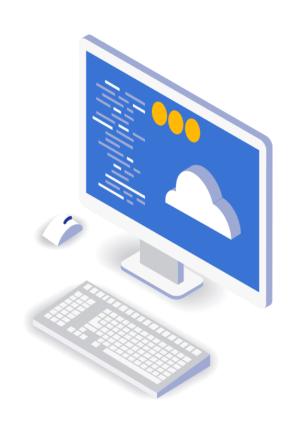
The Digital Depot for Municipal Services

Thomas Moffat – Webaspx Derek Jones – RCTCBC

APSE Wales Environmental Advisory Group 22nd May 2019









The Digital Depot for Municipal Services

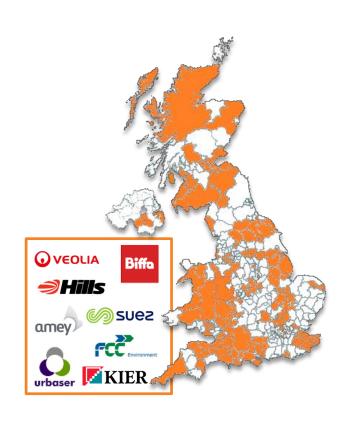
- Who are Webaspx?
- What problems are Council's facing?
- How can a fully integrated "Digital Depot" help?
- How Rhondda Cynon Taf are using Digital Depot to optimise their services and streamline their operations





Who Are We?

- Over 200 local authorities
 - 15 in Wales
- All the leading environmental service companies
- Supporting waste and streets services for 20 million citizens
- No.1 route optimisation company for municipal services







High Demand, Lower Budgets, Fewer Resources

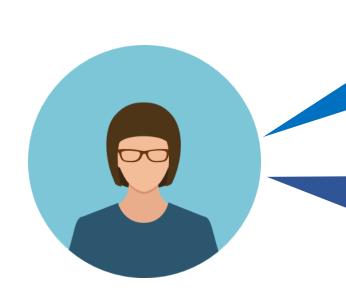


As a share of GDP, local government spending is already at the lowest point for 40 years and is projected to go on falling.





High Demand, Lower Budgets, Fewer Resources



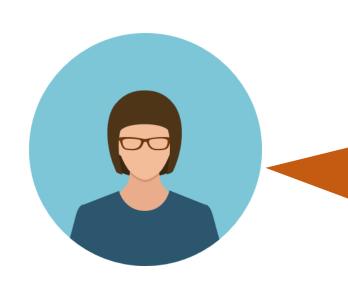
An average council can expect 15,000 calls about waste every year.

The front office cost per phone contact for local authorities is estimated at £2.59.





High Demand, Lower Budgets, Fewer Resources

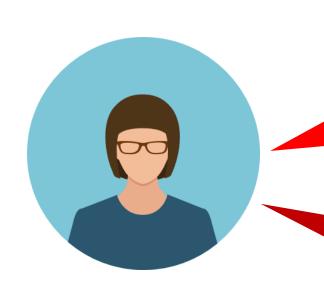


Returning to collect just 2 missed bins per round is estimated to cost the average council between £150,000 and £300,000 every year.





High Demand, Lower Budgets, Fewer Resources



37.5% of councils expect to be working with fewer staff in the waste team next year.

Staff spend too long entering data into different systems





High Demand, Lower Budgets, Fewer Resources



The proportion of councils charging for green waste collection is expect to rise from 54% to 61% in the next 18 months.





What can we do?



82% of local authorities have done or are planning a refuse route optimisation exercise.

83% of local authorities expect digital technologies to enable improvements in service delivery.





Digital Depot– Integrated Optimisation and Operations

End-to-end digital processes that increase efficiency through the full lifecycle of the service











Route Optimisation

In-Cab & Mobile

Back Office & Council Systems





Example Benefits & Savings

- Less than 0.5% of bins are now genuinely missed (Richmondshire)
- Approx 80% reduction in missed bins (Scarborough)
- 62% decrease in missed bins only 77 missed bins per 100,000 (Halton)
- More than 50% decrease in calls coming through to Waste team (Richmondshire)
- 15% reduction in calls to contact centre due to links with online calendars (Falkirk)





Key Takeaways

- We want to add the same level of efficiency at the back-end of the process, as your customer experience platform delivers at the front-end.
- 2. The back-end of the process is seamlessly connected to the frontend of the process.

- Processes and systems work across the environmental function. But beware of trying to cover everything else too...
- 4. The overall solution is achievable and affordable, with a proven return on investment.







