

## APPENDIX

# Waste & Recycling Service Options

# Overview

- Background
- Key Collection Options (2019/20)
- Service options detailed costs, staff and equipment
- An overview of Authorities collecting residual waste once every three weeks
- National framework on greater consistency
- Possible wheeled bin colours



# Drivers for future change

- Increase recycling and reduce residual waste
- Reduce wind blown and dropped recycling
- Reduce noise from glass collection for workers safety
- Saving up to £1.46 million (depending on collection options)
- Less vehicle movements and associated emissions
- Reduced number of collections per annum from 23 million to 13 million (depending on collection options)

# Time Line

## **Consultation with other savings proposals**

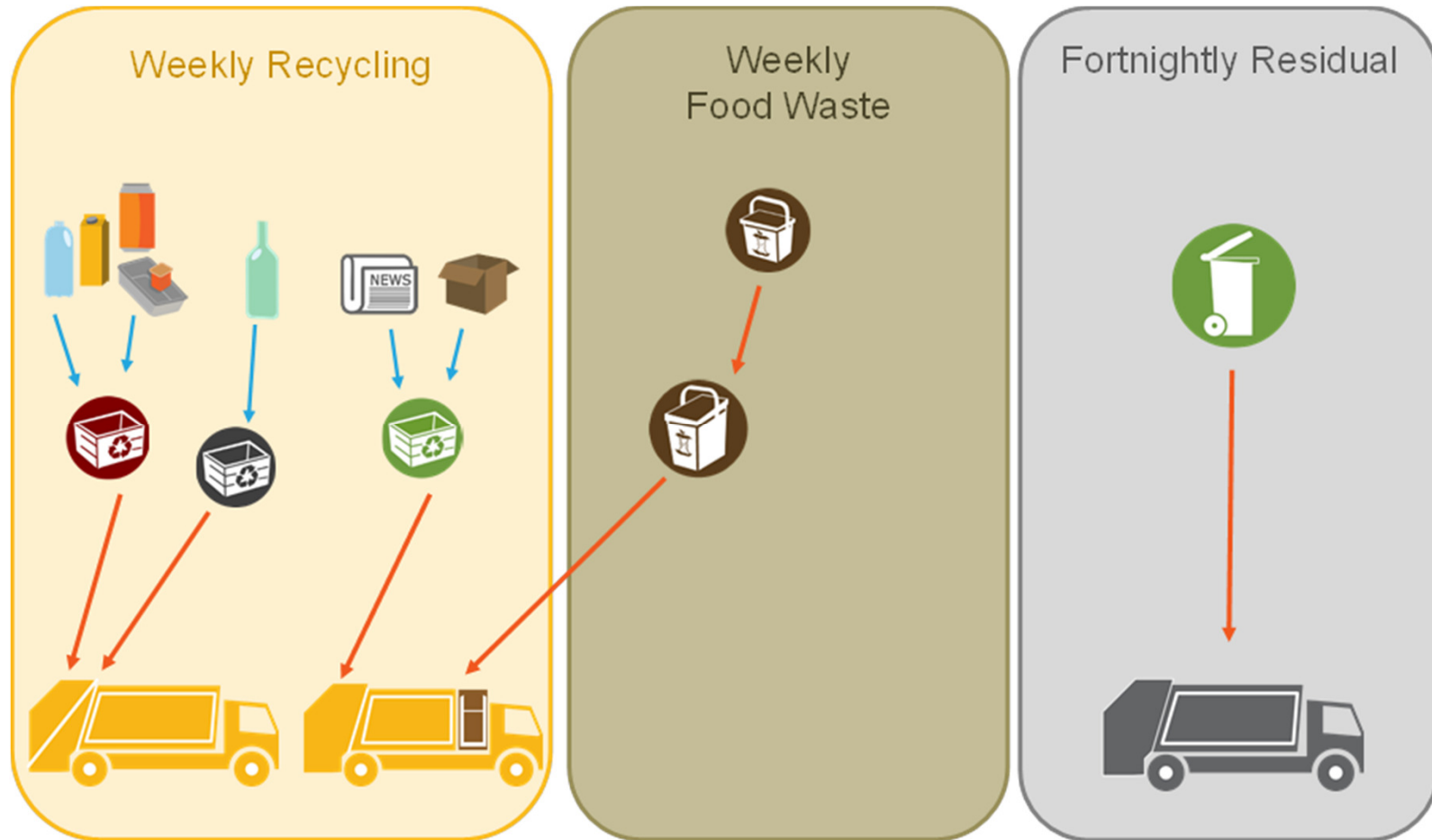
- Places OSC sub-group meetings currently scheduled to be completed by mid January – Places OSC to meet 14<sup>th</sup> February
- Public Consultation November to January 2019
- 4<sup>th</sup> February 2019 Cabinet Briefing
- 25<sup>th</sup> February 2019 Public Cabinet decision on collection option and future commissioning arrangements.
- Service rollout July to October 2019

