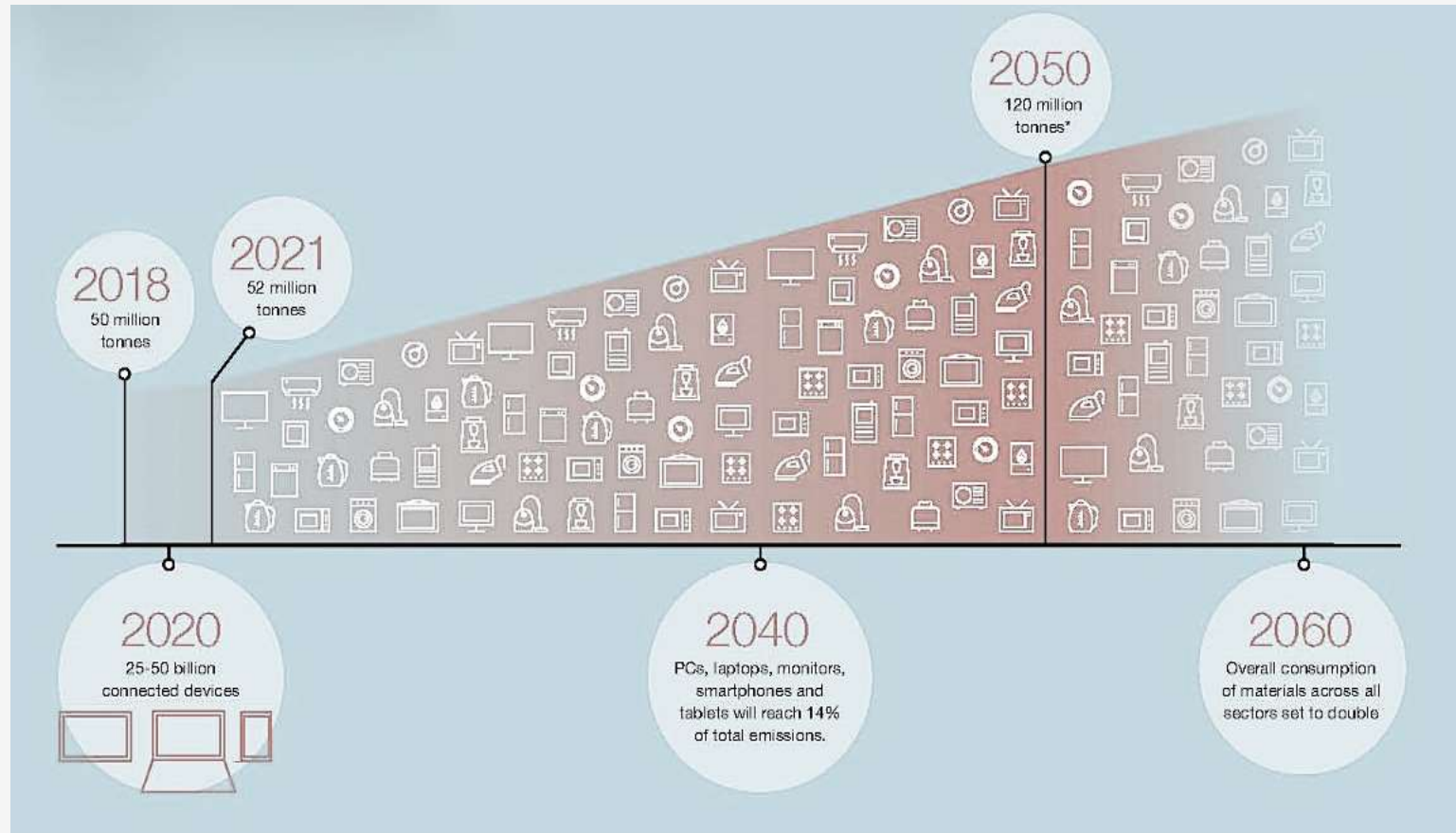
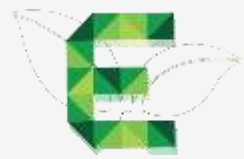


