

RENAS

RedoIT: A scalable pilot project for recycling electronics

Sapphire Consulting

Nicholas Chan, Mark Laufert, Angela Tan, Langni Zeng

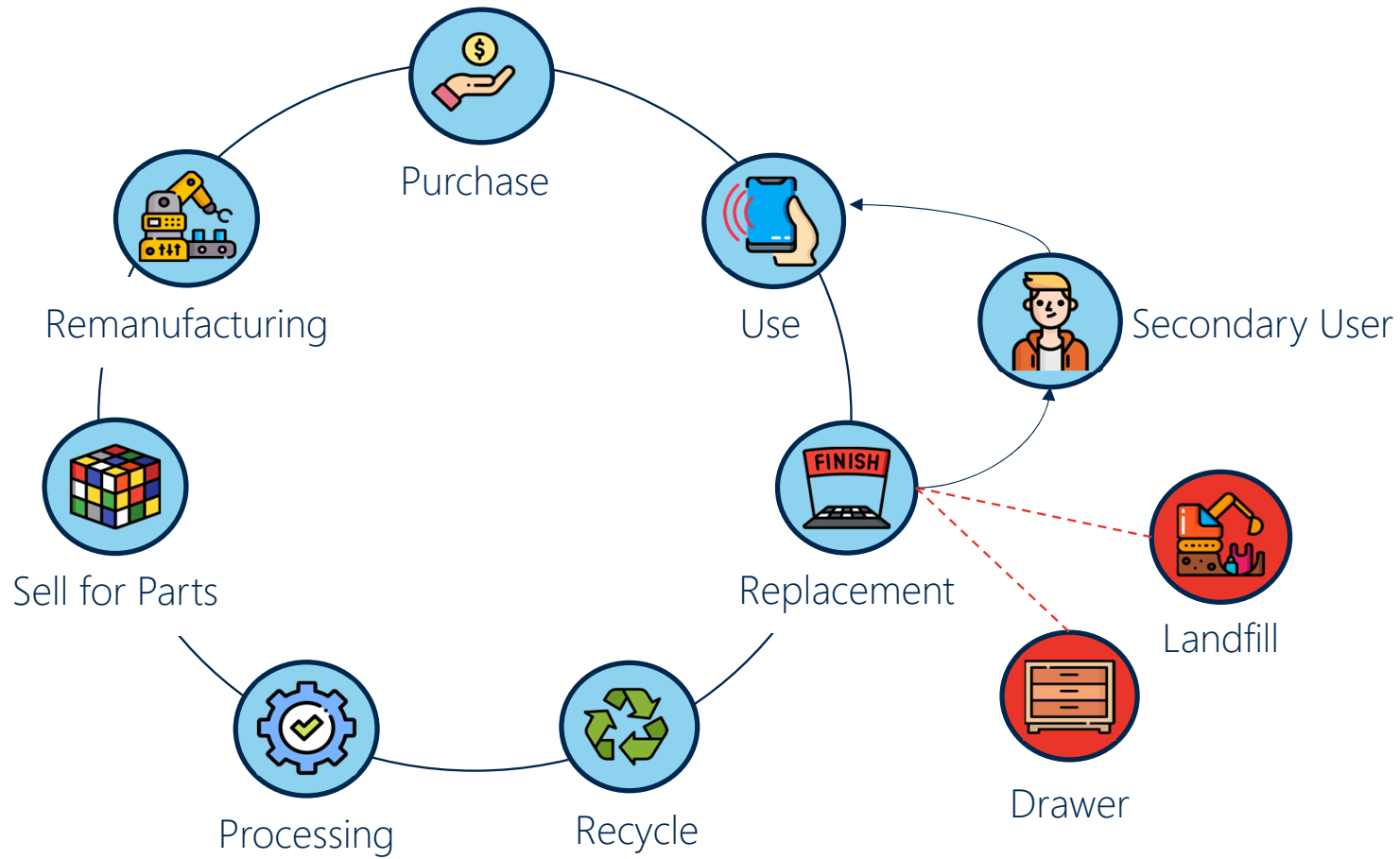
Tasks

Develop a pilot project for RedoIT that encourages and allows consumers and small businesses to recycle electronic devices containing sensitive information.

Define how this pilot can be scaled nationally.

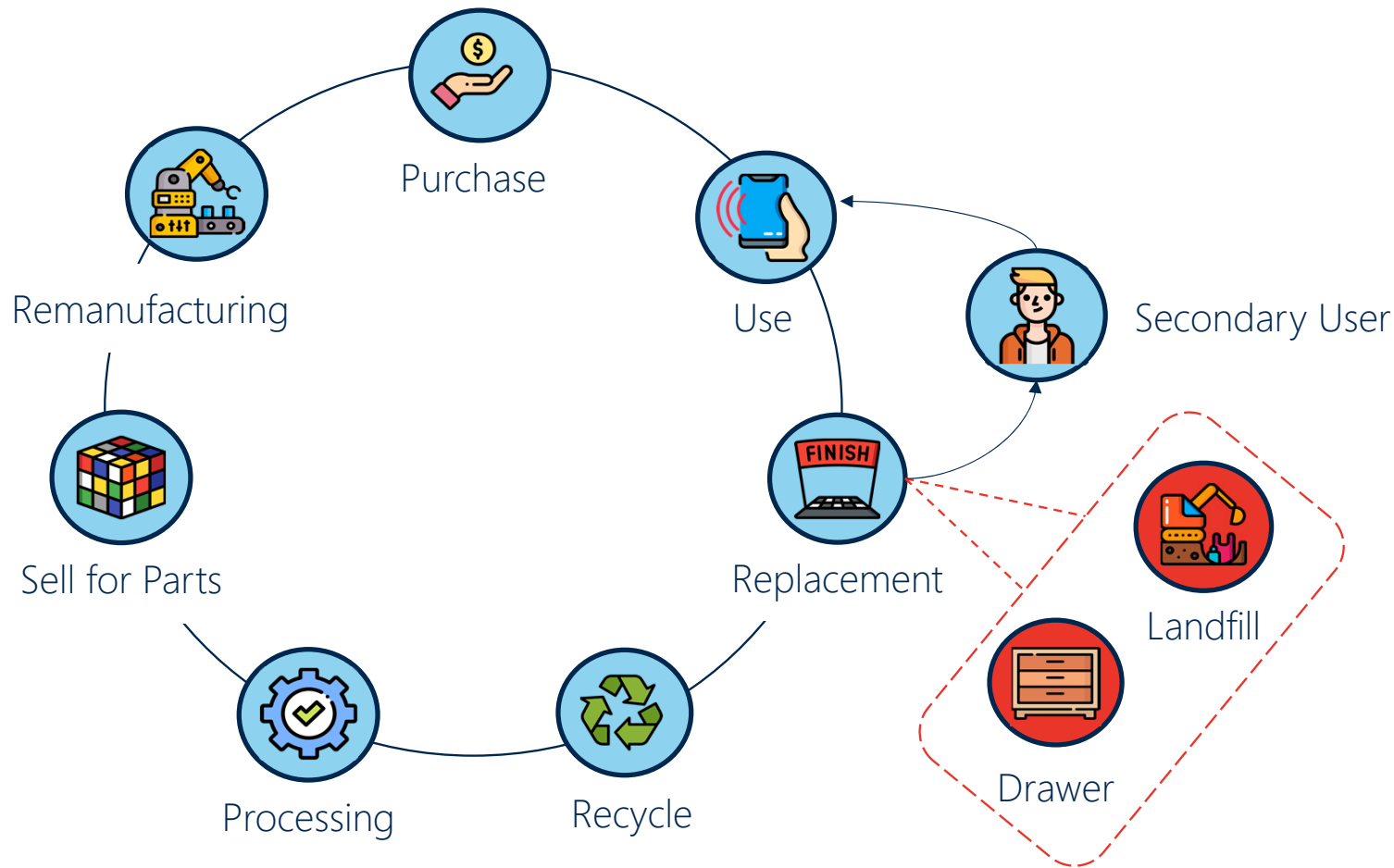
Analysis

RENAS has established the infrastructure needed to facilitate a circular economy



Analysis

Many personal devices still follow a linear path to landfills or drawers

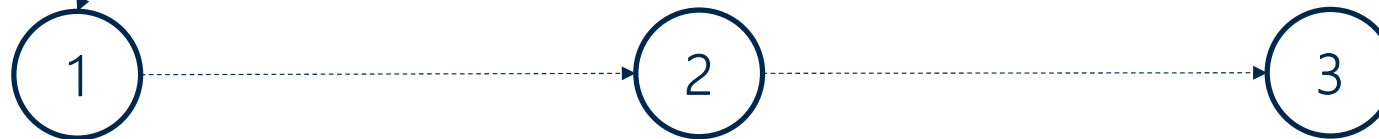


~50%
of Norwegian
electronic waste
is not recycled

Source: <https://www.statista.com/statistics/632830/e-waste-recycling-norway/>

Analysis

Customers ask three sequential questions when replacing their personal devices



What do I do with my device?

- Recycle
- Secondary User
- Landfill
- Forget

Why should I recycle?

- Environmental Impact
- Data Security
- Monetary Incentives

How do I recycle?

- Convenience and Accessibility
- User Experience

Analysis

Consumers stockpile devices because they aren't aware of recycling as an option

Increasing awareness of the existence and benefits of recycling programs will increase recycling rates.



Source: Sustainability (academic journal)

Analysis

Individuals concerned with data security aren't motivated to recycle

*A recycling process that is both **secure** and **perceived as secure** is needed to motivate people concerned with data security to recycle personal electronics.*



Analysis

If the personal costs of recycling are too high, consumers will not recycle

A convenient and simple recycling process that respects the time of consumers is required to get consumers to act.



Analysis

An effective plan for RedoIT will have three key components

1

Operations and logistics model must provide data security and convenience

Analysis

An effective plan for RedoIT will have three key components

1

Operations and logistics model must provide data security and convenience

2

Marketing initiatives must convey strength of data security practices and increase awareness of recycling programs

Analysis

An effective plan for RedoIT will have three key components

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Operations and logistics model must provide data security and convenience

2

Marketing initiatives must convey strength of data security practices and increase awareness of recycling programs

3

Pilot of logistics and marketing models must be scalable

Analysis

An effective plan for RedoIT will have three key components

1

Operations and logistics model must provide data security and convenience

2

Our plans should incorporate people in adapted work programs like WorkIT in accordance with the mission of RedoIT

3

Pilot of logistics and marketing models must be scalable

1

Recommendation 1

Logistics & Operations

Offer pre-paid shipping kits at Posten locations

Train data handlers to ISO standards

2

Recommendation 2

Marketing

Leverage partners

Advertise seasonally

Target key customers online

3

Recommendation 3

Pilot & Scale

Oslo pilot project

Expand to high-volume cities first

Train local WorkIT equivalents

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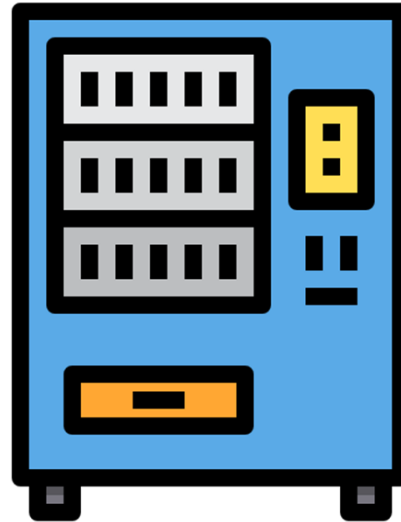
Recommendation 3

Pilot & Scale

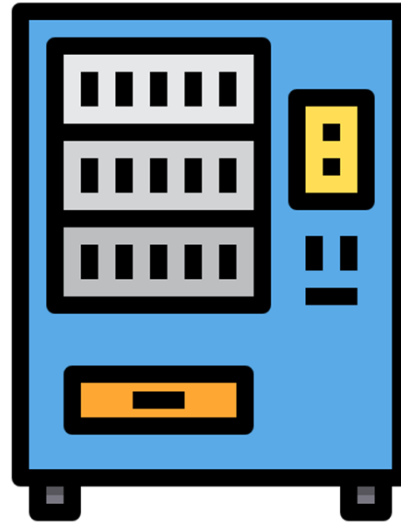
Oslo pilot project

Expand to high-volume cities first

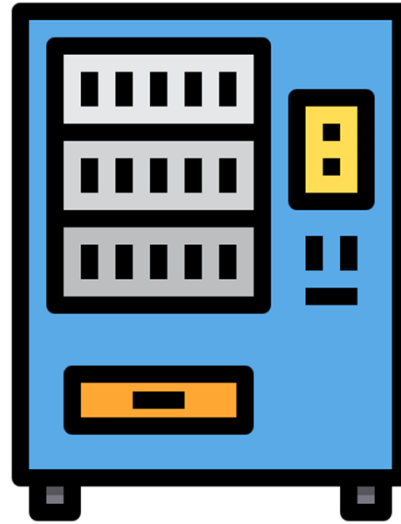
Train local WorkIT equivalents



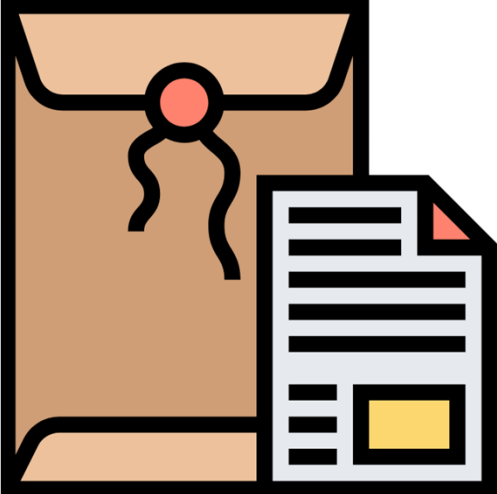
Norway currently recycles 97% of plastic bottles with the aid of TOMRA reverse vending machines and the Infitum scheme.



