Master Class in Recycling in Emerging Economies
Service Chains and Value Chain
Basic Concepts and Vocabulary
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The Recycling Value Chain: The Value is Harvested from Waste

Generally private globalised landscape financed by trading origins in 19th century industrialisation the money comes from trading value, by the kilo sorting, densification, storage, transport/export purchasing always driven by specifications and controlled by buyer
Recycling vocabulary & concepts

End-user, producer “market”
uses the materials in production

Processor, exporter, “last buyer”
inspects, packs, reports to Ministry, Customs, EPR system

MRF, intermediate processor, sorting centre
receives commingled materials from separate collection,
buys mixed commercial waste, has a sorting line, plus baler

Junk shop, scrap dealer, trader, “recycler”
buys, aggregates, densifies, stores, and trades

guy with truck/small junk shop/“first buyer”
buys from individuals at premises or from vehicle

Individual/Family Informal Collectors
collects from the street, containers, dumps, neighbours

Businesses/Shops
separate at source, sell

Individual/Family/NGO
gets from home, neighbours
stores separately, sells
Municipal Service Chain: value is in the clean empty space left behind

Service Chain – Municipal Sphere of influence

Generation: Household & business

Collection, removal, street sweeping

Disposal: open /controlled dumping, landfilling, WTE

Local/national landscape generally public/legislated financed by taxes origin in urbanisation in 1800s services paid by hour or unit waste collection, litter control, street sweeping, open space management, disposal transfer of materials based on laws, regulations, policies, and where necessary paying for sinking of low-value materials
Service Chain and Value Chains – They Don’t Touch (or like) Each Other

Service Chain – generally public
- Household
- Collection
- Disposal

Value Chain – generally private
- Informal Collector
- Junk shop
- Processor
- End-user

valorisation of dry recyclables or kitchen/garden organics
Value Chain Recycling: private sector transfers value from service to value chains
Service Chain – Municipal Sphere of Influence

Household

ISP Waste Collection

Formal Collection

IWB

Recyclables

Truck

Informal dump pickers

Disposal

Semi-formal mobile traders

End-user

Exporter

Processor

Junk shop/first buyer/(Agbobloshie)

Waste: (degrading value)

Authorised Informal Service and Value Chain
GAMA, Ghana
EU-Conform Integrated Waste Management (Generic)

Service Chain:

- Household Waste Collection
- Recyclables Collection
- Organics Collection
- Engineered Disposal
- Recycling Container
- Recycling Sorting Plant (MRF)
- Compost Plant
- NGO Buy-back Recycling
- Traced recyclables

Extended producer Responsibility (EPR)

End-user Exporter

Value Chain (middle is extinct)

Informal Collectors Illegal

Recycling

Waste Collection

Recyclables

Traced recyclables

Compost Plant
Legend for Framework Diagrams

- Service Chain – municipality or its private sector agents
- Private Formal Recyclers, Informal Value Chain Traders and Producers
- Informal Value Chain Enterprises
- Service Chain – or private organics collection/composting
- Public/EPR Recycling Container or Sorting
- Extended producer Responsibility (EPR)
- Movement to/in Service Chain
- Movement to Value Chain
- Informal Value Chain Trades
- Organic waste
- Commingled recyclables
- EPR transactions & movements
Thank-you for your attention!

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