EVERYONE NEEDS TO RECYCLE

Revolutionary Digitalisation

Revolutionise Waste Services using Digital Depot



Derek Jones Logistics Officer



Existing Systems

- Paper based Pl's
- Paper round sheets / maps
- CRMs paper based and handed to Crews



Existing Process for Pl's

Waste Operative informs Team
Leader of an issue / contamination



Team Leader writes the address and information provided



Sheets are handed in after shift



Enforcement Officers Investigate



Information sent to Enforcement Administration



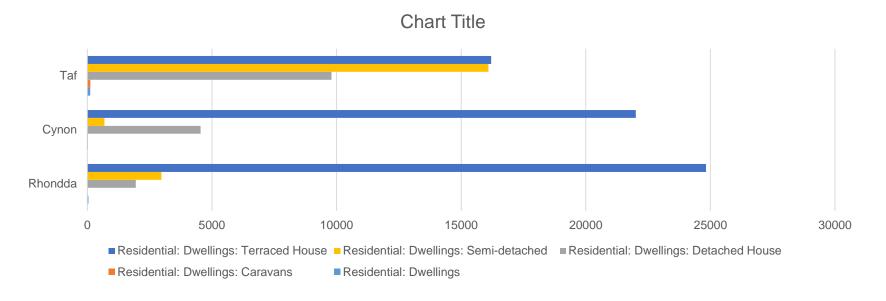
BSU Staff type in handwritten information



Feedback provided when needed to Depots

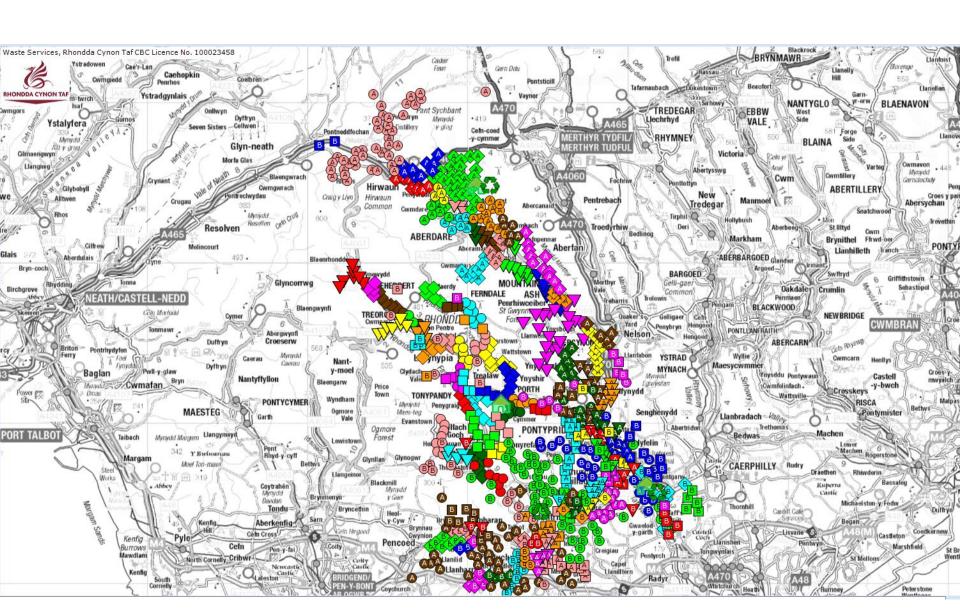


Overview of the Borough



	Residential: Dwellings	Residential: Dwellings: Caravans	Residential: Dwellings: Detached House	Residential: Dwellings: Semi-detached	Residential: Dwellings: Terraced House
Area	RD	RD01	RD02	RD03	RD04
Rhondda	43	10	1947	2970	24823
Cynon	23	22	4545	685	22008
Taf	112	123	9794	16092	16202
Grand Total	178	155	16286	19747	63033

How does it look?



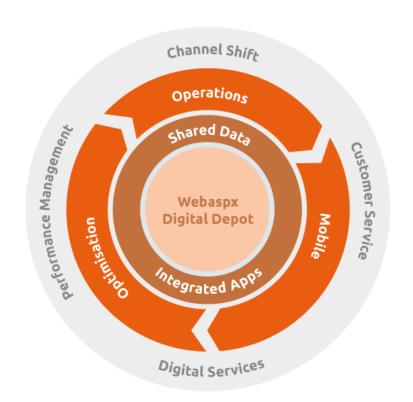
Trial

- 4 InCab Devices installed 3 Food vehicles in Cynon and 1 Recycling Isolated Properties started February
- 1668+ Issues reported using tablet
- Positive feedback from all crews;
 - Quicker to use
 - Easy to use
 - Better than writing issues
- Other crews are keen to start



