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National Research Council Canada

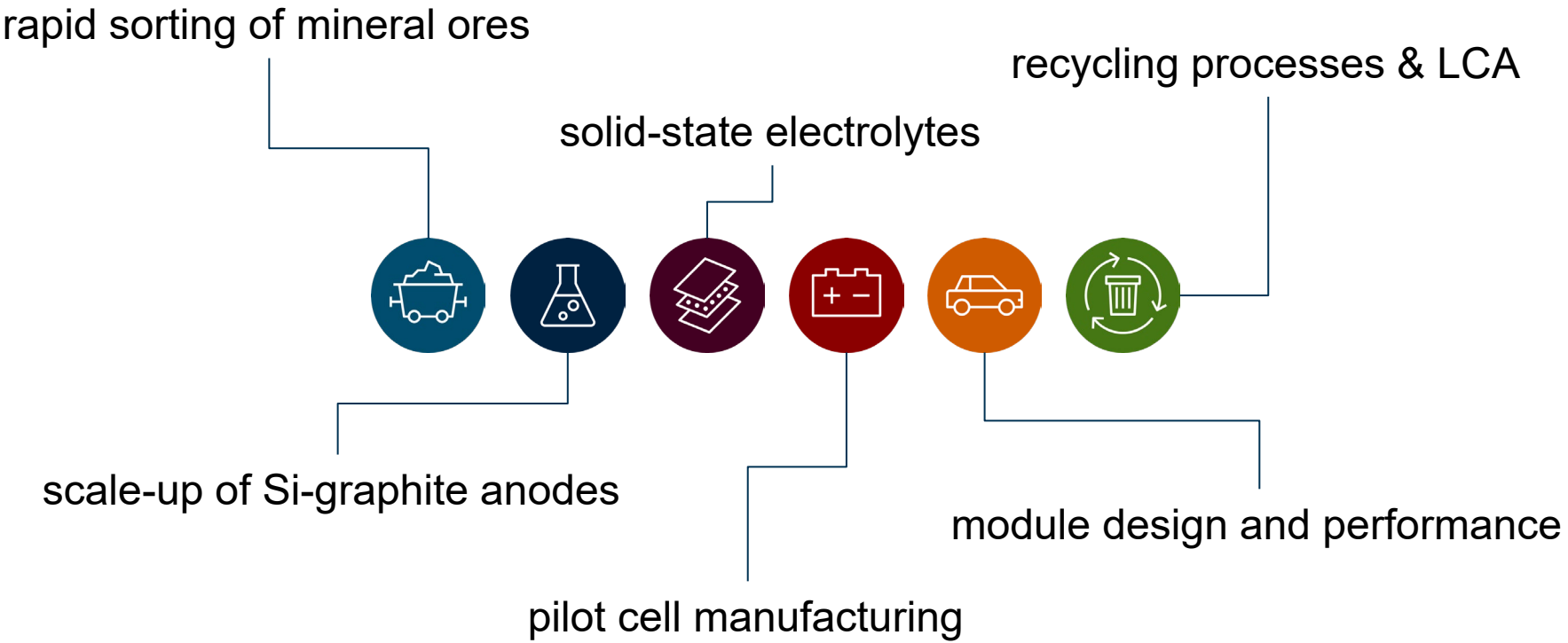
Clean and Energy-Efficient Transportation Program

Advanced Clean Energy Program

Peter Kovacik / Peter.Kovacik@cnrc-nrc.gc.ca

NRC and battery value chain

Questions? Get in touch at
Peter.Kovacik@cnrc-nrc.gc.ca



Advanced materials and cells

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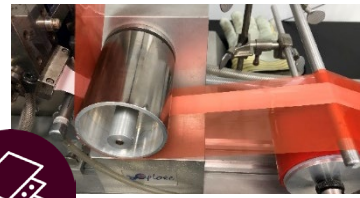
Si-graphite composites

- from mine to cell; unique graphite processing facilities
- development and scale up of graphite-Si anodes



Solid-state electrolytes

- low-cost approaches to electrolyte processing

Pilot manufacturing of cells

- validation of new materials and components
- pouch cells with R&D (0.5 Ah) and soon also EV (30 Ah) sizes

Battery safety, recycling, and outreach

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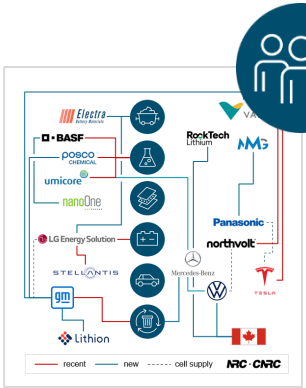
Battery performance and safety

- abuse testing from cell to vehicle level; unique facilities
- novel TR initiation methodology; impact on technical regulations

Circularity and LCA

- cathode and anode recycling; new scale-up facilities
- LCA-based certification for critical minerals



Community engagement

- help businesses navigate technology trends

…and increase awareness of battery activities in Canada

email *Michel.Cloutier@nrc.ca*