

Local Market Development & the Waste Streams Resulting from the Lancashire Waste PFI Project

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Waste Management

Waste PFI Project

Mechanical Biological
Treatment (MBT),
In-vessel composting and
Material Reclamation Facility
(MRF)

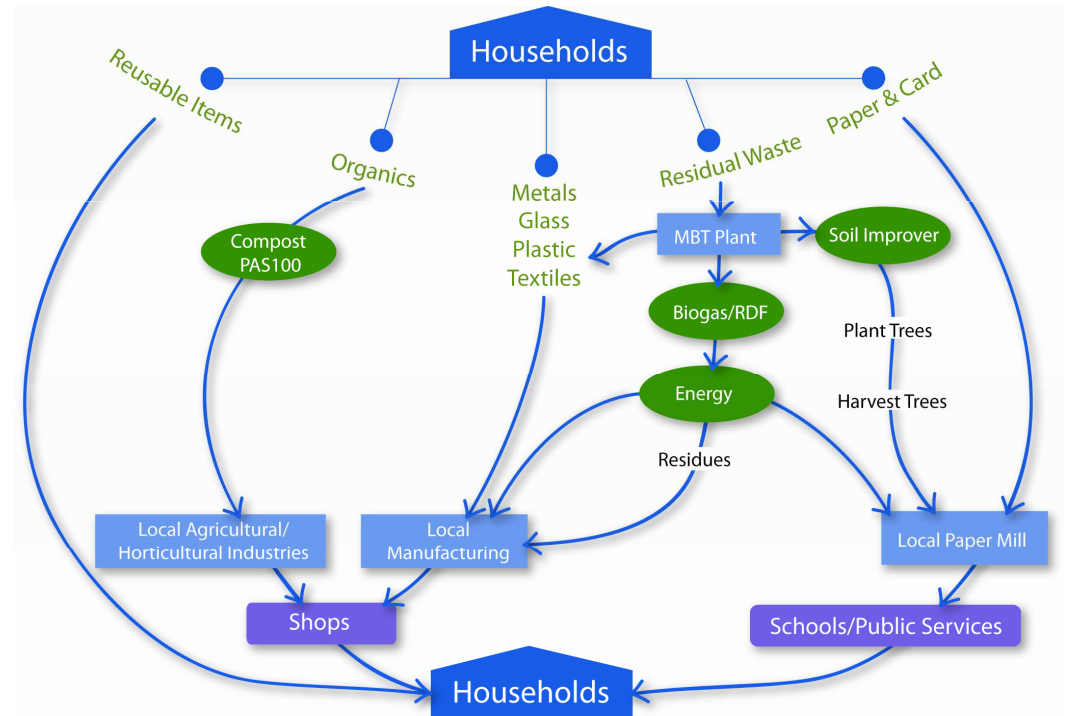
Provided the WDAs the best
value maximum diversion model

