



Recycling Technology for Tomorrow



TES-AMM Global Network



Scope of services



WEEE

[Consumer & Take back program]



OEM

[Manufacturing]



IT Asset

[Data Wiping & Degaussing]

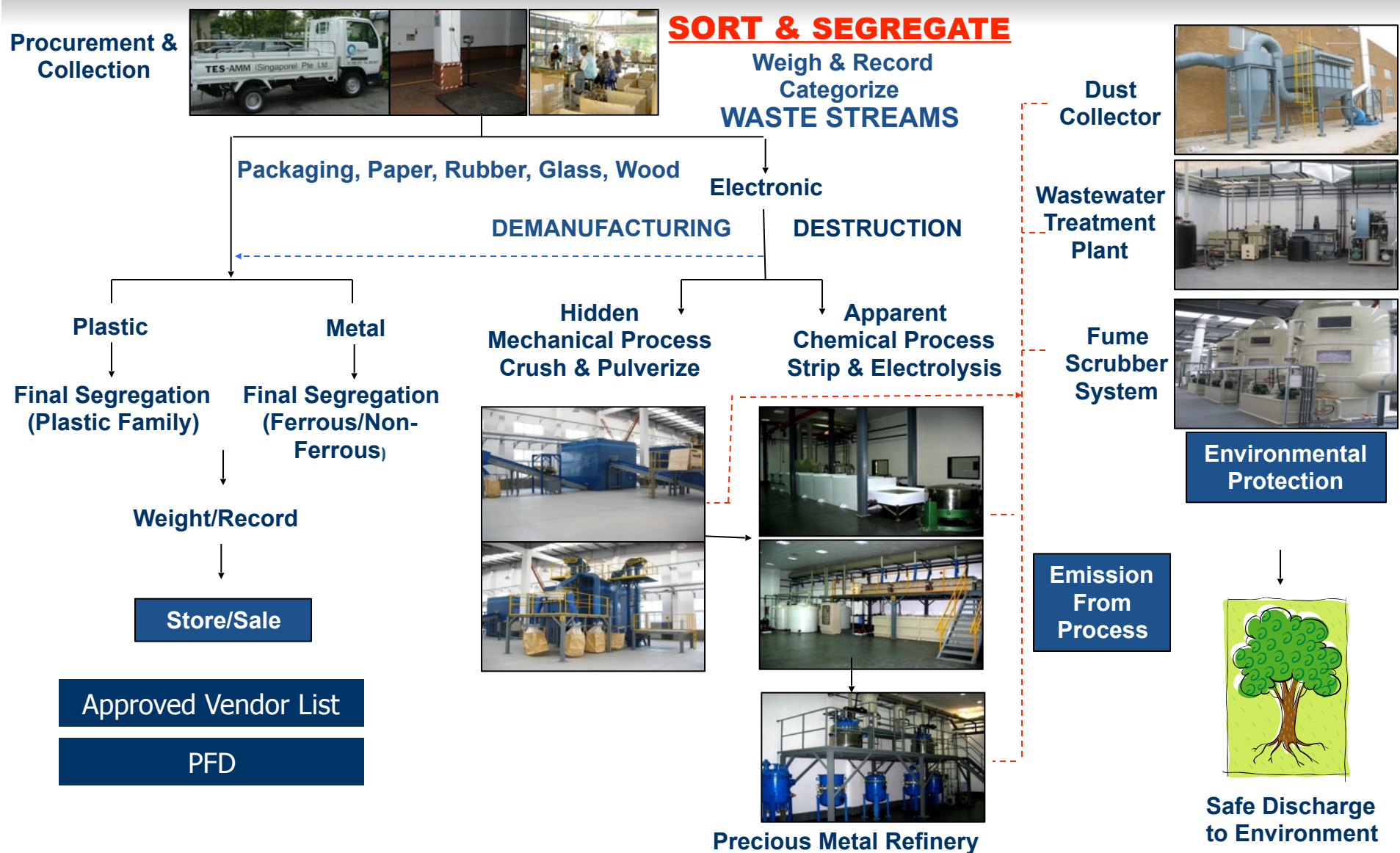


Our Strong point



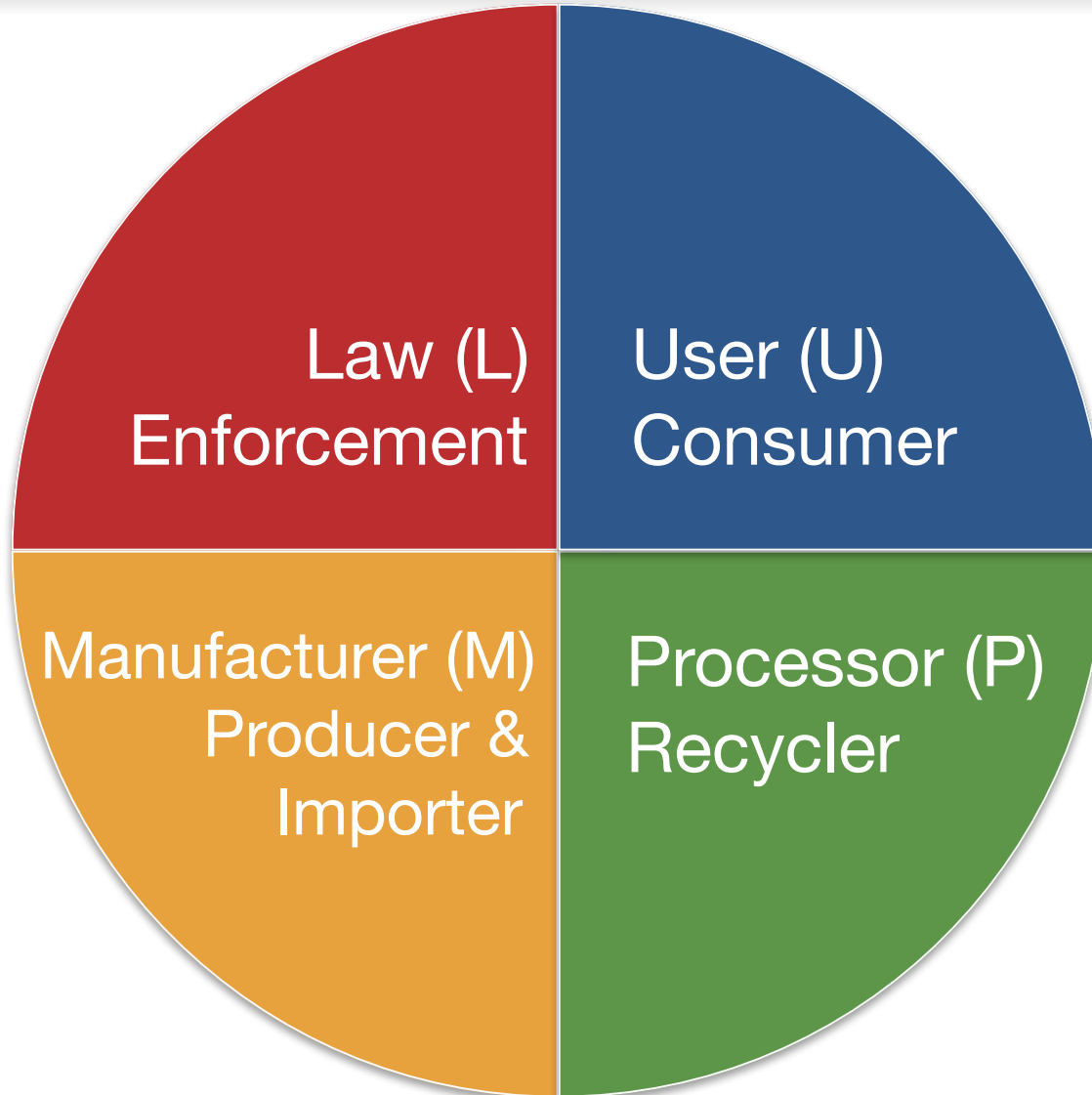
- Electronics & Electrical Equipment Recycling
- Spent Epoxy Resin Recycling → Plastic Pallet
- Li-ion Batteries Recycling → Co
- ISO Certified – 14001, 9001, OHSAS 18001, ISMS 27001
- R2 Certified – eWaste Recycler Std.Guideline
- e-WTS – Tracing system (24 hrs. monitoring)
- High Recycling Ratio
- World Environmental Insurance
- Carbon Footprint (12.58 kg CO₂ emission saved per 1 phone recycled)

Overall Process Flow





LUMP Factors on E-waste management in Thailand





Law (L) Enforcement

WEEE Directive

The draft on Integrated Strategies for Electrical Appliance & Electronic Waste Management (Under PCD)

(As Approved by Cabinet on the 24th of July, 2007) is on hold by MOF

Manufacturing e-Waste vs Household e-waste

e-Waste from manufacturing is now controlled by law (under DIW) but e-waste from household, no law enforcement yet

Lack of Collection Centre

Subdistrict Administrative Organization (SAO), Subdistrict Municipality, Provincial Administrative Organization (PAO), BMA (51 Municipalities)

Lack of Collection Bin

No bins provided by government

No course in class

The MOE shall put in place for the Sustainable Development Goals (SDGs) approach

Write off assets by Revenue Dept.

Regarding the notification of Revenue Department (RD), write off the e-Waste's assets need to be crushed, damaged before dismantling process.

DIW Approval before collecting (Factory's case)

