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Introducing the ZeroNet

A world beyond waste

□ Drowning in a Sea of WEEE →



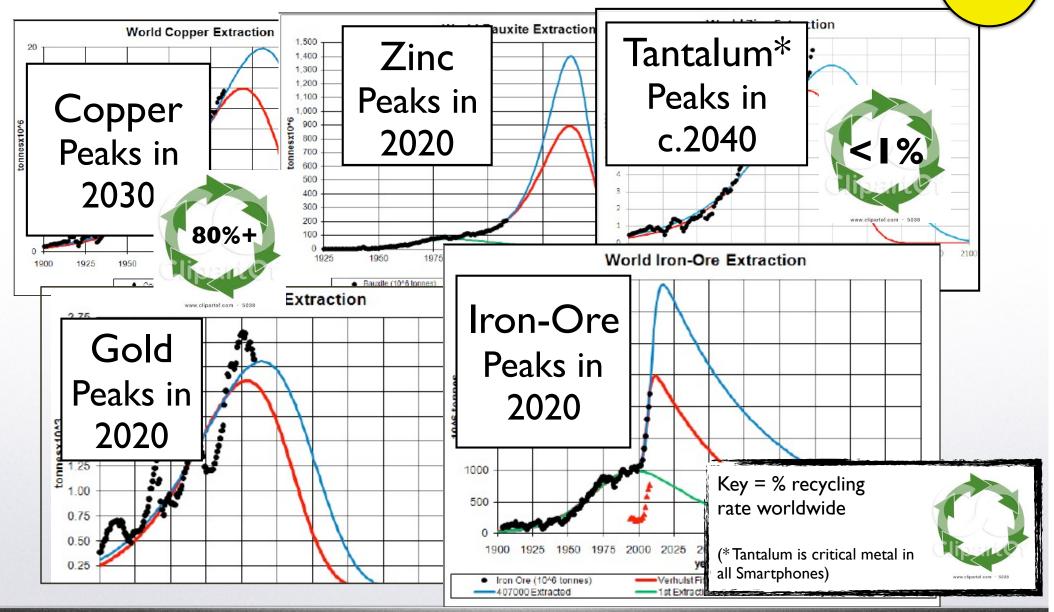


LAUNCH **OPPORTUNITY**

500,000 Tonnes* of Small WEEE PA in UK (40m* tonnes is global figure) (* = currently landfilled/lost)

Value c. £50m -£2B? PA (UK only)

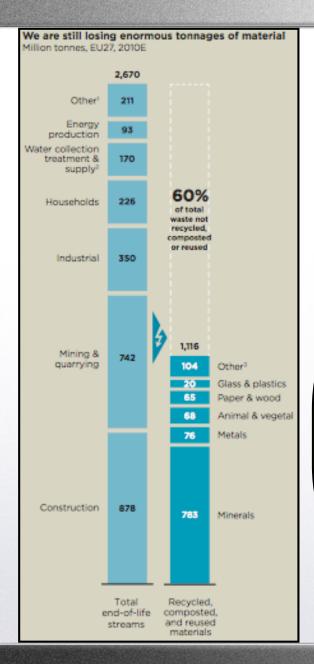
△ 21st Century:- Crunch



Resource Depletion is Coming....and it will affect everyone on the planet

Over 1.5 billion tonnes wasted in EU PA







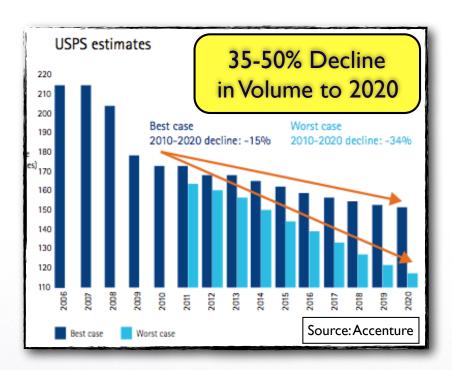
EU27 2010 - Estimates

60% of Total Waste Not Recycled, Composted or Reused

> Source: Eurostat Waste Statistics 2011 Chart: Ellen McArthur Foundation - 'Towards a Circular Economy'

21st Century:-Opportunity









* UK Equivalent figure for Royal Mail is c. 29m per day c. 142* Million Delivery Points per day & we can monetise the 'Back Haul'

National Postal Services Need a New Drug

...and We Can Deliver It!!