Systems Implemented

- Easy Route Pro
- Collections
- InCab
- Workflow





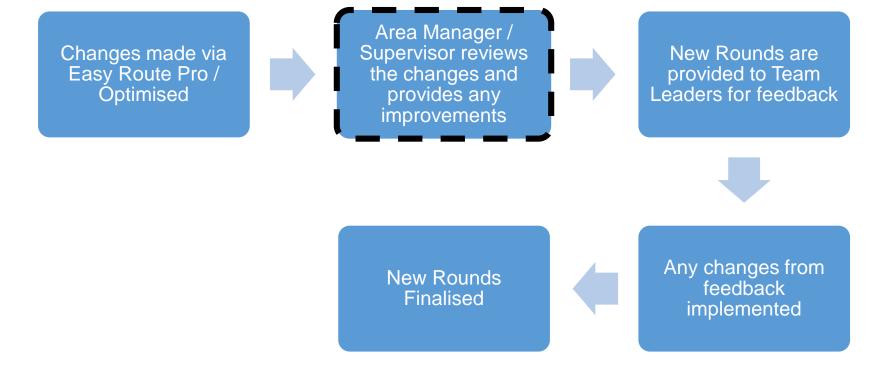


Easy Route Pro

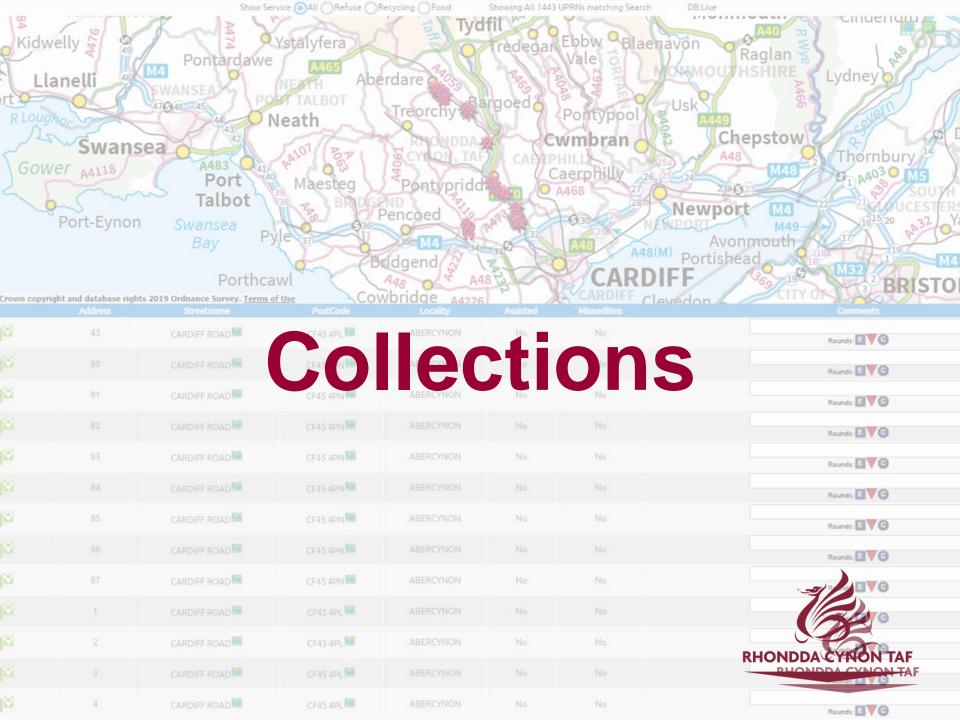
- Main system used for Rounds Optimisation and Management
- Provides statistical information on times, weights, housing types and more
- Able to take data from InCab to influence round changes
- Main aim for the software is to improve allocation of resources



Round Changes Process







Collections

- Central hub of all the data
- Full address information for back office staff
- Add additional information for Crews i.e. Assisted Collections, Extra Allowance and Comments
- Live and frequently updated
- All related data in one place



