

# PRESENTATION OF RAW MATTERS AMBASSADORS AT SCHOOLS 3.0 PROJECT

Presented by:

HUNGARY

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# THE SECOND LIFE OF BATTERIES

Lithium-ion battery in the circular economy

# Summary

- ▶ Planted **mustard seeds** with lithium → to see how it affects the soil
- ◀ Created a **procedure** to reuse batteries → instead of disposing & burning
- ▶ Made portable **powerbanks** → a useful gadget to our everyday lives

# INSTRUCTION MANUAL TO LITHIUM



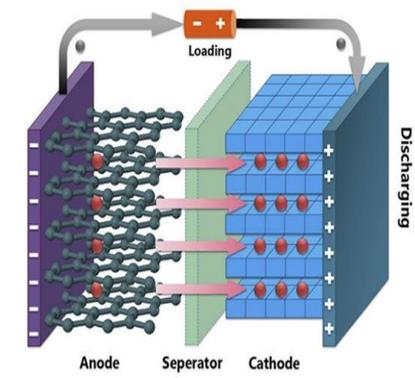
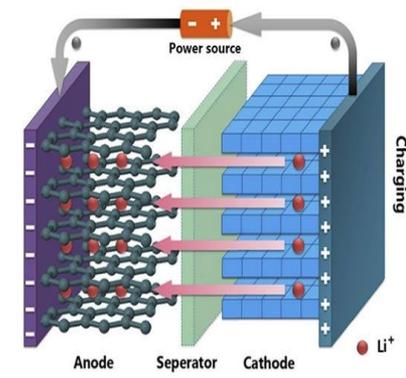
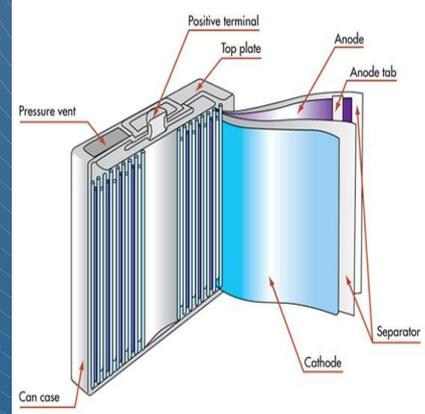
- Smartphones
- Laptops
- Electric cars - Tesla
- Electric planes - Pipistrel





