



**Responsible  
Battery  
Coalition™**

Thank you!

  
SUPPLIERS PARTNERSHIP  
FOR THE ENVIRONMENT™



Ron Dudley, FeatheredPhotography.com

# Why the Responsible Battery Coalition...



## *Demonstrating Responsibility*

- Recycled 12.15 Billion pounds of lead*
- Prevented 71,410 years of disability (Disability Adjusted Life Years)*
- Reduced GHG emissions by 1,360,000 Metric Tons of CO<sub>2</sub>eq (as much as the annual emissions of a medium-size power plant)*
- Prevented the emission of 168,600 metric tons of sulfur dioxide (SO<sub>2</sub>), 37,600 metric tons of coarse particulate matter (PM<sub>10</sub>), 15,960 metric tons of phosphorous (P) and 73.76 Million metric tons of polluted soil*
- Reduced overall environmental damages by 92% (compared to mining and processing new lead)*



*Dr. Ramon Sanchez  
Event: 2 Million Battery Challenge Launch  
U.S. Capitol, Washington, D.C.  
February 13, 2018*

*U.S. Senate Automotive Caucus  
Senator Rob Portman (OH) Chair*

# Defining Responsibility

## Focus

- *Position RBC as a influencer and thought-leader advancing life-cycle management practices here in North America and abroad*
- *Develop meaningful life-cycle principles and best practices to help raise the bar on industry practices and protect the innovation path for new chemistries*
- *Facilitate collaboration across groups working to build a circular economy in the battery and energy storage sector, coordinate impactful projects, and support funding research to address gaps.*
- *Expand Coalition membership to bring additional, like-minded companies and organizations to support this effort*

# RBC Ecosystem

*A responsible battery meets a need and is properly managed across its life-cycle to not cause harm to people or the environment and is reused where possible and ultimately recycled.*

## Hotspots

- Leverage existing work to define life cycle hotspots
- Refine & prioritize list
- Informs work plan based on priorities

## EOL Survey

- Define current landscape in auto sector
- Sets reference point for next steps
- SP Responsible Battery Work Group collaboration

## Life Cycle Model

- Better understand best practices to minimize impact
- Expands existing models for batteries
- Argonne National Laboratory

## Define Principles

- Principles for responsible energy storage design
- Working within auto sector for development
- Univ. of Michigan Center for Sustainable Systems



# Responsible Battery Coalition™

[ResponsibleBatteryCoalition.org](https://ResponsibleBatteryCoalition.org)