

A-LCA IWG SG2 input

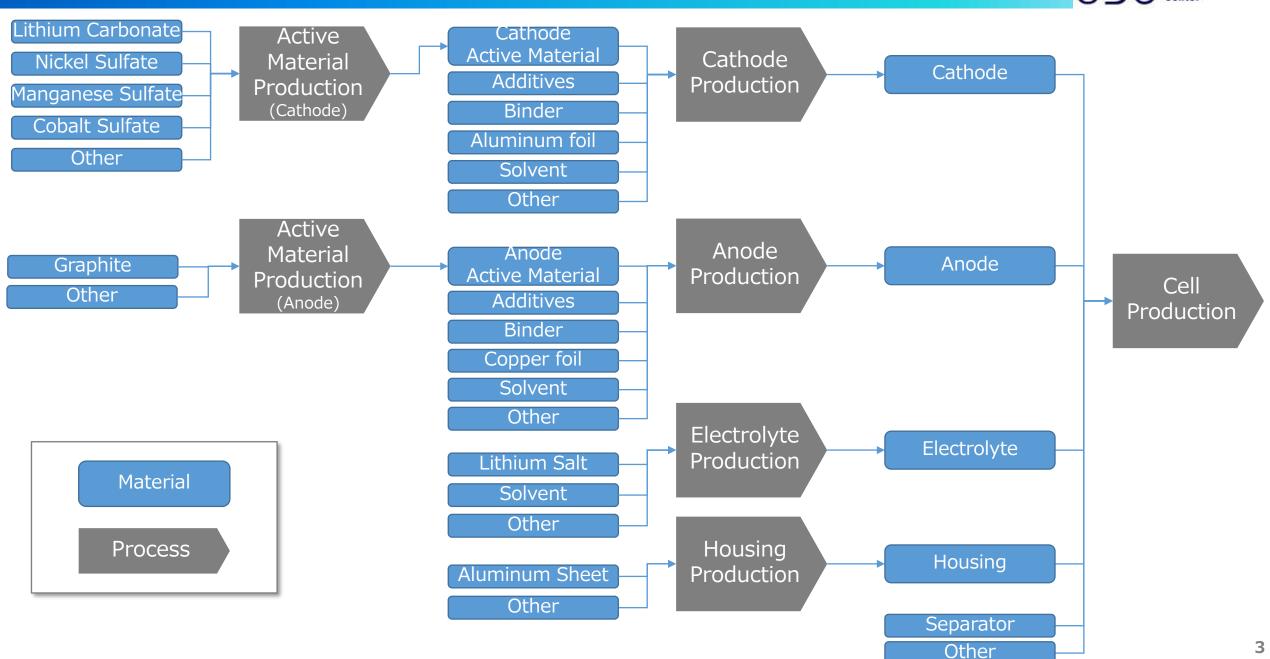
2023.Dec.04 Isao Tabushi / JASIC (Japan)