# BATTERY

## SDM MAGNETICS



Li+  
e-

# OUR LITTLE LITHIUM GARDEN

0.1 mol/dm<sup>3</sup>



1 mol/dm<sup>3</sup>

0.03 mol/dm<sup>3</sup>



0.02 mol/dm<sup>3</sup>

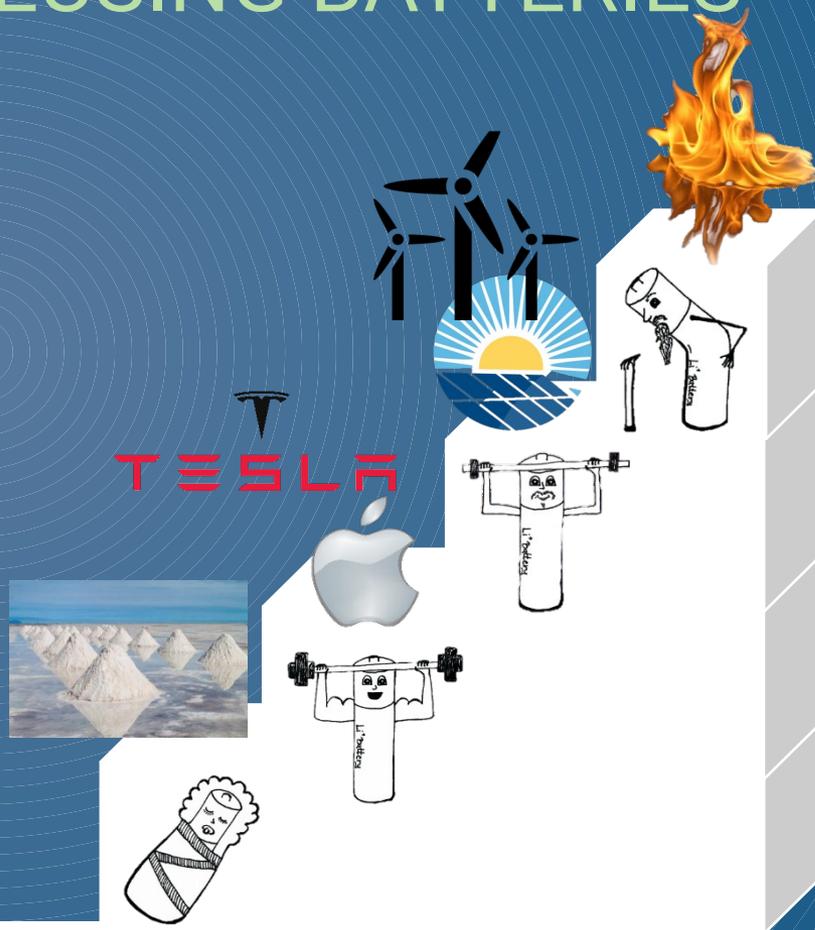
Control

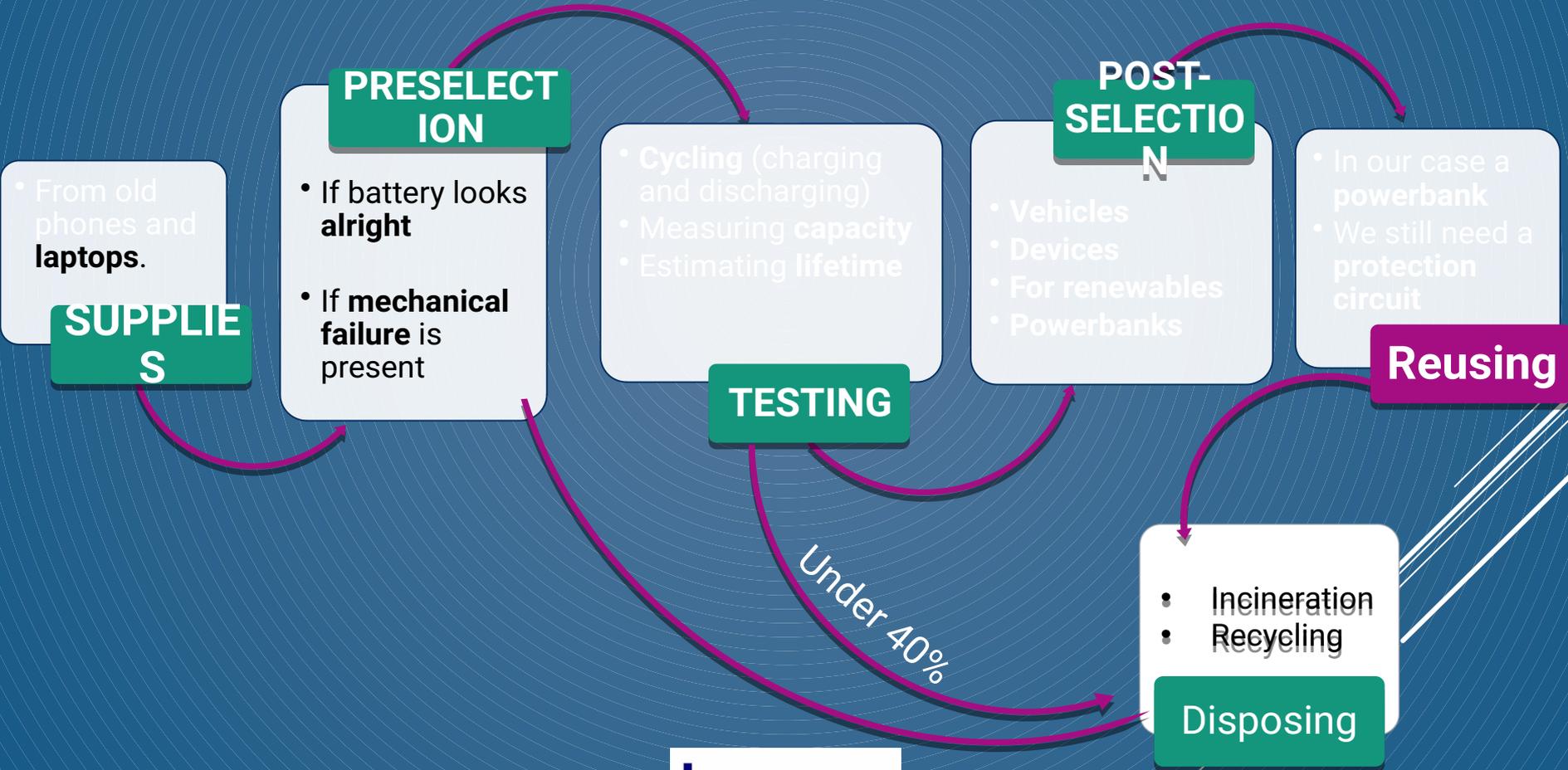