Why doesn't using a similar collection process work for a used personal electronic device?



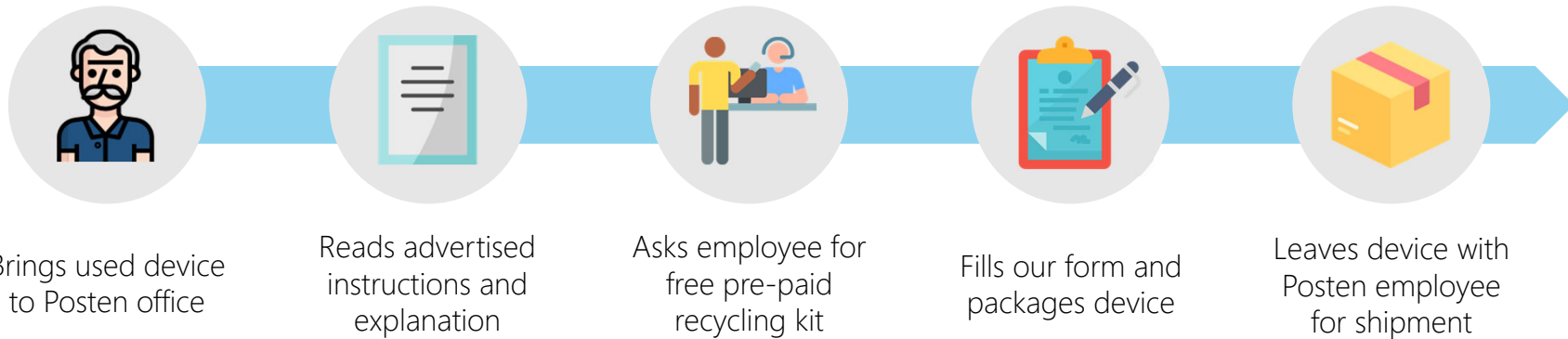
The key difference lies in the data.



Operational Plan

Utilizing the Posten network to collect improves convenience and trust

Customer Experience



Backend Logistics

Option 1: Device Shipment



Ship devices **directly to WorkIT facility** using Posten services either individually or in bulk

Option 2: Device Collection



Leverage current **box collection process** to pick up at PO boxes

Operational Plan

The Posten network is the most feasible and suitable collection system



Adequate security measures in place

Extensive network throughout all of Norway

Locations optimized for accessibility



Case Studies



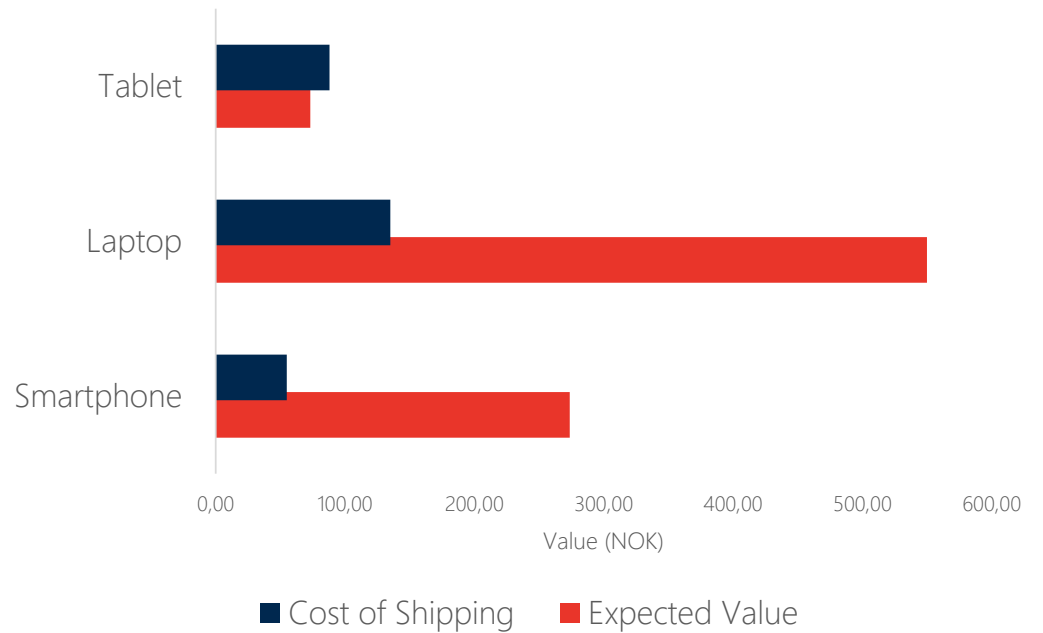
NESPRESSO®



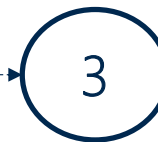
FRETEX

Financial Feasibility

Expected Value vs Shipping Cost



Posten significantly improves the customer journey



What do I do with my device?

- Recycle
- Secondary User
- Landfill
- Forget

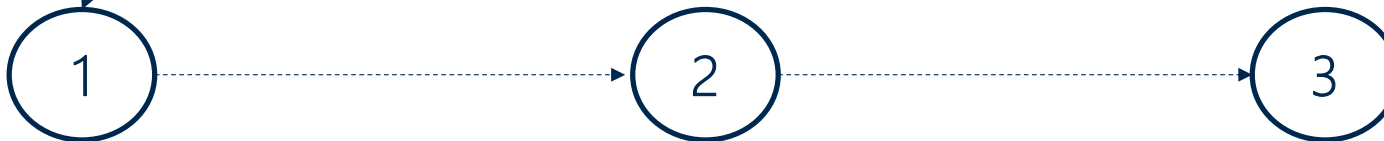
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- Environmental Impact
- Data Security
- Monetary Incentives

How do I recycle?

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- User Experience

Posten significantly improves the customer journey



What do I do with my device?

Posten raises **awareness** for RedoIT at a familiar and relevant location.

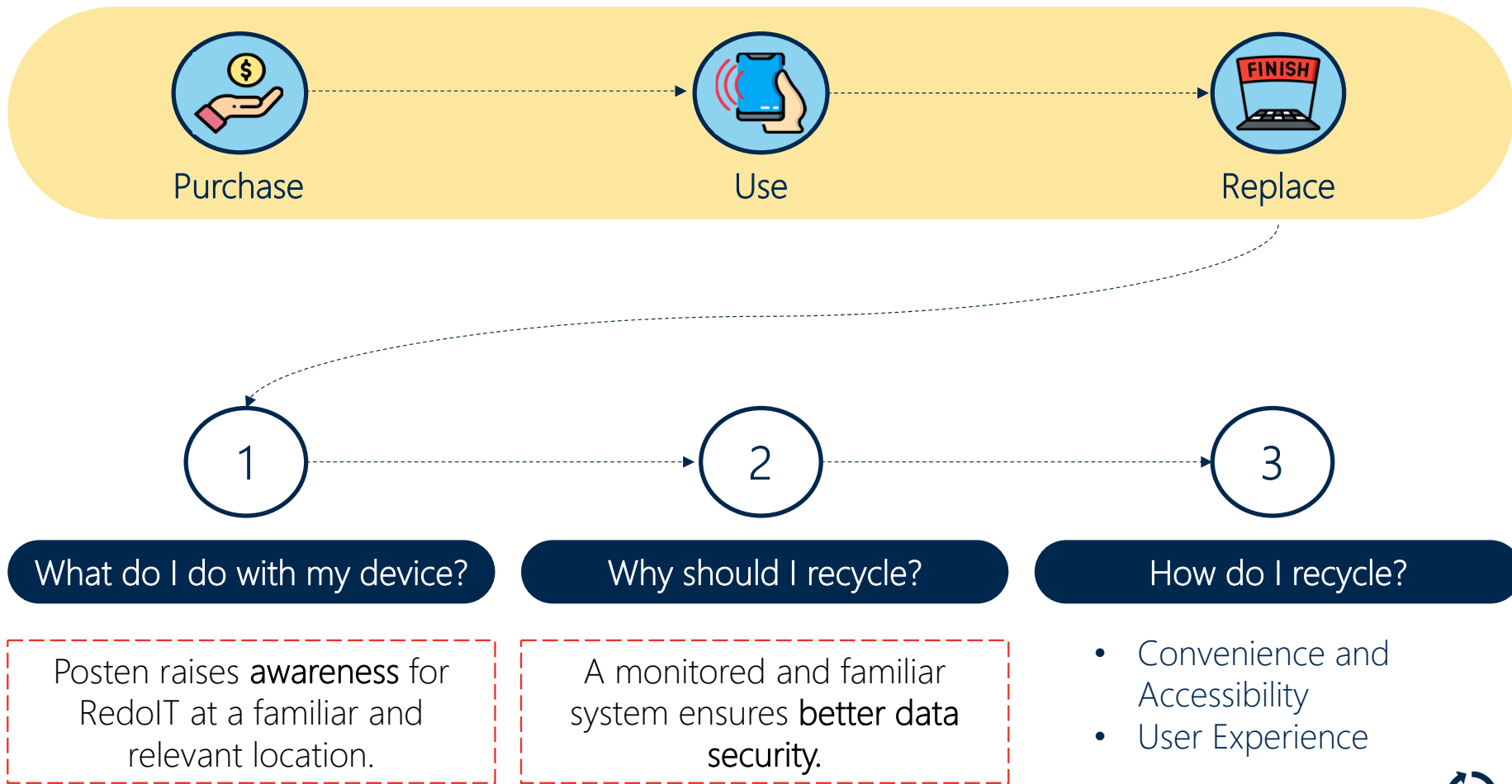
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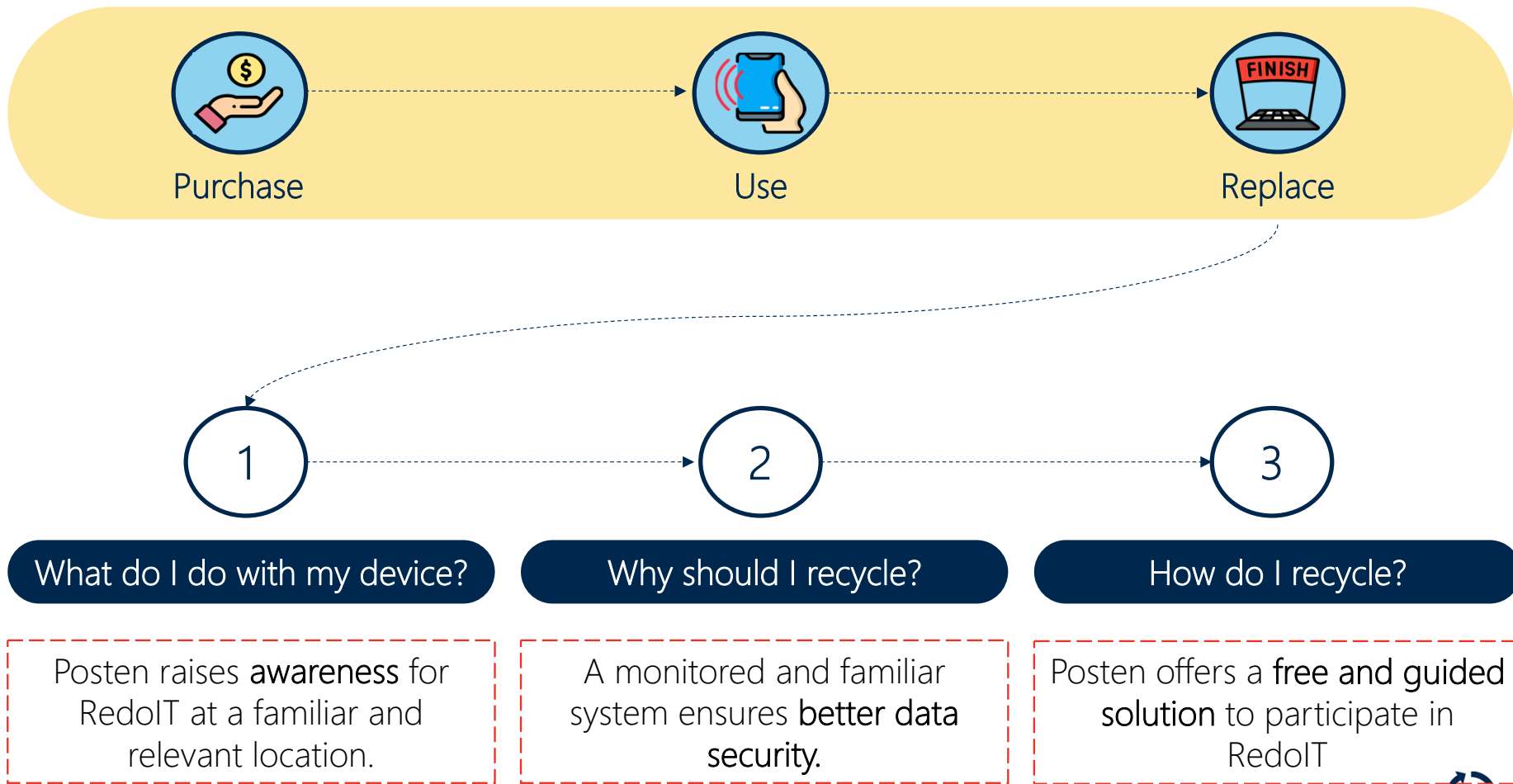
How do I recycle?

