

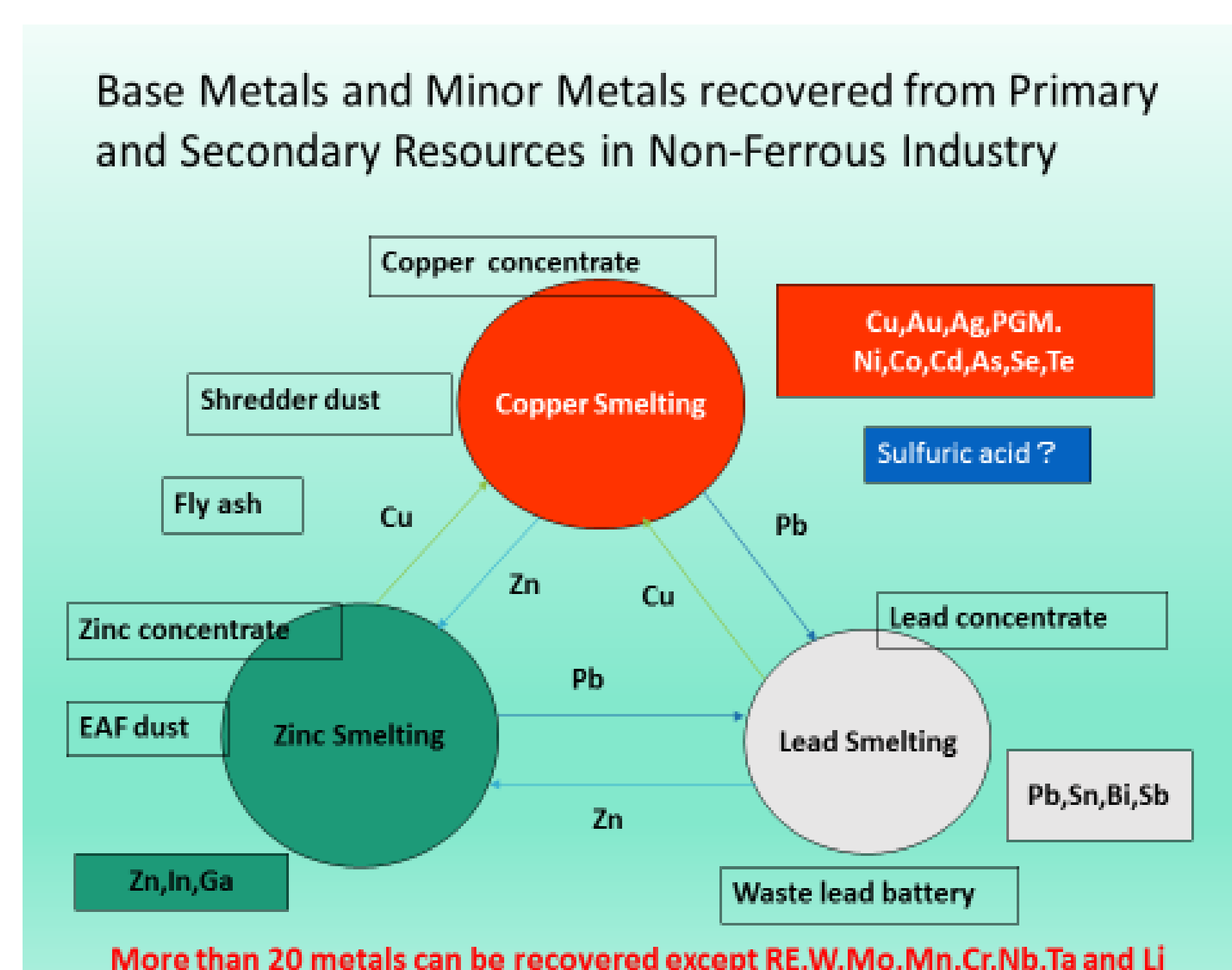
