

Management of Waste Disposal System of Nonthaburi Provincial Administration Organization

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NPAO, Thailand

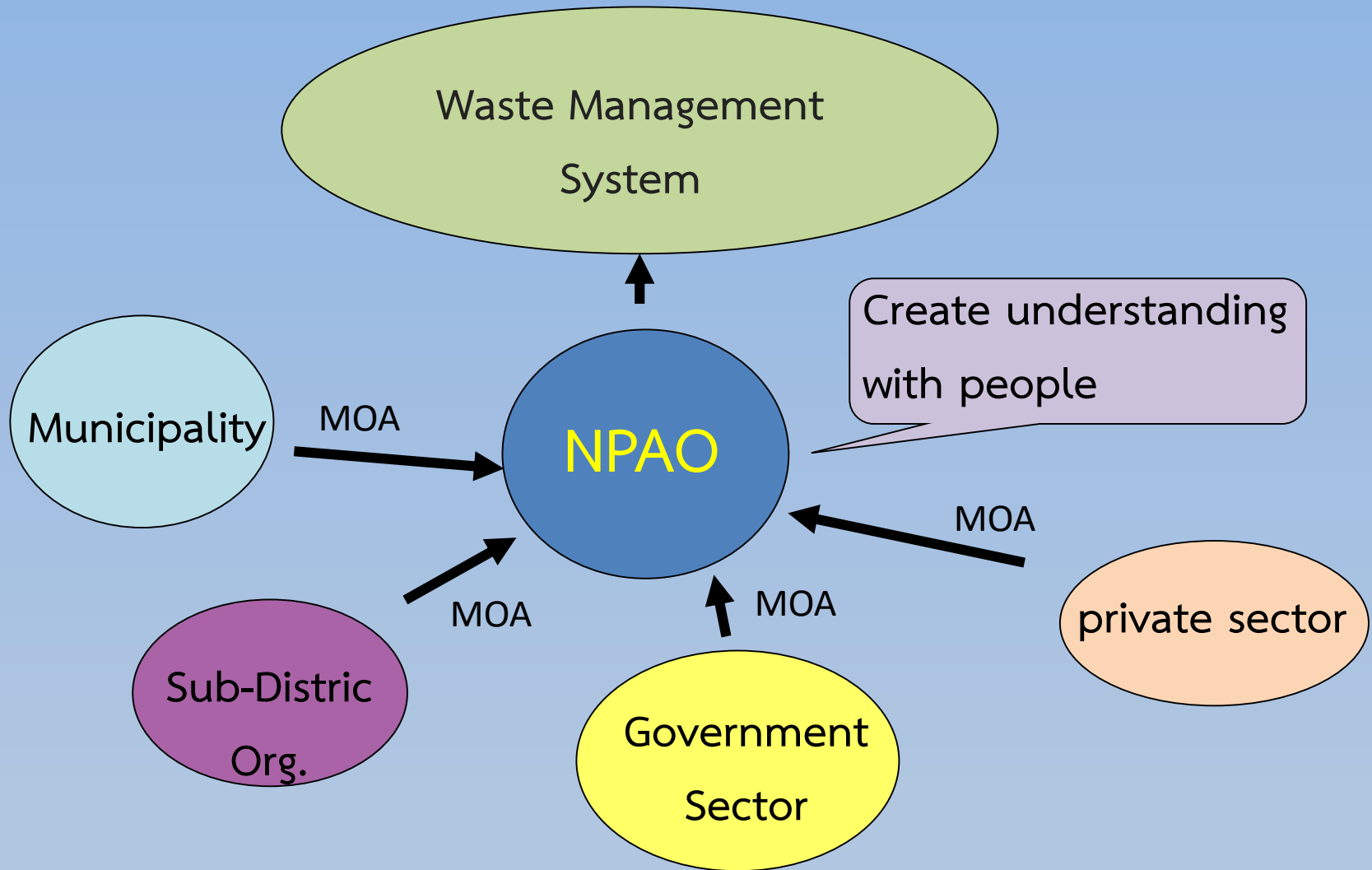


NONTHABURI PROVINCE



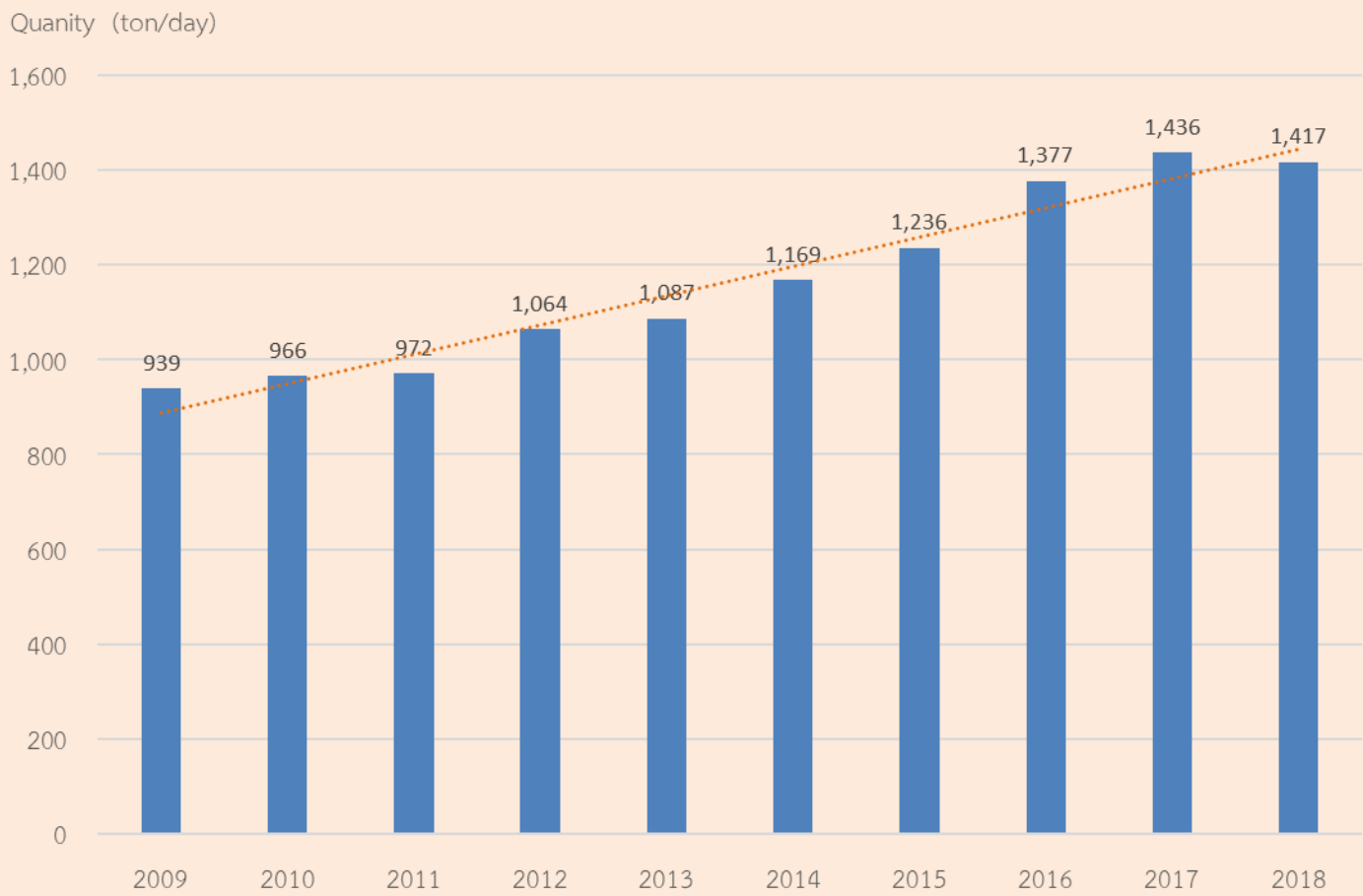
AREA	622.38 SQUARE KILOMETERS
POPULATION	~ 1,246,295 people