# Statutory Framework

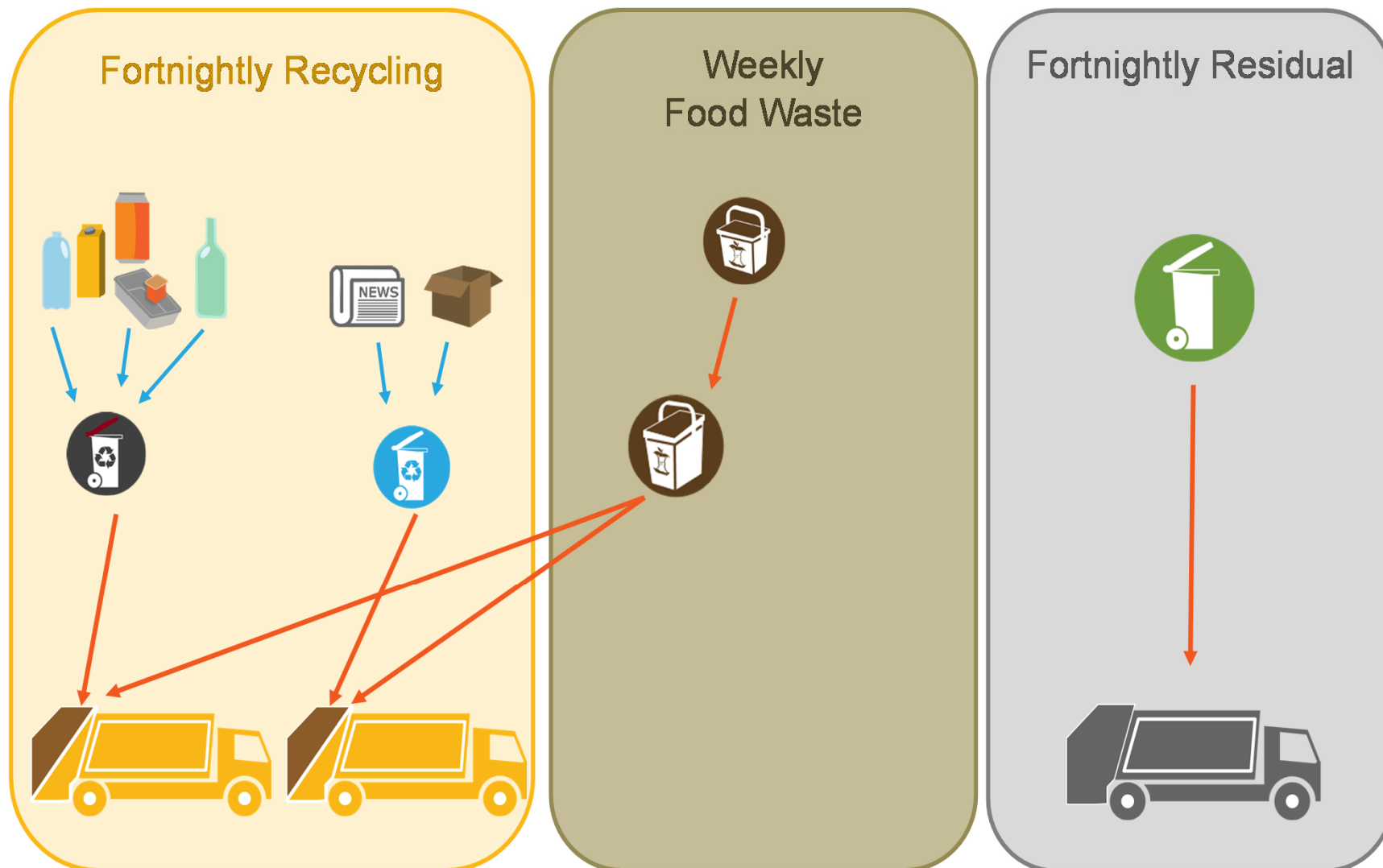
- Environmental Protection Act 1990 Duty to collect Household and Commercial Waste, and a duty to Collect two types of recyclable waste.
- The Waste Regulations 2011 & 2012 requires the separate collection of paper, metals, plastic and glass.
- Greater London Authority Act 2007 requires Boroughs to “act in general conformity with” the Mayor of London’s Municipal Waste Strategy/ Environment Strategy.