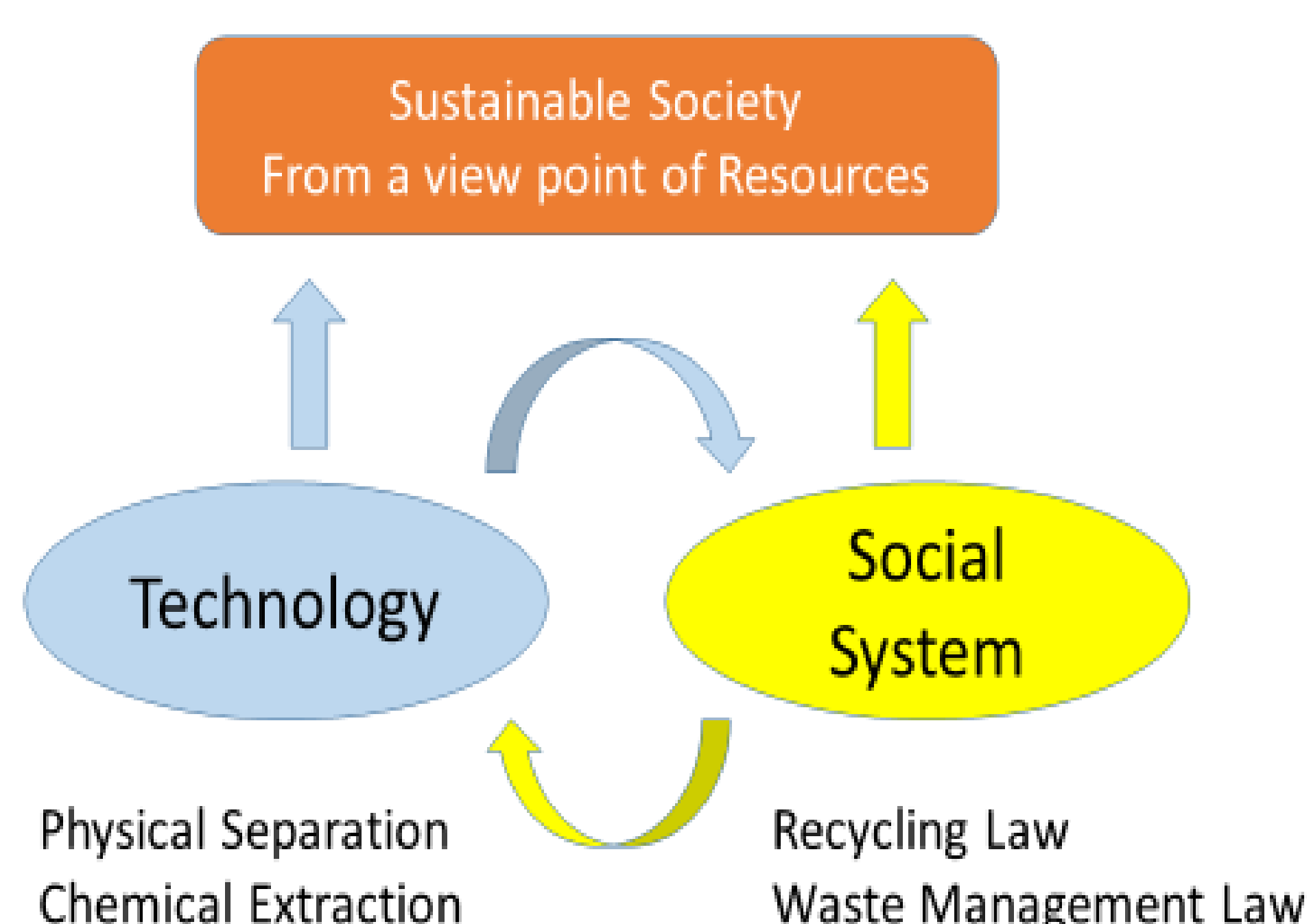
NAKAMURA LAB.

