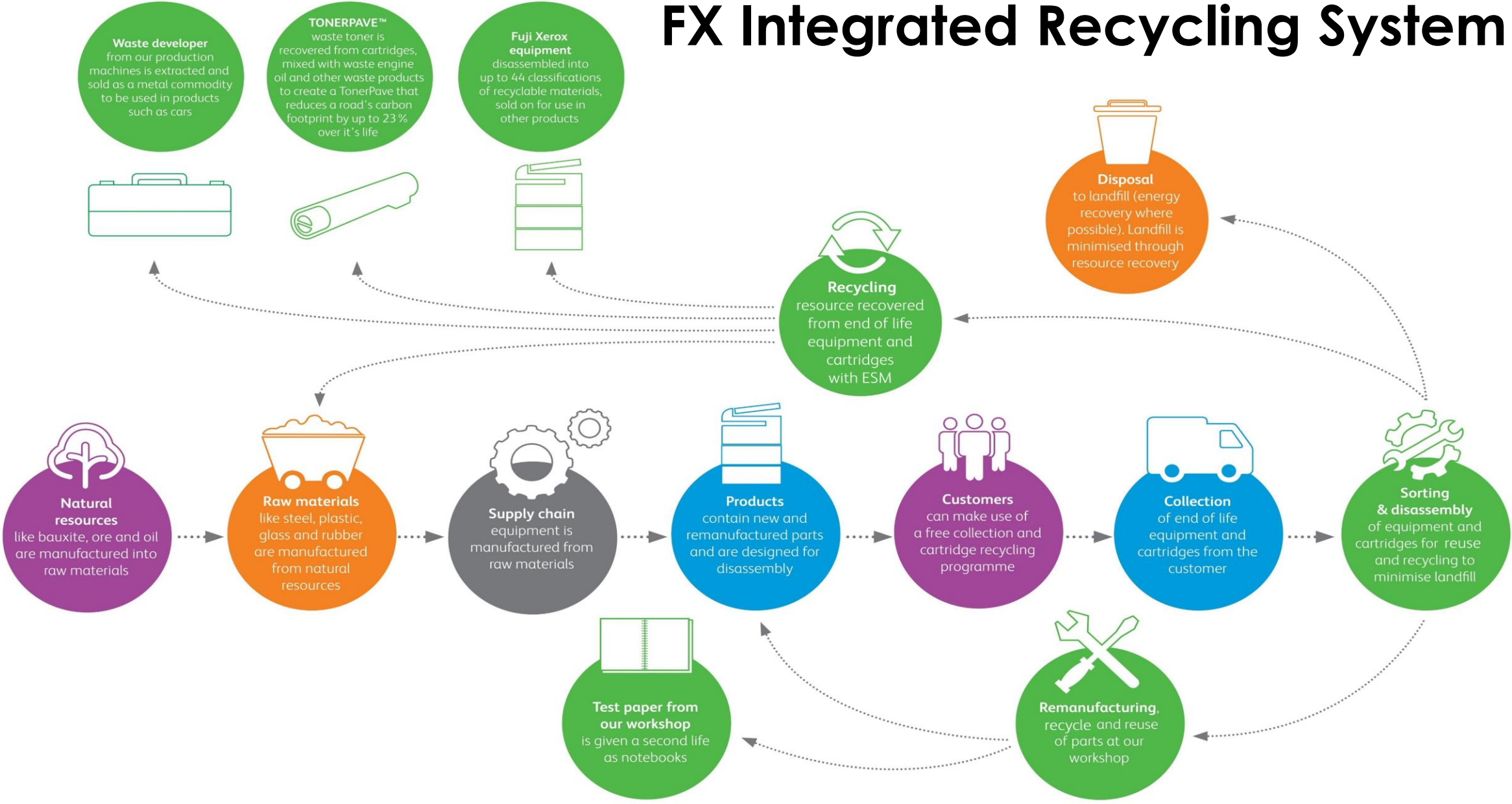
Credits for photography and concept: Kai Löffelbein; project support: Catalina Hermanns. [www.kailoeffelbein.com](http://www.kailoeffelbein.com) (+49. 176.61912940). 2014.