# Current system for Houses

(Food and dry recycling in four boxes & Residual in wheeled bin)

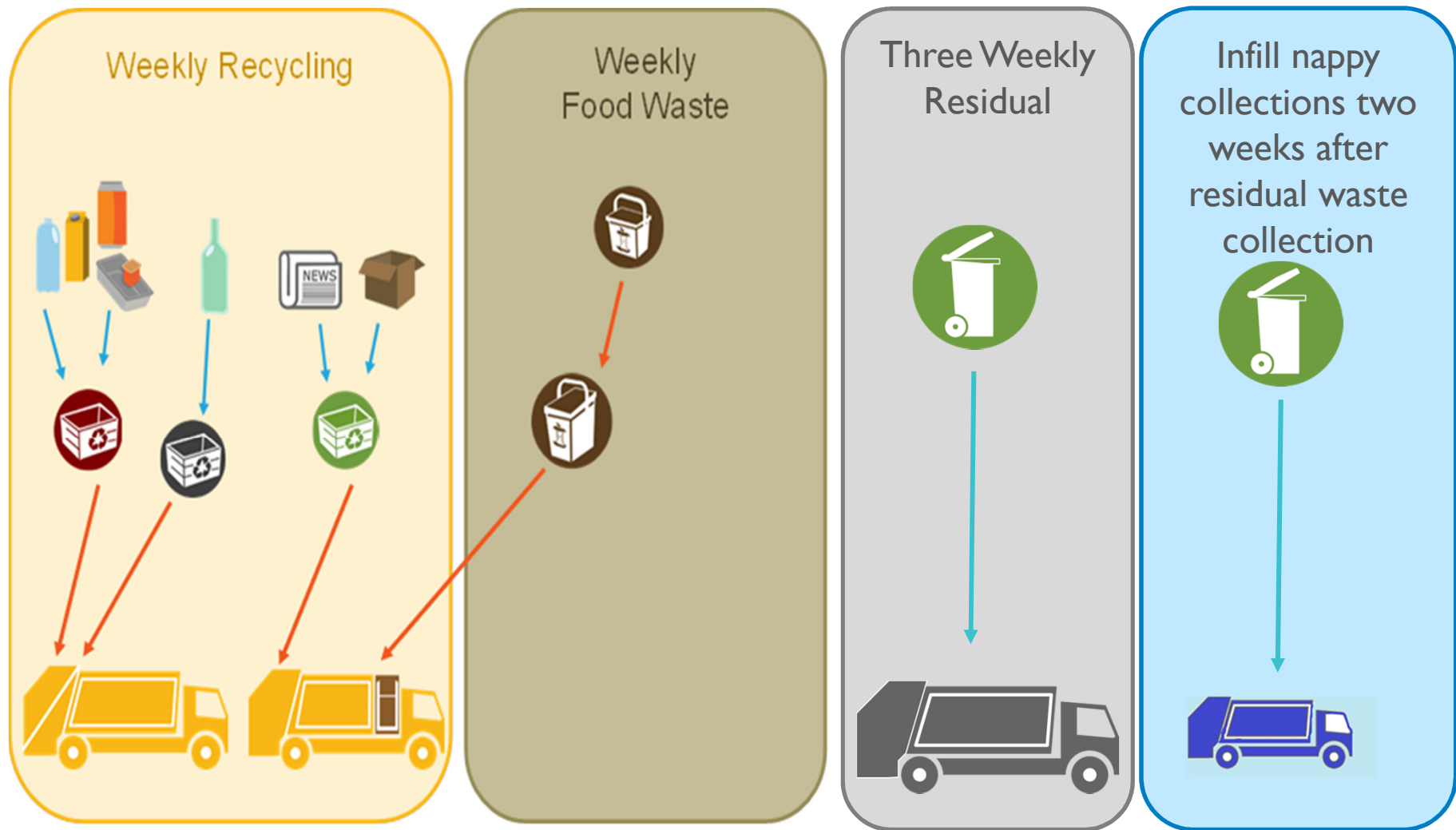


## Option 1 Fortnightly Dry Recycling and Residual (Food box