-Establishment of Sustainable Society from Coupling Technology and Social system-

International Research Centre for Sustainable Materials
Endowed Research Unit for Non-ferrous Metal Resource Recovery Engineering
Metallurgy and Recycling System for Metal Resource Circulation

Coupling Technology and social system for Sustainable Society

Concept of Coupling Technology and Social system

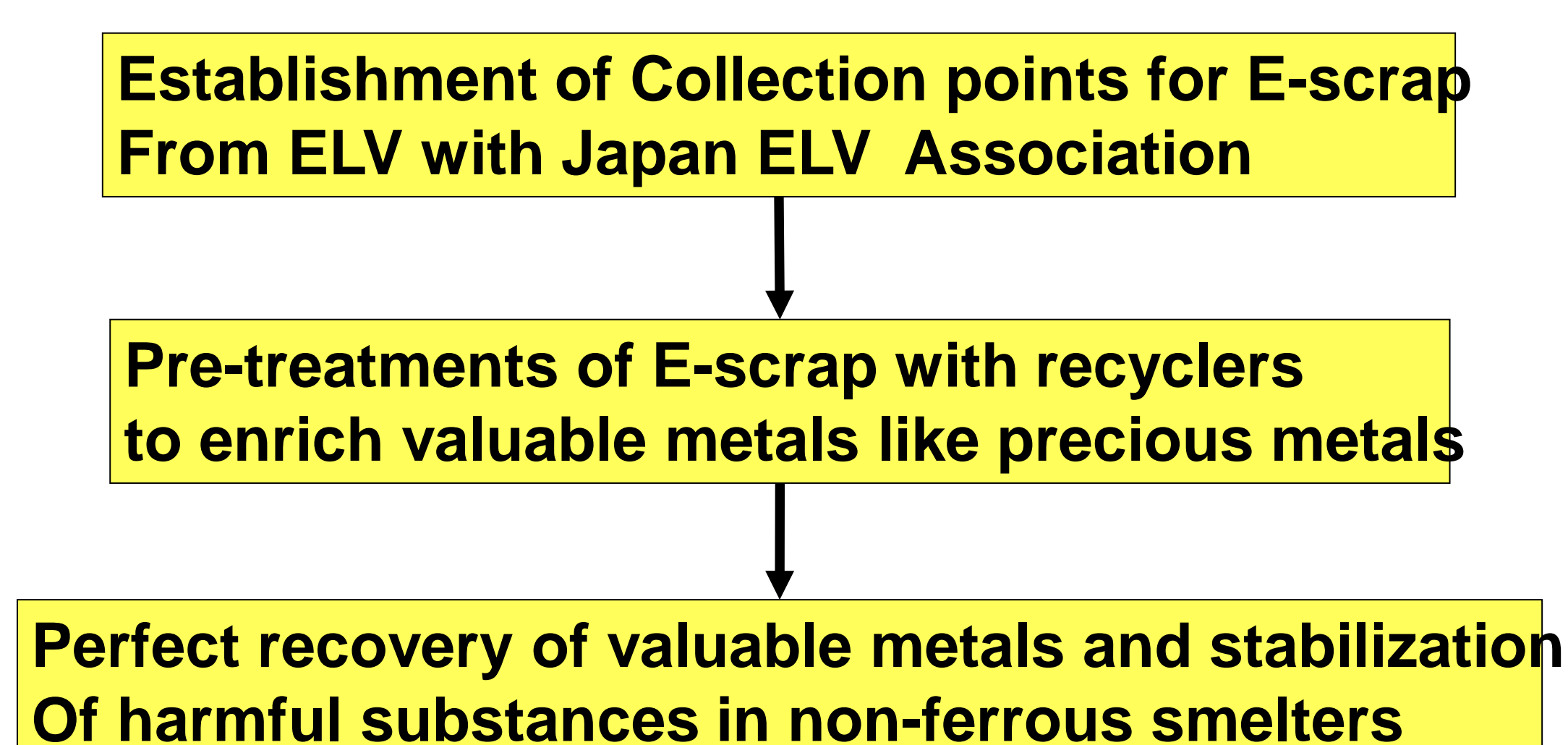


Target: to develop the process technologies and social systems for metal recycling, waste detoxification and energy recovery based on the non-ferrous smelting industries

