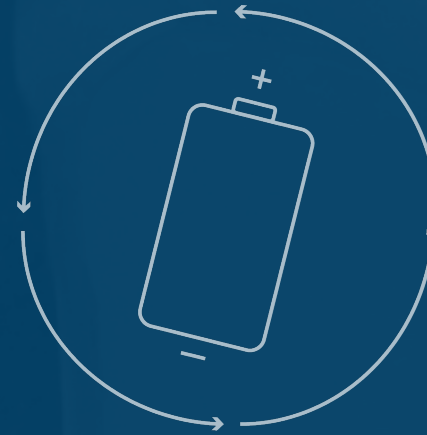


# OnTo Technology

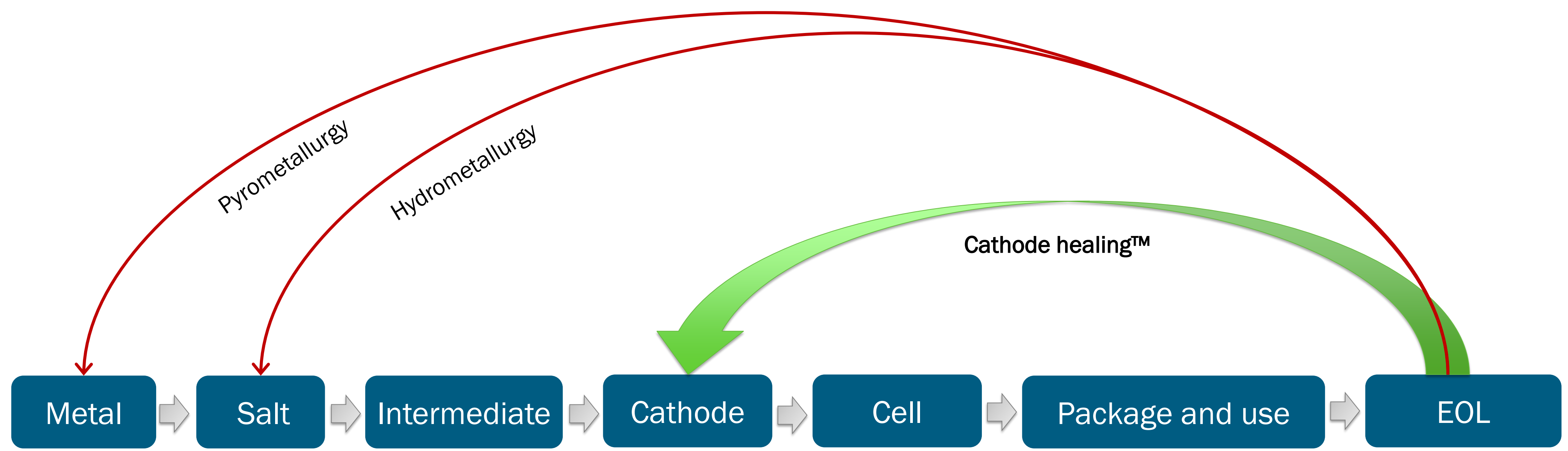


## Track 2: Sorting

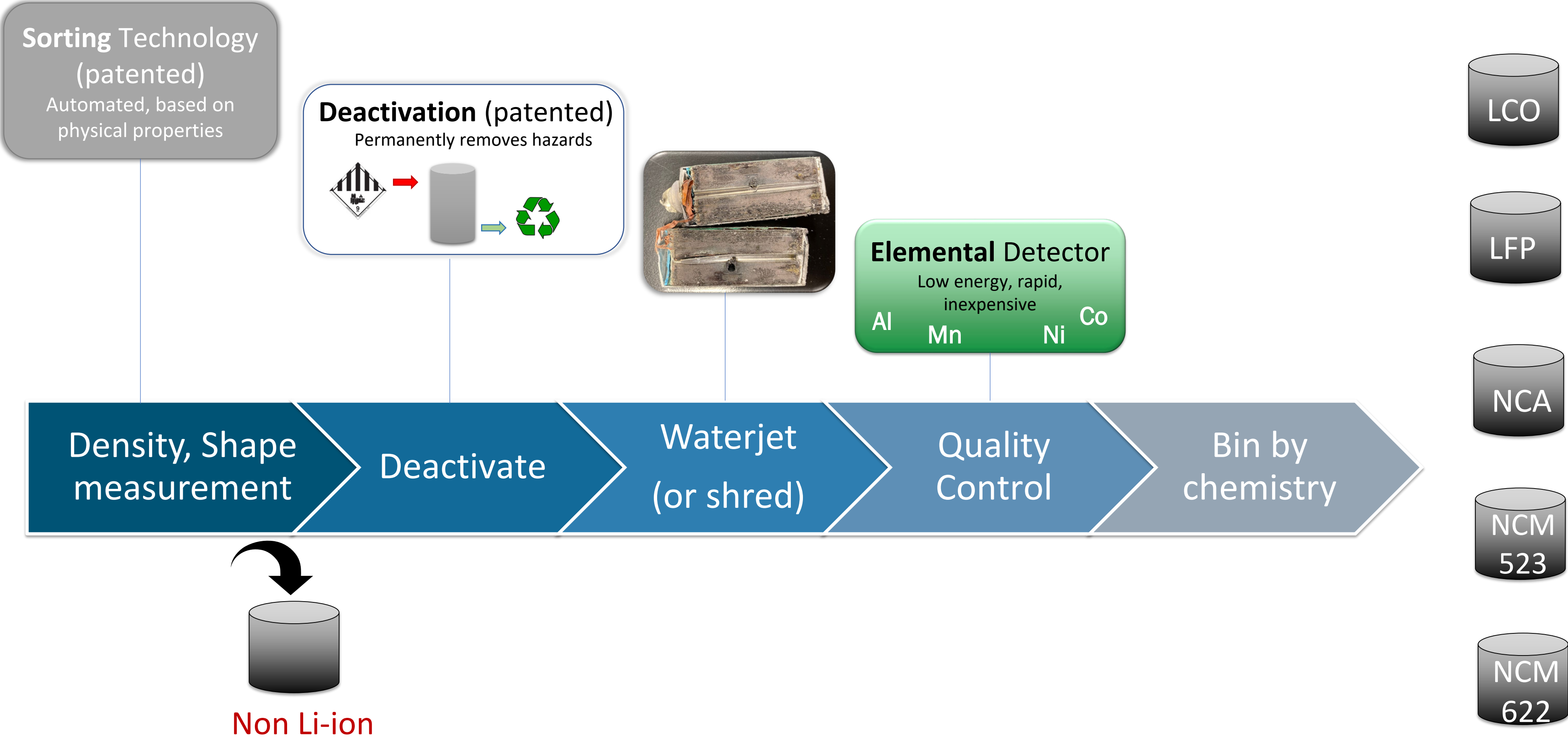
# Li-ion Identification For the Next Generation of Cathode Recycling



# Sorting for efficient recycling



# Sorting and safe disassembly





# Waterjet technology & batteries

- **Safe**
  - Nonflammable
  - Controllable
- **Rapid, precise**
- **High material recovery**
- **Preserves purity**
- **Great AI interface**



# Features of OnTo's solution



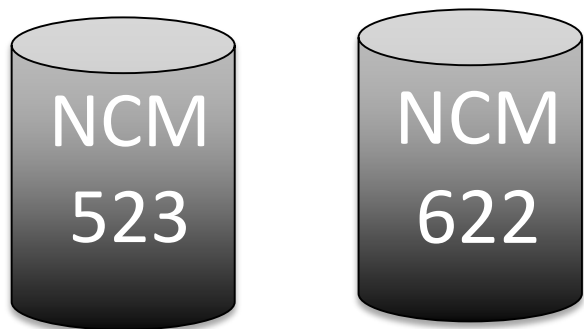
Safe



Automated



Inexpensive



Distinguish NCMs



Safe to Store



# Team Introduction



**Steve Sloop, Ph.D.**

Founder and President of OnTo  
Pioneer in direct recycling  
14 patents



**Lauren Crandon, Ph.D.**

Chemical & Environmental engineer  
Expert in nano-particulate  
environmental health & safety



**Tucker Holstun**

Chemical Engineering  
intern



**Michael Lerner, Ph.D.**

Oregon State Univ. program director  
World leader in solid state materials.



**Dylan Howes**

VP, Global Business Development  
Shape Technologies Group.



**Marc Gossack**

30 yrs experience in systems  
engineering, software architecture  
design, hardware automation



**Josie Alberts**

Graphic designer, skilled in CNC  
cutting software



**Talon Swanson**

Environmental Health & Safety,  
Seattle King County Metro Transit







U.S. DEPARTMENT OF ENERGY

# Thank you!

OnTo Technology LLC  
Bend, OR



# Competition

## Competition

- Powerful, expensive X-rays
- Manual sorting
- Dangerous to handle batteries
- Expensive, designed for large processing facility
- Bins into few categories
- Binned batteries must be immediately processed

## OnTo

- Low energy detection
- Automated sorting
- Safe deactivated batteries
- Inexpensive, reproducible at every transfer station
- Can distinguish between NMC
- Binned batteries safe to store and transport