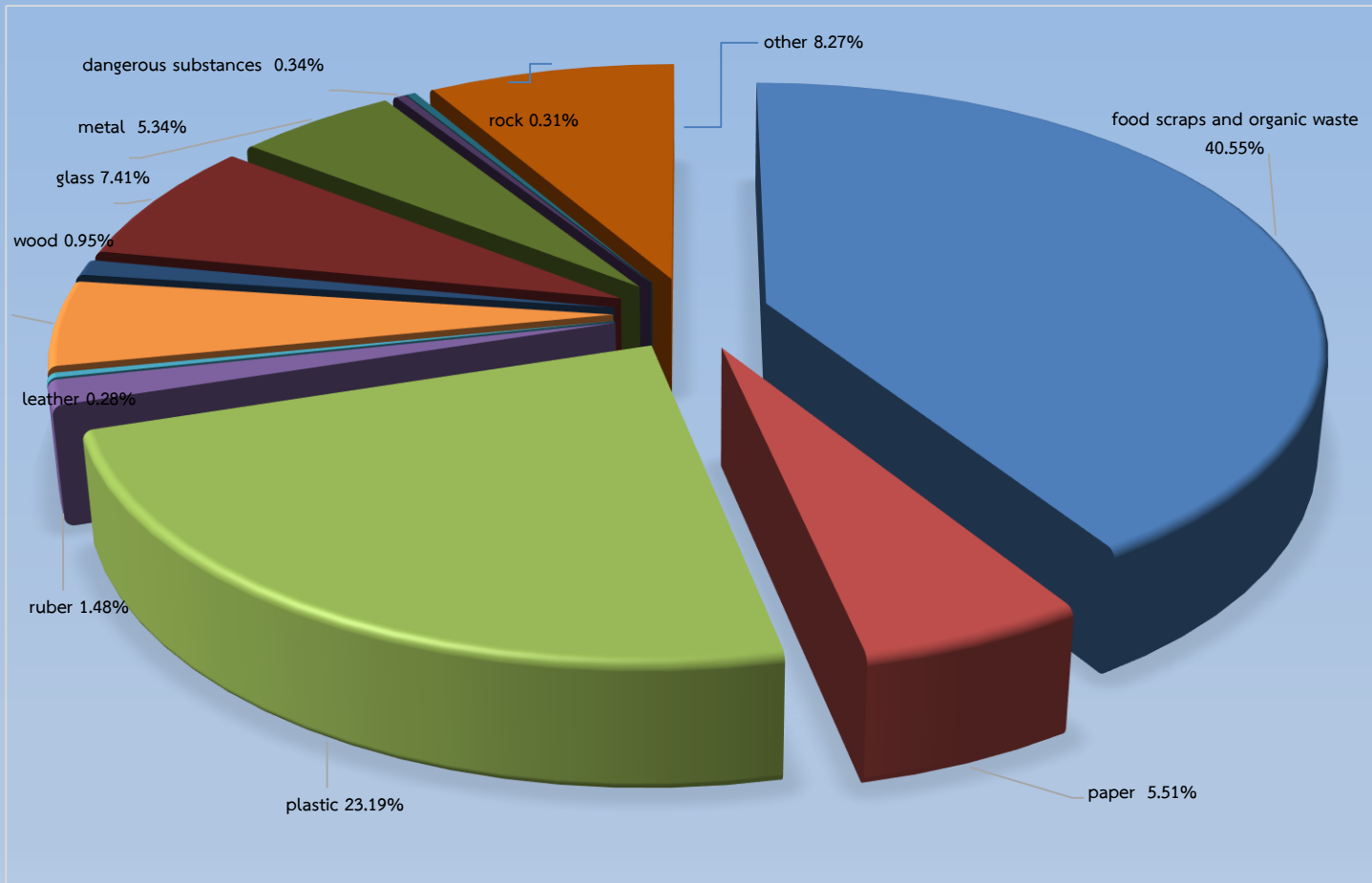
Administrative area	
PAO	1
District	6
Municipality	19
Sub-district administration organizations	26



Waste management modle of Nonthaburi

The average annual amount of Waste between 2009 and 2018





Physical properties of waste

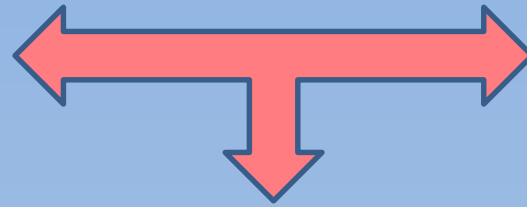
Waste management in NPAO

Tackle old problems

- Closed for area rehabilitation
- New Salitary Landfill
- Leachate Treatment Plant
- Adjust the landscape

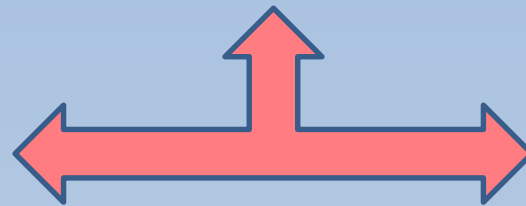
Add value

- Gas Landfill
- RDF



Budget

- Government
- Local gov.
- private



New system

- Change Technology
- Study the feasibility of investment
- EIA
- Privatization to private sector