The Circular Economy - In good company

THE CIRCULAR ECONOMY

100





The Ellen McArthur
Foundation is the
Leading Global Think Tank on The
Circular Economy

Who's Involved

Some 40 companies have already confirmed their membership of the programme, including:























































































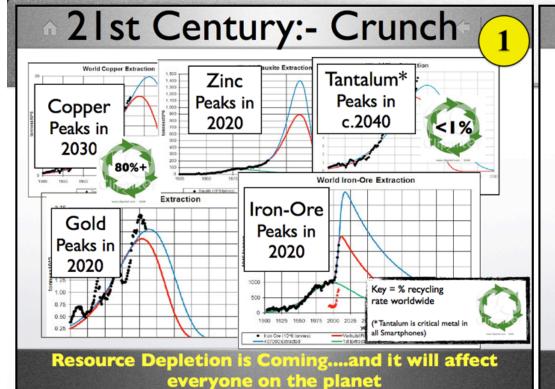








The Circular Economy needs a Whole New Kind of Logistics.....The ZeroNet



Over I.5 billion tonnes wasted in EU PA 2 | Version | State | State

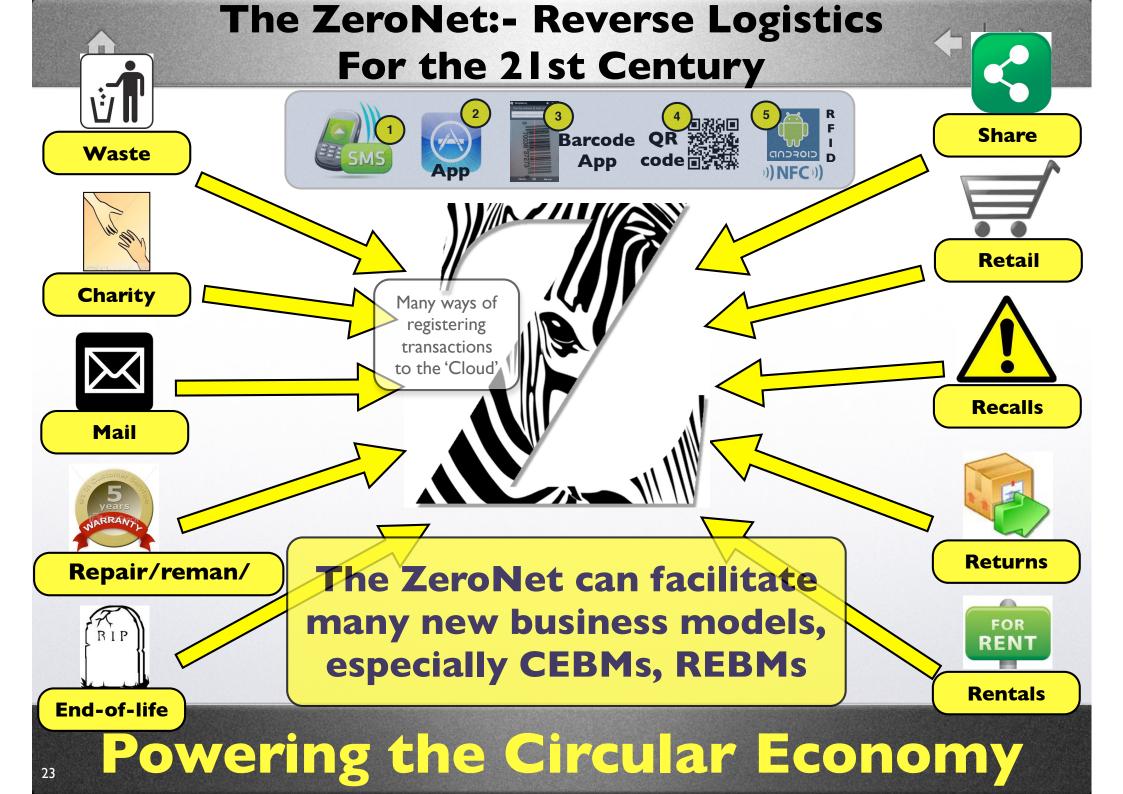
Current recovery methods result in massive waste

Source: Eurostat Waste Statistics 2011
Chart: Ellen McArthur Foundation - 'Towards a Circular Economy'





Kind of Logistics.....The ZeroNet









The Circular Economy vs
Traditional Waste

Where does the ZeroNet fit in?

