

Improvements in Household Collections

Presented by

John Dunne Panda





SYSTEM IMPROVEMENTS































Fewer bins not collected because of late payments













Fewer emergencies/mop ups needed







Fewer bins not collected because of late payments



Fewer emergencies/mop ups needed



• Fewer calls from the call centre to drivers



























Sensor is programmed to send a signal when the bin is either full or has been moved



- Sensor is programmed to sent a signal when the bin is either full or has been moved
 - Sensor can notify customer bin is full



- Sensor is programmed to sent a signal when the bin is either full or has been moved
 - Sensor can notify customer bin is full



Waste Co-Op Payment Acceptance Network





Waste Co-Op Payment Acceptance Network



Eliminate the current overnight delay updating customers' accounts taking them of stop

Waste Co-Op Payment Acceptance Network



Eliminate the current overnight delay updating customers' accounts taking them of stop

Break the exorbitant minimum transaction and other fees of AnPost, Payzone etcon





KERBSIDE BINWASHING



1. Volume.





- 1. Volume
- 2. The price and getting paid





- 1. Volume: Timing the wash to coincide with the bin empty day
- 2. The price and getting paid
- 3. Where's this lad's water and dirt going?


























€4.99 + vat/bin washed







Binvash Master Calendar 2017 Fingal

December 2016								January 2017								February 2017								March 2017						
Mon Tu	16 N	w'ed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun
		1	8WC125	BWC135 2	BWC144	4								1				1	BWC124 2	BWC142	BWC153	5				BWC120	BWC125	BMC135	BWC144	5
BWC1	:102 BV	WC115 B		EWC138	BWC147					BWC114	BWC122		BWC149	••••			BWC108	BWC117	EWC131	BWC143	•				BWC102	BWC115	EWC126	BWC136		,
5 6 BWC1		7	8 8WC127	9 BWC138	10 BWC148			2	3 BWC107		5 BWC129	6 BWC139	7 BWC150	8		6	7 8900111	8 BWC119	9 BWC132	10	11 BWC145	12		6	7 BWC104	8	9 BWC127	10	11 BWC148	12
12 13	3	14	15	16	17	18		9	10	11	12	13	14	15		13	14	15	16	17	18	19		13	14	15	16	17	18	19
19 20		wem2 a 21	8WC128 22	8WC137 23	24	25		16	BWC108	EWC118 18	BWC130 19	20	8WC151 21	22		20	BWC103 21	BWC116 22	BW0133 23	BWC140 24	25	26		20	8WC108 21	BWC112 22	8WC128 23	BWC137 24	BWC147 25	26
	RA	WC113 B	BWC121	BWC134					BWC109		BWC123	BWC141	BWC152				BWC101								BWC105	BWC113	BWC121	BWC134		
26 27	7	28	29	30	31			23	24 BWC110	25	26	27	28	29		27	28							27	28	29	30	31		
								30	31																					
	April 2017							May 2017								June 2017							July 2017							
Mon Tu	16 Y	Ved	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun
					BWC148						BWC124	BWC142	BWC153	-					BWC125	BWC135	BWC144								BWC148	
BWC1	106 BV	WC114 8	BWC122	BWC138	1 BWC149	2		1	2 BWC110	3 BWC117	4 BWC131	5 BWC143	6	7				BWC115	BWC126	2 BWC138	3	4			BWC108	BWC114	BWC122		1 BWC149	2
3 4 BWC1		5	6 8WC129	7 BWC139	8 BWC150	9		8	9 BWC111	10 BWC119	11 BWC132	12	13 BWC145	14		5	6 BWC104	7	8 BWC127	9 BWC138	10 BWC148	11		3	4 BWC107	5	6 BWC129	7 BWC139	8 BWC150	9
10 11		12	13	14	15	16		15	16	17	18	19	20	21		12	13	14	15	16	17	18		10	11	12	13	14	15	16
17 18		wcma a 19	8WC130 20	21	8WC151 22	23		22	8WC103 23	BWC118 24	BWC133 25	BWC140 26	27	28		19	BWC102 20	BWC112 21	BWC128 22	BWC137 23	BWC147 24	25		17	BWC108 18	BWC118 19	BWC130 20	21	BWC151 22	23
BMC1	2109	1	BWC123	BWC141	BWC152				BWC101	BWC120							BWC105	BWC113	BWC121	BWC134					BWC109		BWC123	BWC141	BWC152	
24 25	5	26	27	28	29	30		29	30	31						26	27	28	29	30				24	25	26	27	28	29	30
																								31						
August 2017								September 2017								October 2017								November 2017						
Mon Tu	ie N	w ed	The	Fri	Sat	Sun		Mos	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun		Mon	Tue	Wed	The	Fri	Sat	Sun
BWC1			BWC124	BWC142	BWC153	_						BMC135	BWC144	_									1				BWC124	BWC142	BWC153	_
1			3 BWC131	4 BWC143	5	6			BWC102	BWC115	BWC128	1 BWC138	2	3			BWC108	BWC114	BWC122		BWC140	1			BWC110	1 BWC117	2 BWC131	3 BWC143	•	5
7 8		9	10	11	12	13		4	5	6	7	8	9	10		2	3	4	5	6	7	8		6	7	8	9	10	11	12
14 15		16	17	18	19	20		11	12	13	14	15	16	17		9	10	11	12	13	14	15		13	14	15	16	17	18	19
51 50			BWC133	BWC140 25	26	27		19	19	BWC112	BWC128	BWC137	BWC147	24		16	BWC108	BWC118 18	BWC130	20	BWC151	22		20	BWC103	BMC118	BWC133	BWC140	95	26
21 22			BWC125	رے	20	E1		10	BWC105	BWC113	BWC121	EE BWC134	ENC148	£9			BWC109	10	BWC123	20 BWC141	BWC152	~~~		20	BWC101	BWC120	23		23 	20
28 29	9	30	31					25	26	27	28	29	30			23	24	25	26	27	28	29		27	28	29	30			
																30	31													
80001 1 7 8 80001 14 15 21 22 80001 80001 80001	7110 1 87 8 7111 87 5 7103 87 2 7101 87	2 WC117 8 9 WC119 8 16 WC118 8 23 WC120 8	8WC124 3 8WC131 10 8WC132 17 8WC133 24 8WC125	BWC142 4 BWC143 11 18	BWC153 5 12 BWC145	6 13		4 11 18	висто2 5 висто4 12 19 висто5	8WC115 6 13 8WC112 20 8WC113	BWC128 7 BWC127 14 BWC128 21 BWC121	BWC125 1 BWC138 8 BWC138 15 BWC137 22 BWC134	8WC144 2 3 8WC148 16 8WC147 23 8WC148	3 10		2 9 16 23	вистов 3 вистот 10 вистов 17 вистоз 24	8WC114 4 11 8WC118 18	8WC122 5 8WC129 12 8WC130 19 8WC133	6 BWC132 13 20 BWC141	8WC149 7 8WC150 14 8WC151 21 8WC152	1 8 15 22		6 13 20	8wc110 7 8wc111 14 8wc103 21 8wc103	1 8WC117 8 8WC119 15 8WC119 22 8WC120	BWC124 2 BWC131 9 BWC132 16 BWC133 23	BWC142 3 BWC143 10 17	8wc153 4 11 8wc145	· · · · · · · · · · · · · · · · · · ·