- Convenience and Accessibility
- User Experience

Posten significantly improves the customer journey



Posten significantly improves the customer journey



Operations Plan

Safety of data practices can be ensured through 3rd party compliance

To signal data security and trustworthiness to privacy-conscious consumers, RedoIT will obtain internationally recognized, third party certifications for data erasure and environmental considerations

International and Norwegian Standards



ISO 9001
Data Erasure



ISO 14001
Environmental
Considerations



ISO 27001
Information System
Security



Compliance with NSM

1

Recommendation 1

Logistics & Operations

Offer pre-paid shipping kits at Posten locations

Train data handlers to ISO standards

2

Recommendation 2

Marketing

Leverage partners

Advertise seasonally

Target key customers online

3

Recommendation 3

Pilot & Scale

Oslo pilot project

Expand to high-volume cities first

Train local WorkIT equivalents

RedolT's marketing strategy is optimized by leveraging 3 key elements



Seasonality

Occasions related to used device recycling do not arise frequently – **key seasons** are crucial for raising awareness of RedolT while it's **top of mind** of consumers



Partnerships

Capitalize on RENAS' existing relationships with 3000+ companies to **coordinate marketing efforts** with key consumer technology suppliers



Targeted Communications

Leverage social media marketing to target **specific consumer groups** and build **scalable** promotion strategy

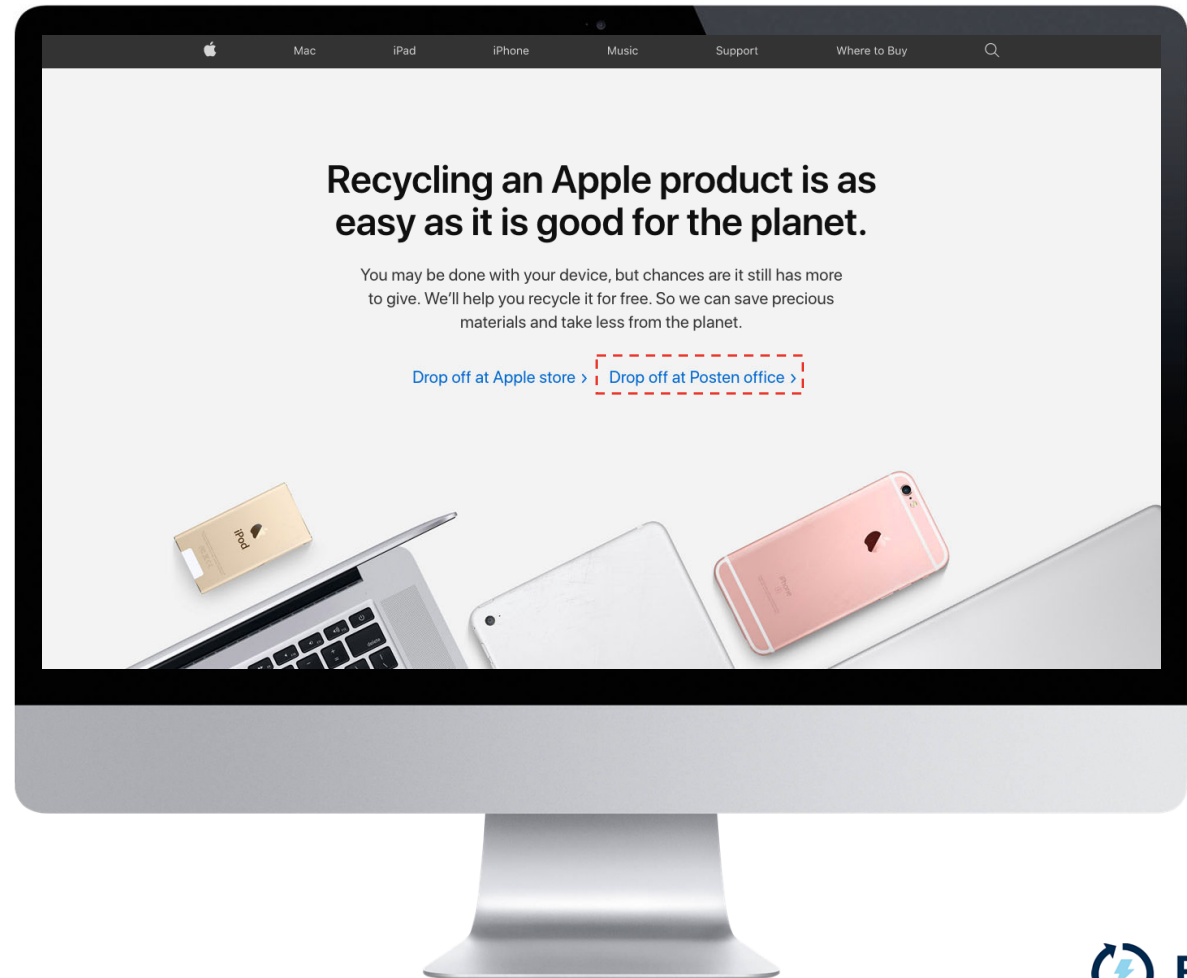
Marketing Plan

Partnerships with device sellers will allow RedolT to capture the “Forgetful” market



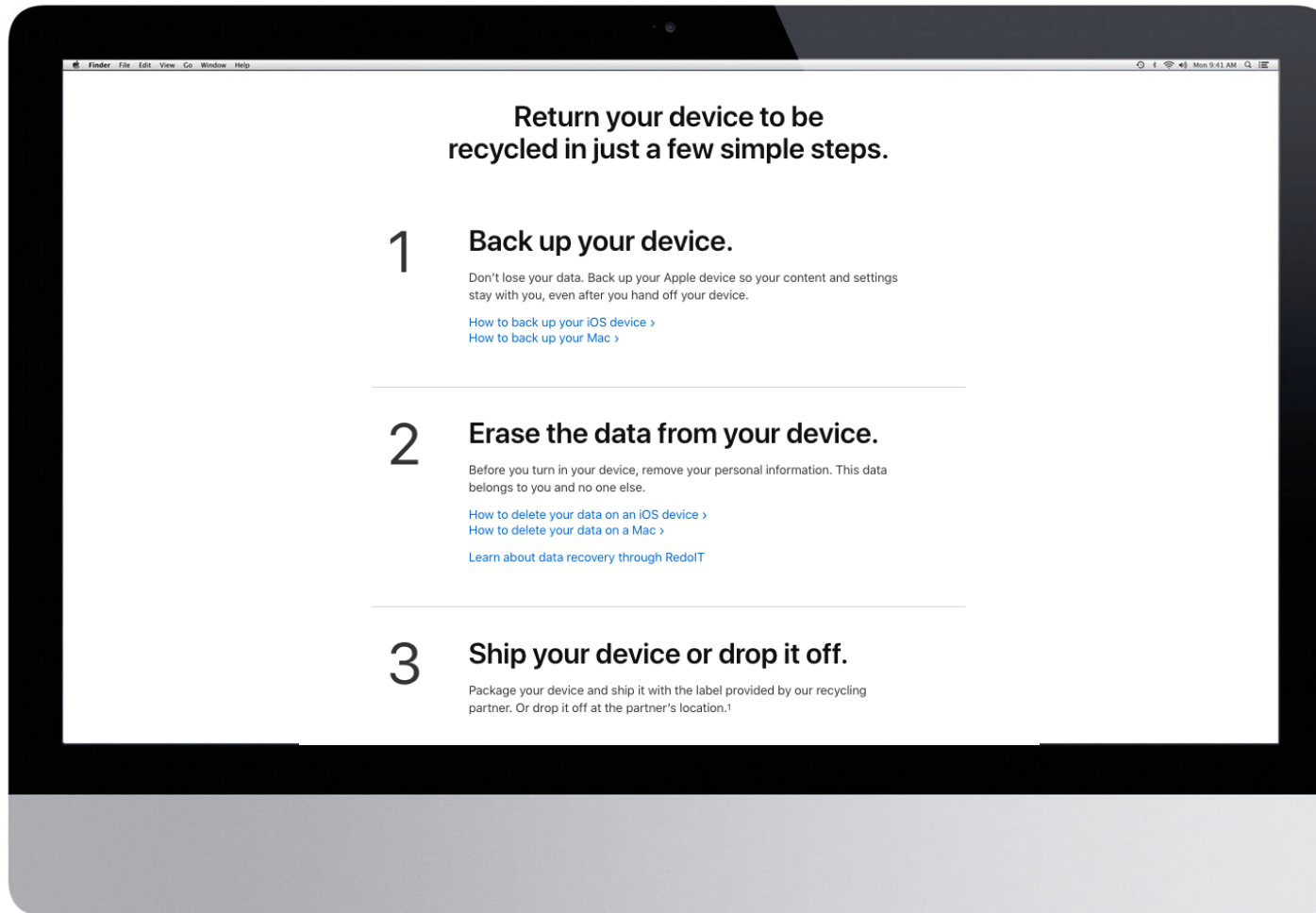
Seasonality and Partnerships

Coordinate marketing efforts concentrated at new device purchase points to build on recycling momentum.



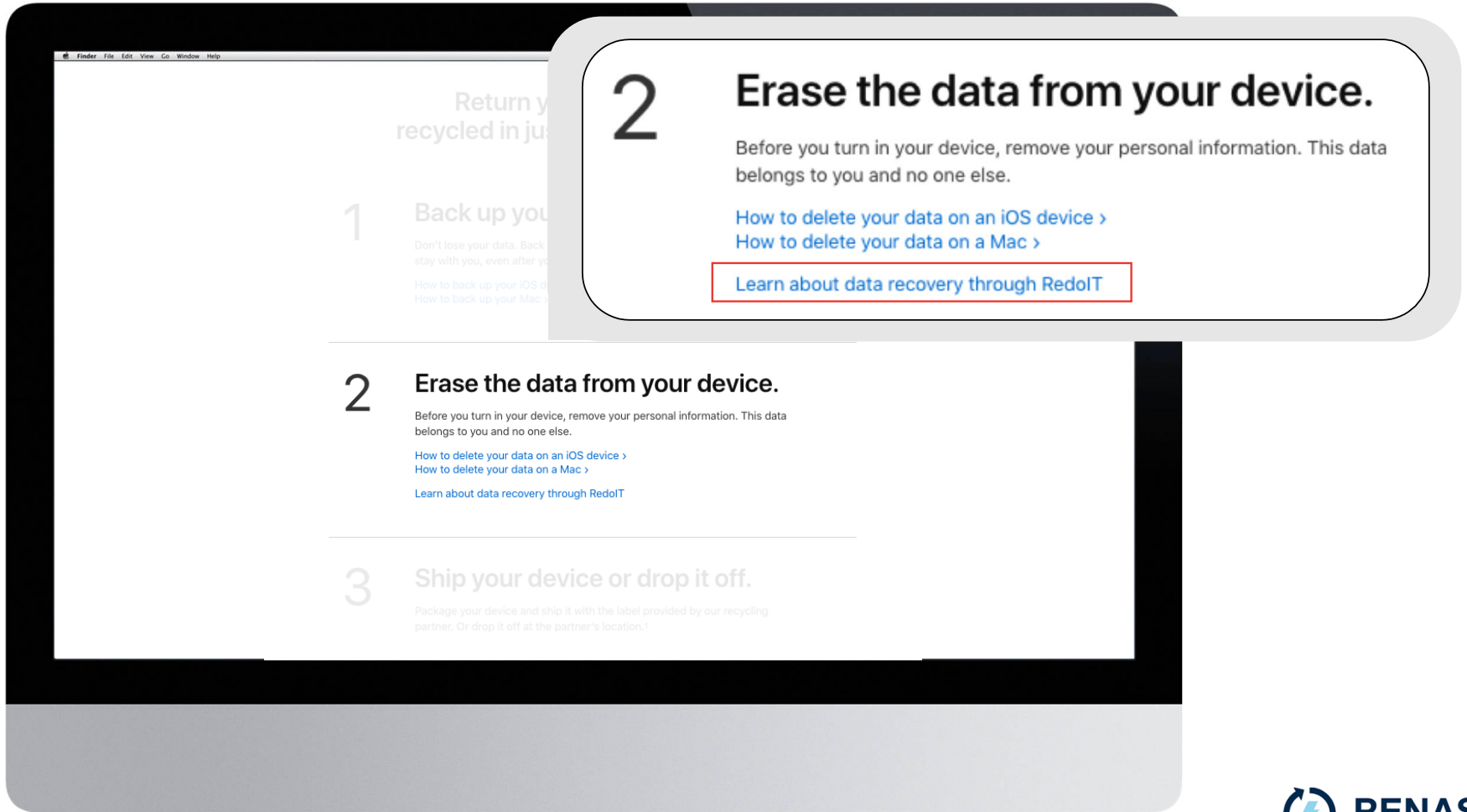
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For the Data Worriers



Partnerships with device sellers will Allow RedoIT to capture the “Forgetful” Market

For the Data Worriers



Marketing Plan

Seasonality factors increase the effectiveness of targeted Facebook advertisements



Seasonality and Targeted Communications

Advertise the RedoIT program during Christmas gift ordering and exchange period and benefit from high retail centre and post office visits

A screenshot of a Facebook post from the page 'Posten' (@PostenNO). The post is dated December 1 at 8:17 AM and has 54,000 followers. The text of the post reads: 'Treating yourself or a loved one to a new electronic device this Holiday Season? ✨ Consider bringing your pre-loved devices to a Posten office to recycle through the RedoIT program. See Translation'. Below the text is a large blue graphic with the text 'On the first day of Christmas, my true love gave to me, 4 precious metals from a recycled phone' and an illustration of a broken smartphone. The post has 19 likes and 5 shares. The right sidebar shows page information: 'About' (22 03 00 00, typically replies within a few hours, www.posten.no, Post Office - Product/Service), 'Page Transparency' (Facebook is showing information to help you better understand the purpose of a Page), and 'Pages Liked by This Page' (Håndballgutta, Sbanken, Kreftsjekken). The bottom of the page shows language options: English (US), Norsk (bokmål), Norsk (nynorsk), Español, and Português (Brasil).