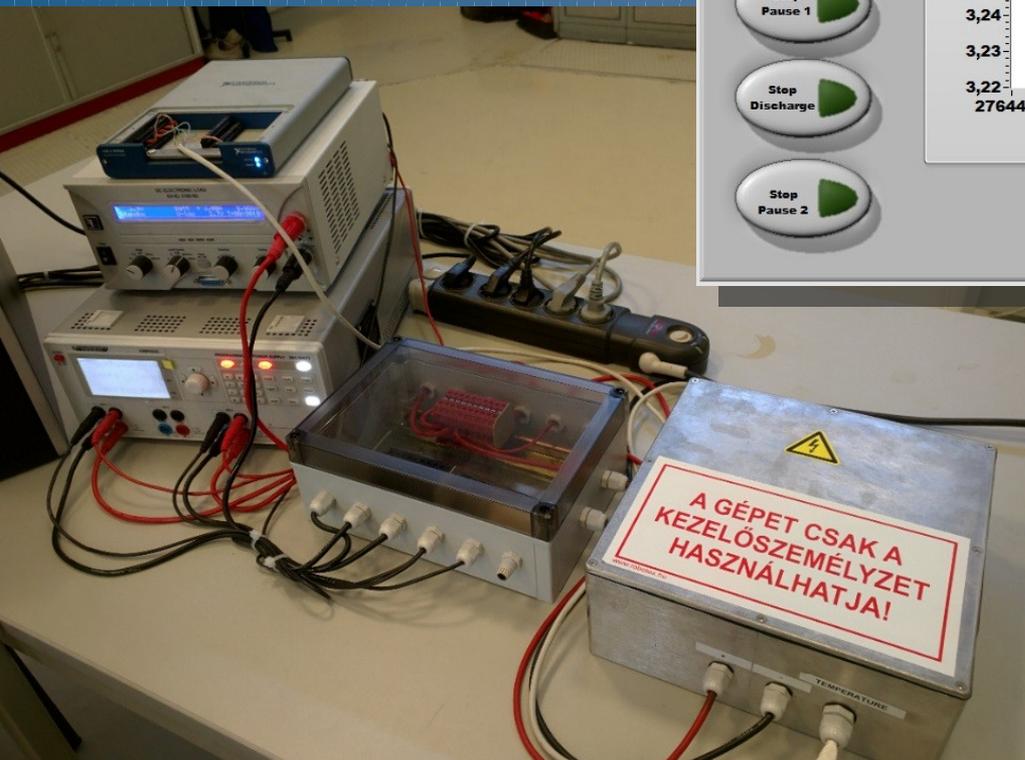
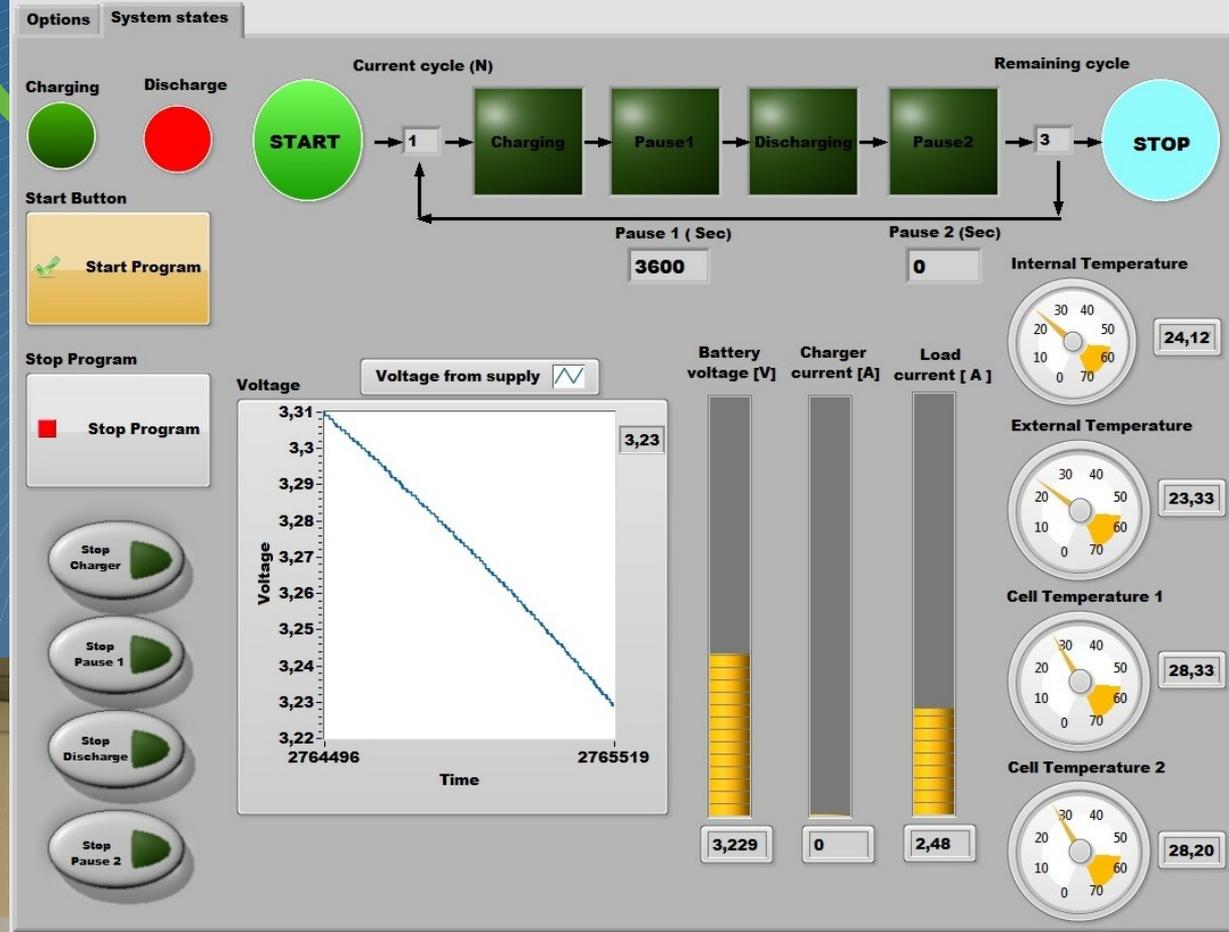
0.01 mol/dm<sup>3</sup>