Total integrated services divert
88% of waste away from landfill

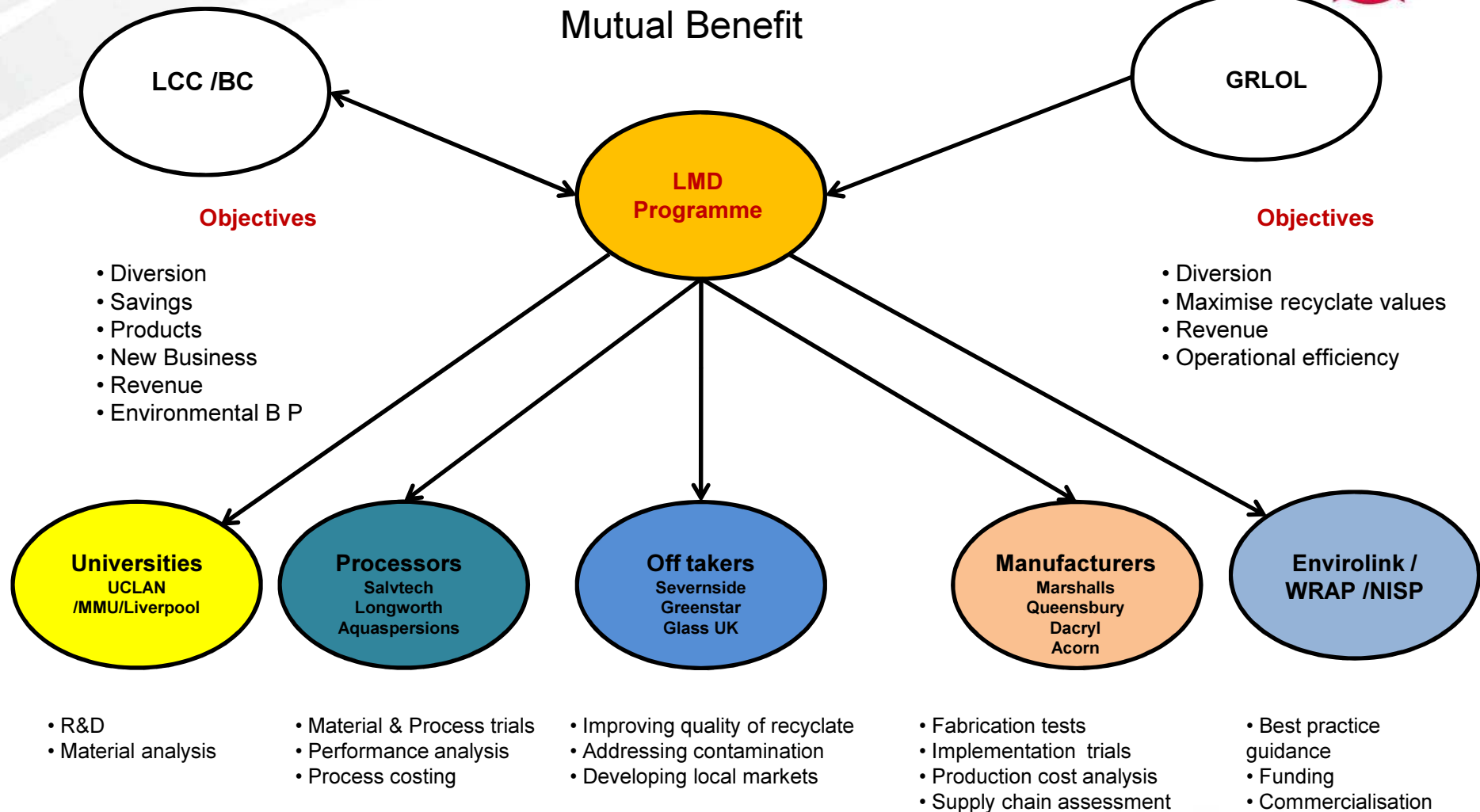


Local Market Development

Looks at establishing
'closed loop' recycling
e.g. Lancashire waste
to Lancashire product



Context of Work



Projects that are in Development

- Eureka moments!
- Investigating through research & development
- Low Grade Mixed Waste Plastic (MWP) Pellet to make plastic products such as kerbs & posts
- Bus Shelters
- Paper Products
- Mattresses
- Paving



MWP Pellet

- Pellet has successfully been made from low grade mixed waste plastic.
- Using the pellet a prototype kerb has been manufactured
- Further 100 kerbs being made including low grade mixed waste plastic/film plastic generated from the Lancashire facilities.
- Other products could be made which could be used by the Authority
- Potential for the pellet making aspect to be located close to the Farington Waste Recovery Park
- Need to drive offtake deals with GRL for the raw material – GRL could potentially get more income by sending material to energy from waste facilities
- Lancashire Business Park does have suitable units soon to become available – Strategic position being clarified



Bus Shelters

- Potential cost savings to Authority if Lancashire provides raw material (rPET) which can be off set against cost of Bus Shelter fabrication
- Fabrication of sheet could be achieved locally
- Potential to establish localised manufacture of bus shelter (Queensbury based in Portsmouth)
- Identified local demand could facilitate the introduction of a local rPET sheet extrusion process
- Local Closed loop solutions achievable
- Shelter fabrication could be carried out utilising services at HMP Garth to provided added value



Paper Products

- 2009/10 Feasibility concluded non viability of establishing a new or re-commissioned paper mill in Lancashire
- Focus 2010/11 on identifying viable local market for Lancashire waste paper utilising local mill and manufacturing infrastructure
- Libraries Project



Mattresses

Mattress Deconstruction

- New business start up in S.Ribble
- Seeks to process 36,000 mattresses from municipal waste stream and a further 23,000 from commercial waste stream
- Working with business to facilitate access to municipal waste stream and general business set-up.



Paving Slabs

- Project developing paving slabs from 90% construction & demolition waste including fly ash waste material to provide an architectural paving slab
- Partners: Marshalls, Jacksons (Preston), Liverpool University, Grundys & Veolia (Community Fund)



LCC Landscape Architects
onboard to trial the
new paving slabs

Future Opportunities

- Ramp-up phase for the Waste Recovery Parks at both Thornton and Farington
- Starting to see the scope for future waste diversion
- Focus on improving diversion from landfill of the waste streams from the facilities that currently have no viable end market at present eg Enval (Luton) eg cat food pouches, toothpaste tubes
- Economic opportunities – business start ups, spin offs?
- Education links through Universities and R&D
- Closing the Loop