Especially OEM, a plastic or metal parts where a part of electronic should be considered in the same way of an electronic parts as well

Dumping Area

No severe procedure enforced for Dumping Area or illegal landfill



User (U)
Consumer

Money

Don't care where it goes

Lack of Knowledge

Don't know where to
drop

Lack of Awareness

Reduce Reuse Recycle
but No Responsibility



Manufacturer (M) Producer & Importer

Lack of Take Back Campaign

Mostly are international company where the campaign in place
Take Back Campaign as one of CSR program-no routine
campaign

Insufficient Communication

Take back campaign in place but no informations/
communications to the public

No Incentive / Promotion to the public

Most people prefer to get prize / incentive / lucky draw once drop
or buy a new appliance

Insufficient Collection Bin provided

Bins have been provided in only big city and only for SED (Small
Equipment Device)

Lack of Reversed Logistic model

Take back WEEE while selling the goods

Eco-Design Directive

Non-Compliance on Eco designed product approach, most of the
parts of 1 equipment consist of many type of plastics like HIP
+FR, PS, ABS+FR

Price Concerned

Price is an issue to be a no.1 rather than proper management
especially local company



Processor (P)
Recycler

Cherry-Picking

Especially local Junk shop take out only valuable parts, the rests dumping somewhere (No Holistic approach)

Bad Management

Due to buying price effect (no get paid) high competition since many competitors

Lack of Standardized Recycler in Thailand

Only basic process using traditional technology to extract precious metal

Want to be a bidding winner

No matter what they have capability to treat or not.

E-Waste Recycler using EPR model : EU vs ASEAN

