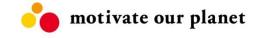
# Waste Management & Recycling Services of DOWA

26th August, 2019

Kimio Matsumoto Director

DOWA ECO-SYSTEM CO.,LTD.





### **Overview of DOWA Group**

Foundation 1884

Capital \*32 m USD

Net sales \*4.0 b USD

\* At a rate of 112 JPY per USD

Employee 6,700

Global activity

··· Over 100 networks



**Subsidiaries** 

Japan -70

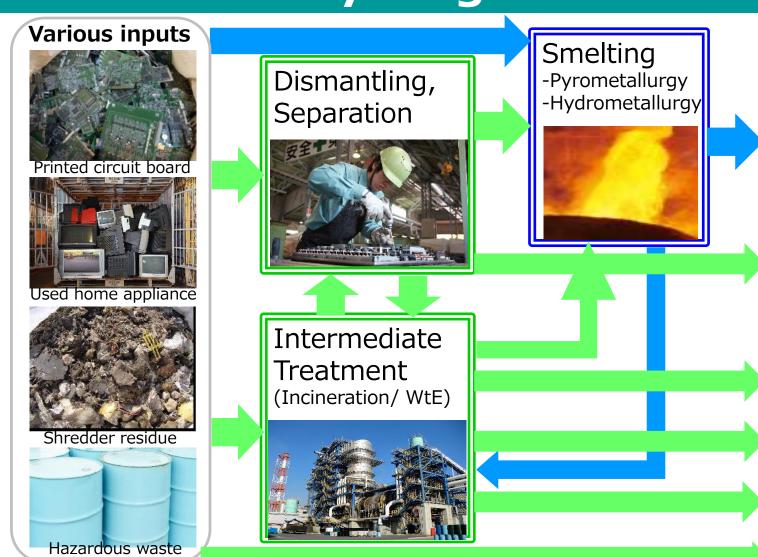
Asia - 30

Europe, America

- 10



# DOWA's Waste Management & Recycling Services



**Various outputs** 

Nonferrous Metals



Secondary Materials (Fe, Al, Plastics, etc.)

Energy

Landfill



### DOWA's Characteristics of Smelting

Collaboration of 3 smelters enables efficient recovery of various metals



Zinc concentrate, Steel dust



Metal scrap



Printed circuit board



Auto spent catalyst



Akita Zinc



Kosaka Smelting & Refining



Nippon PGM

Zn, In, Ge, Ga, Cd, etc.

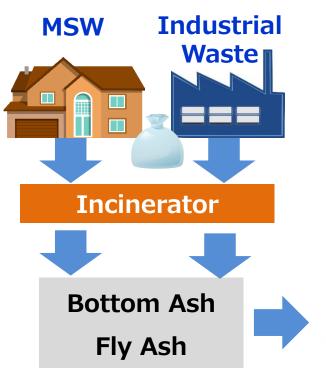
Au, Ag, Cu, Pb, Bi, Sn, Sb, Ni, Se, Te, etc.

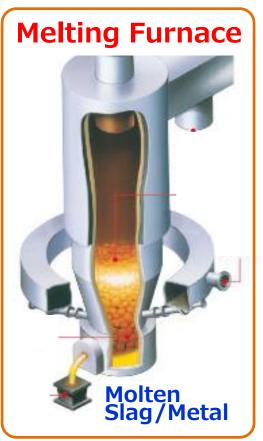
Pt, Pd, Rh, etc.





#### Recycling of Incineration Ash

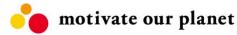












- ✓ 2 plants in Japan
- ✓ Harmony between Waste management and Recycling
- ✓ Zero landfill



#### **Global Activities**

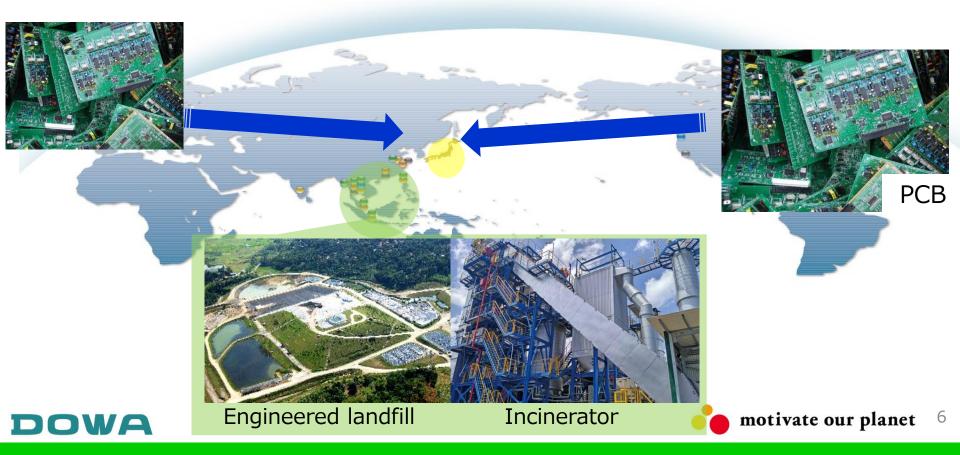
Recycling:

Global trade of E-scraps, intensive recovery in Japan

- Waste management:

Various services, following each country's regulations and needs

; Indonesia, Thailand, Singapore and Myanmar





## motivate our planet