# E-Waste Reality: Fastest Growing Waste Stream Worldwide

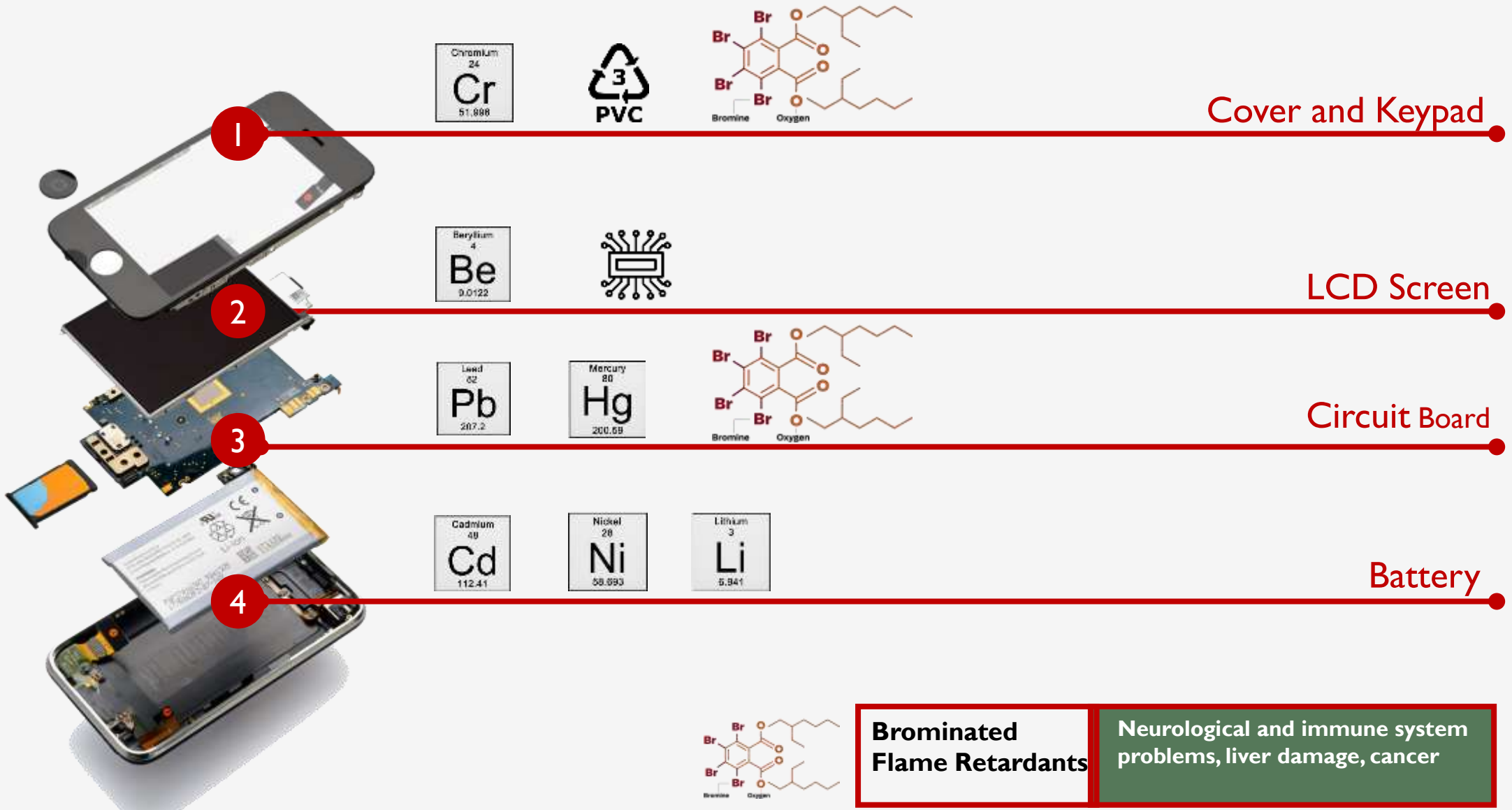


**3%**  
of total waste  
going in  
Landfills

**70%**  
of toxic elements in  
those landfills

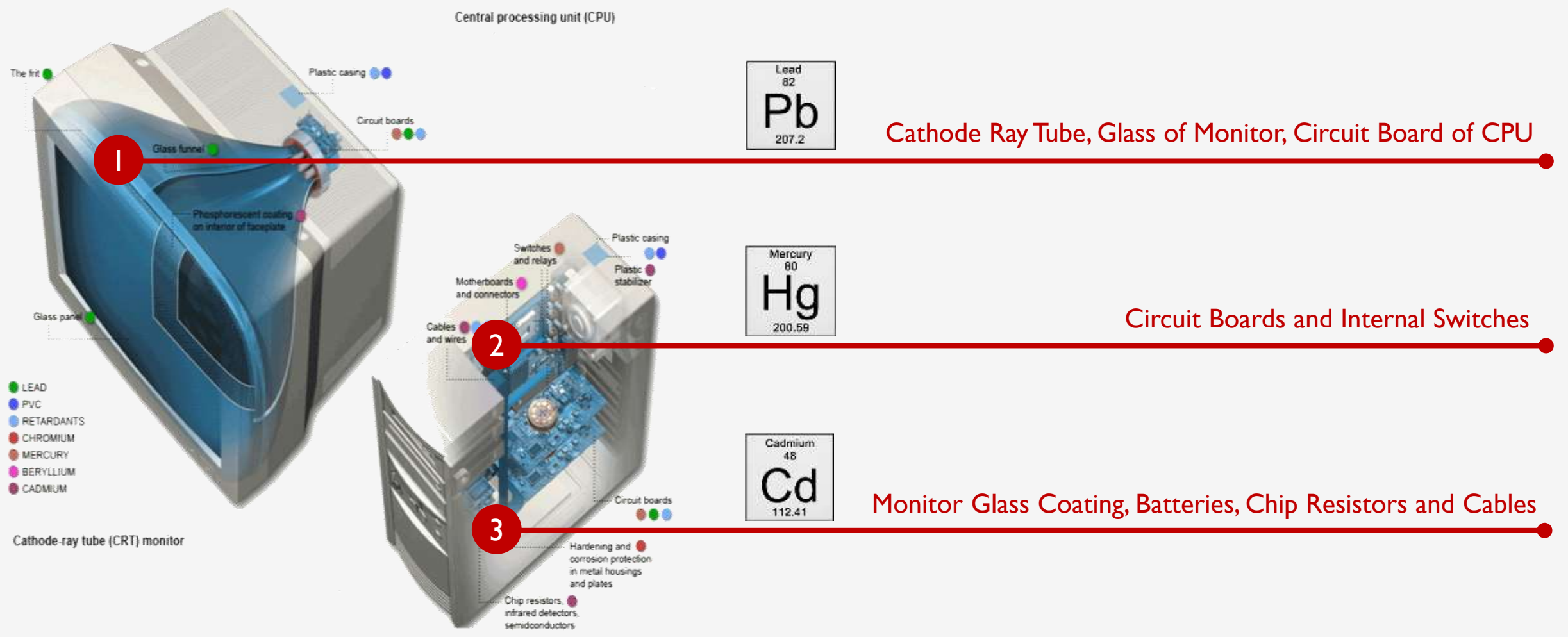


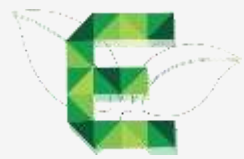
# A Closer Look: Mobile Phone Hazardous Components





# A Closer Look: Computer Hazardous Components

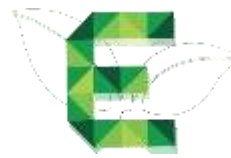




# E-Waste Reality:

Major volume goes to Landfills, open dumpsites and haphazard handling by scrappers

<b>2021</b>	<b>Worldwide</b>	<b>Lebanon</b>
E-waste generated	55M MT	46K MT
Estimated at	\$ 70 B	\$ 59 M
Proper disposal/recycling	20%	1.5%
Growth per annum	4 to 5%	1.8%