# Manufacturer's Commitment

- ▶ Many manufacturers promote “reuse” and/or “recycling with ESM” just like FX.
- ▶ Manufacturer's reuse:
  - ▶ Repair,
  - ▶ Refurbishment,
  - ▶ Reconditioning, and
  - ▶ Remanufacturing



# FX Integrated Recycling System



# 2-Types of Used Products Flow (for recycling and for reuse)

## I For Recycling Used Products for recycling



## II For Re-Use Used Products for reuse



### Waste Management Processing at manufacturing site

#### 1. Resource Recovery

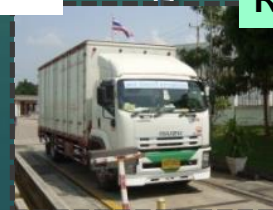


#### 2. Reuse Products MFG

##### 2-1. Re-manufacturing (Cartridges)



##### 2-2. MFP Reuse Re-conditioning Refurbishing



### 1. Resource Recovery Customers/Partners

#### 1-1. Material Recycle



#### 1-2. Thermal Recycle

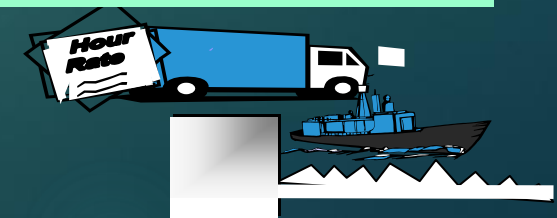