FIGURE 6 The circular economy—an industrial system that is restorative by design

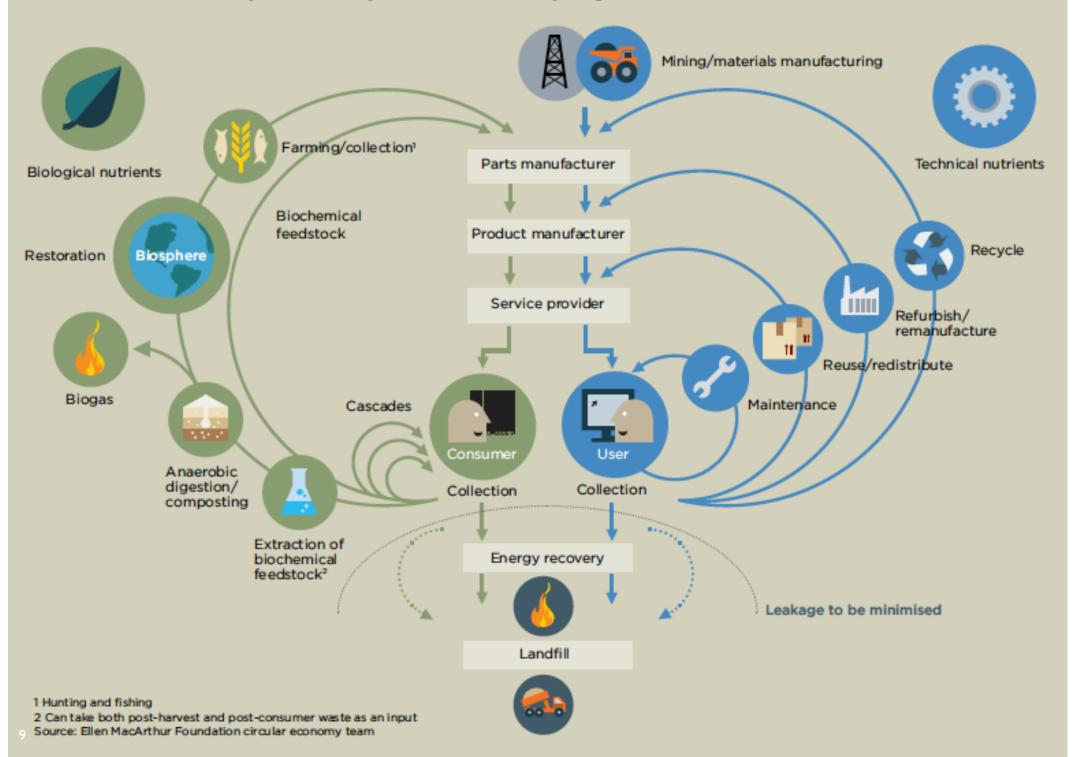