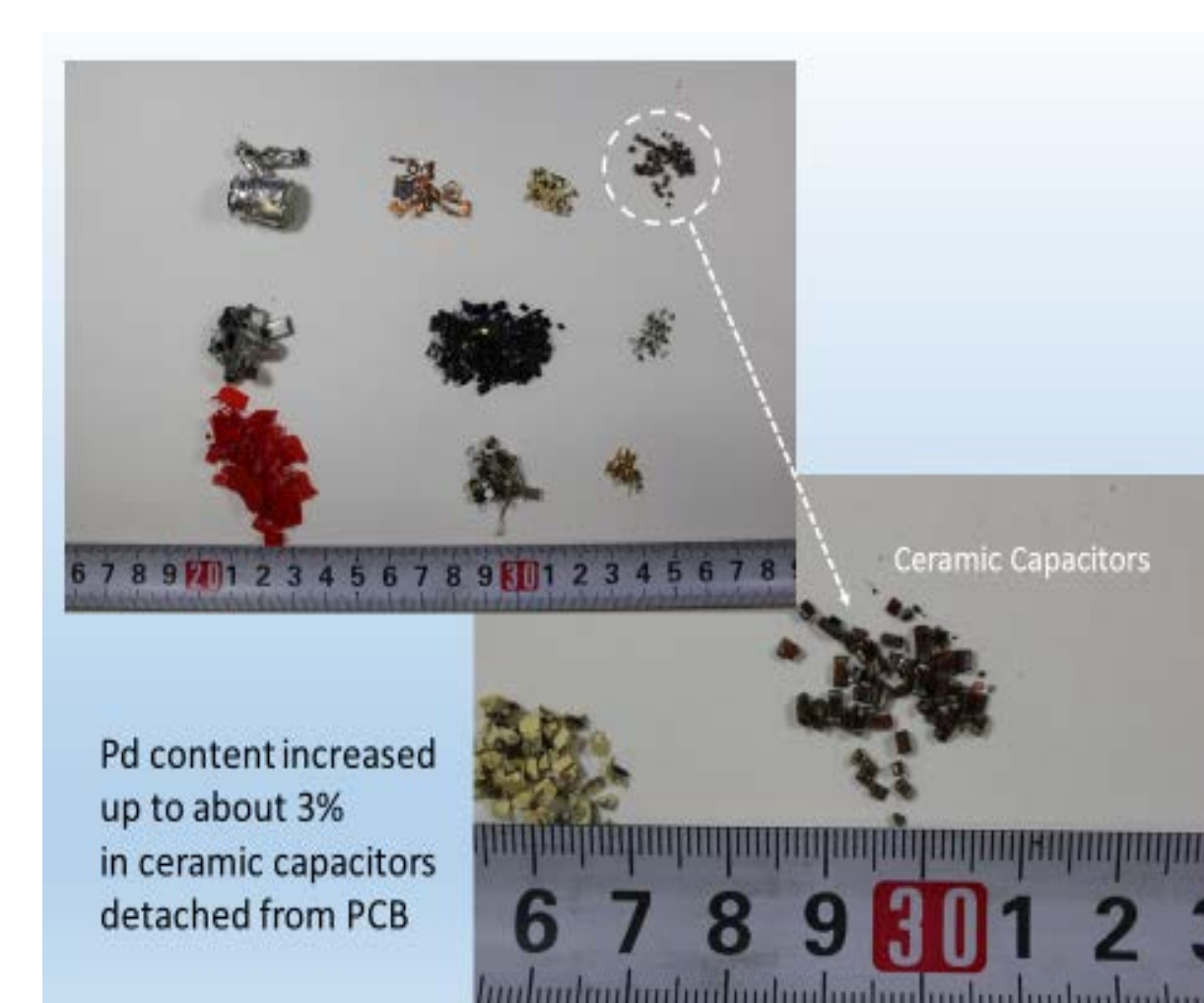
Current Topics

- ✓ THERMAL AND HYDRO PROCESSING FOR METAL RECYCLING AND WASTE TREATMENT (CHEMICAL THERMODYNAMICS)
- ✓ WASTE TREATMENTS AND ENERGY RECOVERY BASED ON THE NON-FERROUS METAL SMELTING
- ✓ FIELD STOCK RECYCLING OF WASTE PLASTICS CONTAINING BROMINATED FLAME RETARDANTS
- ✓ DEVELOPMENT OF ELECTRICAL DISINTEGRATION METHOD USING HIGH VOLTAGE ELECTRIC PULSE FOR E-SCRAP

Environmental friendly Collection system of E-scrap from ELV



Apparatus of electrical disintegration method using electric pulse



Various electric parts obtained from ELV E-scrap using electrical disintegration method