Marketing Plan

Partnerships with online resale platforms will allow RedoIT to capture the “Unaware” Market



Partnership:
Resale Market

An opportunity lies in the number of **unsold devices** on secondary buy and sell markets

FINN Mulighetenes marked

notifications + New ad Notifications sign in

Square

Save search

Show on map

Sort by 8 108 hits
Oldest first

Search the square
apple

Category

< All categories

Electronics and appliances

- Data (1 686)
- Photo and video (26)
- Home Appliances (0)
- Appliances (0)
- Audio & Video (427)
- Games and consoles (7)
- Phones & Accessories (5,868)
- Other (94)

Brand

- Apple (5,310)
- Huawei (6)
- Motorola (3)
- Samsung (7)
- Sony (1)
- Other (15)

Close by

Søk etter adresse eller sted

3 500 kr
Betalt plassering
Oslo
64 GB iPhone 8 Plus selges.

9 500 kr
27. sep 2019 Nesttun
NY IPHONE XS MAX

3 990 kr
8. des 2019 Henefoss
iPhone 7 Plus 256GB SOLGT!
Bruktmobil.com

5 990 kr
10. des 2019 Oslo
iPhone XR 64gb Pent Brukt fra Forhandler. 1 År Garanti, Innbytte Mulighet
MOBILXPRESS

2 247 kr
10. des 2019 Rådal
Apple Watch Series 3 42 mm (sort sportsreim)
Elkjøp giganten Fana

12 500 kr
11. des 2019 Lillestrøm
IPHONE 11 PRO 64GB GREEN PÅ LAGER (INNBYTTE MULIG)
Singh Electronics

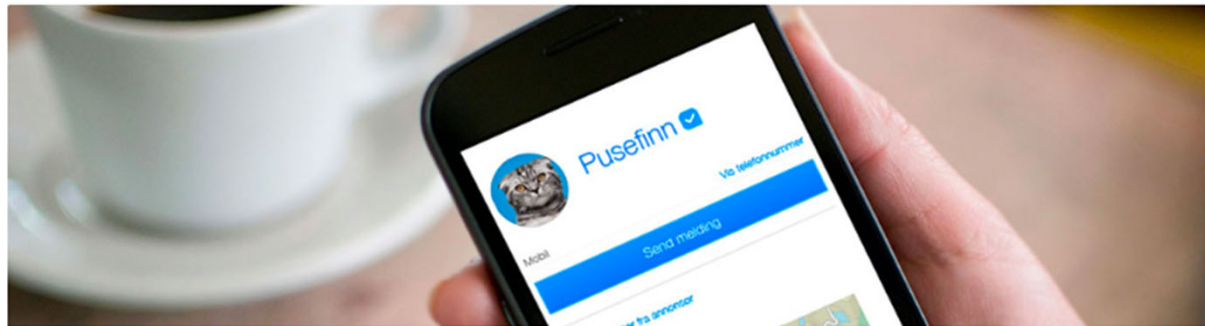
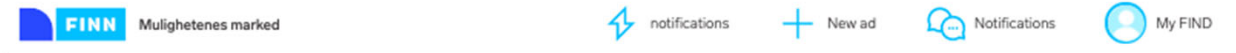
Marketing Plan

Partnerships with online resale platforms will allow RedoIT to capture the “Unaware” Market



Partnership:
Resale Market

Users with products that have remained unsold for a long time can be targeted to consider RedoIT as an appealing option



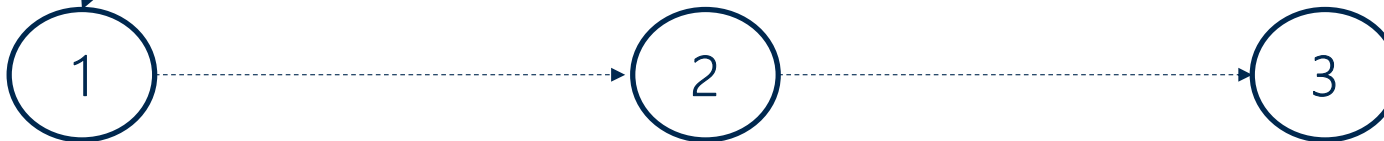
Looks like your device has not sold in the past 2 months.

Consider recycling your device to give it a second chance at life.



[Learn more about RedoIT](#)

The 3 Key Pillars significantly improve the customer journey



What do I do with my device?

- Recycle
- Secondary User
- Landfill
- Forget

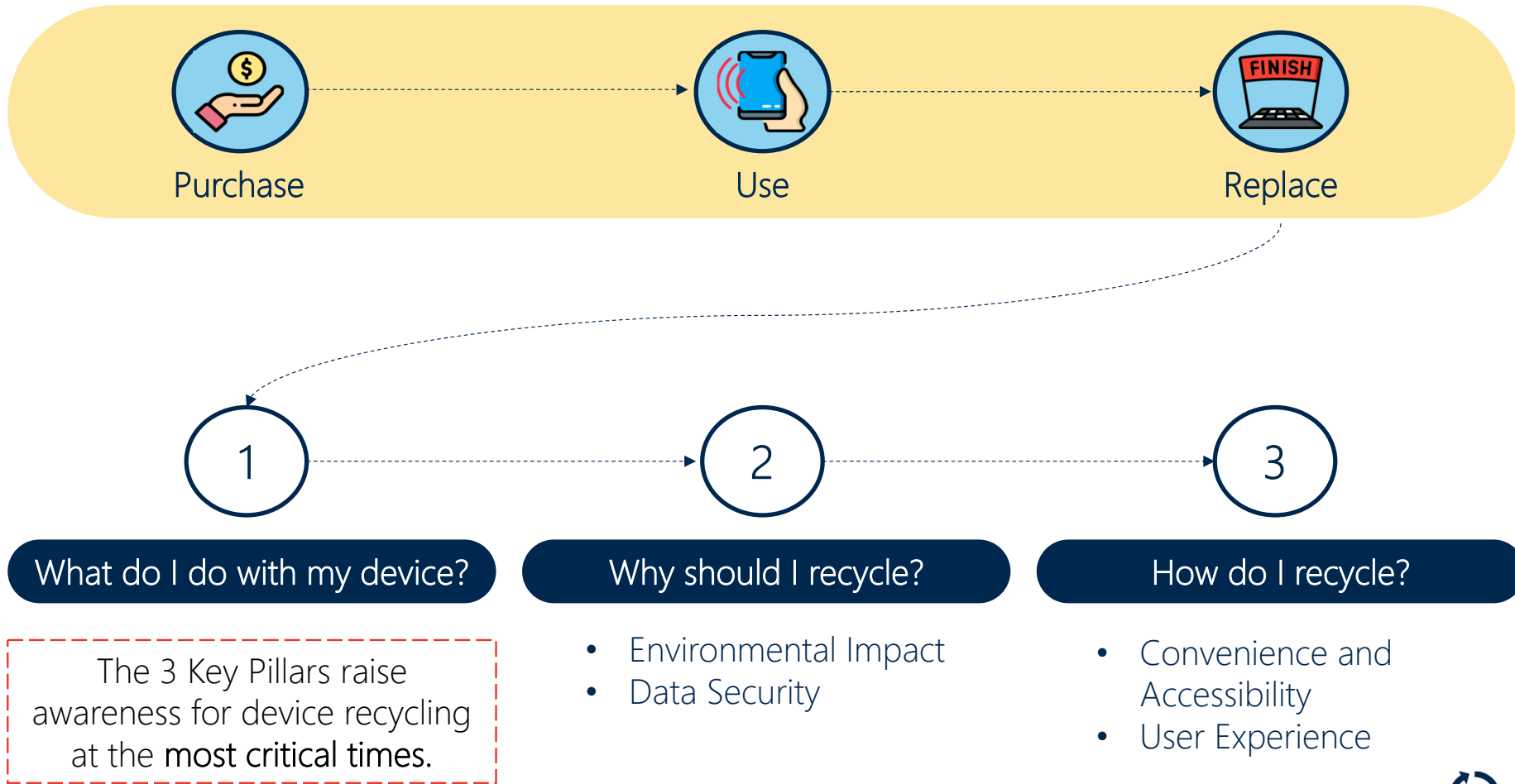
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The 3 Key Pillars significantly improve the customer journey



Expansion of business plan depends on key success metrics for pilot

Key Performance Indicators



Improved
consumer data



Growth in
recycling rates



New channel
profitability



Acquisition of
new unique
customers

1

Recommendation 1

Logistics & Operations

Offer pre-paid shipping kits at Posten locations

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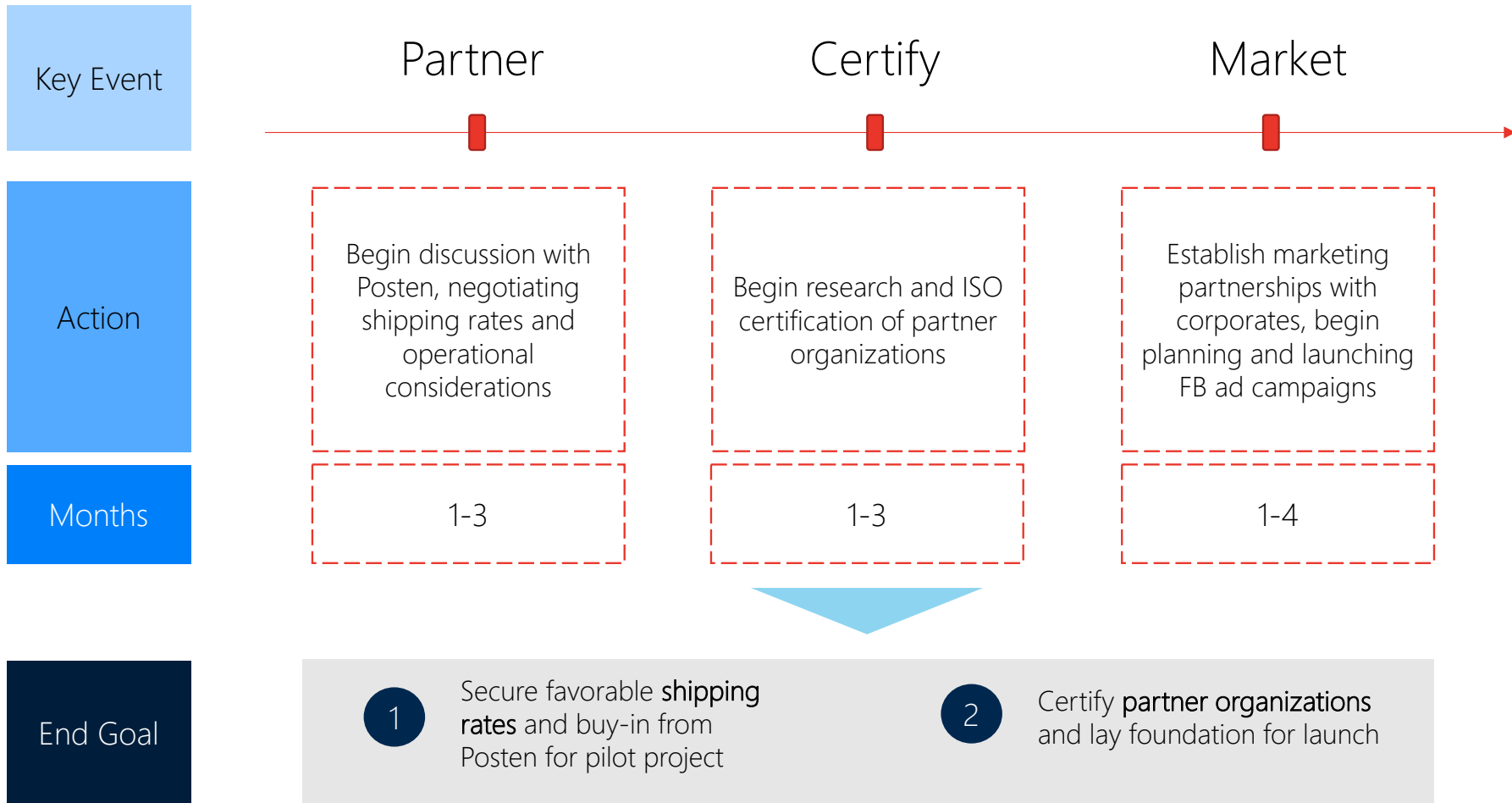
Oslo pilot project

Expand to high-volume cities first

Train local WorkIT equivalents

Expansion Plan

Implementation timeline, what do the next 6 months look like?