Please remember to have your black and brown bins emptied tomorrow if you want them washed this Thursday.





Please remember to leave any empty bins you want washed out tonight in front of your house on the footpath for Panda Bin Washing tomorrow











































60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%







60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%

The other 50% are not interested at all





- 60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%
 - The other 50% are not interested at all
- 30% of signed up customers have never used the service





- 60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%
- The other 50% are not interested at all
- 30% of signed up customers have never used the service
- Frequency of service = every 3 months, 4 times per year





- 60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%
- The other 50% are not interested at all
- 30% of signed up customers have never used the service
- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186





- 60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%
- The other 50% are not interested at all
- 30% of signed up customers have never used the service
- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186
- Customer density route per truck per day 600-800



60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%



- The other 50% are not interested at all
- 30% of signed up customers have never used the service



- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186



Customer density route per truck per day 600-800



Average washes per active wash customer per year = 2.4





60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%



- The other 50% are not interested at all
- 30% of signed up customers have never used the service



- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186



Customer density route per truck per day 600-800



Average washes per active wash customer per year = 2.4



Marginally seasonal (summer brown bins in particular)



60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%



- The other 50% are not interested at all
- 30% of signed up customers have never used the service



- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186



Customer density route per truck per day 600-800



Average washes per active wash customer per year = 2.4



Marginally seasonal (summer brown bins in particular)



Price per bin washed = €4.99+vat





60,000 signed up customers from 125,000 in DLR and Fingal, almost 50%



- The other 50% are not interested at all
- 30% of signed up customers have never used the service



- Frequency of service = every 3 months, 4 times per year
- Current average washes per truck per day = 186



Customer density route per truck per day 600-800



Average washes per active wash customer per year = 2.4



Marginally seasonal (summer brown bins in particular)



Price per bin washed = €4.99+vat



Payment method – added to Panda waste bill


CONTAMINATION DETECTION











Paper

Cardboard

Plastic bottles

Plastic packaging

Aluminium cans

Steel cans

























The bottom line is people will keep pushing the limits until operators push back.