# E-Waste Disposal in Lebanon is Ineffective!

No valid Legislation  
Enforceability yet



Solid waste companies  
are not  
mandated to handle e-waste



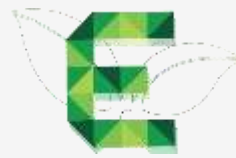
'Cherry picking' by  
Scrapers



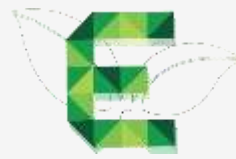
Lack of focused  
awareness  
on  
this type of  
waste



# Poor percentage of proper local E-waste disposal is mainly due to:

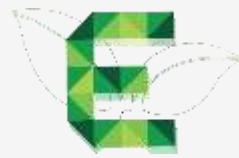


- Lack of awareness and practical disposal solutions
- Over 50% of E-waste are stored in homes and storage spaces
- Public sector inefficient management of obsolete equipment disposal
- Scrapper practices
- Local institutions and representatives do not conform to CSR norms



# Proposed Solutions to increase proper local **E-waste** disposal:

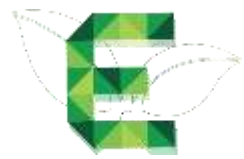
- Lack of awareness > Workshops, Train the trainer, Ambassadorship program
- E-waste stored in homes > Adopt a return program and fast collection structure
- Public sector obsolete equipment disposal > Lobby for a legislation to instate practical modern disposal processes subject to CSR norms



# Proposed Solutions to increase proper local **E-waste** disposal:

- Scrapper practices > Establish common grounds to network 1st attempt E-Plastics  
2nd attempt E-Boards
- Local institutions and representatives do not conform to CSR norms > Devise an EPR legislation that requires producers to finance the proper disposal (especially when dealing with products that contain toxic elements) of their obsolete and returned equipment