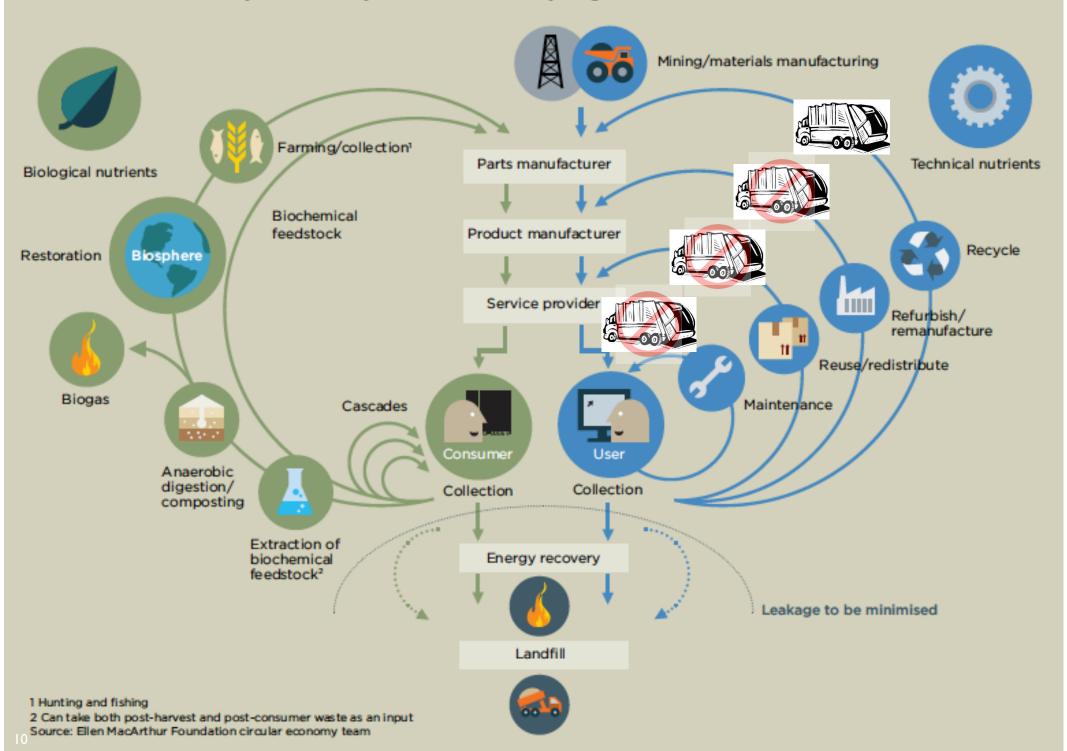
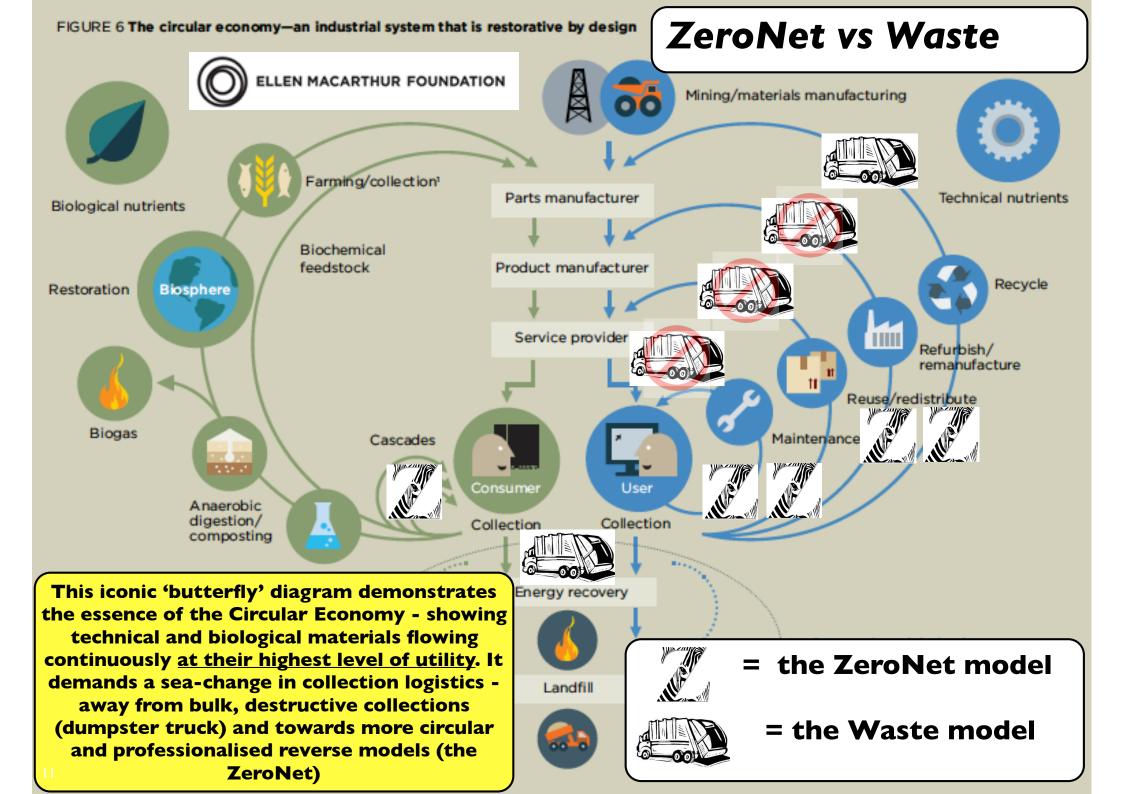
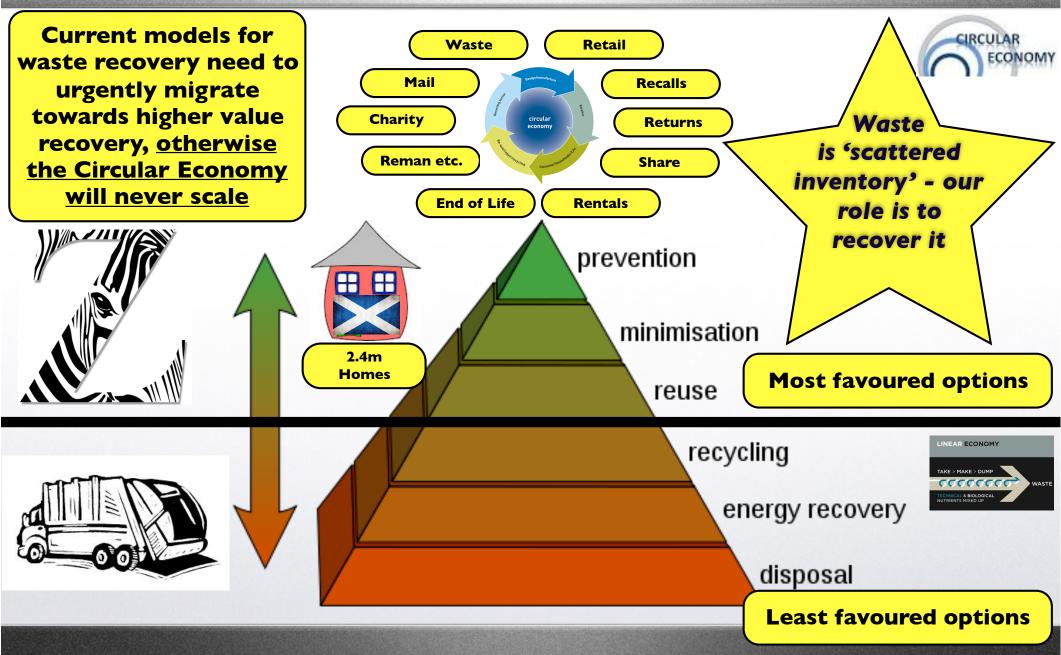