#### 1-3. Incineration



#### 1-4. Proper treatment at Overseas Partner

### 2. Reused Products Customers



# Reconditioning (product reuse through manufacturing process)

Receive



Shipping



Unpack



Disassembly



Cleaning



Parts change



Assembly



Inspection



Packaging

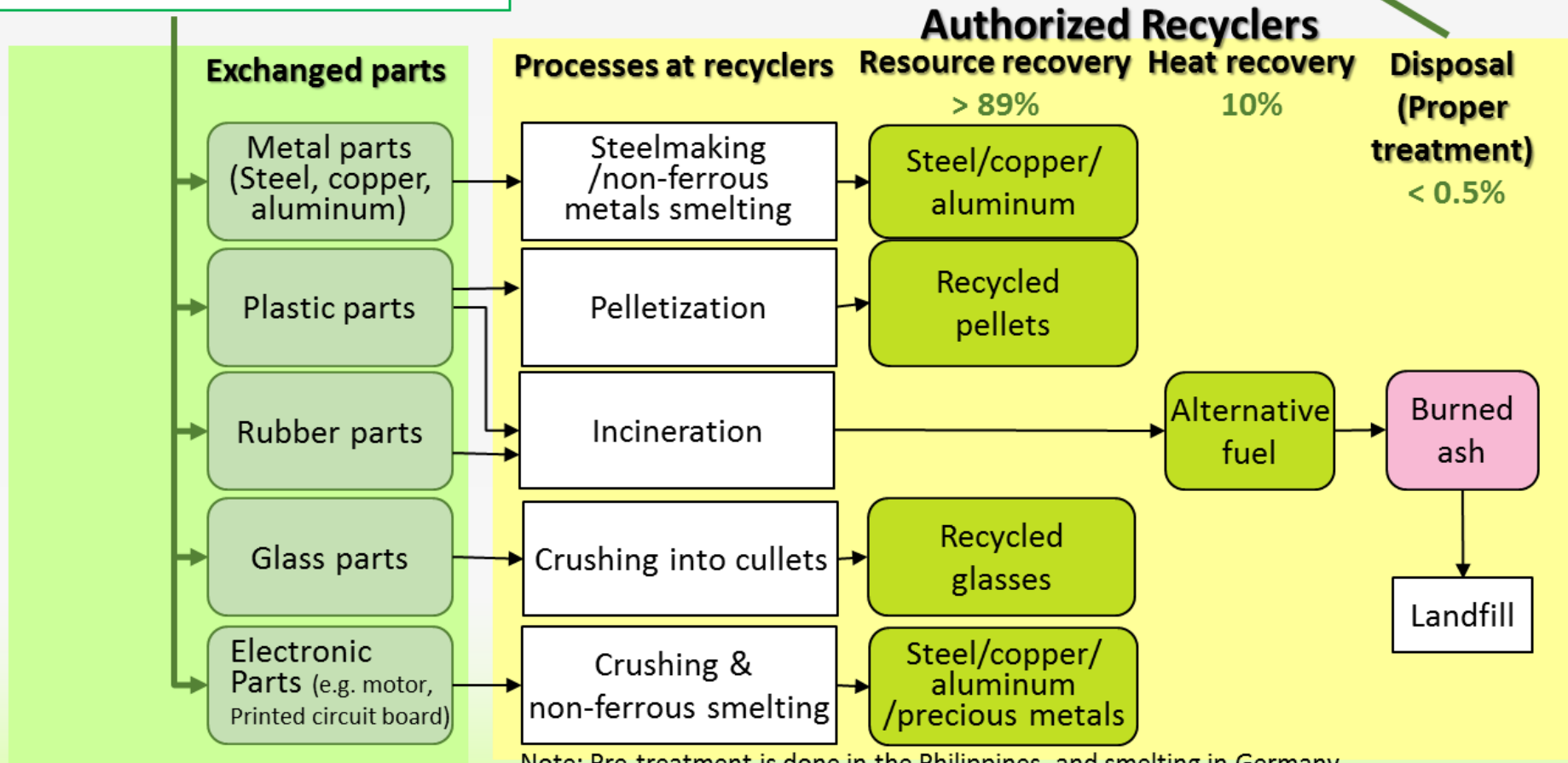




# Residues treatment

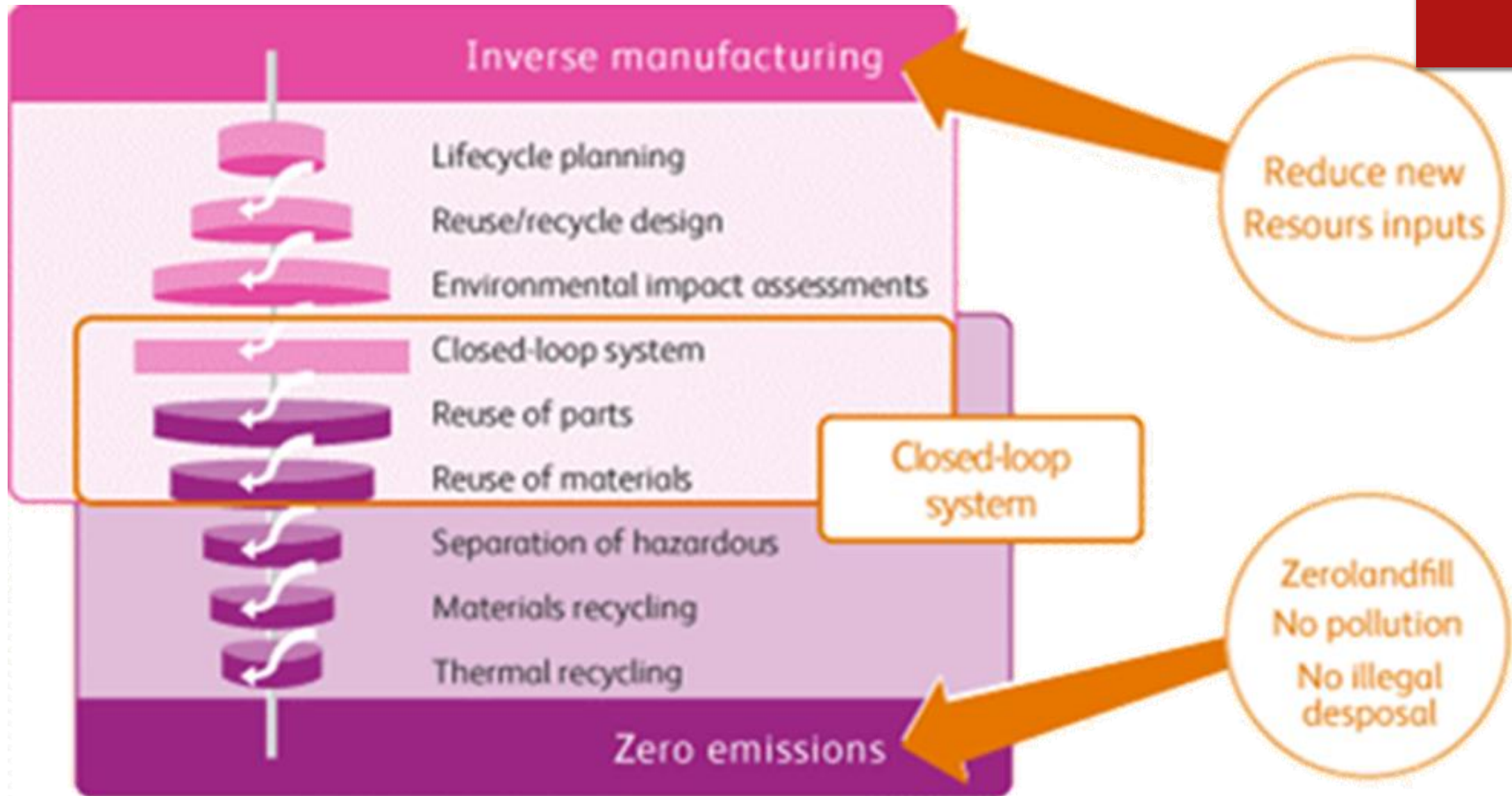
Exchanged parts (non reusable) become waste in the disassembly process

Little hazardous waste is generated from equipment compliant with applicable chemical regulations worldwide



Note: Pre-treatment is done in the Philippines, and smelting in Germany.

