

Improving Recycling in Belfast (Inner City) Apartments

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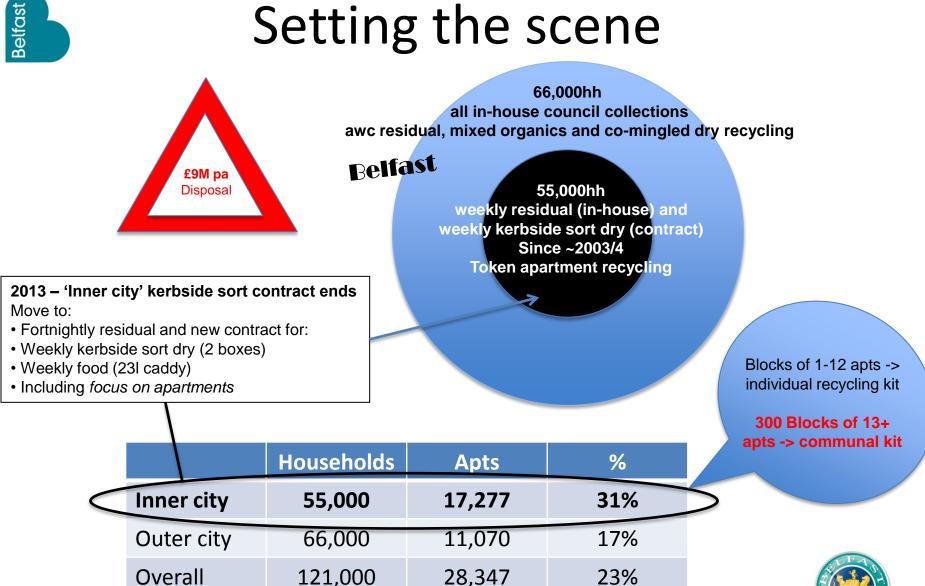
Introducing optimum recycling to 300 apartment blocks in Belfast 'inner' city

- Setting the scene
- Groundwork and research
- Tailoring the solutions
- Key success factors and issues
- The results
- Where are we now?
- Q&R

Just covering some key points. The detail is in the report!