FIGURE 6 The circular economy—an industrial system that is restorative by design



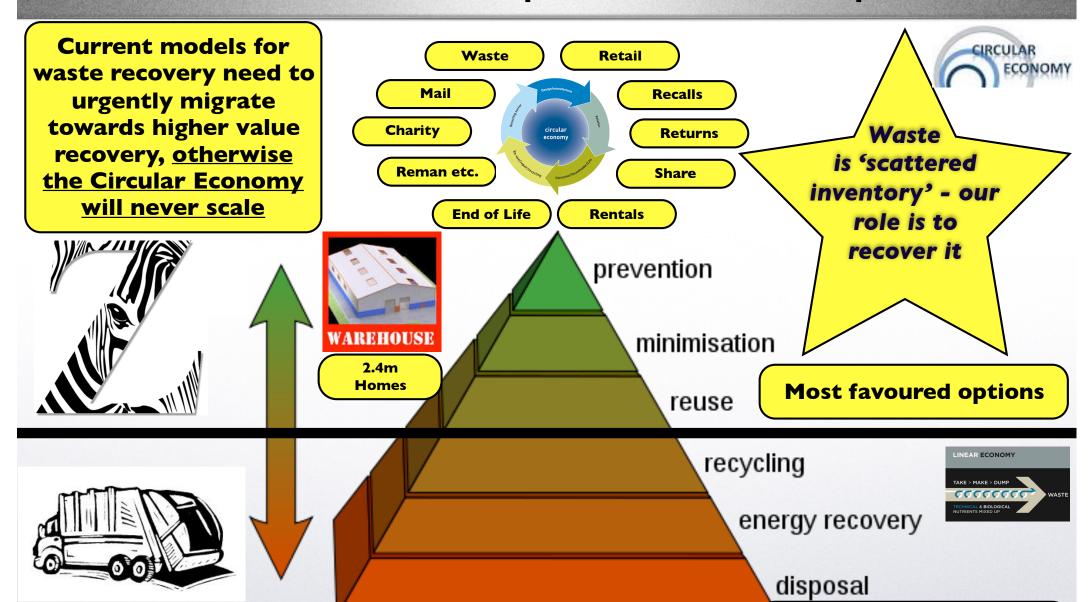






"Resource Recovery" is the new "Waste Management"





Least favoured options

"Resource Recovery" is the new "Waste Management"







Circular Economy Business Models:

A quick glimpse of what's to come?

The ZeroNet will help reinvent retail (1)



PHILIPS

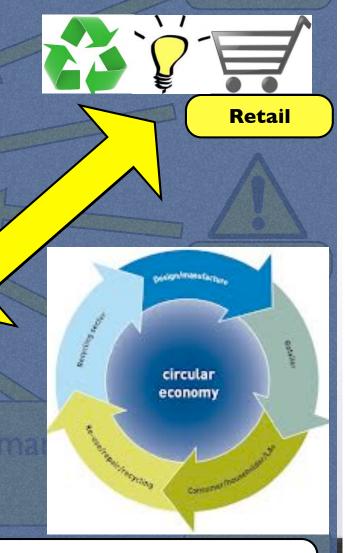
sense and simplicity



"Light as a Service"

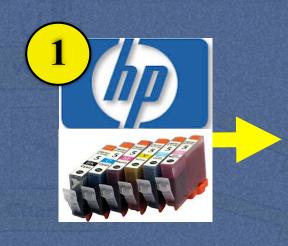
Closed Loop Retail:

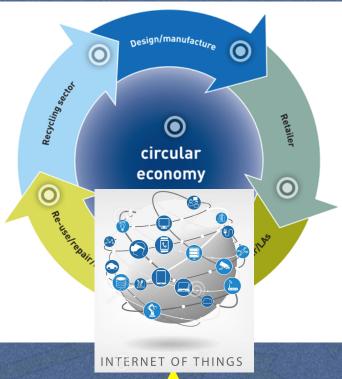
- Broken light bulb is key event
- Triggers doorstep delivery of replacement
- Old bulb is removed as part of transaction
- Forward/Reverse Logistics integrated
- Waste and Retail Integrated



Supporting the Circular Econony

The ZeroNet will help reinvent retail (2)