Expansion Plan

Expansion within Norway will be made by targeting cities based on population

Norwegian Cities by Population Density

Oslo

Timeline

Year 1: 1 City



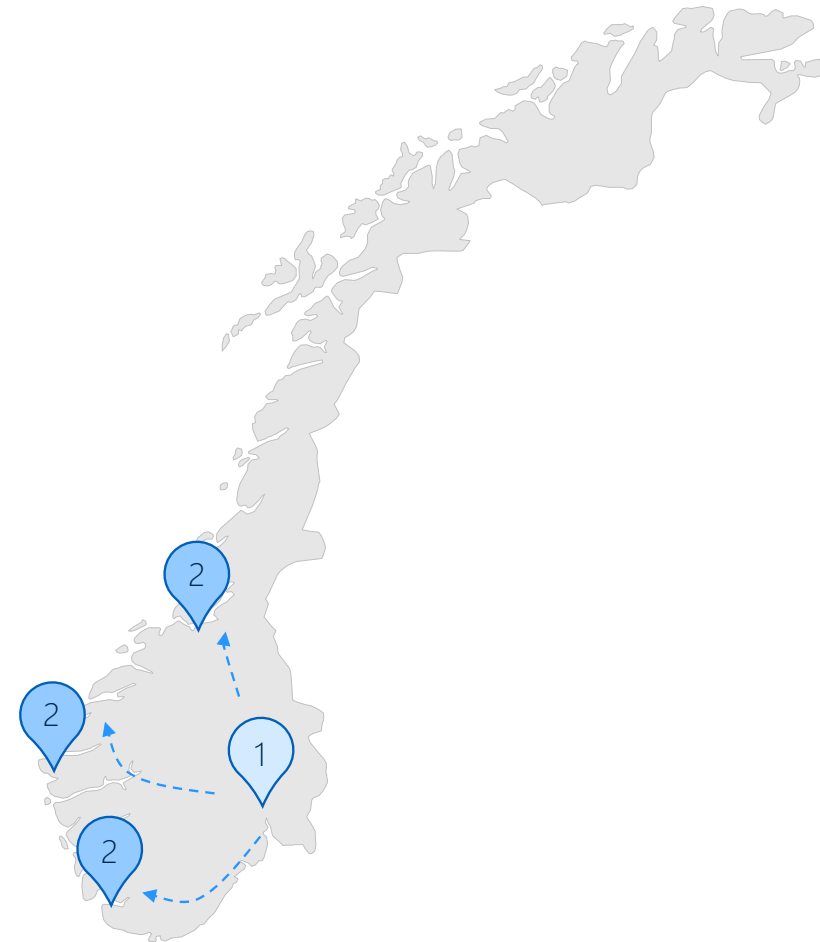
Expansion Plan

Expansion within Norway will be made by targeting cities based on population

Norwegian Cities by Population Density
Oslo
Bergen
Trondheim
Stavanger



Timeline
Year 1: 1 City
Year 2: 3 Cities



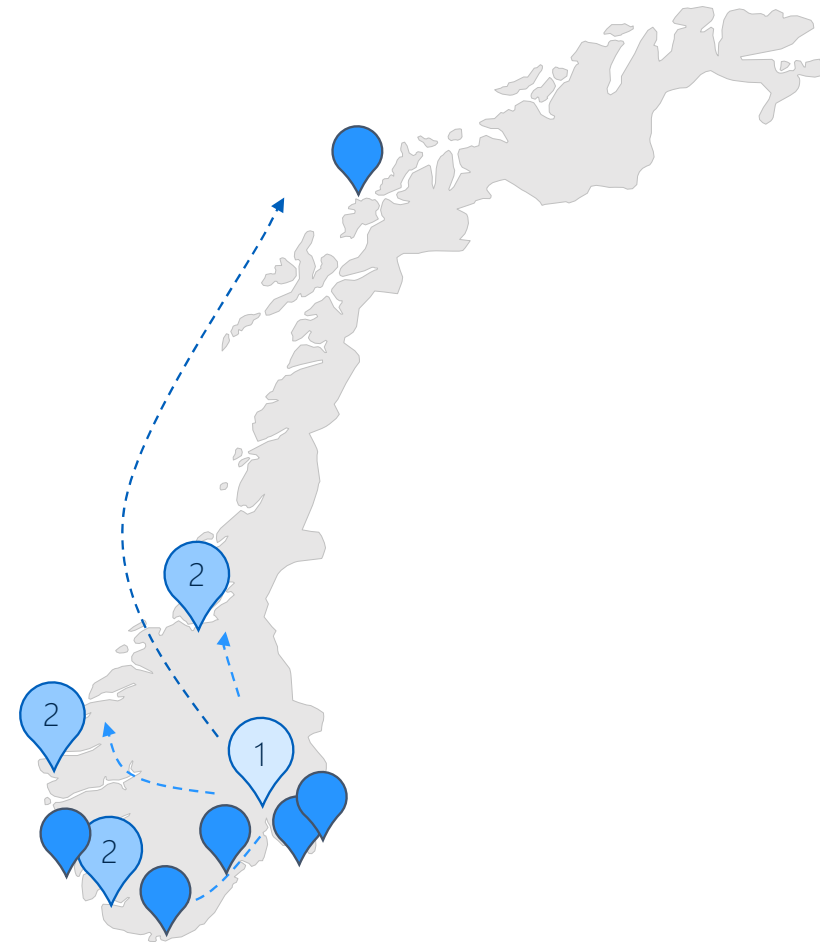
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Norwegian Cities by Population Density	
Oslo	
Bergen	
Trondheim	
Stavanger	
Drammen	Sandnes
Fredrikstad	Tromsø
Kristiansand	Sarpsborg



Timeline
Year 1: 1 City
Year 2: 3 Cities
Year 3: 6 Cities



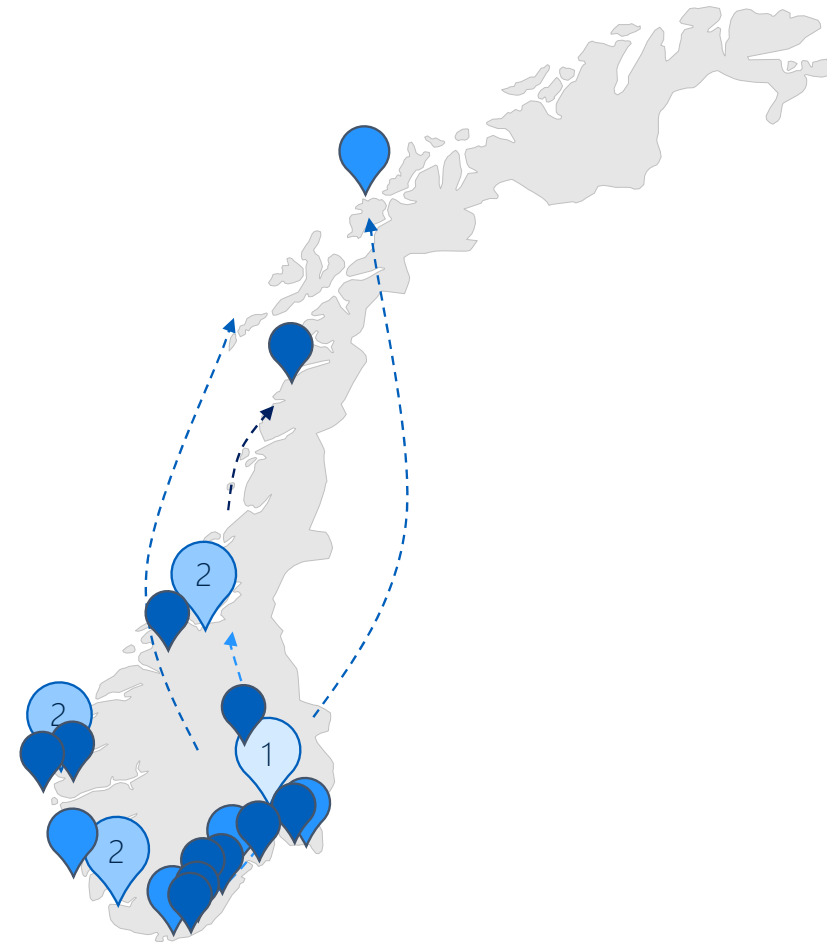
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Fredrikstad		Tromsø	
Kristiansand		Sarpsborg	
Skien	Haugesund	Porsgrunn	Hamar
Ålesund	Tønsberg	Bodø	Ytrebygda
Sandefjord	Moss	Arendal	Larvik

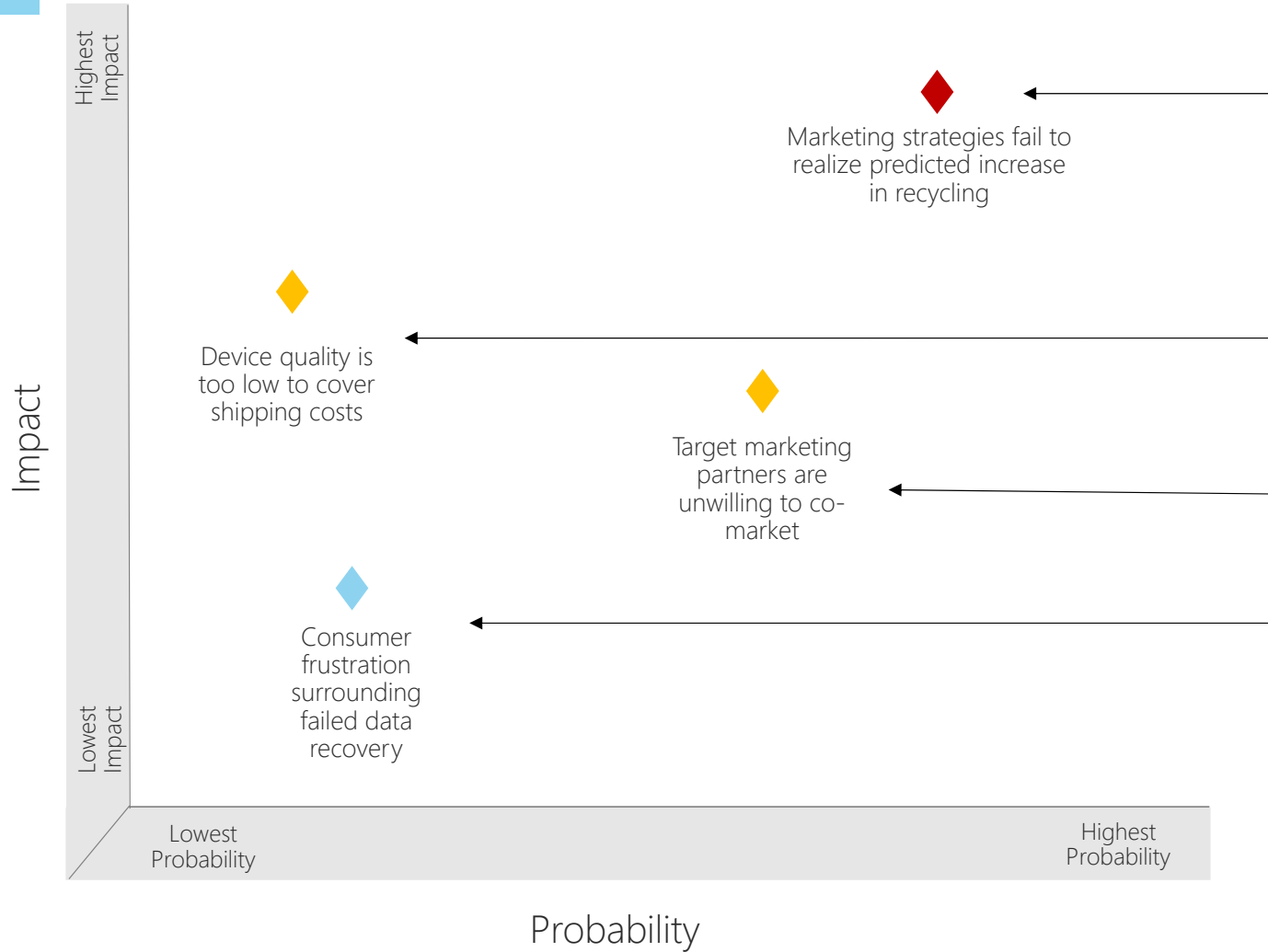


Timeline
Year 1: 1 City
Year 2: 3 Cities
Year 3: 6 Cities
Year 4: 12 Cities



Expansion Plan

Risks and mitigation for RedoIT business plan



Use **consumer data** to better inform future spend and adapt marketing spend

Delay expansion until improved strategies can be identified and tested

Negotiate low shipping costs

Increase selectivity of device to optimize for most profitable types and models

Strategic targeting of sustainability oriented stakeholders in corporate ESG roles

Inform customers of the risk that not all data can be successfully recovered and returned

Refer customers that are particularly concerned for data return and recovery to a partner organization

What is the environmental, social, and financial impact that we will have?

