Security Level:

Huawei practice in E-waste management

www.huawei.com

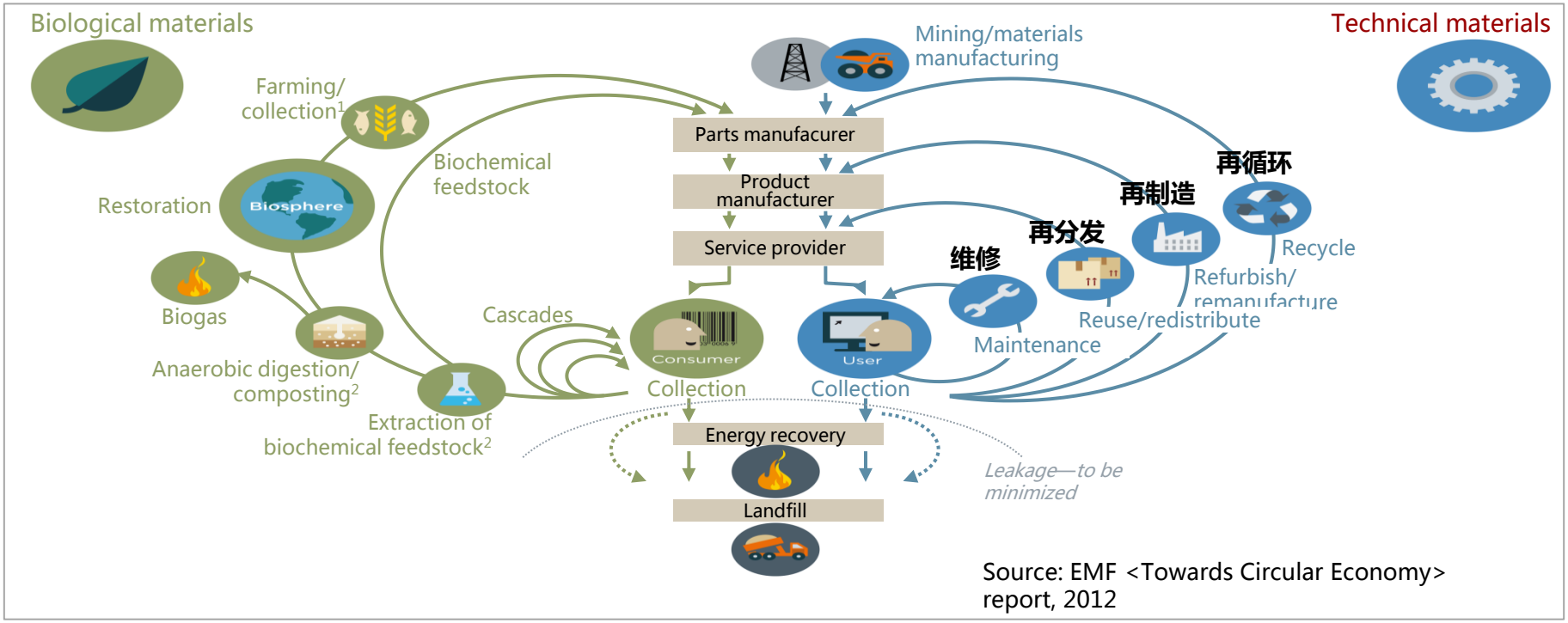
HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