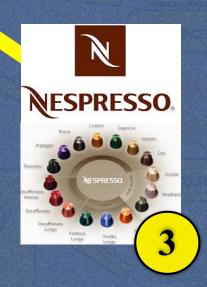












Supporting the Circular Econony





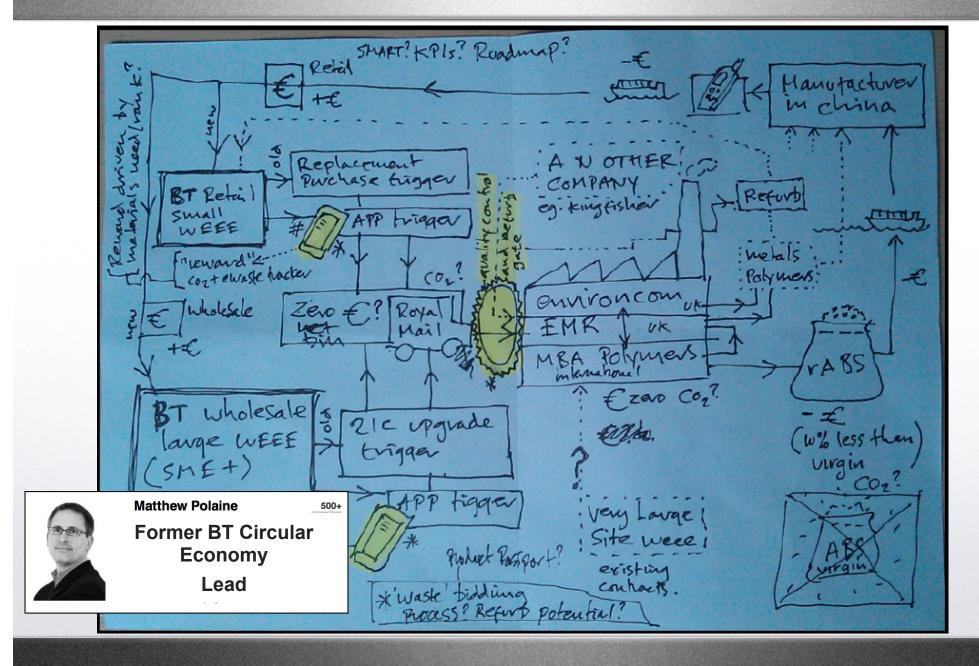


Remanufacturing & The ZeroNet

What's the connection?

The ZeroNet: Supporting Circular Supply Chains (



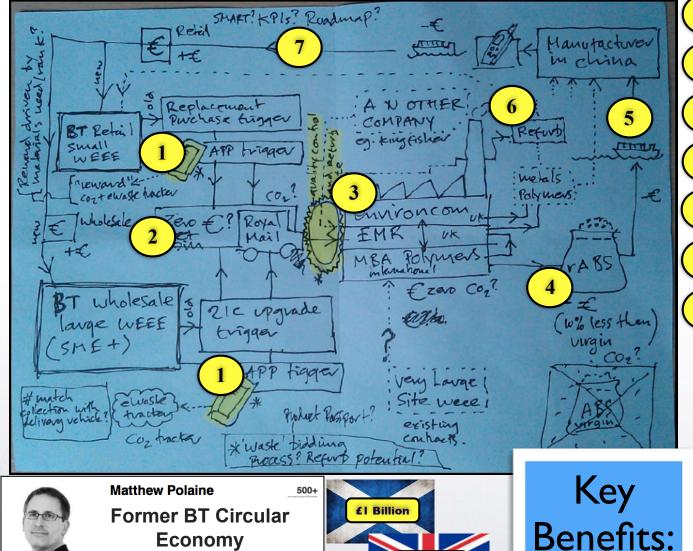


The Brands aren't there yet - But if we build it...

A ZeroNet: A vision for remanufacturing







- Retail event triggers return event
- ZeroNet is used for collection
- Reprocessors manage disassembly
- rABS plastic made by MBA polymers
- Old parts shipped to China for reuse
- Other parts drive local refurb jobs
- New products contain hi % of old
 - High value recovery
 - New way to engage brand
 - UK jobs creation
 - New supply chain from waste
 - Reduce mfg costs
 - Reduce need for virgin materials

Massive reduction

in CO₂

"If we build it, they will come.....

£9 Billion

Lead

The journey from waste to inventory - I



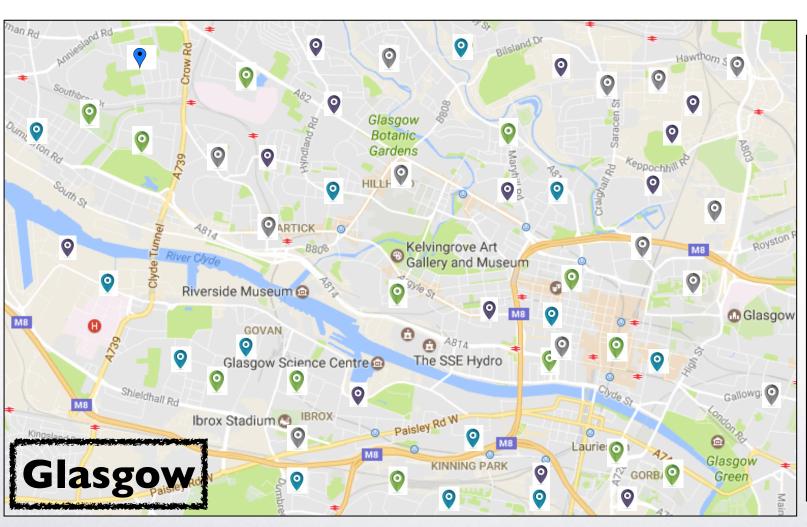
Where have all the wifi/TV hubs gone?





lt's all about knowing where products are located..