# Integrated Recycling System

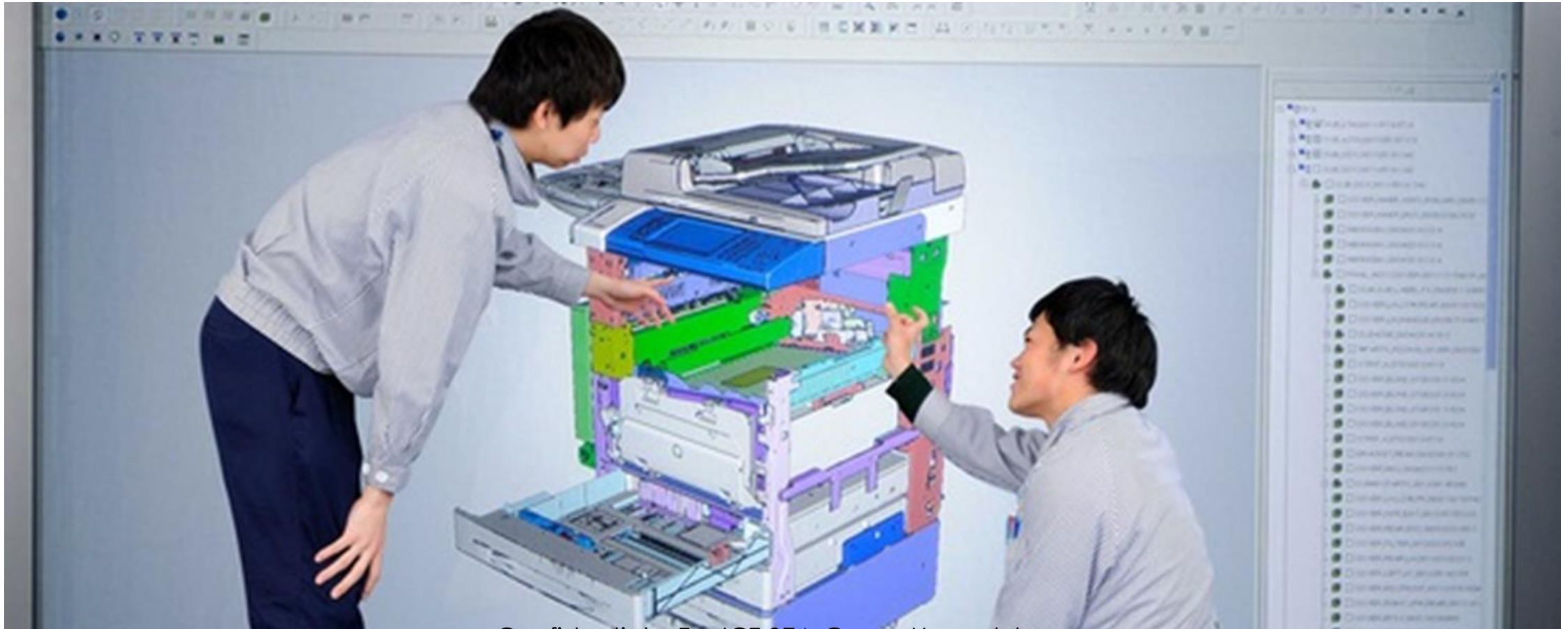


# Used products are not wastes but resources





# Redesigning business model towards reuse and recycling



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# Conclusions:

- ▶ EEE producers are supporting the fight against illegal e-waste shipments
- ▶ Using sophisticated centralized repair facilities enables us to preserve legitimate and efficient operations
- ▶ There exist clear and reliable methods to distinguish between products/parts shipped for legitimate repair and illegal e-waste
- ▶ EEE producers are committed to continuing work which promotes ESM.

# Challenge:

We need your help to ensure that our industry can still provide legitimate services to extend the life cycle of used products.





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# What we fight

# What we support



**THANK YOU!**