Setting the scene





Setting the scene

Typical scenes before the project

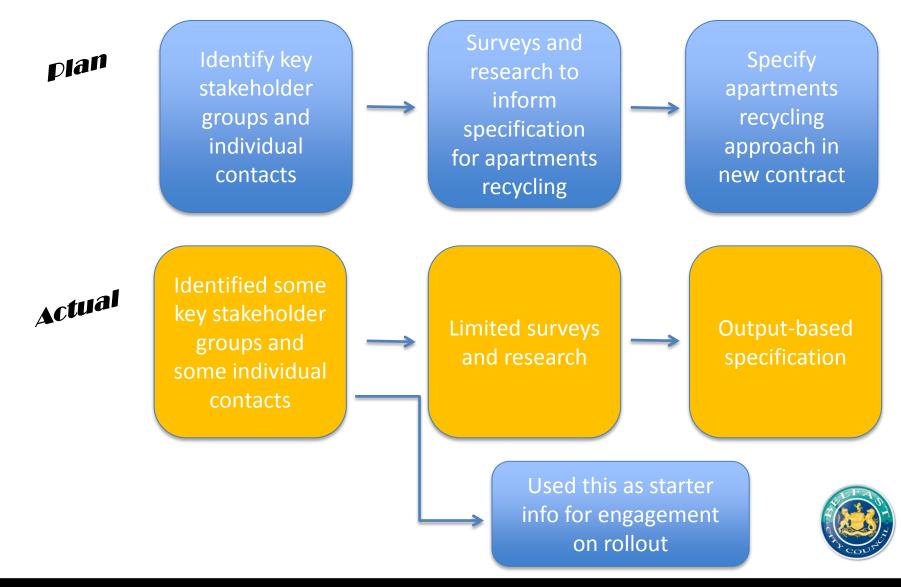






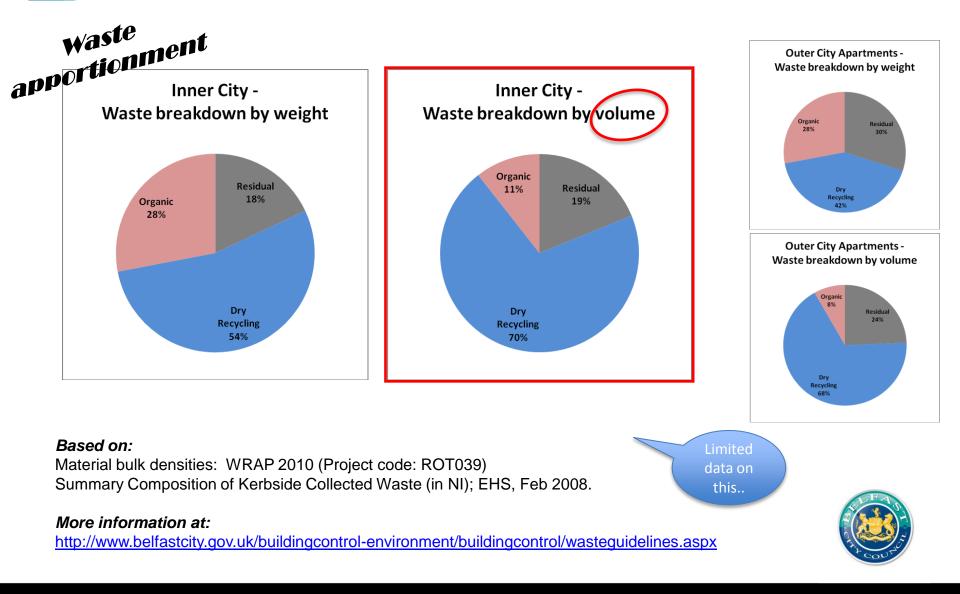


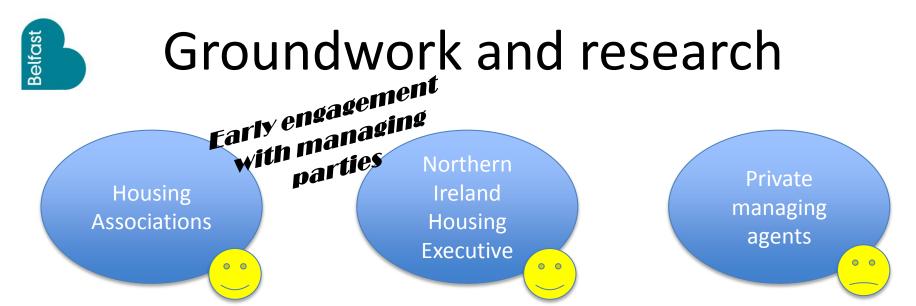
Groundwork and research



Groundwork and research

Belfast





Overseen by central Federation.

Responsible for a large number of sites.

Council presented at a Federation meeting to make contact and get buyin.

• Apportionment, costs, etc.

Letters to Chief Executives.

Sites generally newer.

Generally very co-operative.

Centrally managed.

Initially assumed to be major stakeholder but actually only responsible for relatively small number of sites.

Sites were generally older.

Engagement on a case by case basis during rollout.

Letter to Chief Executive.

Generally very co-operative but constrained by legacy issues (lack of space!). No single point of contact.

Responsible for a large number of sites.

Engagement on a case by case basis during rollout.

Response was mixed, depending on individual attitude.





10-box stand/ 6-box stand used as standard (can vary in size)

- + 240l blue bin (for plastics & cartons lightweight materials)
- + 140l brown bin (for food)

Belfast

+ 23l caddy for stock of liners (replenished at collection)





3-tier stand – no lids, so internal use only. Various sizes – made to order..



Belfast



Anecdotally flaps and aperture size seem to be problematic for communal use.



Banks of wheelie-boxes.

Provides mobile solution but otherwise less successful than box-stands.