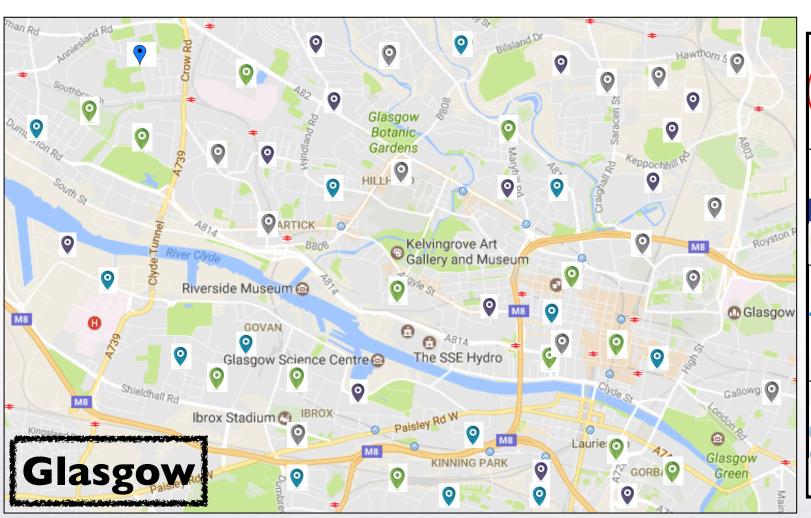


Sample Figures



The journey from waste to inventory - 3 → →





Sample Figures



Active discussions with many global brands:











The ZeroNet - Prototype now built →





Realtime dispatch and driver management

















2.4 Million **Homes**



First 'on-demand' intelligent doorstep collection experience in the world



Aberdeen is launch city: Mid 2017







The ZeroNet &

Scotland Rollout

What's the plan?



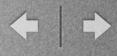
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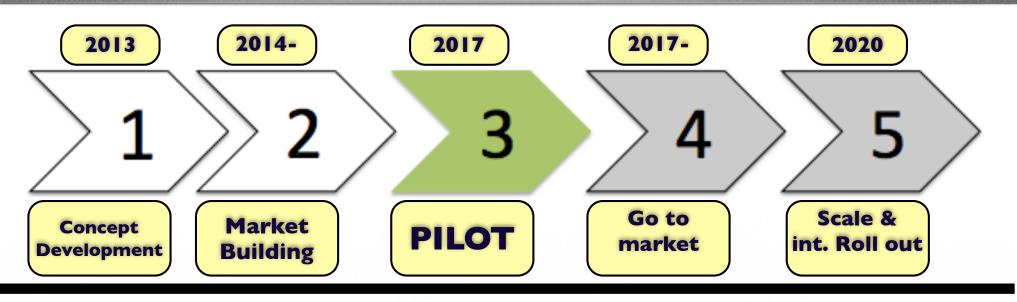
National analysis of potential Small WEEE Collections -Scotland