Catalog

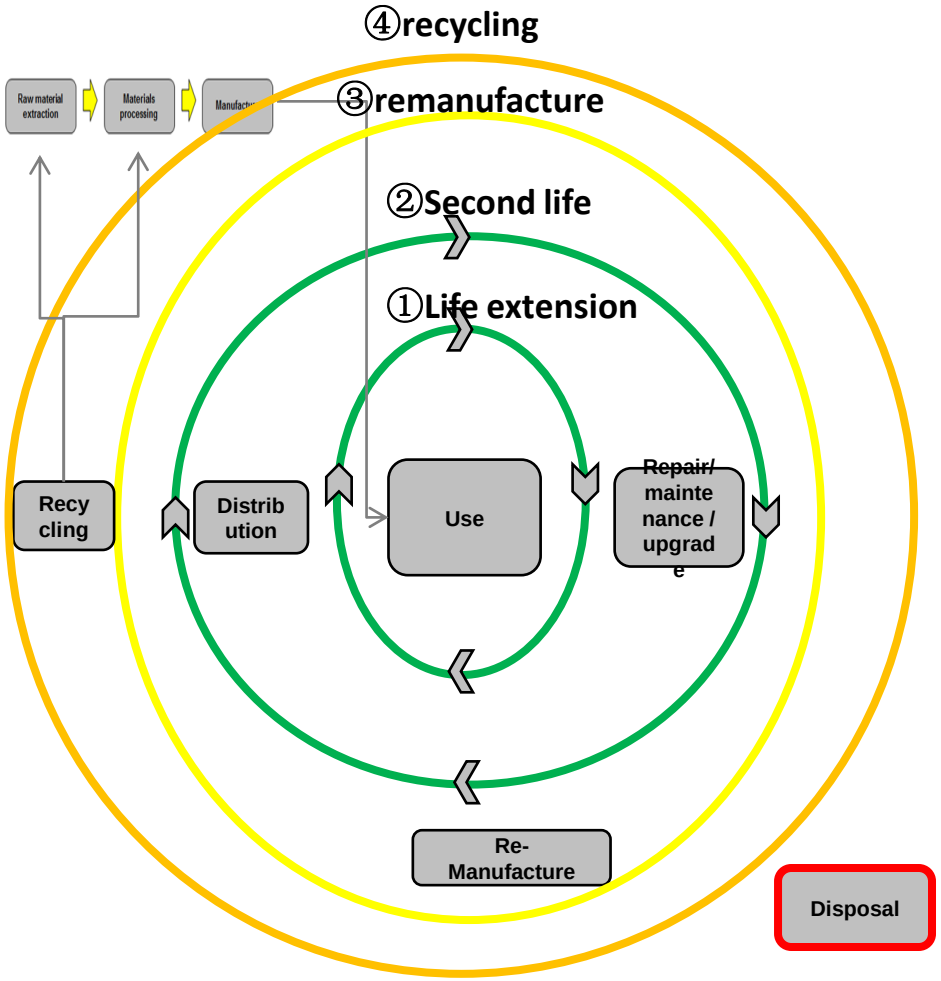
Theory of circular economy

Theory of circular economy



Source: EMF <Towards Circular Economy> report, 2012

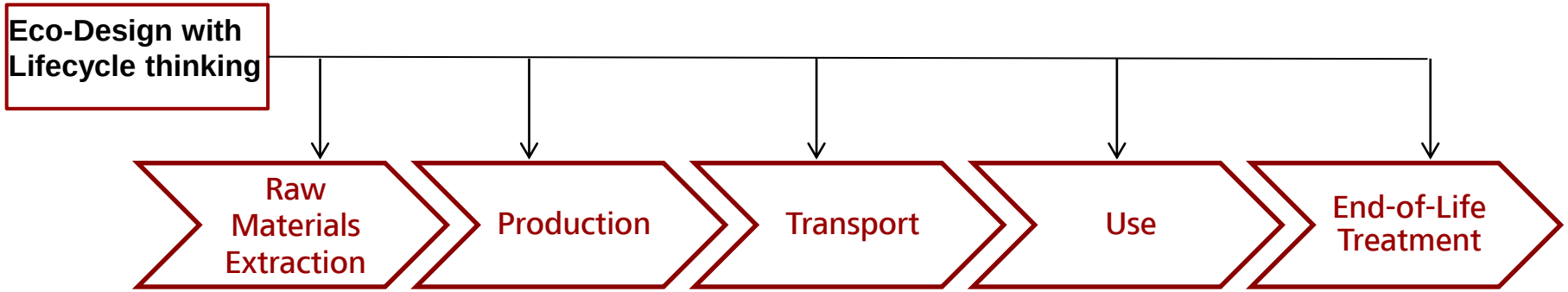
Opportunities of ICT manufacture in circular economy