= 80204E2E2D

Mr & Mrs Brown,
4 The Street,
The Avenue,
Dublin.












































880BF9E86H 040913 11.19 2

IOkg e

ngers !

COMPLIANT R6HS CONTROL PUMP ELECTRONIC

659

งกษายก

10.1 KC 6.4 KC 5.00-540A 20H2 310M X T.	C.W. 0.TY. 0.TY. SPEC.
10400	TYPE
MAKE STREAM	





1 -



040913 16.08 2 80605DB7B8

ndre



0

RIVERROC



















050915 13.24 2 80A0CC3308

NA

R

esers

4 N

Carrick Glen

Tag reader

10

-L STOP











1

ALCONTACT OF A

FLAS

230916 06.40 1 80202DEC72



230916 06.39 1 80C0BAC5FD

F V

and a

S

aen

230916 06.39 2 80C0BAD339

0

orn

DELI

THUL VOUEL AL G





□ @ 図 ◆ Search CDS_Pictures (\\10.198.20.20) (X:) ト ◆ 43 Search CDS_Pictures (\\10.198.20.20) (X:) ト															
	review 🔻 Print		New folder		_	_	_	_	_						
🛠 Favorites 🏻 🍵				8040B1B9D 9.jpg	8040C74099 .jpg	80C03A5C8 7.jpg	80C03A5CA A.jpg	80805FB0FB .jpg	80A0C0370 5.jpg	206865B31B .jpg	8060DD53C 1.jpg	80702B9B26 .jpg	80A0C0370 5.jpg	80702B6C4 0.jpg	80A02CF9C
C Desktop	100	265		equ ^r e	99	7.jpg	C Participation of the second		5,000	646	1929	equ	EAG.	edito	EAG.
🐌 Downloads		100	1. 2	1			1.00	10		1000		0.0	E	7	
📃 Recent Places	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016
🝊 SkyDrive	06.00 1 80C03A5C6	06.00 1 80C03A74E	06.00 2 80C03A4C5	06.00 2 8040B155A	06.00 2 80C03A5C5	06.00 2 80C03AAC4	06.01 1 8020F564D7	06.01 1 80405159C7	06.01 2 80C03AAC4	06.02 1 8040B8110E	06.02 2 660012AAF	06.03 1 2068655F35	06.03 1 80A0B8CF8	06.03 2 2068E5A813	06.04 1 80A0781A5
1	A.jpg	7.jpg	1.jpg	4.jpg	D.jpg	8.jpg	.jpg	.jpg	8.jpg	.jpg	F.jpg	.jpg	4.jpg	.jpg	3.jpg
🧮 Desktop		35	the e		100			Sec. Se	Star 2						
🥞 Libraries			1.1997	14 A 14	a an			1000	5					100	2.0
Documents	131016 06.04 1	131016 06.04 2	131016 06.04 2	131016 06.05 1	131016 06.05 2	131016 06.05 2	131016 06.06 1	131016 06.06 1	131016 06.06 1	131016 06.06 2	131016 06.06 2	131016 06.07 1	131016 06.07 2	131016 06.07 2	131016 06.08 1
J Music	80C01D2F7	80A0B2799	2068E5A860	8060DD38A	2068E58317	6600F46B0	8020F564C0	806047AB7	80805A5E57	2068E58317	80604757C8	80A0CC7B0	8040B856C	80A032A6A	804012DFE
Pictures	3.jpg	F.jpg	jpg	C.jpg	.jpg	A.jpg	jpg	7.jpg	jpg	jpg	jpg	D.jpg	F.jpg	0.jpg	A.jpg
Videos		- 40	Elle			18	1.2	- 361		1			100		
诸 Paddy O'Reilly	121016	101016	101016		101016	121016	101016	101016	101016	101016	101016	101016	101016	101016	101015
🖳 Computer	131016 06.08 1	131016 06.08 2	131016 06.08 2	131016 06.09 2	131016 06.10 1	131016 06.10 1	131016 06.10 2	131016 06.10 2	131016 06.11 1	131016 06.11 1	131016 06.11 2	131016 06.12 1	131016 06.12 2	131016 06.12 2	131016 06.13 1
🏭 Windows (C:)	AE00880C0	80608E255D	AE0088E297	80A0E141B	80407EFF74	804092606D	806047F715	80A0783AB	8030A53E0F	8080CB435	80A0783AB	80603DCA0	80609C6473	80C0FB760	802018CA0
	0.jpg	jpg	jpg	8.jpg	.jpg	jpg	jpg	6.jpg	jpg	4.jpg	6.jpg	3.jpg	jpg	C.jpg	8.jpg
HP_TOOLS (E			5 5	1			100	1000	1	1		21		and a second	- 23
🕑 DVD RW Driv	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016
🙀 temp (\\ydriv	06.131	06.13 2	06.14 1	06.14 1	06.14 2	06.14 2	06.151	06.151	06.15 2	06.152	06.16 2	06.171	06.171	06.17 1	06.17 2
🙀 Bufflo (\\192.	80A0F874D	2068E5E805	80A0C037A	80A0F854D	80A0C01BC	2068656775	80A0C0CD	80A0C0278	5600681C1F	8060473B5	8020F51C38	8040924030	8040FE70A	806047D7A	8040A0569
Rersonal Fold	5.jpg	jpg	8.jpg	0.jpg	8.jpg	.jpg	DA.jpg	C.jpg	jpg	A.jpg	jpg	.jpg	D.jpg	F.jpg	D.jpg
CDS_Pictures	- 10			are a			- 4	1	1	and the second s	1	5015		29.5	
🙀 y (\\ydrive) (131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016	131016
🙀 wins-fs (\\yd	06.17 2	06.181	06.18 2	06.191	06.19 2	06.19 2	06.21 1	06.21 2	06.221	06.22 2	06.22 2	06.231	06.23 2	06.23 2	06.24 1
Network	80A0C05FE 6.jpg	804012A7A C.jpg	80A032CAE A.jpg	80A0C047A D.jpg	8020F56413 .jpg	80407E7F5C .jpg	80A0F848E9 .jpg	80A032CA6 C.jpg	80A0204092 .jpg	8080CBC8D E.jpg	80A0CC3B9 C.jpg	80A0CCD36 B.jpg	80407E5F2C .jpg	8080BF3EF7 .jpg	8060F27479 .jpg
🥶 Control Panel 👻					1224								04.0	04.0	963
	31016 06.38 1 800	COBA5DBC.jpg			en Dime	ensions: 2560 x 1			Authors: Add an			status: Online			
Idf	PEG image			Add a tag ☆ ☆ ☆ ☆ ☆ ☆		Size: 2.74 ME Title: Add a t			mments: Add co ailability: Not ava		Camera m	naker: Add text			