Material classification concept for Battery Material

Battery Material System Boundary concept

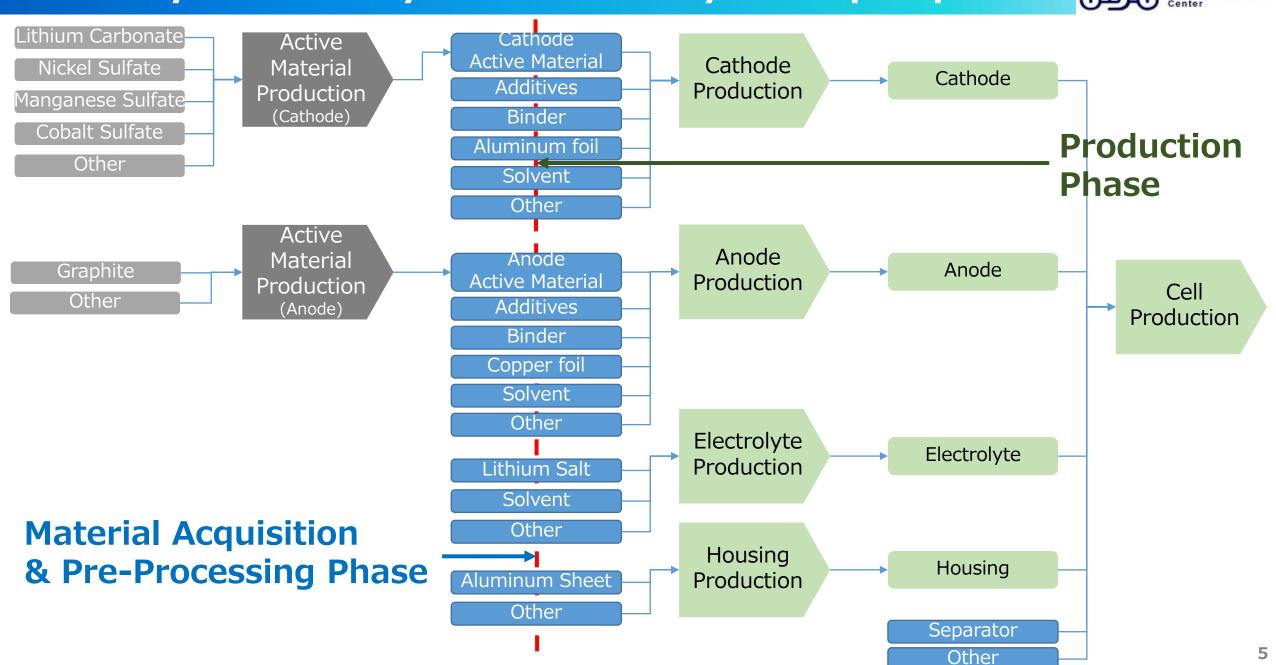




Japan Automobile Battery Material System Boundary concept Op.1 Internationalization Lithium Carbonate Cathode Active **Active Material** Cathode Material Nickel Sulfate Cathode Additives Production Production Manganese Sulfate (Cathode) Binder Cobalt Sulfate **Production** Aluminum foil Other Solvent **Phase** Other Active Anode Anode Material Anode Graphite **Active Material** Production Production Cell Other Additives (Anode) Production Binder Copper foil Solvent Other Electrolyte Electrolyte Production Lithium Salt **Material Acquisition** Solvent & Pre-Processing Phase Other Housing Housing Production **Aluminum Sheet** Other Separator Other

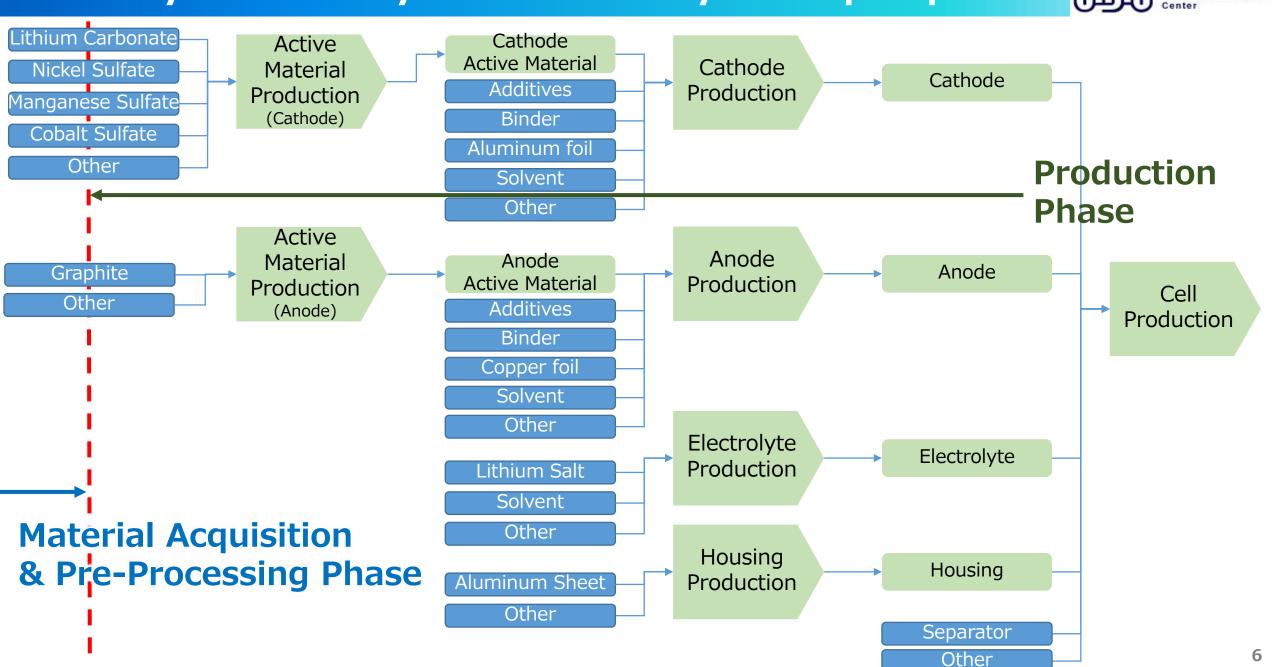
Battery Material System Boundary concept Op.2





Battery Material System Boundary concept Op.3





Summary & Request to IWG members



- **>SG2** started discussion of Battery Materials
- >Today's concept is still under discussion.
- >SG2 request to all of A-LCA IWG member to give us feed back regards of system boundary of Battery Materials at next IWG meeting (2024.Jan.08)