Huawei circular economy practice - ECO design

Eco-Design for Huawei Products

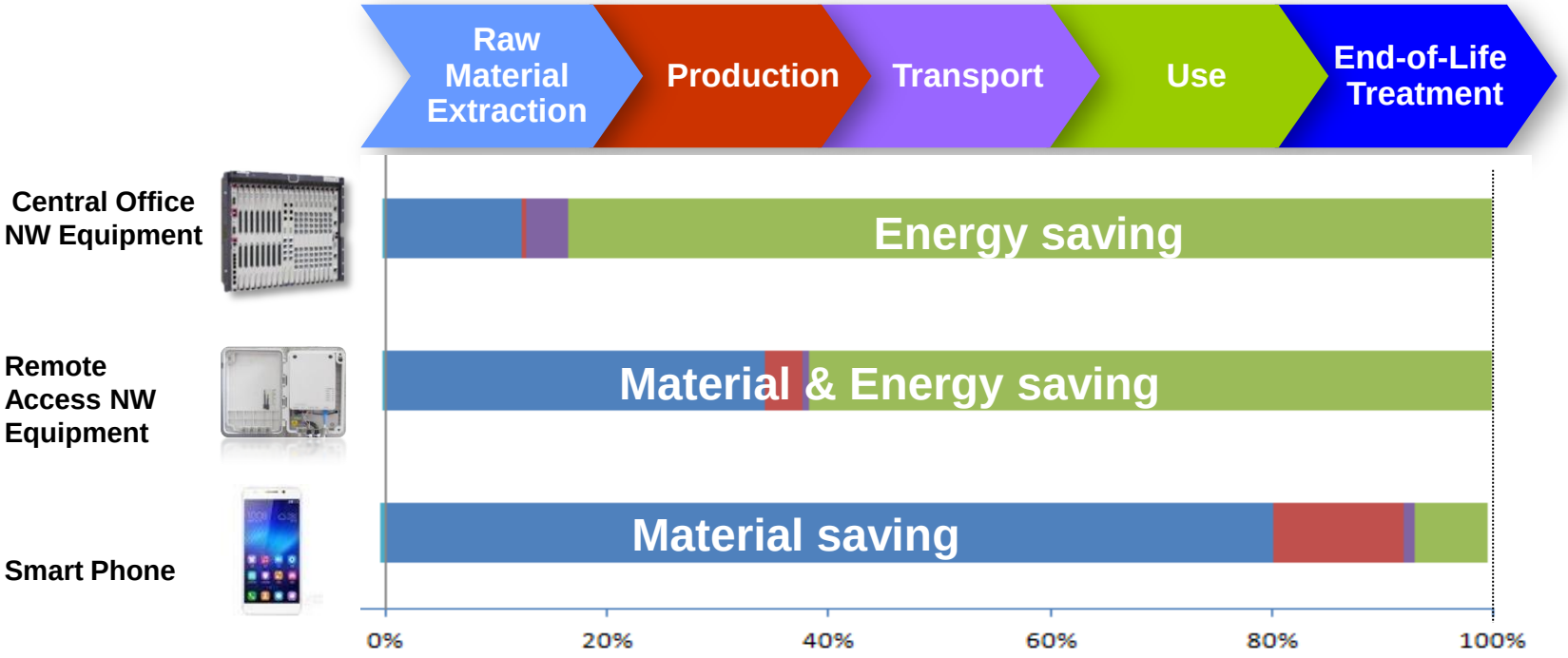
Key metrics: Energy efficiency, material efficiency , carbon emission



Eco-design: the integration of environmental aspects into product design with the aim of improving the environmental performance of the product throughout its whole life cycle