Selecta - Homepage				
Select photos Dow	nload Settings			
			_	
Vehicle	DLR R2	· .	2	
USB disk path				
Please, select below th	e directory containing the photo	os to download		
⊿ 💷 Computer				
► 🚔 C:\				
► 📾 D:\				
► 🚔 E:\			=	
► 🚔 F:\				
▲ <u> </u>	folder			
Identified and the second s				
		Do	wnload	

Selecta - Homepage						8
Select photos	Download	Settings				
Vehicle		07D16403		-		
USB disk	ath					
Please, sele	ct below the directory of	containing the photo:	s to download			
🥩 X:\						
⊿ 🗐 Co				▲		
	≧ C:\ ■ D:\					
	■ D:\					
	⊇ =:\			=		
	≣ <i>X:</i> I					
•	🛅 New folder					
►	🔄 old cds			-		
		_	_	_		
				Download		


Selecta - Homepage				
Select photos	Download	Settings		
Vehicle		07D16403	•	
Start da	te	13/10/2016	▦	
Finish d	ate	14/10/2016	Ħ	
Image t	уре	Unviewed		
Skipped	l photos	0		
		Only confirmation		
Loa	ding			
		Searc	:h	







01

0



Need review





OK

Cancel



Contamination type

Contamination level

Bottles Black Bags Bottles Nappies Food Stuff Waste

Grass/Cuttings

Clothes







X



Contact details		
Name :		
840		
Phone :		
Mobile :		
120120		
Email :		
Address :		
	Dalkey	
	Co Dublin	

Contaminations reported :

Show photos

Date	Туре	Level	Description
10/13/2016 6:21:00 AM	Bottles	1	
10/13/2016 6:21:00 AM	Waste	3	WEEE Desk Fan
10/13/2016 6:21:00 AM	Bottles	3	
10/13/2016 6:21:00 AM	Bottles	3	





THE PLAN



























12,000 customers



6 month trial



8,000 binlifts every two week cycle







12,000 customers



ᠵ 6 month trial



8,000 binlifts every two week cycle



120,000Kgs of material collected every two week cycle













More than **300,000**

of the green bins we collect annually are contaminated so badly that they can't be recycled.