and 3 wheeled bins collections)



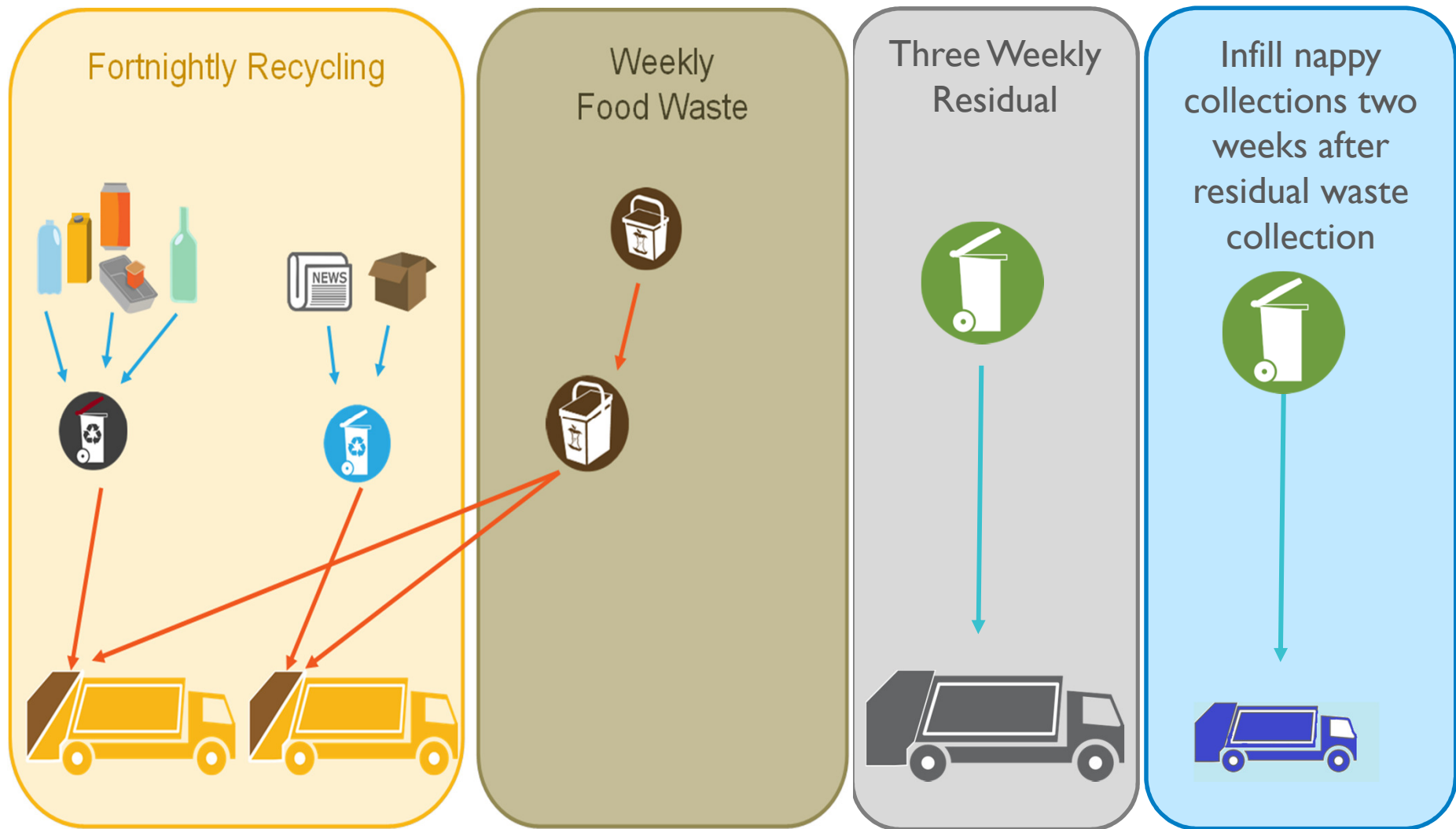
## Option 2: Three Weekly Residual & Weekly Dry Recycling

(Food and dry recycling in four boxes & Residual in wheeled bin)