Cumulative Impact Year 3

Devices Diverted from Landfill



95000

Employment Created

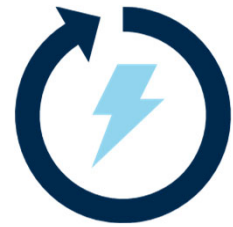


*20000+
hours*

Profit



*1,21 Million
NOK*



RENAS

A scalable business model to recycle more personal electronics

1

Logistics & Operations

Offer pre-paid shipping kits
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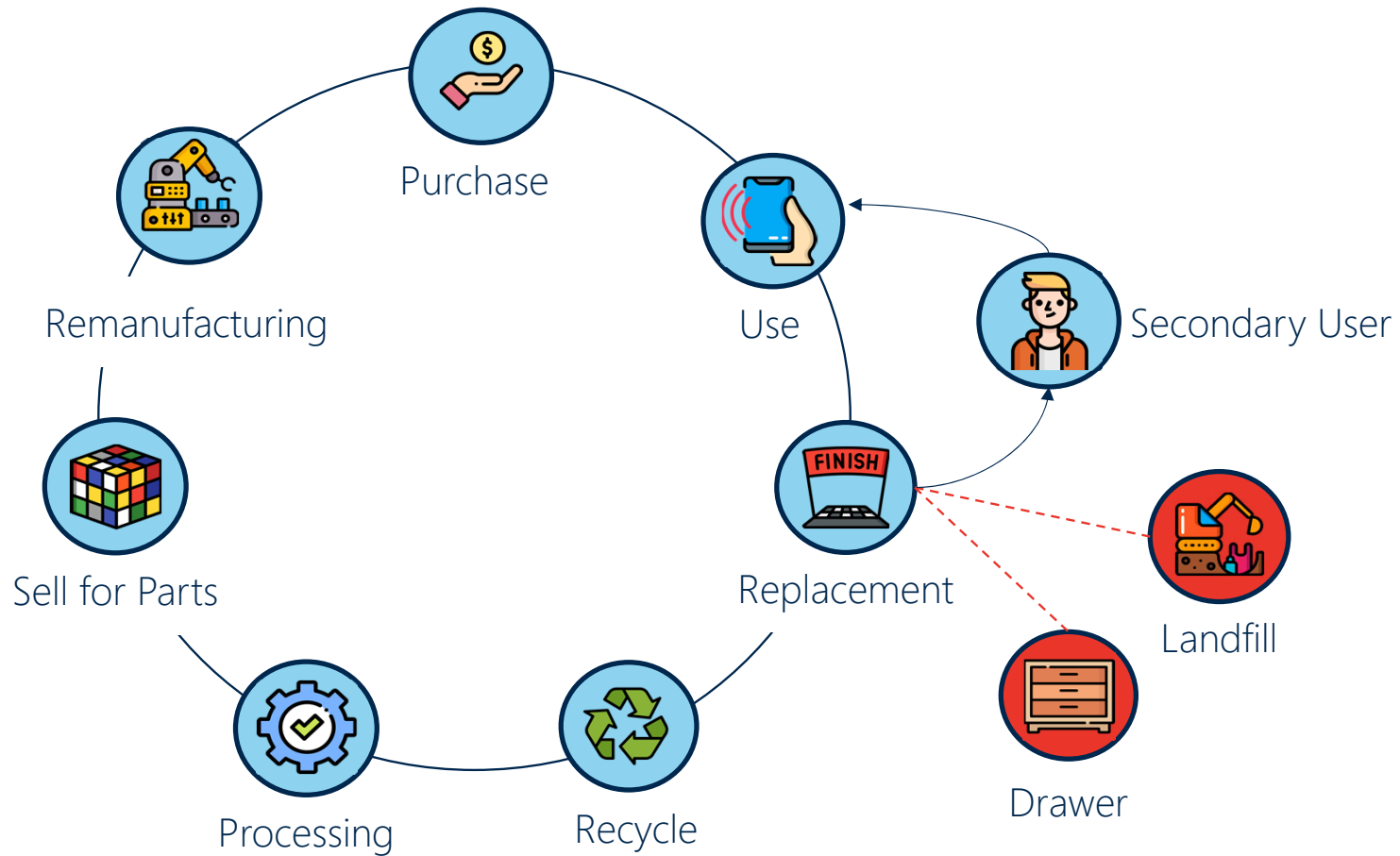
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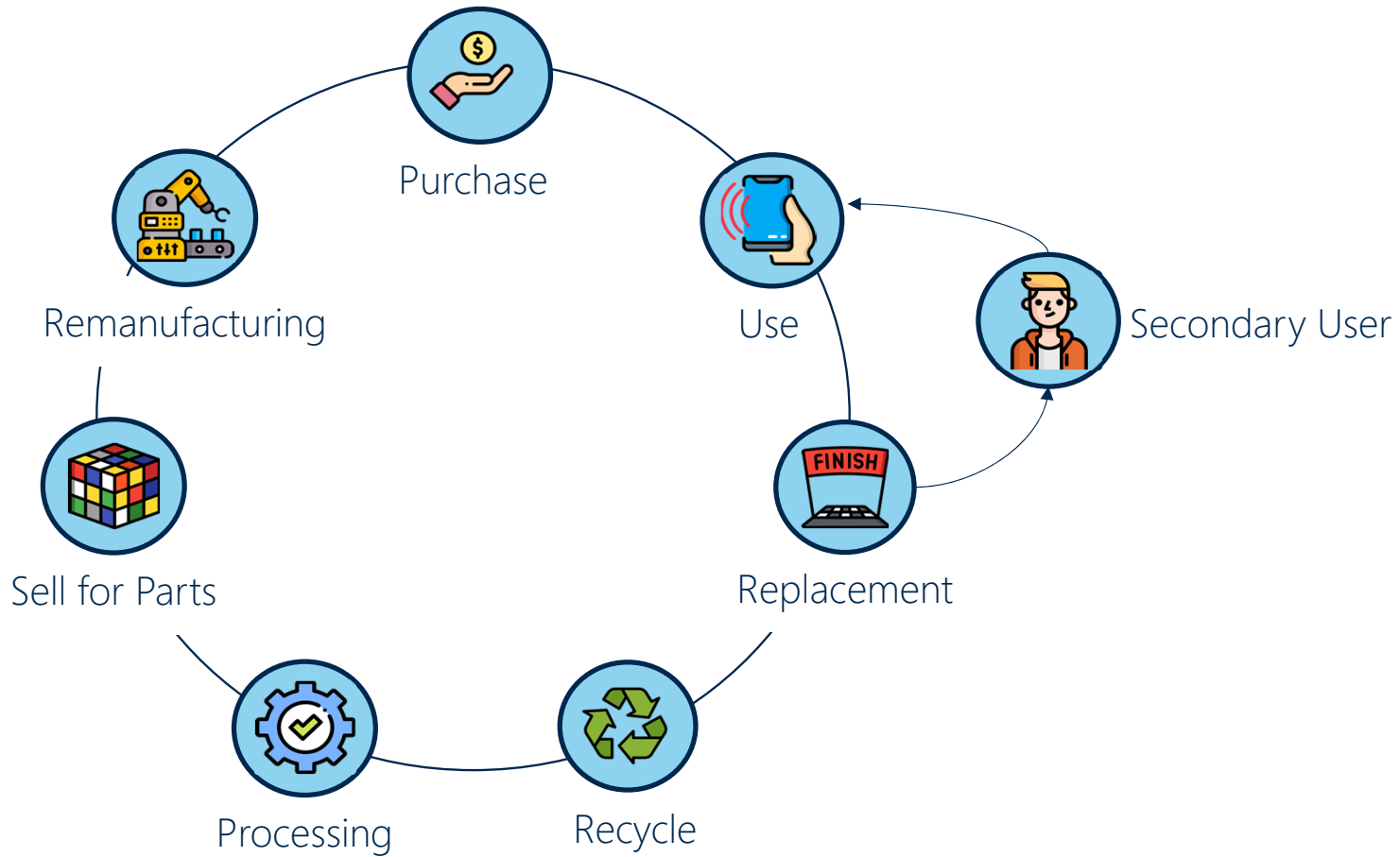
Conclusion

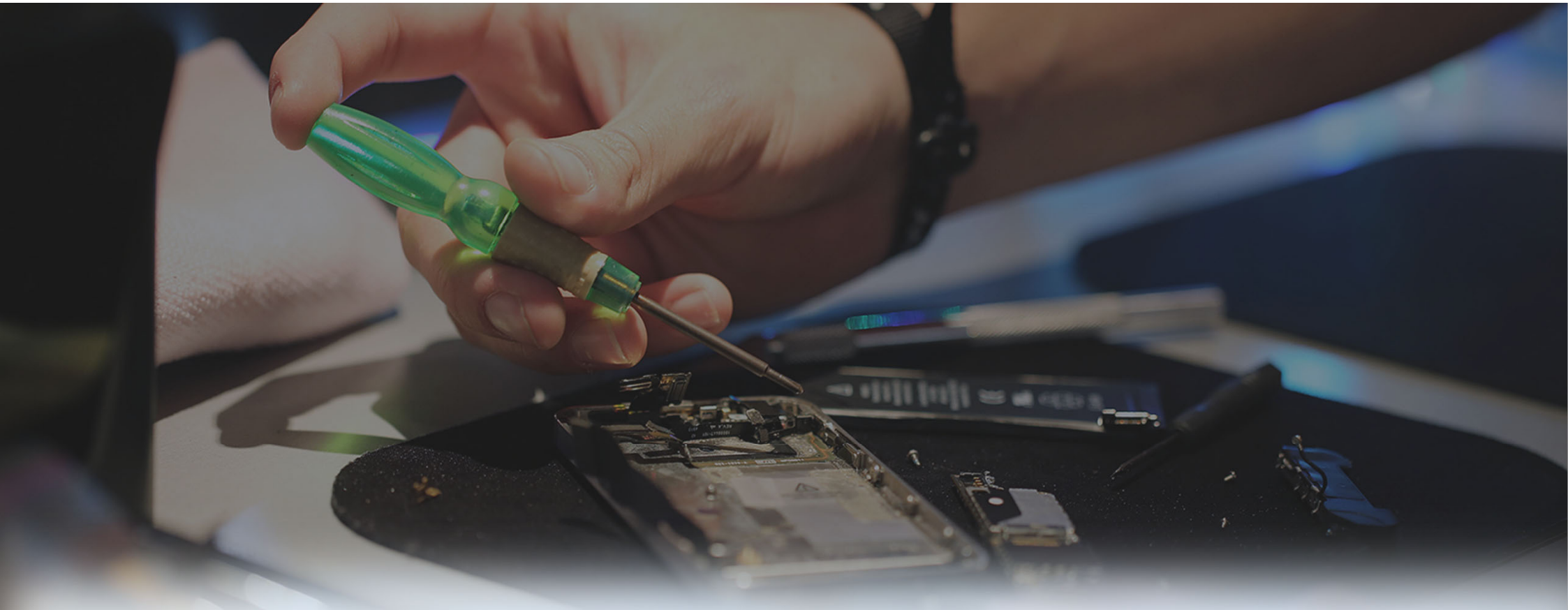
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Conclusion

RENAS has established the infrastructure needed to facilitate a circular economy





RENAS

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Appendix

Main Deck

Analysis

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[Customers ask three sequential questions when replacing their personal devices](#)

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Operational Plan

[Utilizing the Posten network to collect improves convenience and trust](#)
[The Posten network is the most feasible and suitable collection system](#)
[Posten significantly improves the customer journey](#)
[Safety of data practices can be ensured through 3rd party compliance](#)

Marketing Plan

[RedoIT's marketing strategy is optimized by leveraging 3 key elements](#)
[Partnerships with device sellers will allow RedoIT to capture the "Forgetful" market](#)
[Seasonality factors increase the effectiveness of targeted Facebook advertisements](#)
[Partnerships with online resale platforms will allow RedoIT to capture the "Unaware" Market](#)

[Expansion of business plan depends on key success metrics for pilot](#)

Pilot and Expansion

[Implementation timeline, what do the next 6 months look like?](#)
[Expansion within Norway will be made by targeting cities based on population](#)

Quantitative Impact and Risks

[Risks and mitigation for RedoIT business plan](#)
[What is the environmental, social, and financial impact that we will have?](#)