ID J ²	Type i f	Status 11	Last Updated 11	Customer 11	Address	Priority 11
19	Bulky Uplifts	closed	19/02/2019 08:09	Des Rhondda		Unset
18	Bulky Uplifts	closed	19/02/2019 08:09	Des Rhondda		Unset
17	Trade Waste Request/Missed/Extra Collections/Purchase of Trade Bags	closed	19/02/2019 08:09	Des Rhondda		Unset
16	Bulky Uplifts	closed	19/02/2019 08:10	Des Rhondda		Unset
15	Service Bins	closed	12/12/2018 10:37	Des Rhondda		Unset
14	Assisted Collection Request	closed	19/02/2019 08:10	Des Rhondda		Unset
13	Assisted Collection Request	closed	28/11/2018 10:09	Des Rhondda		Unset
12	Assisted Collection Request		21/1 2012 10 6	Des R'		Unset
11	Assisted Collection Request		21/1201102	Rhondda	V	Unset
10	Trade Waste Request/Missed/Extra Collections/Purchase of Trade Bags	closed	29/10/2018 14:58	Des Rhondda		Unset
9	Missed Bin	closed	29/10/2018 14:22	Des Rhondda		Unset
8	Assisted Collection Request	closed	29/10/2018 13:50	Des Rhondda		Unset
7	Additional Bin	closed	25/10/2018 12:34	Des Rhondda		Unset
6	Bulky Uplifts	closed	25/10/2018 11:18	Des Rhondda		Unset
5	Service Bins	closed	24/10/2018 13:36	Des Rhondda	RHONDDACYNON	Unset
4	Assisted Collection Request	closed	24/10/2018 11:33	Des Rhondda	RHONDDA CYNON	TAF Unset
0	Assistant Collection Decrees		0.4/4.0/0.040.00/50	Des		

Workflow

- Manages processes of Customer Cares, Web Forms and Requests
- Automatically allocates to the correct Round / Crew
- Optimises routes for improved travel
- Issue tasks/CRMs to crews to complete
- Satellite Navigation to help Drivers



Issue Cnt 717	Manual Entry Issue	Search House No / Name	Streetname	Town	Postcode	UPRN	Round	Location	Date	Time	Crew ID
\$8	Contamination:Wallpaper Carpets Textiles	108 108	ROAD	MAERDY	CF43 4AG	100100748101	Fri Week1 Recycling 12	408	08Mar19	11:46	6378
2.5	Contamination:Nappy Waste	1 03	ROAD	MAERDY	CF43 4AG	100100748096	Fri Week1 Recycling 12	208	08Mar19	11:46	6378
*	Contamination: Wallpaper Carpets Textiles	100	GRAIGWEN ROAD	PONTYPRIDD	CF37 2HD	100100752307	Fri Week1 Recycling 31	408	08Mar19	10:56	4113
5	Bin Not Out	№ 5	PEN-YR-HEOL	PENYWAUN	CF44 9EA	100100696953	Fri Week1 Refuse 22	2008	08Mar19	10:54	6296
B.	Bin Not Out	104	PEN-YR-HEOL	PENYWAUN	CF44 9EA	100100696952	Fri Week1 Refuse 22	408	08Mar19	10:54	6296
	Bin Not Out	100 s	PEN-YR-HEOL	PENYWAUN	CF44 9EA	100100696951	Fri Week1 Refuse 22	2008	08Mar19	10:54	6296
***	Contamination: Recycling Bag Used	№ 40	DAN-YR-HEOL	PENYWAUN	CF44 9DY	100100696386	Fri Week1 Refuse 22	408	OSMar19	10:43	6296
//	Food Bin / Bags Not Out	1 0	GLAS CWM	YNYSYBWL	CF37 3DG	200003768723	Fri Week1 Recycling 35	2008	08Mar19	10:42	7284
X	Food Bin / Bags Not Out	12 12	GLAS CWM	YNYSYBWL	CF37 3DG	200003768725	Fri Week1 Recycling 35	2008	08Mar19	10:41	7284
<u>//</u>	Recycling Bags Not Out	12 12	GLAS CWM	YNYSYBWL	CF37 3DG	200003768725	Fri Week1 Recycling 35	2008	08Mar19	10:41	7284
1/4	Recycling Bags Not Out	1 5 5 S	BRYN RHEDYN	YNY	CF2	100100716	Fri Week1 Recycling 35	448	08Mar19	10:38	7284
*	Food Bin / Bags Not Out	♦ 5	BRYN RHEDYN	YNY BW	0.17.308	3	Fri Week1 Recycling 35	4008	08Mar19	10:38	7284
20	Contamination: Recycling Bag Used	1 26	EAST STREET	PONT RILL	CF3.		Week1 Refuse	4008	08Mar19	10:38	5182
//	Food Bin / Bags Not Out	100 y	BRYN RHEDYN	YNYSYBWL	CF37 3DP	100100716537	Fri Week1 Recycling 35	408	08Mar19	10:38	7284
<u>//</u>	Recycling Bags Not Out	100 g	BRYN RHEDYN	YNYSYBWL	CF37 3DP	100100716538	Fri Week1 Recycling 35	2008	08Mar19	10:38	7284
/	Food Bin / Bags Not Out	%	BRYN RHEDYN	YNYSYBWL	CF37 3DP	100100716538	Fri Week1 Recycling 35	2008	08Mar19	10:38	7284
20	Contamination: Recycling Bag Used	100 6	EAST STREET	PONTYPRIDD	CF37 4PH	100100751301	Fri Week1 Refuse 31	4008	08Mar19	10:37	5182
*	Recycling Bags Not Out	1 3	BRYN RHEDYN	YNYSYBWL	CF37 3DP	100100716539	Fri Week1 Recycling 35	4008	OSMar19	10:37	7284
*	Food Bin / Bags Not Out	13 13	BRYN RHEDYN	YNYSYBWL	CF37 3DP	100100716539	Fri Week1 Recycling 35	4008	08Mar19	10:37	7284
	Bin Not Out	7	DAN-YR-HEOL	PENYWAUN	CF44 9EB	100100696416	Fri Week1 Refuse 22	4000	08Mar19	10,36	6296
/	Food Bin / Bags Not Out	1 7	MAES GLAS	YNYSYBWL	CF37 3EJ	100100717898	Fri Week1 Recycling 35	4000	OSMar19	7/	7284
	Food Bin / Bags Not Out	1 20	MAES GLAS	YNYSYBWL	CF37.3EJ	100100717901	Fri Week1 Recycling 35	448	08Mar19	1	7284
1	Food Bin / Bags Not Out	1 3	MAES GLAS	YNYSYBWL	CF37 3E3	100100717904	Fri Week1 Recycling 35	408	OSMar19	DACYNON	7284 TAF
X	Food Bin / Bags Not Out	♠ 18	MAES GLAS	YNYSYBWL	CF37 3EJ	100100717899	Fri Week1 Recycling 35	408	CONTRACTOR	NDDA CVNC	N TAF4
×	Food Bin / Bags Not Out	10,	MAES GLAS	YNYSYBWL	CF37 3E3	100100717891	Fri Week1 Recycling 35	2008	O8Mar19	10:33	7284
100		Para .		Troughter sup.	4000000		Fri Week1	0		100000	Table 1