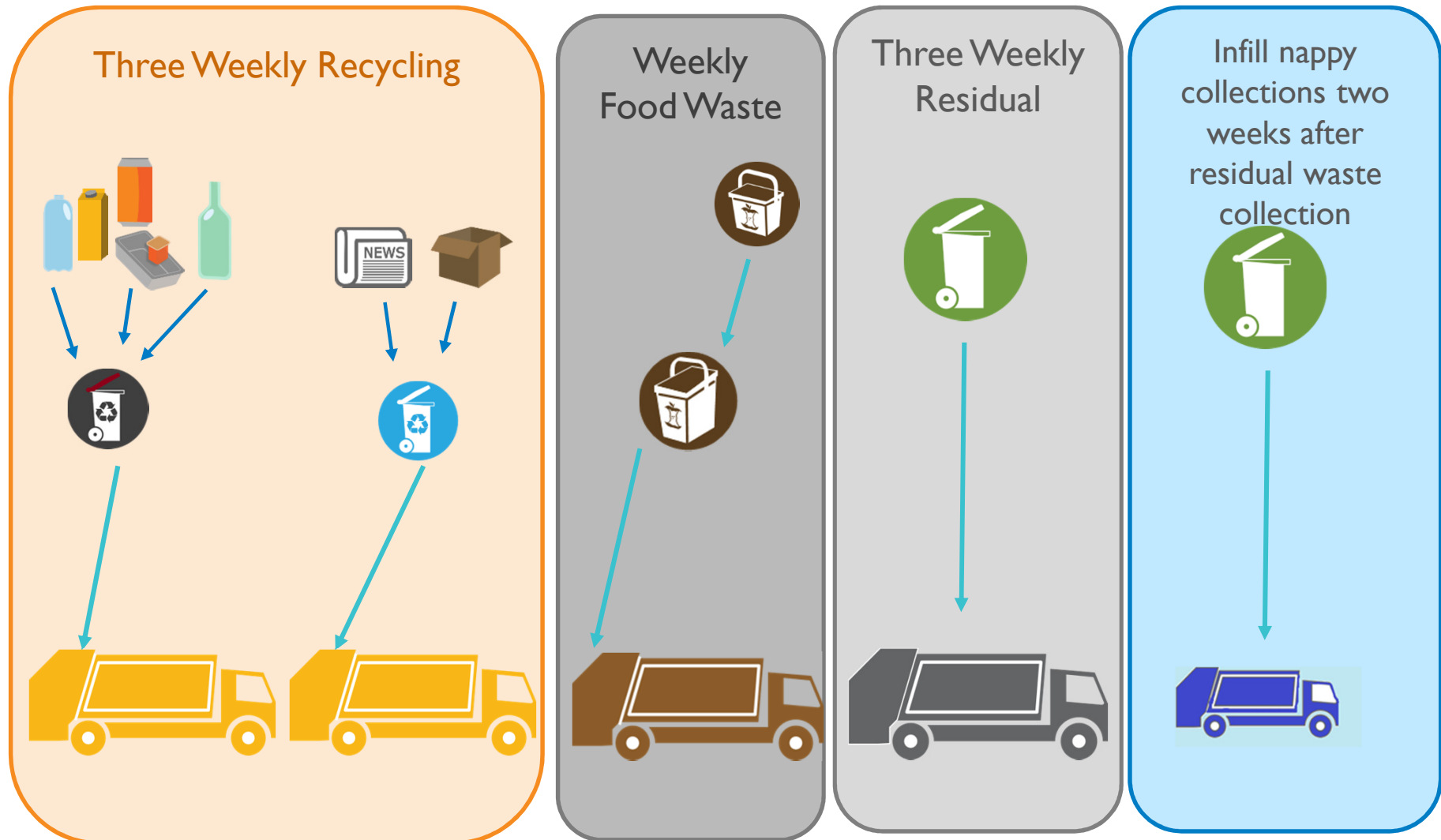


## Option 3: Three Weekly Residual and Fortnightly Dry Recycling (Food box & 3 wheeled bins)

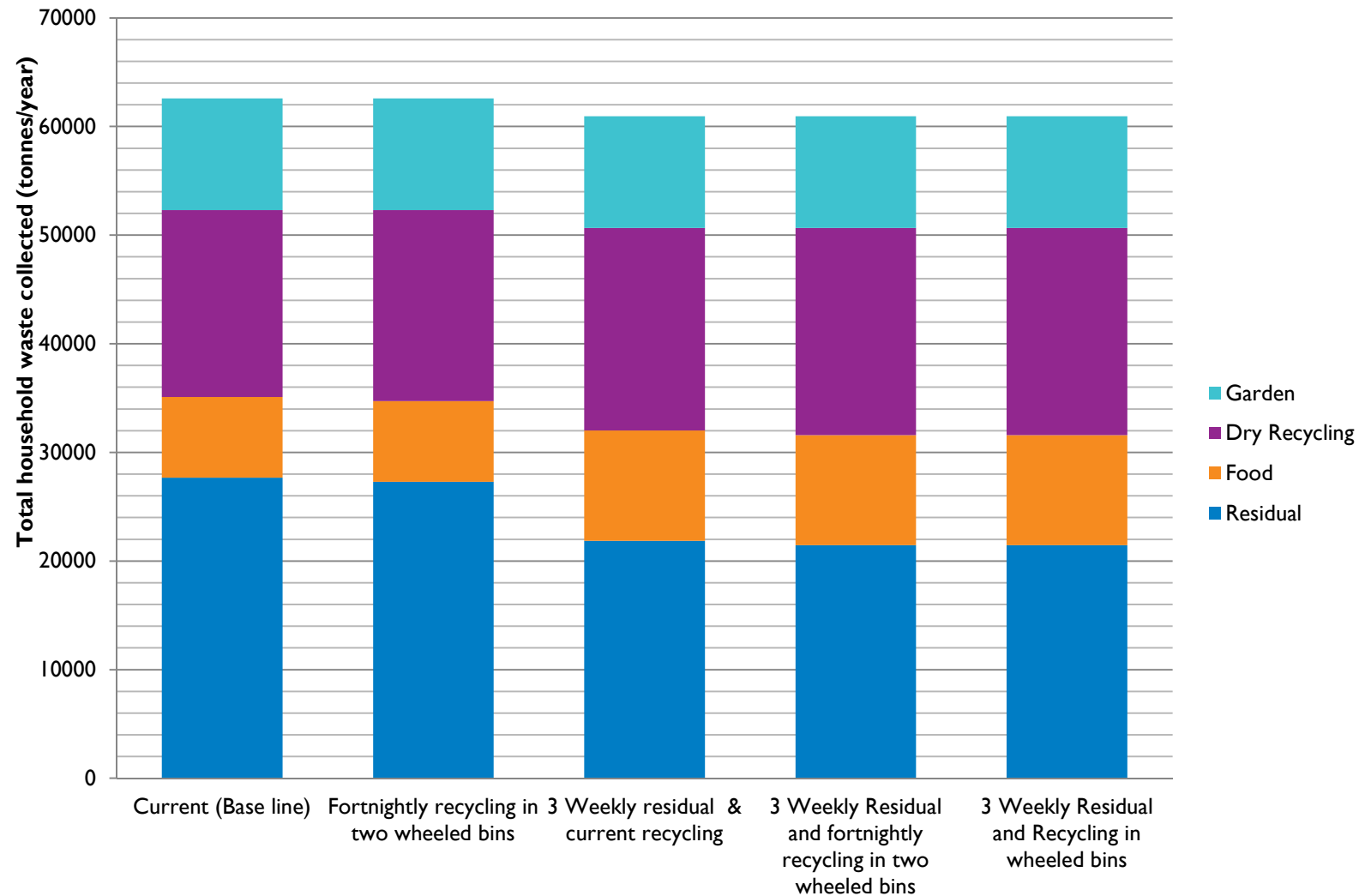