Build cooperation

- MOA
- Cooperate
- Return revenue

Landfill area of NPAO before 2004



Improvement and closing of the landfill area in 2004



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Improvement and closing of the landfill area in 2004



Improvement and closing of the landfill area in 2004





Before Rehabilitate

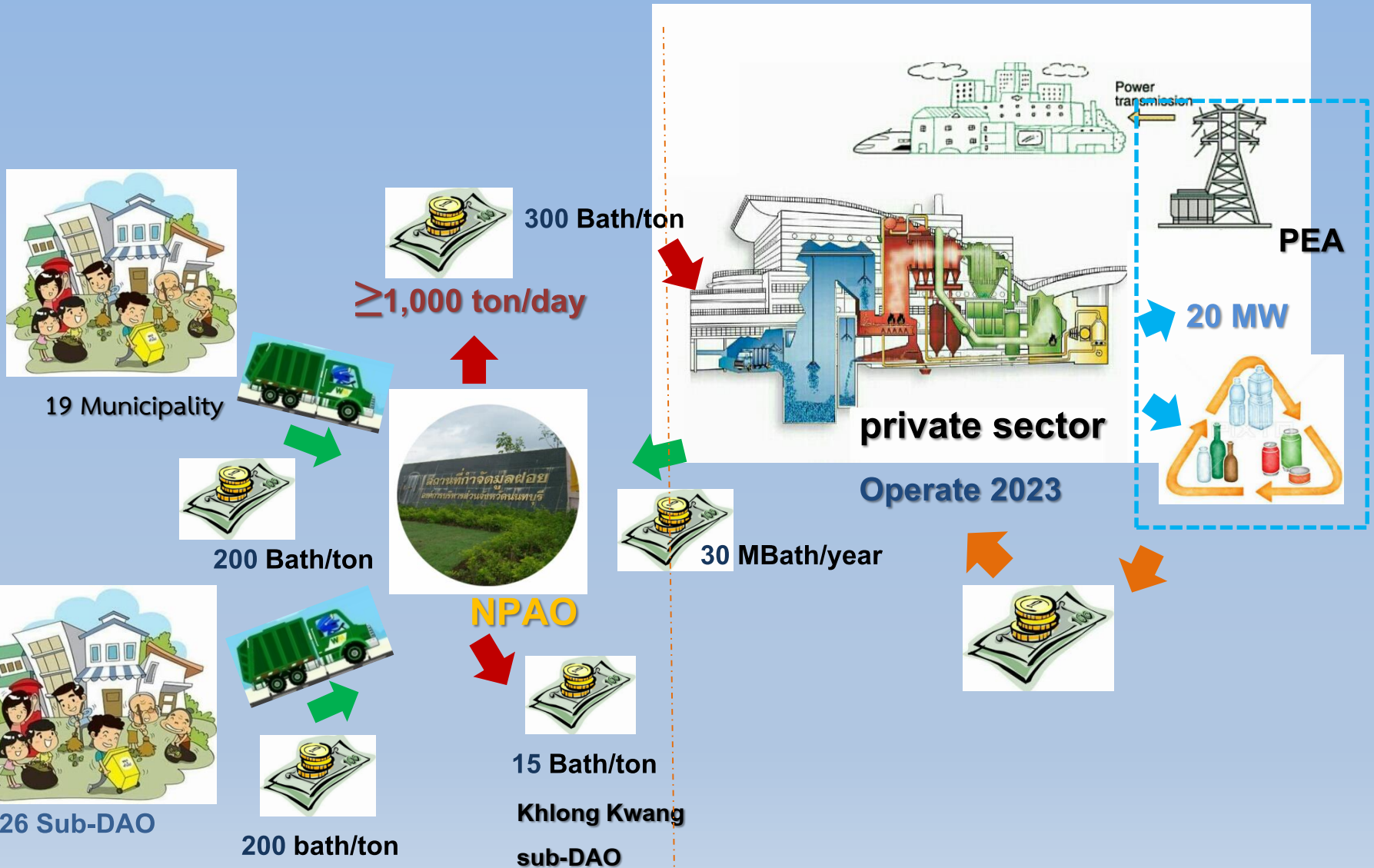


After Rehabilitate

Sanitary Landfill Site of NPAO on 2019



Private investment project for construction and management of solid waste disposal systems (Waste to Energy) 1,000 ton/day 20 MW