# OUR CONCEPT OF REUSING BATTERIES

- I. Mine it out
- II. The spirit of our phones, laptops and cars
- III. Reuse it in other ways
- IV. Throw it away and burn it

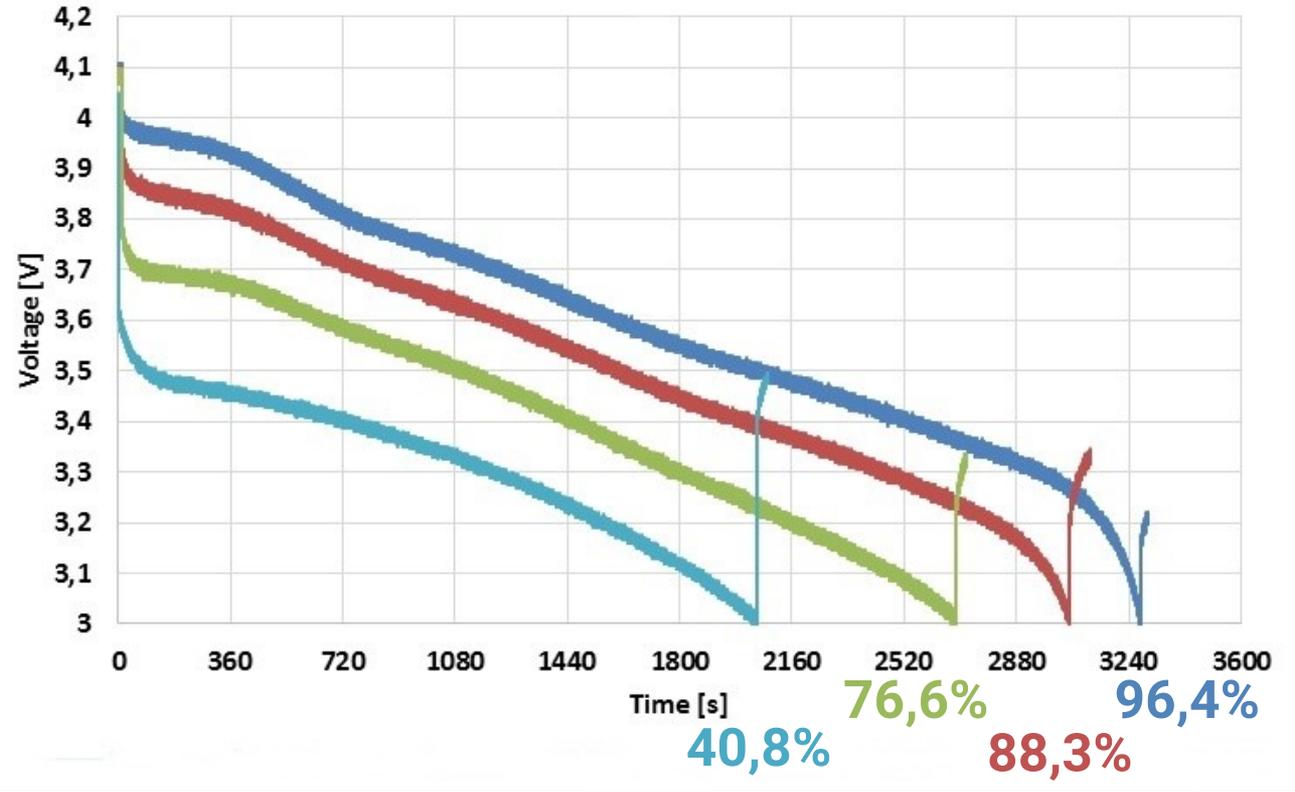






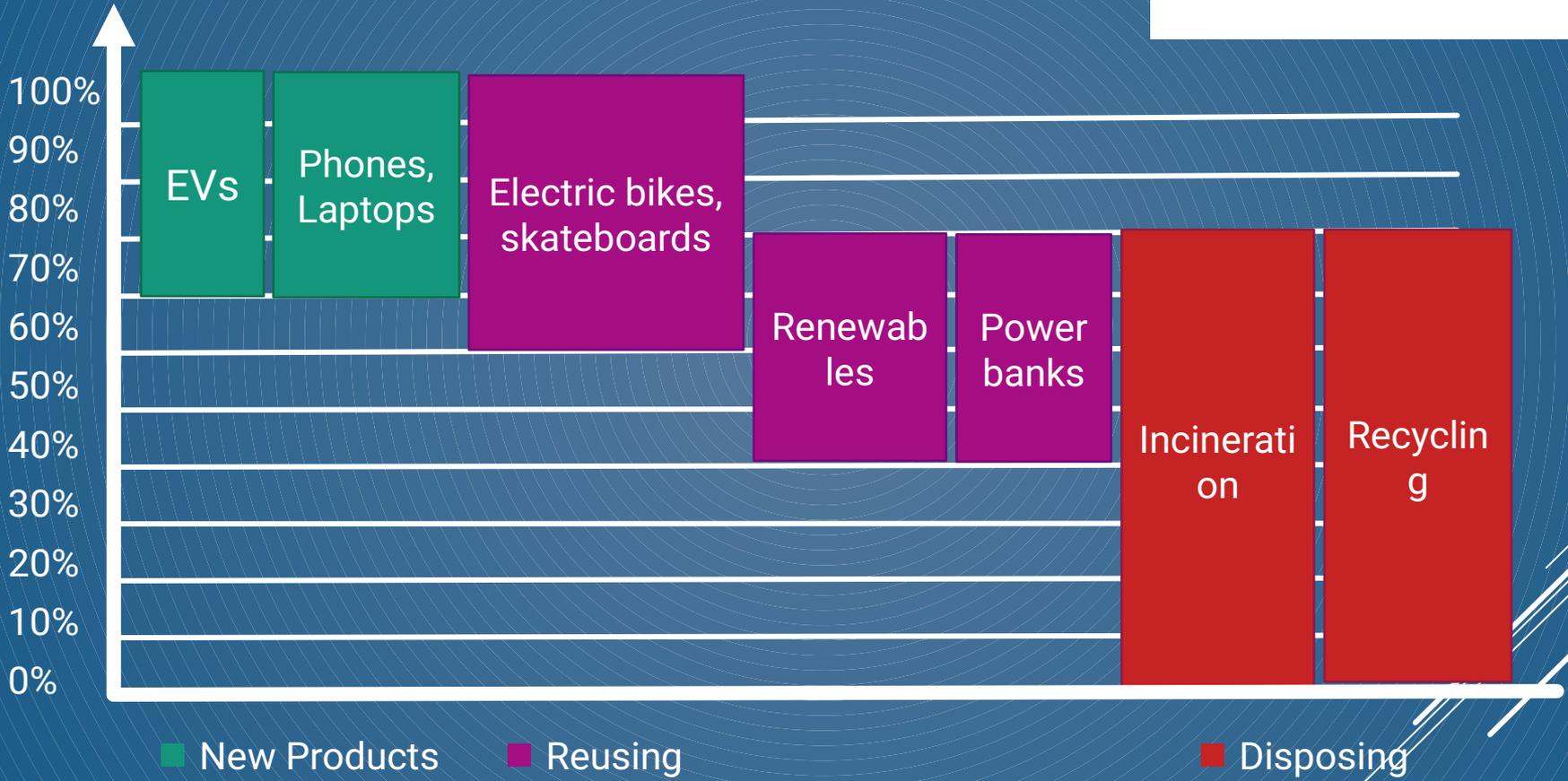


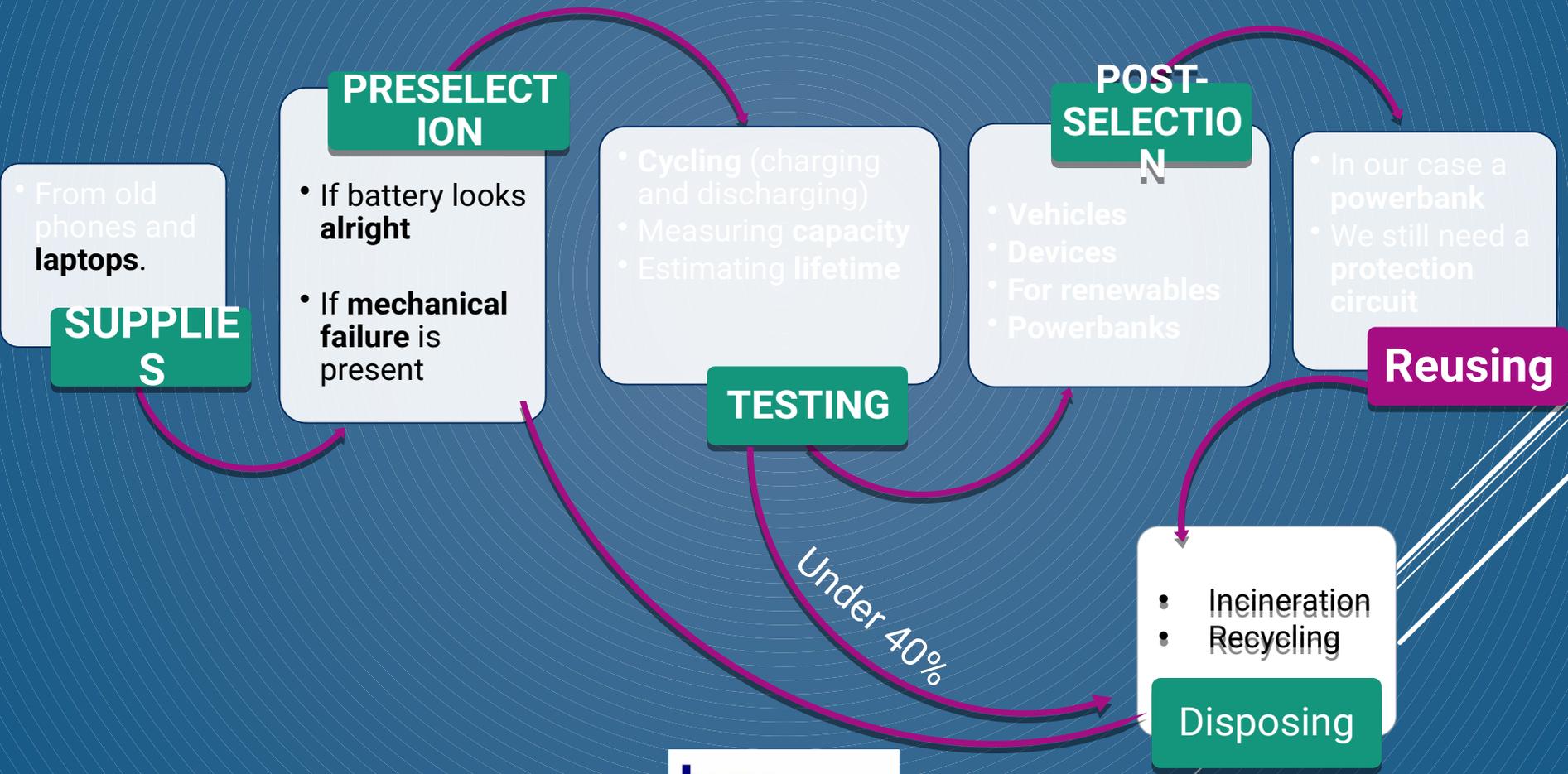
### 18650 Battery test





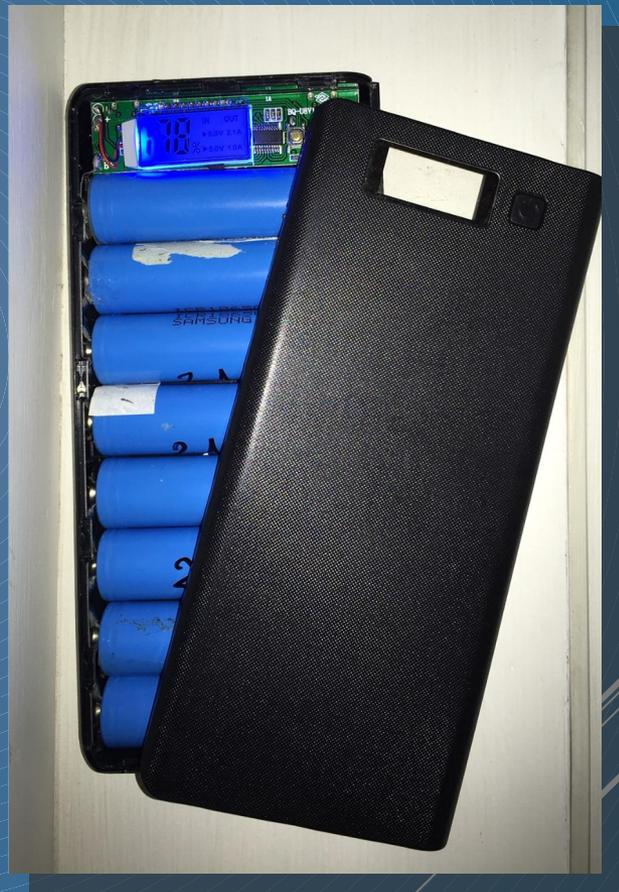