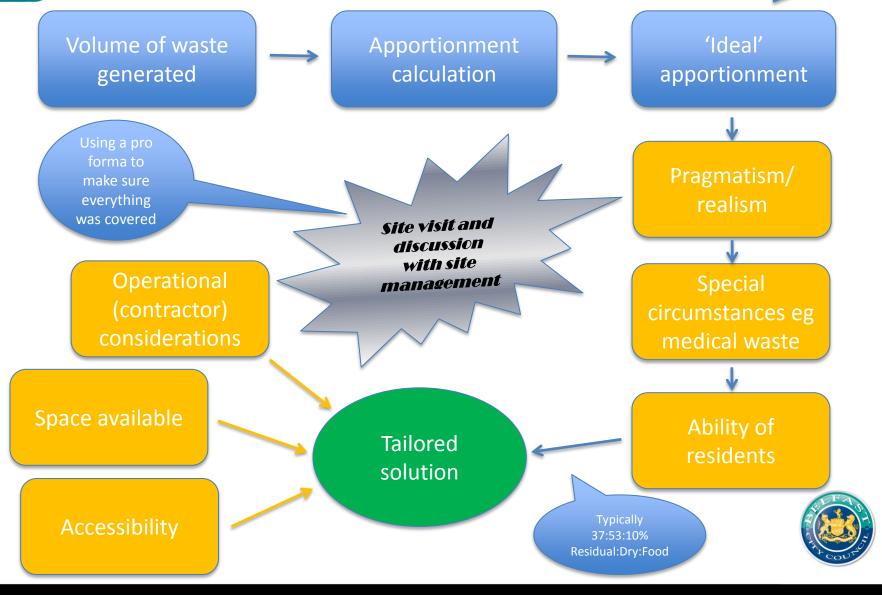


Kit for individual apartments



Belfast

Ideally 19:70:11% Residual:Dry:Food







Residents meetings and / or door-knocking











Range of bespoke leaflets developed as new solutions were introduced – Would one generic leaflet have been more manageable? Or more confusing for residents?

> We could/ should probably have done more in terms of posters in communal areas..

Yes , but all the kit was clearly labelled as well.





Tailoring the solut: when it's not working.

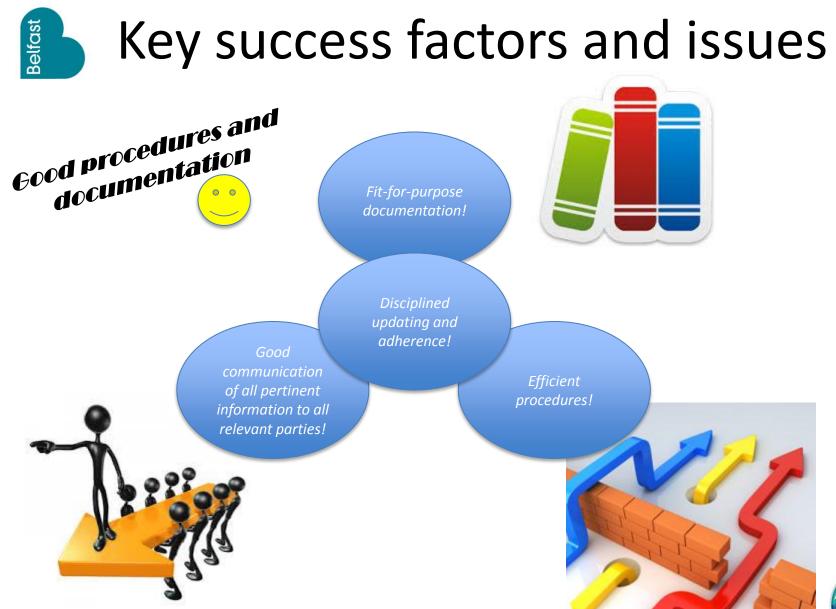
Some sites just got individual kit..

- Just. Not. Enough. Space.
 - Some sites solved with 3-tier kit and a twice-weekly collection of recycling.
 - 17 sites remain with no workable solution still receiving weekly residual collections, some with token recycling.
- Lack of co-operation Continued negotiations and comms; eventually draw a line and only collect the allocated number of residual containers.



We carried out crude characterisation studies on site at 3 locations which were complaining..







Key success factors and issues



Belfast

Dedicated staff

- Passionate
- Pragmatic
- Amenable
- Negotiators
- Capable
- Resourceful
- Operational

The contractor pointed out that the **Council carried much more weight** with managing parties and was heeded much better **than the contractor** would have been.



Key success factors and issues



Belfast

Contamination

The blue bin is the main source of unmanageable contamination.

Managing contamination was not fully thought through in the original contract and had to be tagged on afterwards..

> The lorry that deals with contamination is also used to collect bulky cardboard.





- Layout
 - The team assumed that it was best for residual and recycling bins to be located together (to maximise capture while minimising contamination) and argued for this in negotiations (where space allowed)
 - Sometimes managing parties were more amenable to changing to this type of layout after implementation
- On-site and engaged care-taker to manage waste separation and resident behaviour
- Transient or settled residents
 - Sense of responsibility/ ownership
 - Diluting understanding v retaining understanding





Key success factors and issues

I'm just a carer – I don't have time to sort out all of Maureen's rubbish – and it's not in my job description!