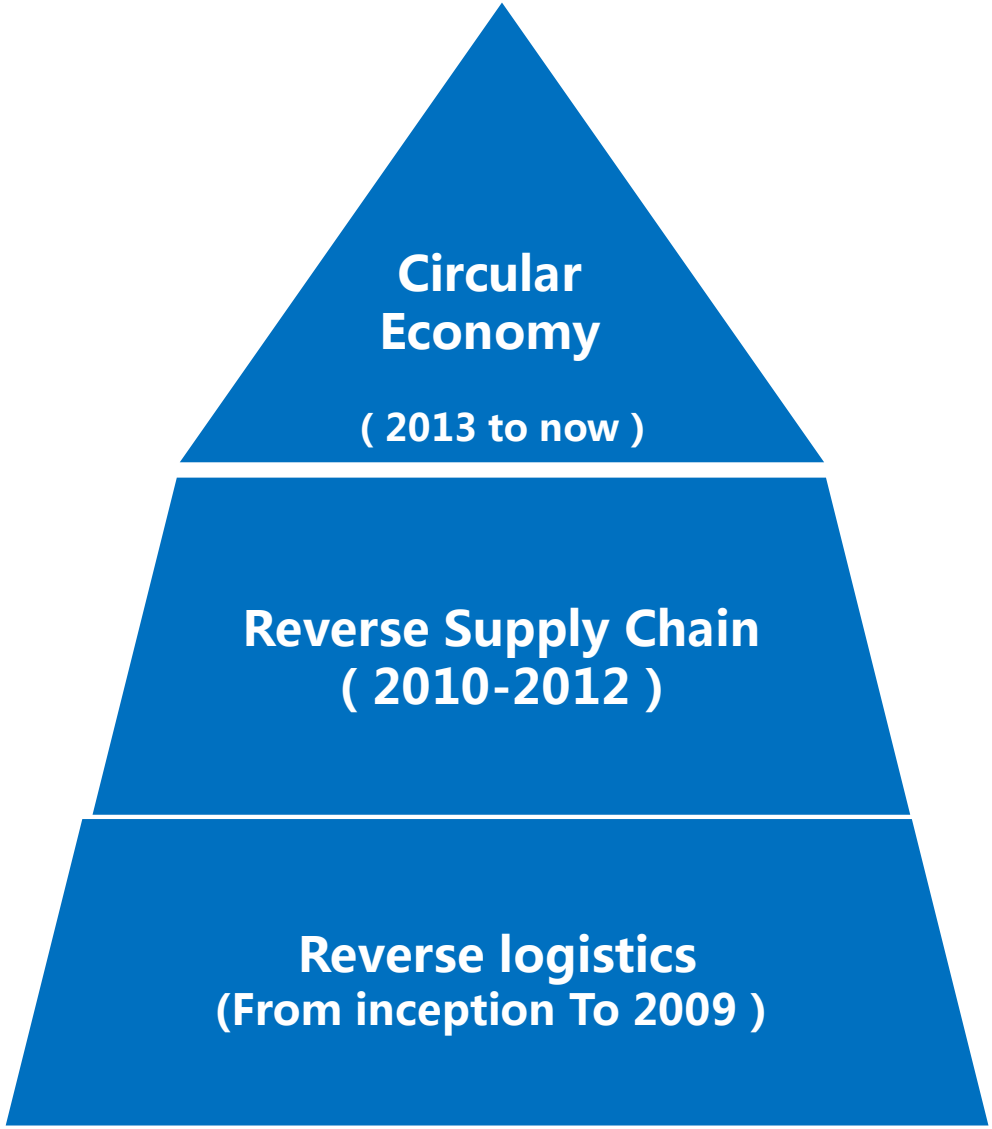
Eco-design implementation strategy in different products: Energy, Material, or Both

- **Some lifecycle phases represent key environment impacts for different products**
  - Energy consumption in use phase for telecom network equipments -> “energy saving focus”
  - Material & production for small NTE and CPE -> “new focus areas, material topics”



Huawei circular economy practice - Reverse supply chain

The road of huawei Reverse supply chain



Huawei reverse management platform

•Huawei reverse management platform integrates collection, storage, distribution, dismantling, testing, repair and recycling ability, serving globally reverse business.

△ Reverse management

△reverse warehouse

•234 reverse warehouse in 129 countries
•Function :
- ✓collection
- ✓storage
- ✓Distribution

△ Reverse center

•6 reverse center(Hungary, Mexico, HK, Shenzhen, Brazil,Dubai)
•Function
- ✓Dismantling
- ✓Repair
- ✓Testing

△ Recycling Platform

•100% coverage recycling platform
•Cooperate with TOP supplier, and reduce the effect to the environmental
•Function
- ✓Waste disposal
- ✓Resell
- ✓Supplier Mgmt

△ Process and IT supporting

△ KPI management

Recycling Practice-Bangladesh buyback project

1. Bengal buyback project refer to the 14K equipments, and about 724ton waste handing, and need move the equipment in 43 from Huawei warehouse, and finish the dismantling in 138 days according to the customer’ s request.
2. All the PCB will ship to Singapore. And other Non-PCB materials will dismantling to raw material resell in raw material market