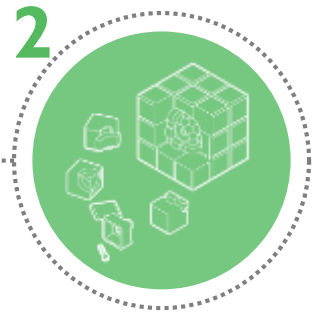


# How does Ecoserv Operate Locally

120 Dropzones distributed all over Lebanon.  
Network is planned to grow by 40% in 2023



**E-Waste  
Collection**



**Item  
Segregation**

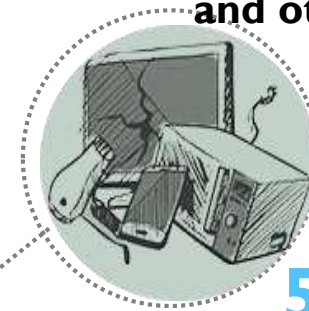


**Destruction  
and  
Secondary  
Material  
Separation**



**Component  
based  
Sorting**

Local recycling of **Plastics**, **Metals**,  
and other parts



**5A**

**Destruction/Recycling/Disposal  
Report**

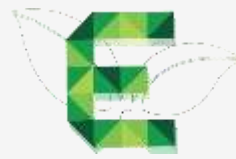


**5B**

**Shipment of components that may  
contain toxic material to Certified  
International Recycling Plants**

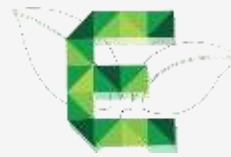


Yrs. 2020/21	
Total	120MT
Dropzones	8%

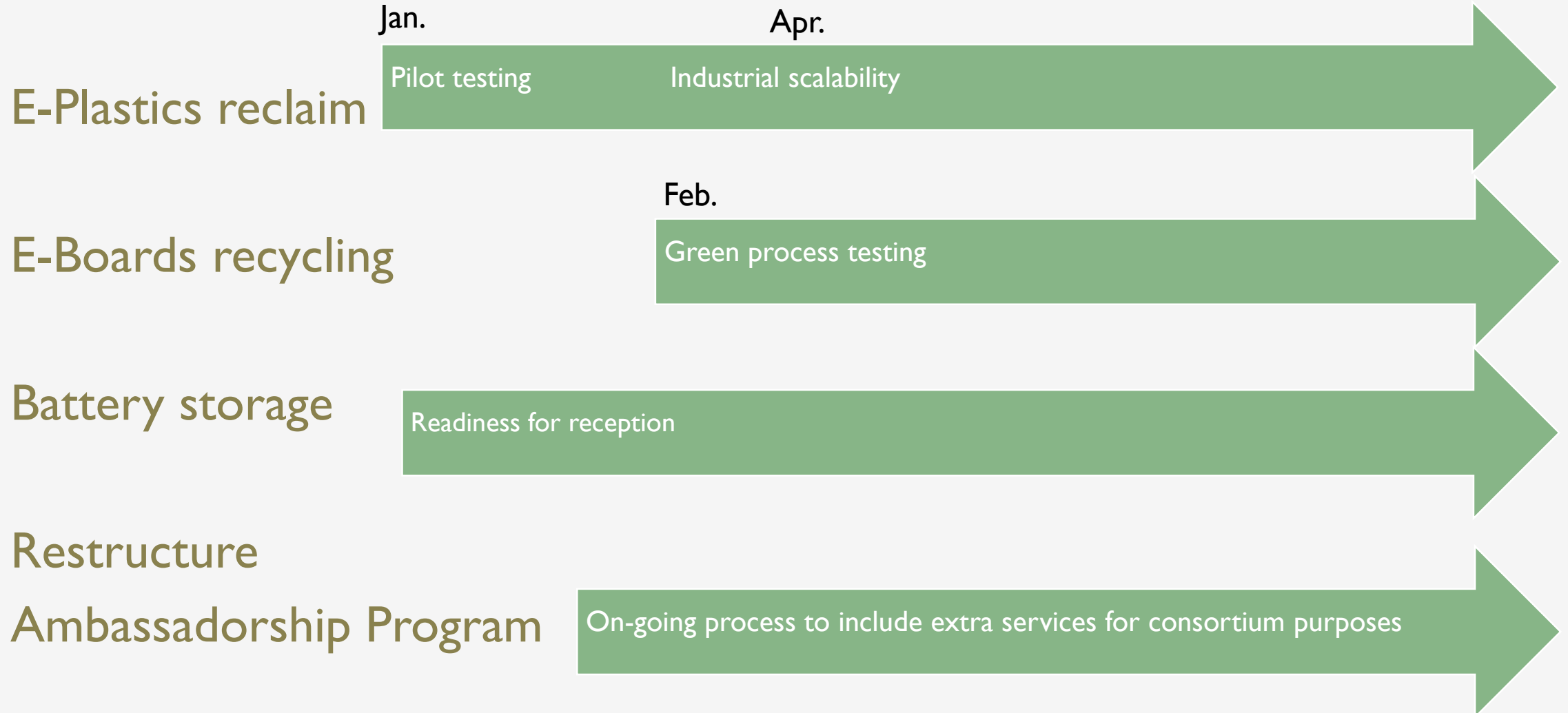


# Cost Recovery

• Metal	35%	
• E-Plastics	0%	←
• E-Boards	48%	←
• Batteries	5%	←
• EPR agreements	12%	

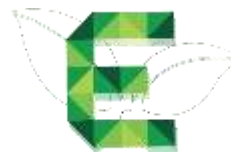


# Ecoserv Strategic Sustainability Projects





# Ecoserv Ambassadorship Program



Recommend  
Regional Events



Liaise with Municipalities,  
Academia, and Other  
Regional Institutions



Dropzone  
Management



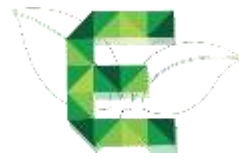
Organize Regional  
Workshops



# ..Influence Change

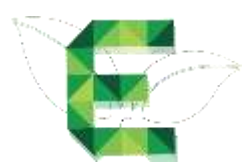
# Ecoserv Mobile Application

(for IOS and Android)



## Main Features

- ✓ Ecoserv Dropzones Guide
- ✓ 'Near Me' options
- ✓ Request E-waste Collection
- ✓ Register in Ecoserv Programs
- ✓ Join Ecoserv Network



**Ambassador  
Program**



**Awareness  
Initiatives**



**Upcycling  
through Art**



**Key  
Partnerships**



**Expansion**



**Into the Future**