# Option 4: Three Weekly Residual and Dry Recycling

(Food box and 3 wheeled bins collections)



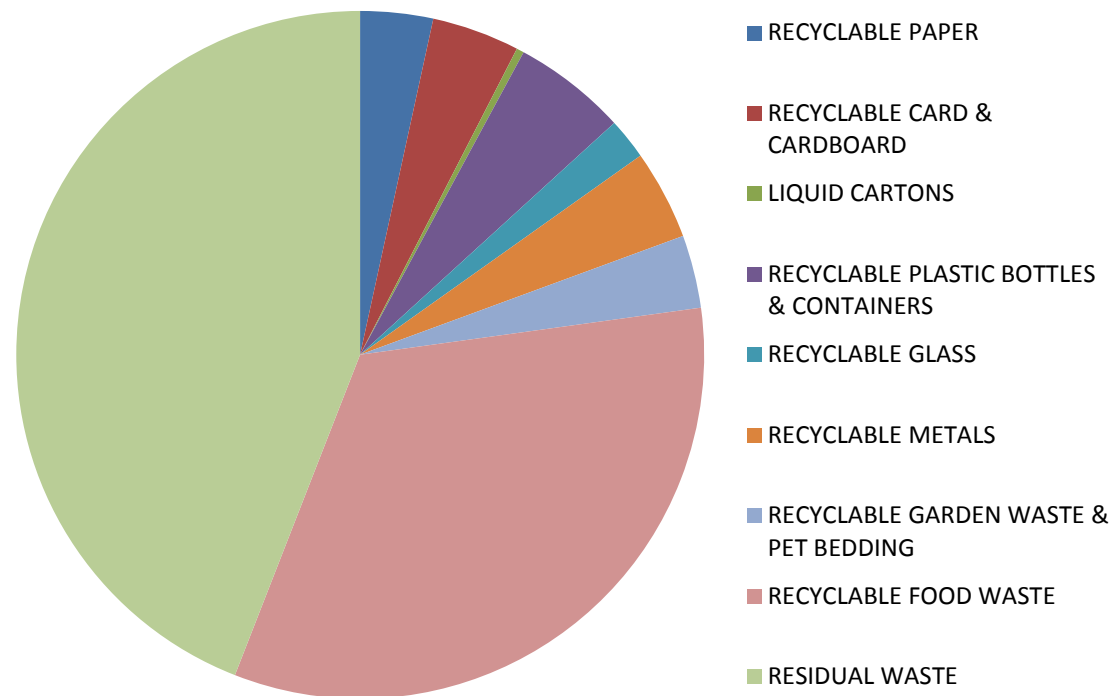
# Waste Flow Modelling of collection options