Appendix

Operational Plan

[Examining the Fretex and Nespresso partnerships in greater detail](#)
[Posten offices comfortably reach the majority of Norwegians](#)
[Why is Posten highly likely to support the proposed RedoIT partnership?](#)
[Contents of Posten pre-paid shipping packages for personal electronics](#)
[Alternative Considered: Increasing Security of Existing Drop-off Boxes](#)
[When do trucks become unviable for low value waste products?](#)
[Understanding the viability and scalability of the Posten model](#)
[Data deletion and return process fulfilled by WorkIT and equivalent organizations](#)

[Secure Data Erasure Compliance and Trust Building](#)

Marketing Plan



[Customer Profile for Facebook Advertisements](#)
[Potential Companies for Co-Marketing Partnership](#)

Quantitative Impact

[Implementation budget and assumptions for financials](#)
[Cost and revenue drivers with underlying rationale](#)
[Expected value breakdown for used devices](#)
[Advantage of working with adaptive work programs](#)

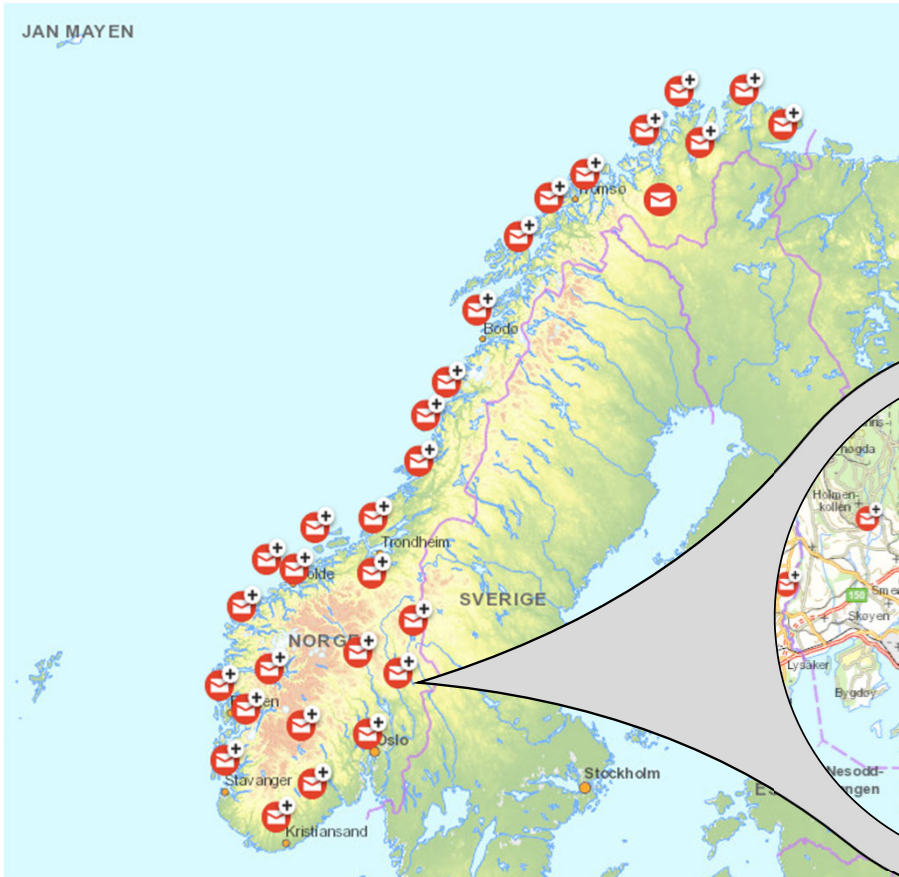


Examining the Fretex and Nespresso partnerships in greater detail

		 FRETEX
Role of Posten	Customer handler accepts bags offered by Nespresso and ships to Oslo for recycling	Offers free bags and discounted shipment promotion
Benefit of Customer	Convenience in participating in meaningful aluminum recycling	Significantly discounted shipping rate and convenience of donation (NOK 50 for 8kg bag)

Appendix

Posten offices comfortably reach the majority of Norwegians

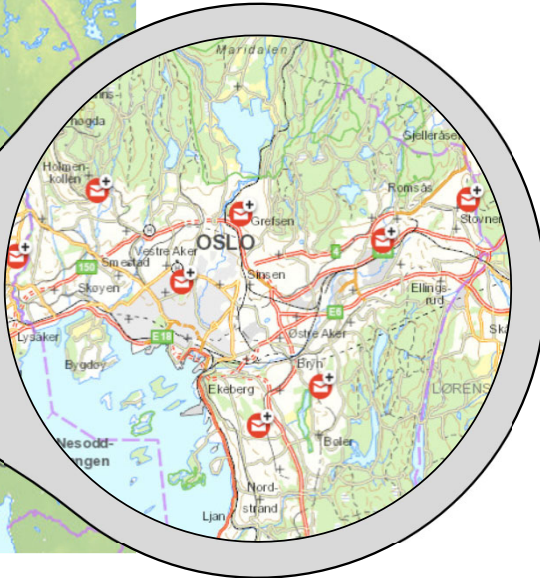


Number of Posten Offices in Norway

30

Number of Retail Outlets in Norway

1,400



One third of Posten offices are in Oslo and offices in retail outlets are densely concentrated

Sources: [https://snl.no/Posten Norge AS](https://snl.no/Posten_Norge_AS), <https://www.posten.no/en/map>



Why is Posten highly likely to support the proposed RedoIT partnership?

Increased Revenues

Pre-paid packages will serve as an **incremental revenue** source

Retail outlets containing Posten branches will experience **increased foot traffic**

Limited Operations Impact

Training of Posten staff isn't **absolutely necessary**

Packaging material needed for mailing goods is **already stocked** at post offices

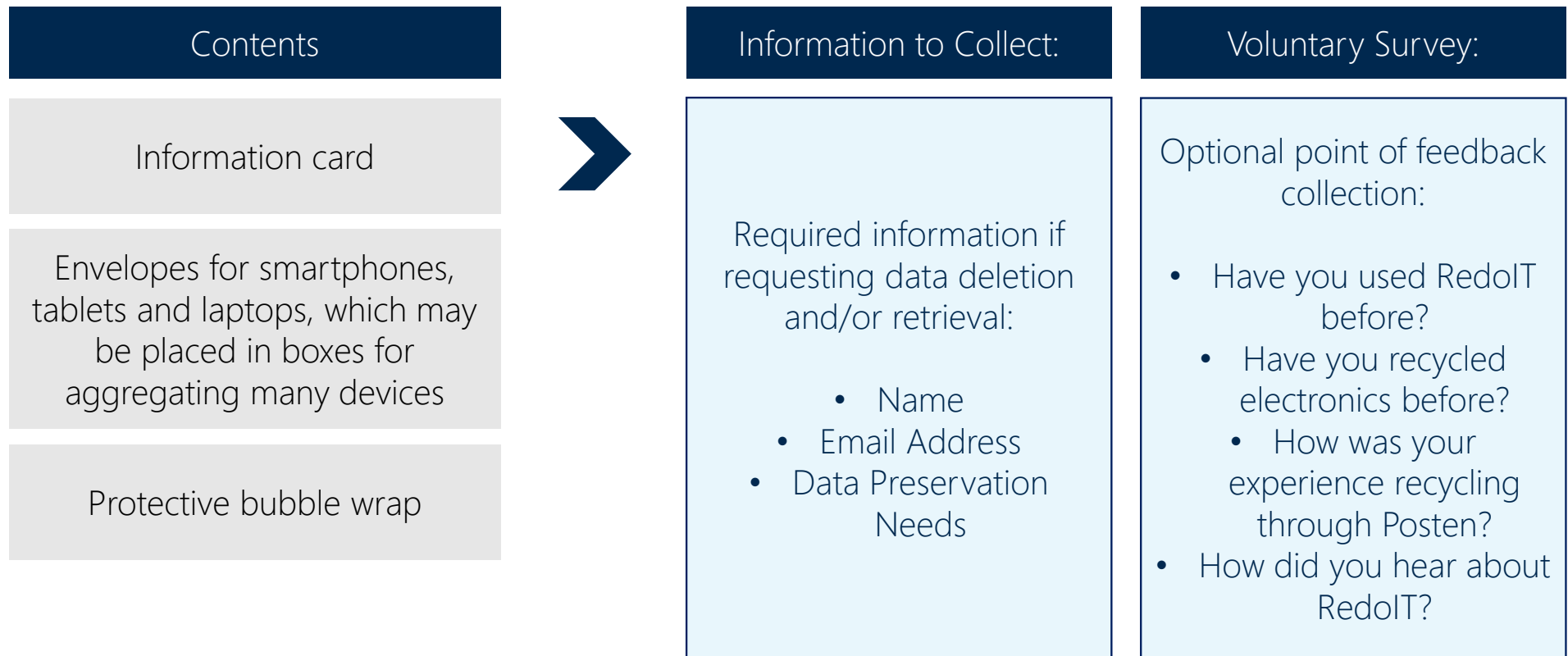
Prior Causes Supported

Collection of clothes for **Fretex** and recyclable **Nespresso** pods have been performed by Posten for years

RedoIT is a **non-profit**



Contents of Posten pre-paid shipping packages for personal electronics





Alternative Considered: Increasing Security of Existing Drop-off Boxes

1

Additional Costs

Adding security features to drop-off boxes would result in higher cost increases than leveraging Norge Posten's existing logistics and safe storage system

2

Need for meaningful alternative channel to resolve usage gap

Drop-off system is effective at capturing the existing 50% of the market – new solution must address important loopholes

3

Lower Scalability

The nature of Norge Posten's unique business model significantly reduces the difficulty associated with expanding to other parts of the country, making operations and learnings much more scalable



When do trucks become unviable for low value waste products?

When should you use a truck to collect lower value electronics at posten?	
Truck Annual Operation and Leasing Cost	943000
Device Expected Revenue	73
Devices Collected	<hr/> 12896

- Must expect to collect 12896 low value devices for pickup trucks to be viable after factoring wages and leasing costs.
- When scaling out operations, smaller cities should not implement physical and instead focus on postal operations.
- Assigning one truck per city creates unprofitability in the model when attempting to scale to lower density cities in year 3.

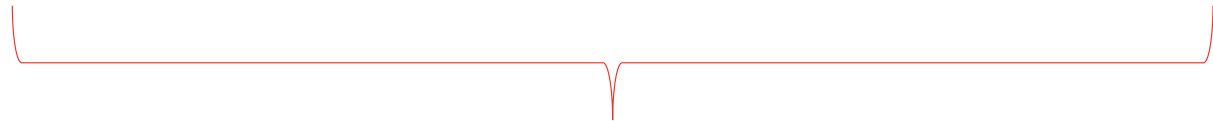
Trucks in high-density areas allow us to profitably reclaim low value to size and value to weight ratio goods, but are not viable in lower volume areas



Understanding the viability and scalability of the Posten model

Fundamental Formula

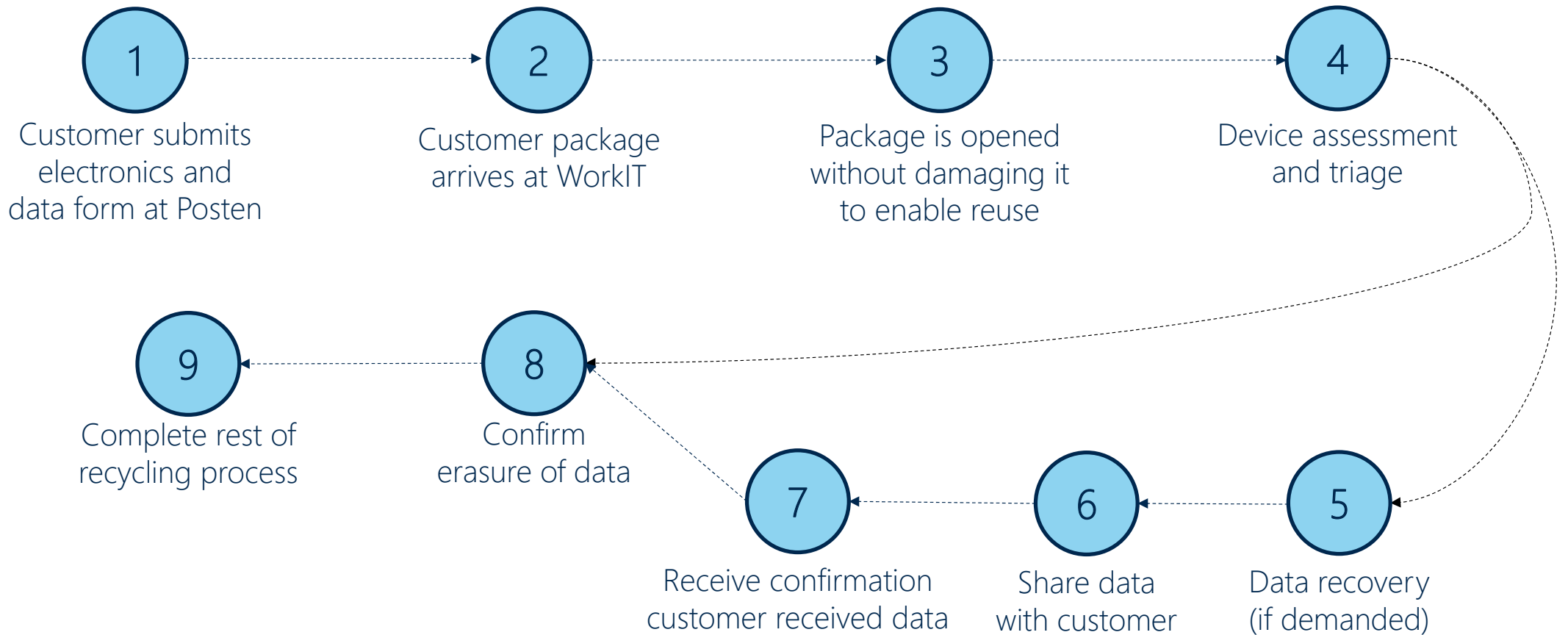
Cost of Shipping  Expected Value of Shipped E-Waste



Device Type	Device Model	Device Age
Resale Value	Component Value	Material/Scrap Value



Data deletion and return process fulfilled by WorkIT and equivalent organizations





Secure Data Erasure Compliance and Trust Building



ISO 9001 provides requirements for an organization's Quality Management System (QMS)

Since a QMS constantly improves and monitors all areas of the business, benefits include better efficiency, less waste, increased productivity, and improved customer acquisition and retention.