Systemic issues

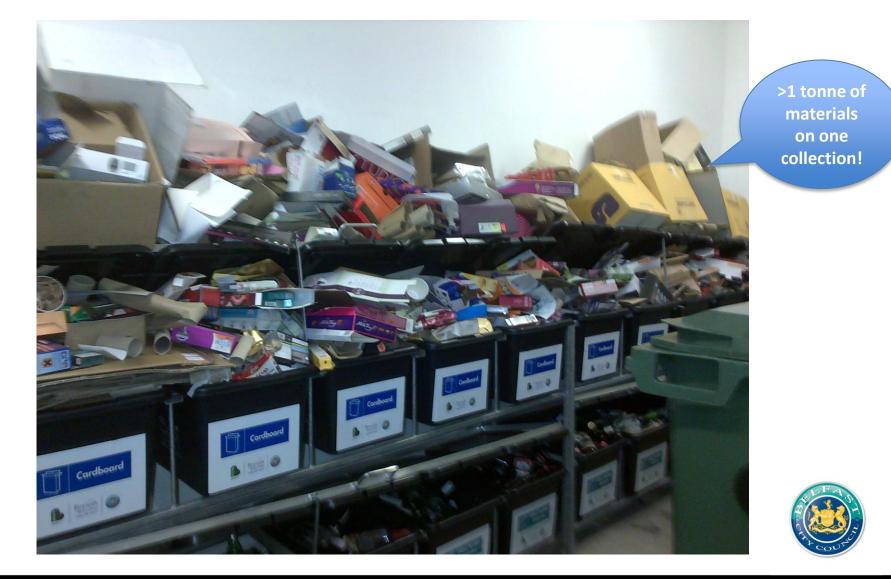
My daughter always takes out my rubbish when she comes round, and I don't like asking her to do all that recycling stuff.

I've just moved into here; I don't know what I'm supposed to do with my rubbish. What are we supposed to do?? We can't throw a resident out for not recycling!!





The results





Internal stands don't actually need lids – potential cost saving

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Some sites are a squeeze..

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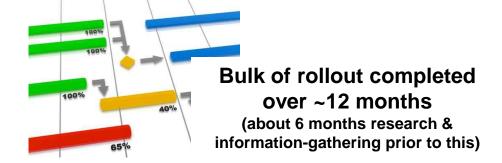
The results

Kit issued..

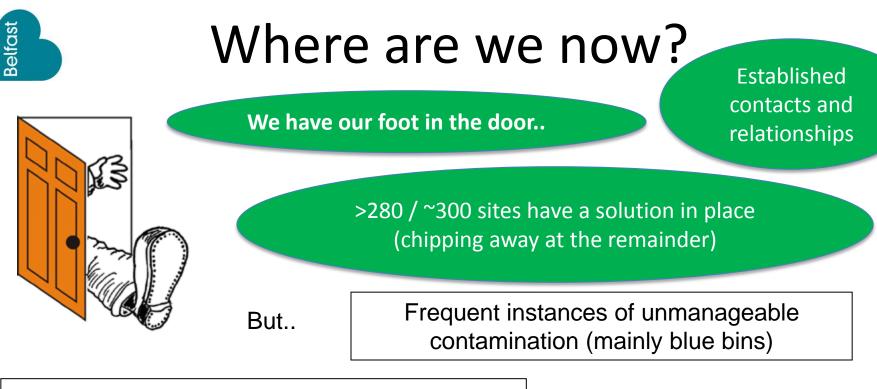
Waste type	Kit	No. units issued
Dry recycling	10-box stands (steel + aluminium)	286
	6-box stands (steel + aluminium)	70
	3-tier stands	38
	Wheelie boxes	334
	240I blue bins	459
Food	140l brown bins	431

Inner city <u>overall</u> performance (apts + houses) Dry 3,100 tpa before -> 4,700 tpa after Food 0 tpa -> 2,400 tpa

We don't have apartment tonnages, but this kit half-filled each week equates to >900 tpa (estimated)







Sites need ongoing maintenance and attention:

- Requests for re-assessment
- Adjusting layout and capacities
- Overcoming operational problems (missed collections etc.)
- Re-education, posters, etc.

And this is just the stuff we know about..

There are systemic issues which require more strategic engagement with a wider range of stakeholders

Limited resources now allocated/ available..



Q & R