# Contents of the Residual waste green bin

RESIDUAL WASTE	2014	2016	2017
TOTAL KG/HH/WK	5.97	6.44	5.03
% SET OUT RATE	89.5%	89.5%	83.8%
TOTAL RECYCLABLE	54.1%	42.3%	55.9%

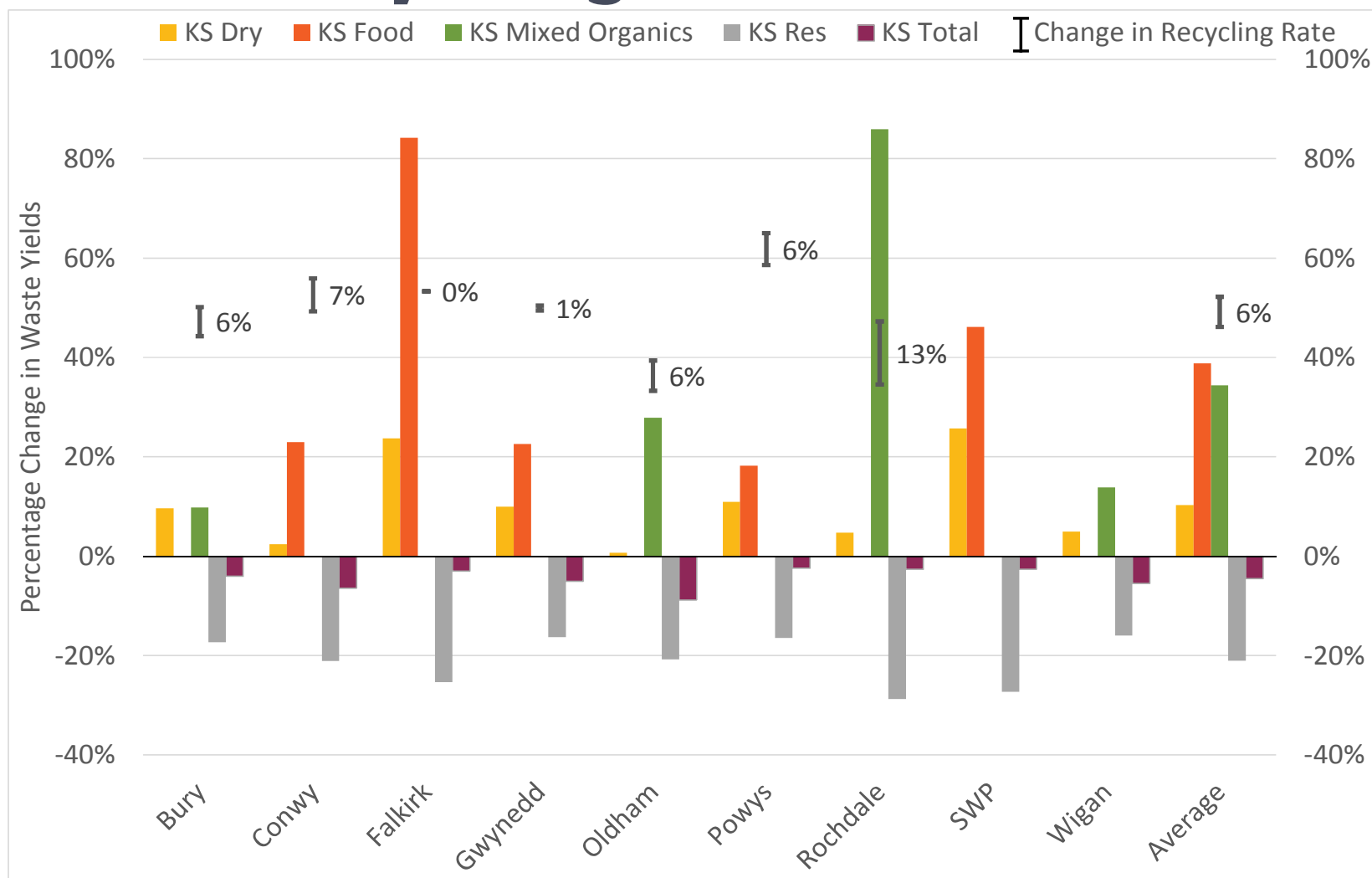
## Contents of Green Residual waste bin 2017



