

Team EVBs

A Circular Economy for Electric Vehicle Batteries



Contact:

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Team EVBs Introduction

A Circular Economy for Electric Vehicle Batteries

A demonstration whereby electric vehicle batteries are given a digital identity to connect all stakeholders in the lifecycles

Team Name: Team EVBs

Lead: Lauren Roman, Everledger

Partners and Affiliates

Laura Wagner, Battery Lifecycle Manager, **Ford** Motor Company

Todd Coy, Executive VP - KBI Recycling/**Retriev**

Mark Caffarey, President - **Umicore** USA Inc.

Mike Smyth, Interim Director - **National Alternative Fuels Training Consortium**

Ginny Whelan, Director - **Automotive Recyclers Association**

David Waggoner, Chief Scientist - **Institute of Scrap Recycling Industries (ISRI)**

Scott Wiggins, VP Environmental Health & Safety - ISRI

Ron Lembke, Standards Committee Chair **Reverse Logistics Association**

John Greaves, Chair American National Standards Institute (**ANSI**) Materials Handling 10 Standards

Patrick Duffy, President - **Blockchain in Transport Alliance** (BiTA)

Yorke Rhodes, **Microsoft**

Steve Christensen, Executive Director **Responsible Battery Coalition (RBC)**

Solution Illustration



BATTERY SYSTEM

The Battery Passport

- World Economic Forum Annual Meeting 2020
- January 23, 2020



COMMITTED TO
IMPROVING THE STATE
OF THE WORLD

**GLOBAL
BATTERY
ALLIANCE**

BATTERIES POWERING
SUSTAINABLE DEVELOPMENT

70+ GBA members

Public & international organizations



Hosted by



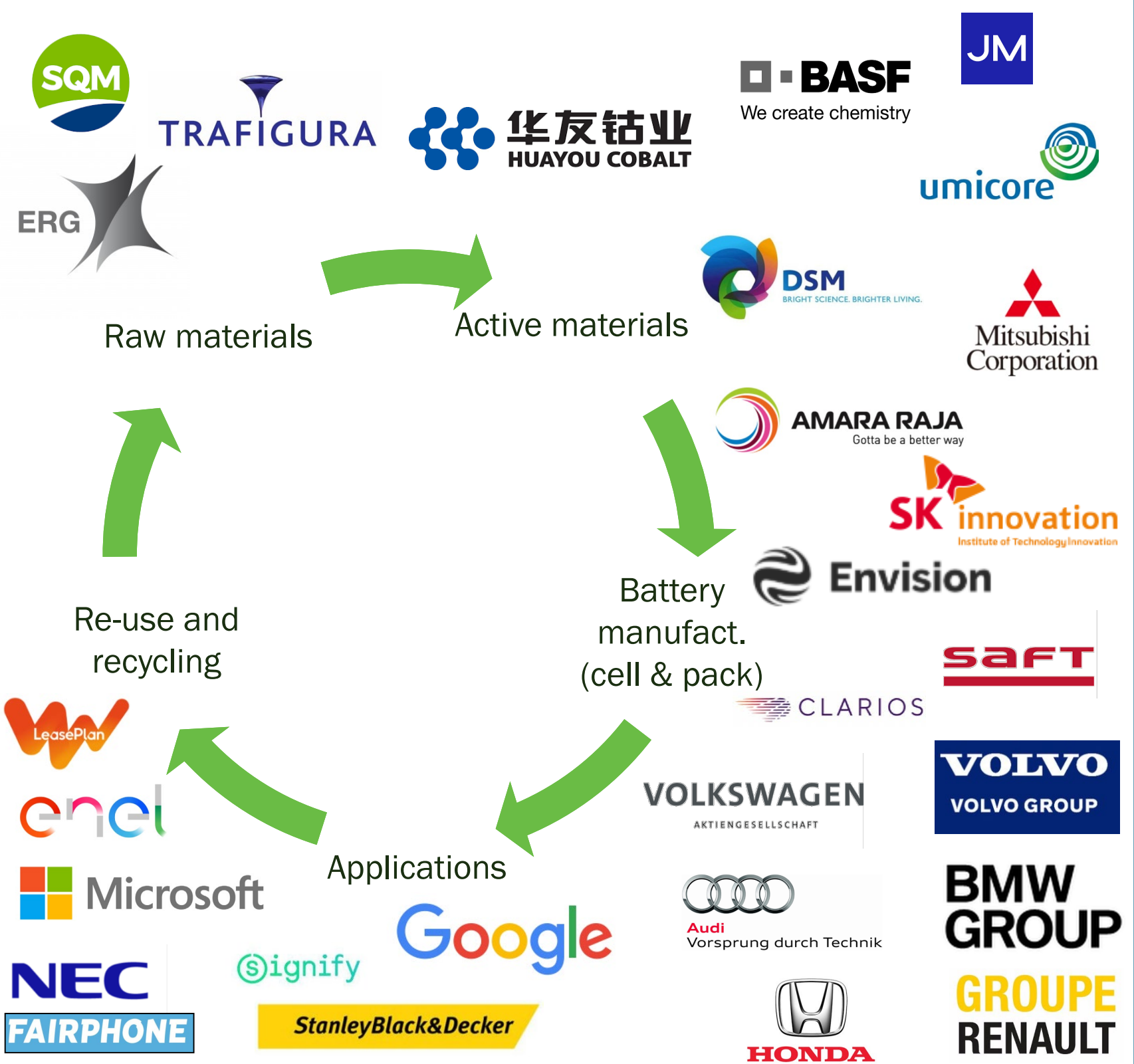
NGOs, foundations, associations



Knowledge partners

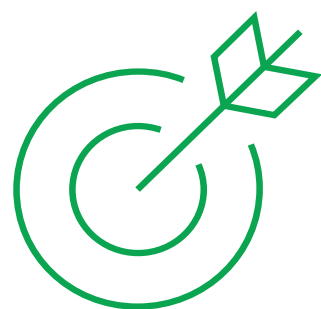


Industry



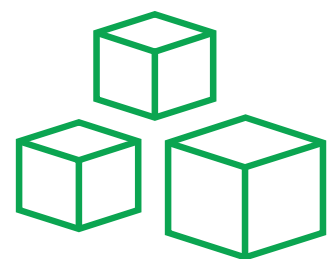
Implementation phases

Phased buildout of the Battery Passport in consultation with stakeholders across the value chain ensures full protection and realization of benefits



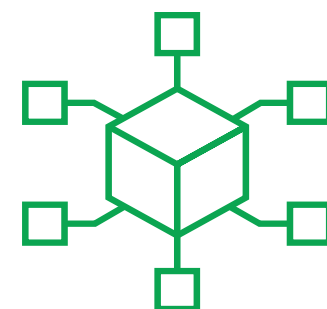
Battery Passport concept Groundwork

- Evaluation: static¹ and dynamic² data sets, data implementation in Battery Passport 1.0 and 2.0
- Establishment: Battery Passport platform – compliance with GBA principles and implementing commitments (standards)



Battery Passport 1.0 MVP

- Focus on static data^{1,2} e.g.
 - Provenance of materials
 - Static battery information
 - GHG disclosure
- Limited dynamic data^{1,3}



Battery Passport 2.0 Broader ecosystem rollout

- Extension of participant group
- Extension of technical and organizational solutions across the battery value chain
- Focus on limited relevant dynamic data^{1,3}, e.g.,
 - Battery aging
 - Life-cycle emissions

¹ No confidential business information.
² Data this constant after being recorded.
³ Data that changes after being recorded.