Average household size		2.2		Based on One Collection Per Month						2 month Interval (x 2)	
	Scotland WEEE HH Analysis		Total Total Potential Collections PA 'MARKET SHARE'								
			Est		100%	50%	20%	10%	5%	10%	5%
Rank	Council area	Population									
1	City of Glasgow	592,800	269,455	538,909	44,909	22,455	8,982	4,491	2,245	8,982	4,491
2	City of Edinburgh	486,100	220,955	441,909	36,826	18,413	7,365	3,683	1,841	7,365	3,683
3	Fife	365,000	165,909	331,818	27,652	13,826	5,530	2,765	1,383	5,530	2,765
4	North Lanarkshire	326,400	148,364	296,727	24,727	12,364	4,945	2,473	1,236	4,945	2,473
5	South Lanarkshire	311,900	141,773	283,545	23,629	11,814	4,726	2,363	1,181	4,726	2,363
6	Aberdeenshire	245,800	111.727	223,455	18.621	9.311	3.724	1.862	931	3,724	1,862
7	Highland	221,600					_	579	839	3,358	1,679
8	City of Aberdeen	217,100	-	> +	1 フぃ	0 0 D	nual	545	822	3,289	1,645
9	West Lothian	172,100) lO -	T./	li aii	Huai	804	652	2,608	1,304
10	Renfrewshire	170,300						290	645	2,580	1,290
11	Falkirk	153,300	[]	o to 4 ectic		•	_ _	161	581	2,323	1,161
12	Dumfries and Galloway	148,200	l COII	ectic	ns.	IUS	ST TO	123	561	2,245	1,123
13	Perth and Kinross	147,800				,		120	560	2,239	1,120
14	City of Dundee	144,300			11 \ A		_	093	547	2,186	1,093
15	North Ayrshire	135,200		sma	III VI	/EEE	_	024	512	2,048	1,024
16	East Ayrshire	120,200		51110	LII V		-	11	455	1,821	911
17	Scottish Borders	112,900	31,316	102,030	0,333	4,277	1,711	855	428	1,711	855
18	South Ayrshire	111,400	50,636	101,273	8,439	4,220	1,688	844	422	1,688	844
19	Angus	110,600	50,273	100,545	8,379	4,189	1,676	838	419	1,676	838
20	East Dunbartonshire	104,600	47,545	95,091	7,924	3,962	1,585	792	396	1,585	792
21	East Lothian	97,500	44,318	88,636	7,386	3,693	1,477	739	369	1,477	739
22	West Dunbartonshire	90,600	41,182	82,364	6,864	3,432	1,373	686	343	1,373	686
23	Stirling	89,900	40,864	81,727	6,811	3,405	1,362	681	341	1,362	681
24	East Renfrewshire	89,500	40,682	81,364	6,780	3,390	1,356	678	339	1,356	678
25	Argyll and Bute	89,200	40,545	81,091	6,758	3,379	1,352	676	338	1,352	676
26	Moray	87,700	39,864	79,727	6,644	3,322	1,329	664	332	1,329	664
27	Midlothian	81,100	36,864	73,727	6,144	3,072	1,229	614	307	1,229	614
28	Inverciyde	79,800	36,273	72,545	6,045	3,023	1,209	605	302	1,209	605
29	Clackmannanshire	50,600	23,000	46,000	3,833	1,917	767	383	192	767	383
30	Na h-Eileanan Siar (Western Isles)	26,200	11,909	23,818	1,985	992	397	198	99	397	198
31	Shetland Islands	22,400	10,182	20,364	1,697	848	339	170	85	339	170
32	Orkney Islands	20,100	9,136	18,273	1,523	761	305	152	76	305	152
	TOTALS	5.222.200	2,373,727	4,747,455							
		POP	Households								



5 Major Offerings

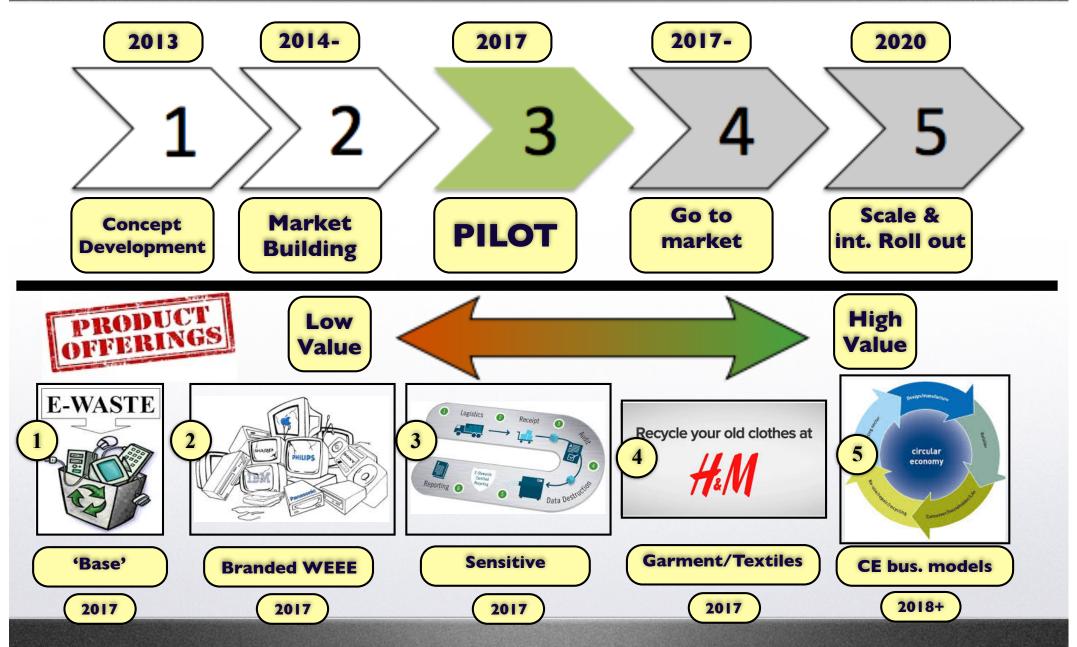




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5 Major Offerings





A Portfolio of Innovative Services will Ensure Success

Major support from Scottish stakeholders















Supported by:





EUROPE & SCOTLAND

European Regional Development Fund Investing in your Future

Driving the Circular Economy in Scotland



Earth does not belong to Man



"If it can't be reduced, reused, repaired, rebuilt, refurbished, refinished, resold, recycled or composted, then it should be restricted, redesigned or removed from production."









Pete Seeger

Poet, singer, songwriter & environmentalist 1919 - 2014

A world beyond waste