# Who is currently collecting Three Weekly Residual

Authority	Before	After	Change Date
Blaenau Gwent	F 240	3W 240	Sep 2015 – Mar 2016
Bury	F 240	3W 240	Oct 2014
Clackmannanshire	F 240	3W 240	Aug 2016
Conwy <sup>1</sup>	F 240	3W 240	Jul 2016 – Oct 2016
Daventry	F 240	3W 240	Jun 2018
East Ayrshire	F 240	3W 240	Jun 2015 – Dec 2015
East Devon	F 180	3W 180	Feb 2017 – Jun 2017
East Renfrewshire	F 240	3W 240	Oct 2016
Falkirk <sup>2</sup>	F 240	3W 240	Apr 2014 – Mar 2015
Fife	F 140	3W 140	Sep 2015 (12m Trial)
Gwynedd	F 240	3W 240	Oct 2014 – Jun 2015
Isle of Anglesey	F 240	3W 240	Oct 2016
North Ayrshire	F 240	3W 240	Apr 2019
Oldham	F 240	3W 240	Oct 2016
Powys	F 180	3W 180	Nov 2015
Rochdale	F 240	3W 240	Oct 2015
Salford	F 240	3W 240	Jul 2016 – Aug 2017
Somerset Waste Partnership	<b>F 180</b>	<b>3W 180</b>	<b>Sep 2014 (10wk Trial)</b>
	F 180	3W 180	Mar 2020
Wigan	F 240	3W 240	Sep 2017
<sup>1</sup> Move to 4W residual collections planned from end of 2019			
<b>Notes:</b> <sup>2</sup> Moved to 4W residual collections in Oct 2016			
F=Fortnightly, 180 & 240 are the sizes of wheeled bins			

# Impact of Three Weekly Collections on Recycling and Residual waste



# Background data on three weekly residual waste Authorities

Authority	Population of Authority	Area in Hectares	Population Density of Authority	Dwelling Stock	Properties sharing Communal bin (indicator of Flats)	Index of Deprivation
Bexley LB	246,124	7,116	34.59	97,890	17,795	16.711
Blaenau Gwent CBC	69,674	10,900	2.16	32,314		0
Bury MBC	189,628	10,089	18.80	83,350	1,850	22.231
Conwy CBC	116,287	113,000	1.03	56,612		0
Daventry District Council	82,638	66,409	1.24	34,900	0	12.058
East Devon District Council	142,265	82,293	1.73	68,070	0	13.865
Gwynedd Council	122,273	254,800	0.48	60,357		0
Isle of Anglesey CC	70,169	71,400	0.98	34,878		0
Oldham MBC	233,759	13,782	16.96	95,850	6,170	30.406
Powys County Council	132,675	517,900	0.26	63,929		0
Rochdale MBC	218,459	15,844	13.79	93,260	0	33.849
Salford City Council MBC	251,332	9,701	25.91	114,710	10,245	34.738
Somerset Waste Partnership	1,110,390	346,991	3.20	253,640	8,037	0
Wigan MBC	324,650	18,833	17.24	143,220	5,624	26.005

# Summary Key points

- Waste & Recycling Collection – up to £1.7m savings depending on option
- Three weekly Residual collections will significantly improve Bexley's recycling rate (5%+) and deliver £0.5 m saving in disposal cost
- 20,000 Flats and some other properties stay on current collection service
- Use of wheeled bins for dry recycling will provide better containment and reduce wind blown items.
  - New wheeled bin for paper ( replacing current box)
  - New wheeled bin Plastics packaging, Cartons, Cans and Glass containers ( replacing current 2 boxes)
- Half our current residual waste is typically capable of recycling ( 2/3 food in packaging 1/3 other)
- 20 + authorities from Bury to Wigan have already gone to 3 weekly and seen +5 to 19 % increase in Recycling by residents
  - Falkirk went 4 weekly 2017 & and Conwy planning to
- Mitigation in Bexley by a new infill Nappy and Absorbent Hygiene product collection service for c. 2,000 properties.



A framework for

# greater consistency in household recycling in England



# Greater consistency



# Greater consistency

## **1. All households to be able to recycle the same core set of materials:**

- Plastic bottles
- Plastic packaging – pots, tubs and trays
- Metal packaging – cans, aerosols and foil
- Glass bottles and jars
- Paper
- Card
- Food and drink cartons
- Food waste

## **2. Fewer collection and sorting systems (Three advised options)**

### **a) Multi-stream with separate food:**

- Household plastic packaging, metals (cans, aerosols and foil) and cartons
- Glass containers
- Paper and card
- Food waste separate

### **b) Two-stream (Paper separate) with separate food:**

- Household plastic packaging, metals, glass and cartons collected as one stream
- Paper and card collected as one stream
- Food waste separate

### **c) Co-mingled with separate food:**

- All dry mixed recyclables collected as one stream (co-mingled)
- Food waste separate

# Greater consistency bin colour



## Options

1. Single colour wheeled bins (Blue for paper & card)
2. Grey wheeled bins with different colour lids
3. What colour will be the second bin or lid?