Private investment for LFG 6.24 MW Power Plant project



Flare



H₂S Treatment



Gas Blower



Chiller Heat Exchanger



Gas suction pipe hole and Gas conveyor pipe



Generator

Private investment for RDF 9.5 MW Power Plant project



Power Plant going on construction



RDF Plant capacity 250
Ton/day



Community and Society



Training and study activity
activities



Training and study activity activities



Training and study activity activities

Management of Plastic Waste

Policy : Clean Province



Action



Local Government : 3R



Waste separation activities

Management of Plastic Waste

NPAO : Support plastic waste reduction activities



School

- Green and Clean activity
- Zero waste school

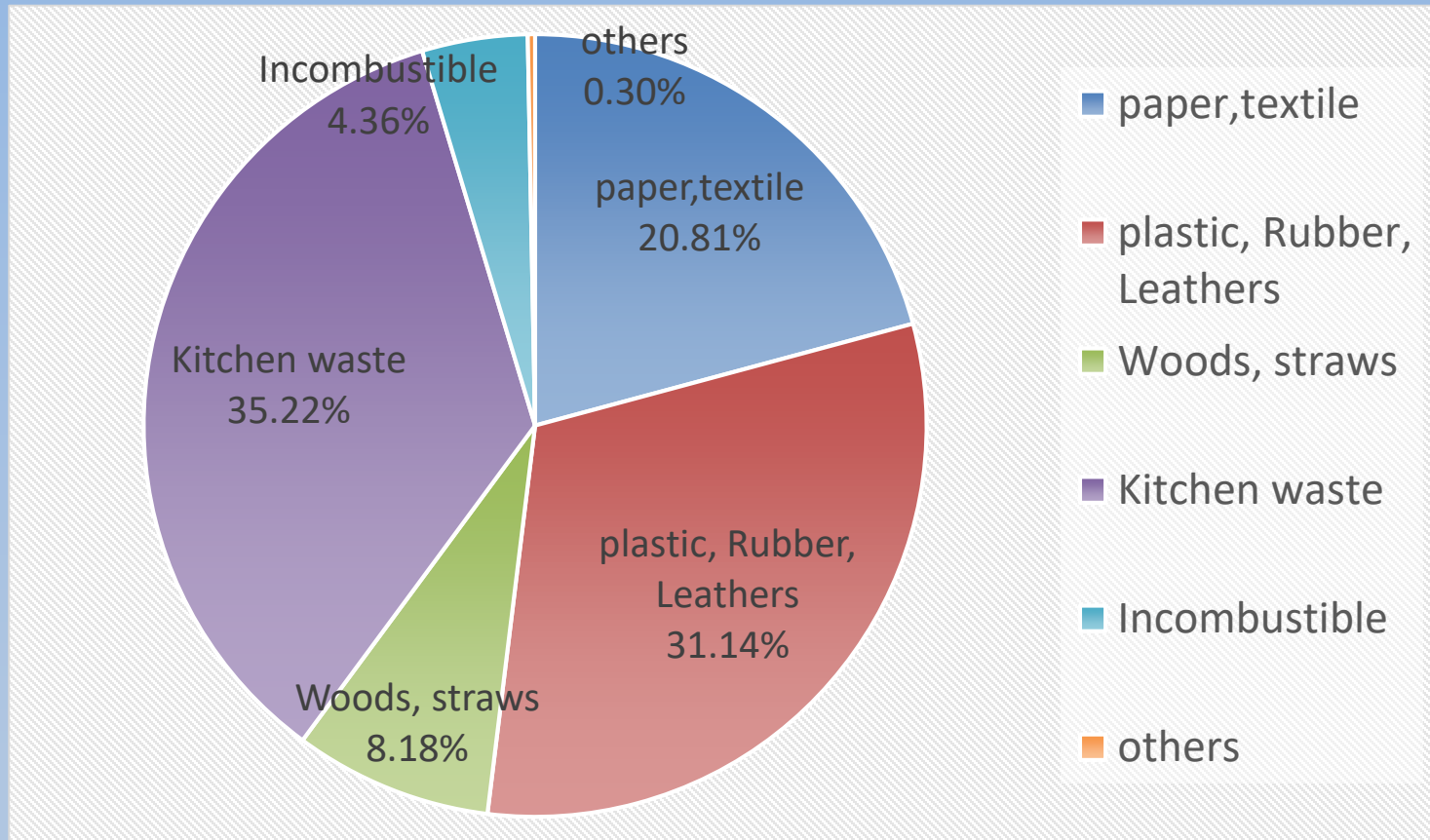


Community

- Training



Management of Plastic Waste



Physical properties of solid waste, 2019

Thank You