1:Inbound to supplier's warehouse

2. Sort & Segregate

3.Demanufacturing

4:raw material extract

5:raw material

0.31%

landfill

Reuse Practice: Whole Equipments Testing and Repair Project

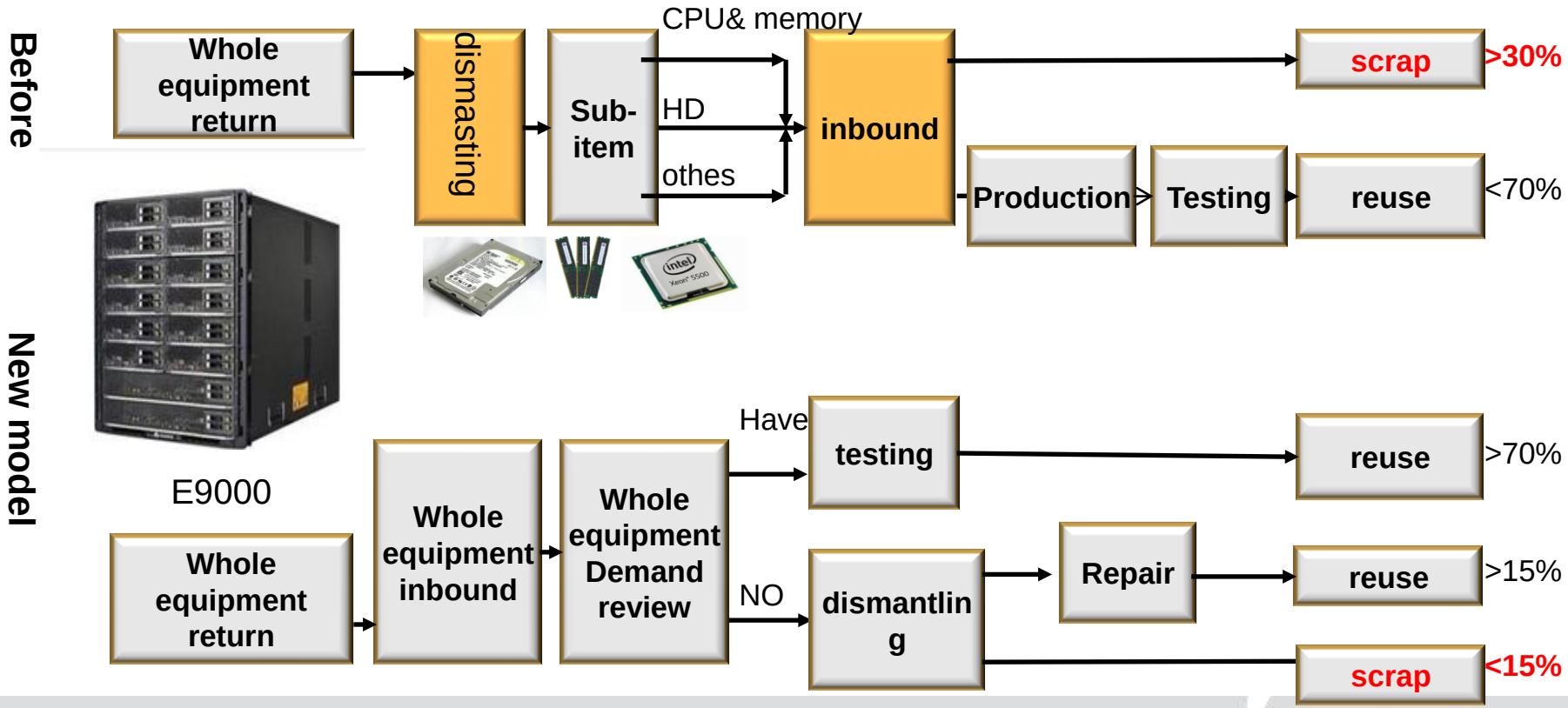
Background:

Reverse team need dismantle whole equipments as offset and system requirement, only sub items could be inbound to system. it will bring nearly 30% scrap in the dismantling process.

Whole testing Solution: scrap ratio decreased to 15%

(1) System optimize: System inbound by equipment level

(2) Operation level: No need dismantle whole equipments, and store by whole equipment level;



Most people are thinking how to impact the world, but we are engaging to reduce the impact to the world!

-From HUAWEI Reverse Team

Thank you

www.huawei.com