InCab

- Oversee the progress of Rounds and vehicles
- Provides live information on the issues reported - Linked to CRM
- Enables Area Managers / Supervisors to view progress to better manage resources to support crews
- Downloadable data for Waste Operations and Enforcement



New Process for Pl's

Waste Operative informs Team Leader of an issue / contamination



Team Leader selects the property and reports the issue / contamination



Information downloaded by Enforcement Administration



Feedback provided when needed to Depots



Enforcement Officers Investigate



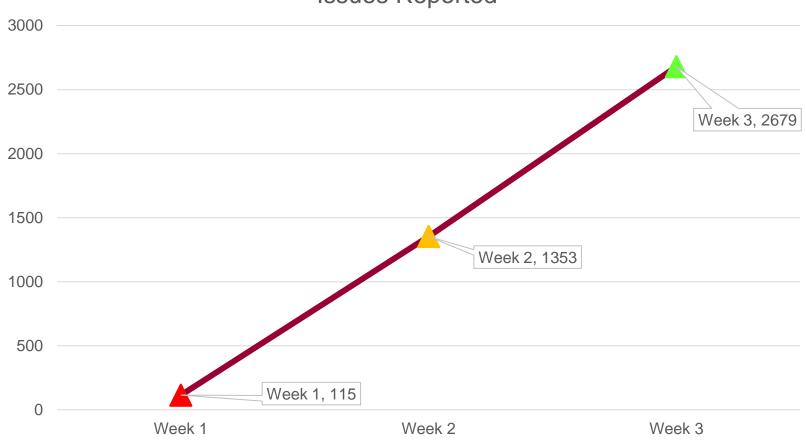
InCab

- 61 installed
- 10 waiting for new vehicles i.e. Nappies
- Ongoing testing and implementation by CRM / Web Team
- 54 Reportable Issues
 - 26 Enforceable
 - -7 Awareness
 - 33 Operational
 - 37 Strategic



Training Initial Results





Issues Reported to Date

37,547



InCab Device







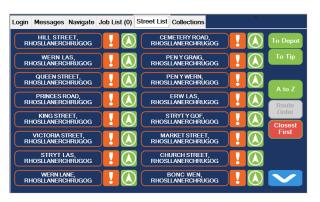






















The Future

- Using Pick Rate Data to increase efficiencies
- Further integration of other services that Waste Services rely on, Enforcement, etc
- Digital Signage
- Business Intelligence (Analytics)





THE CHOICE IS CLEAR. EVERYONE NEEDS TO RECYCLE

Any questions?