That's **38%** of your efforts going to waste.

Together we can fix this.

Panda's new on-truck cameras

are now identifying contaminated green bins the moment they are collected, registering who the bins belong to and fining them accordingly.

Take a minute

to read this leaflet, so you can ensure contaminated green bins won't cost you money.



EVERYBODY PAYS For Contaminated Green Bins

IMPROPER USE OF GREEN BINS IS BAD FOR THE ENVIRONMENT, WASTES TIME AND WILL SOON WASTE MONEY WITH FINES ON THE WAY.



EVERYBODY PAYS For Contaminated Green Bins

> IMPROPER USE OF GREEN BINS IS BAD FOR THE ENVIRONMENT, WASTES TIME AND WILL SOON WASTE MONEY WITH FINES ON THE WAY.

> > **SEE OVER**

AVOID SURCHARCES - KEEP YOUR GREEN BIN GREEN - PROTECT YOUR ENVIRONMENT



USE YOUR GREEN BIN FOR: Newspapers, Magazines. Phonebooks, Paper, Cardboard, Cardboard, Cans, Cereal Boxes, Plastic Bottles, Tetra-Paks (milk cartons etc.), Empty Aerosols.







DO NOT USE YOUR CREEN BIN FOR:

Glass, General Waste, Nappies. Food, Aeroboard/ Polestyrene/ Styrofoam, TVs, **Electrical Equipment**, Batteries, Garden Waste, Liquids & Oils. Flourescents & Bulbs, **Bags containing** waste (green or general).

Responsible recycling is in all our best interest, and our customers have shown that it really matters to them. At Panda we take our responsibility just as seriously, which is why we've invested in this contamination detection technology to help make our recycling even more efficient, and better for the environment. The less penalties our new cameras result in, the bigger a success they will be! Please call us at 1890 62 62 62 any time you're uncertain whether something is a potential contaminant or not.

Name:	
Phone:	
Mobile:	
Email:	
Address	:



Name:	
Phone:	
Mobile:	
Email:	
Address	



Strike 1:

You've been caught contaminating your recycling bin with **"Textiles" + "Garden waste"**

Phone:	
Mobile:	
Email:	
Address:	



Strike 1:

You've been caught contaminating your recycling bin with "Textiles" + "Garden waste"

Next time you will be charged €20 reflecting the costs associated with detecting and removing your contamination from the properly presented material of your neighbours bins.

Name:	
Phone:	
Mobile:	
Email:	
Address	:



Strike 1:

You've been caught contaminating your recycling bin with "Textiles" + "Garden waste"

Next time you will be charged €20 reflecting the costs associated with detecting and removing your contamination from the properly presented material of your neighbours bins.

Please See attached list of acceptable items

Name:	
Phone:	
Mobile:	
Email:	
Address	



You've been caught contaminating your recycling bin for a second time: "black bags + general waste"

Name:	
Phone:	
Mobile:	
Email:	
Address	:[]



You've been caught contaminating your recycling bin for a second time: "black bags + general waste"

As previously notified, you are being charged €20 reflecting the costs associated with detecting and removing your contamination from the properly presented material of your neighbours bins.

Name:	
Phone:	
Mobile:	
Email:	
Address:	



You've been caught contaminating your recycling bin for a second time: "black bags + general waste"

As previously notified, you are being charged €20 reflecting the costs associated with detecting and removing your contamination from the properly presented material of your neighbours bins.

Next time your account will be closed.

Name:	
Phone:	
Mobile:	
Email:	
Address	:



You've been caught contaminating your recycling bin for a second time: "black bags + general waste"

As previously notified, you are being charged €20 reflecting the costs associated with detecting and removing your contamination from the properly presented material of your neighbours bins.

Next time your account will be closed.

Please see attached list of acceptable items



You've been caught contaminating your recycling bin for a third time: : "glass"



You've been caught contaminating your recycling bin for a third time: : "glass"

As previously notified, you now need to make arrangements for an alternative collector.



You've been caught contaminating your recycling bin for a third time: : "glass"

As previously notified, you now need to make arrangements for an alternative collector.

Please call our office on 1890 626262 to settle your account and schedule the removal of your Panda bins.



You've been caught contaminating your recycling bin for a third time: : "glass"

As previously notified, you now need to make arrangements for an alternative collector.

Please call our office on 1890 626262 to settle your account and schedule the removal of your Panda bins.

In the meantime, please see list of acceptable items.



Thank you