ISO 9001 provides requirements for an organization's Environment Management System (EMS)

An EMS helps companies identify, manage, and improve their environmental impact through more efficient use of resources and reduction of waste.



ISO 27001 specifications are for an information security management system (ISMS). An ISMS is a framework of policies and procedures that includes all legal, physical and technical controls involved in an organisation's information risk management processes.



NSM is a cross-sectoral professional and supervisory authority within the protective security services that approves products and services as being suitable for use.

Appendix

Customer Profile for Facebook Advertisements



Create Audience ✕

Select the location, age, gender and interests of people you want to reach with your ad.

Name

Gender ⓘ

All Men Women

Age ⓘ

18 - 65+

Locations ⓘ

Canada
📍 **Canada**
Add locations

Detailed Targeting ⓘ

Include people who match ⓘ

Add demographics, interests or behaviors | [Suggestions](#) | [Browse](#)

Gender, Age and Location will be set to the ideal portion of the population in Oslo

Customer Profile for Facebook Advertisements



Detailed Targeting ⓘ

Include people who match ⓘ

Add demographics, interests or behaviors | [Suggestions](#) | [Browse](#)

- Demographics ⓘ
 - Education
 - Financial
 - Life Events
 - Parents
 - Relationship
 - Work
- Interests ⓘ
- Behaviors ⓘ

[Exclude People](#)

Specific Demographic, Behaviour and Interest settings can be toggled to target specific audience groups





Customer Profile for Facebook Advertisements

Include people who match **i**

Add demographics, interests or behaviors | [Suggestions](#) | [Browse](#)

Uses a mobile device (1-3 months)	<input type="checkbox"/>
Uses a mobile device (10-12 months)	<input type="checkbox"/>
Uses a mobile device (13-18 months)	<input type="checkbox"/>
Uses a mobile device (19-24 months)	<input type="checkbox"/>
Uses a mobile device (25 months+)	<input type="checkbox"/>
Uses a mobile device (4-6 months)	<input type="checkbox"/>
Uses a mobile device (7-9 months)	<input type="checkbox"/>
Uses a mobile device (less than 1 month)	<input type="checkbox"/>

Exclude People

Include people who match **i**

Add demographics, interests or behaviors | [Suggestions](#) | [Browse](#)

Uses a mobile device (1-3 months)	<input type="checkbox"/>
Uses a mobile device (10-12 months)	<input type="checkbox"/>
Uses a mobile device (13-18 months)	<input type="checkbox"/>
Uses a mobile device (19-24 months)	<input type="checkbox"/>
Uses a mobile device (25 months+)	<input type="checkbox"/>
Uses a mobile device (4-6 months)	<input type="checkbox"/>
Uses a mobile device (7-9 months)	<input type="checkbox"/>
Uses a mobile device (less than 1 month)	<input type="checkbox"/>
Fashion accessories	<input type="checkbox"/>
Shopping	<input type="checkbox"/>
Boutiques	<input type="checkbox"/>
Coupons	<input type="checkbox"/>
Discount stores	<input type="checkbox"/>
Luxury goods	<input type="checkbox"/>
Online shopping	<input type="checkbox"/>
Shopping malls	<input type="checkbox"/>

Exclude People

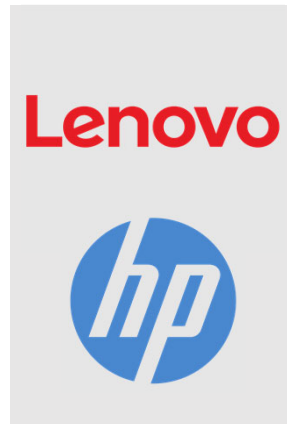
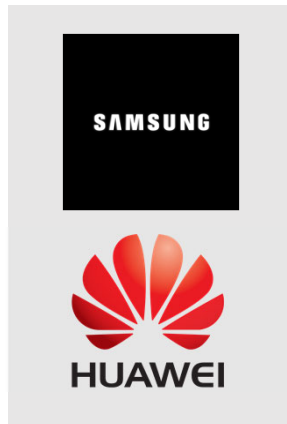
People with low mobile device use time (less than 1 month to 6 months) and high use time (25 months +)

People "interested" in shopping have a high chance of coming in contact with recycling depots in stores and post office counters in retail locations

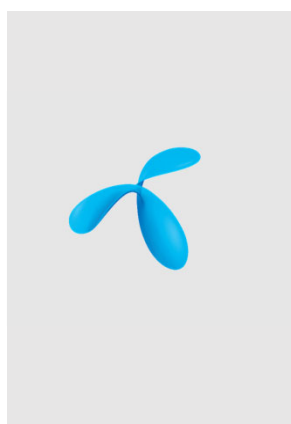
Potential Companies for Co-Marketing Partnership



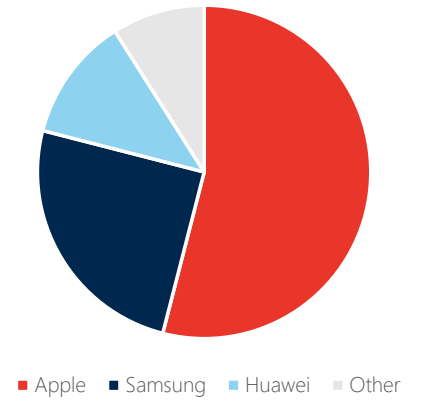
Device Sellers



Telecom Companies



Norwegian Mobile Vendor Market Share (2020)



Appendix

Implementation budget and assumptions for financials



Item	Implementation Budget				
	6 months	Year 1 (inclusive of 6 month period)	Year 2	Year 3	Year 4
WorkIT	201433	388500	403819	410545	423612
Cities	1	1	3	6	12
Number of Disassembly Workers	3	3	6	8	12
Training Hours	20	20	20	20	20
Hourly Wages	197	197	197	197	197
Monthly Wages	31520	31520	31520	31520	31520
Partnership Development	330000	660000	660000	1320000	1320000
Number of Additional Partnership Team Members	1	1	1	2	2
Annual Wages	660000	660000	660000	660000	660000
Facebook Ads	332762	412334	350192	260674	185876
Cost per thousand views	398	398	398	398	398
Reach	400000	600000	662000	437000	249000
Ad Agency Costs	173618	173618	86809	86809	86809
Pickup Trucks	943000	997000	2991000	2991000	2991000
Number of trucks	1	1	3	3	3
Monthly Leasing Costs	9000	9000	9000	9000	9000
Drivers	1	1	3	3	3
Annual Driver Salary	889000	889000	889000	889000	889000
Prepaid Postage	733920	1834800	3049438	3851245	5408990
Expected # of Devices	8000	20000	33240	41980	58960
Expected Cost of Shipping	92	92	92	92	92
Expected Revenue	1831270	4578174	7608926	9609588	13496458
Expected # of Devices	8000	20000	33240	41980	58960
Expected Revenue per Devi	229	229	229	229	229
Profit (NOK)	-709845	285540	154476	776124	3166980

Assumptions

Even split between smartphones, tablets, laptops

Pilot goes well, scale to two cities in year 1

Facebook ads will show on average one ad to each member of the city

How many device will we pickup? Assume that of people seeing ads 2% will decide to take action

As you scale to cities with lower populations, it becomes unprofitable to run truck operations in those cities

Workers can disassemble 4 devices an hour



Cost and revenue drivers with underlying rationale

Cost Drivers

Facebook Marketing
(CPM * Desired Reach)

WorkIT Labour
(Training Hours * Wages + Salary)

Prepaid Packaging Expenses
(Cost per Package * Devices Shipped)

Trucking Labour and Operations
(Lease + Driver Wages)

Revenue Drivers

Resale Value of Devices
(Price * Depreciation Rate ^ years on market)

Value of Components
(Secondary Market Rates)

Value of Recovered Raw Materials
(Recovered Material Weight * Market Value of Materials)

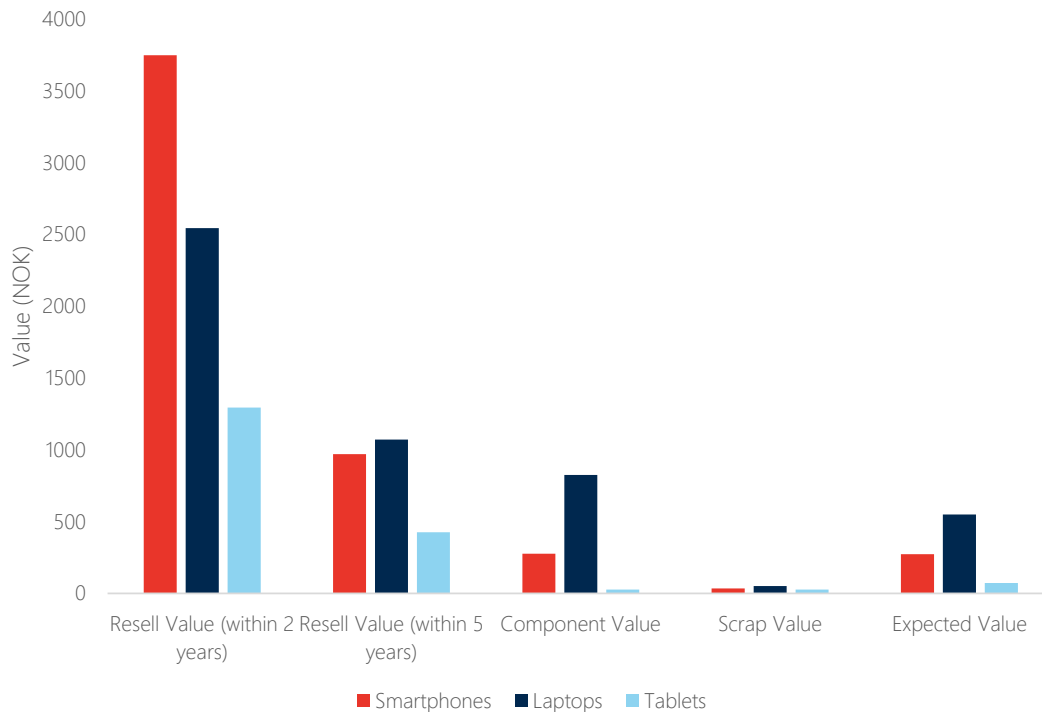
Mix of Recycled Waste (high / med /low)
Assume Even Distribution (in reality skewed to high)

Appendix

Expected value breakdown for used devices



Breakdown of Expected Revenue From Waste



Marketshare of Smartphone Brands and Their Value

	Market Share	Selling Price	Depreciation	Resale Value	Resale Value Component Value
Apple	54.42%	1286	35%	543.335	149.213374
Samsung	25.28%	1000	40%	360	77.76
Samsung	12.06%	265	40%	95.4	20.6064
Other	8.24%	250	40%	90	19.44

Marketshare of Laptop Types and Their Value

	Market Share	Selling Price	Depreciation	Resale Value	Resale Value Component Value
Windows	67%			210	52.5
Apple	27%			500	300

Market share of Tablet Types and Their Value

	Market Share	Selling Price	Depreciation	Resale Value	Resale Value Component Value
Apple	85%	400		148	20.2612
Samsung	10%	261		96.57	13.220433
Others	5%	250		92.5	12.66325

Metric (USD unless stated)	Likelihood	Smartphone (averages)	Laptop	Tablet
Weight (g)			170	680
Width (cm)			7	24
Length (cm)			15	16.9
Thickness (cm)			1	0.75
Resell value (recent models)	1%		405.61	140.08
Resell value (old models)	9%		104.95	46.14
Component Value	30%		30.00	2.95
Scrap Value	50%		3.76	2.95
Expected Value (NOK)			225.28	73.12

Advantage of working with adaptive work programs



Uniquely Suited Skillsets

Employees with Aspergers are uniquely suited for detail-oriented and repetitive tasks such as disassembly and sorting.

Social Impact

Incorporating this talent into our plans allows us to create meaningful social impact, aligning ourselves with the Norwegian Ministry of Labour goals.