# Capacity

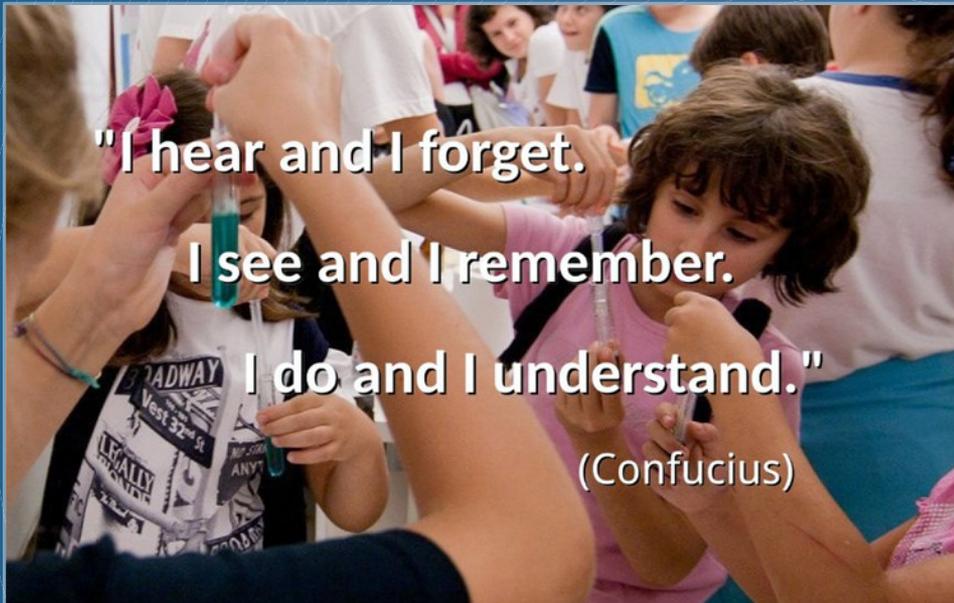






**KEEP  
CALM  
AND  
RECYCLE  
BATTERIES**





"I hear and I forget.  
I see and I remember.  
I do and I understand."  
(Confucius)

THANK YOU VERY  
MUCH FOR YOUR  
ATTENTION!

See more information on our website:  
<http://rmschools.isof.cnr.it/network.html>