## Martin Cermak<sup>1</sup>, Claire McCague, and Majid Bahrami<sup>2</sup>

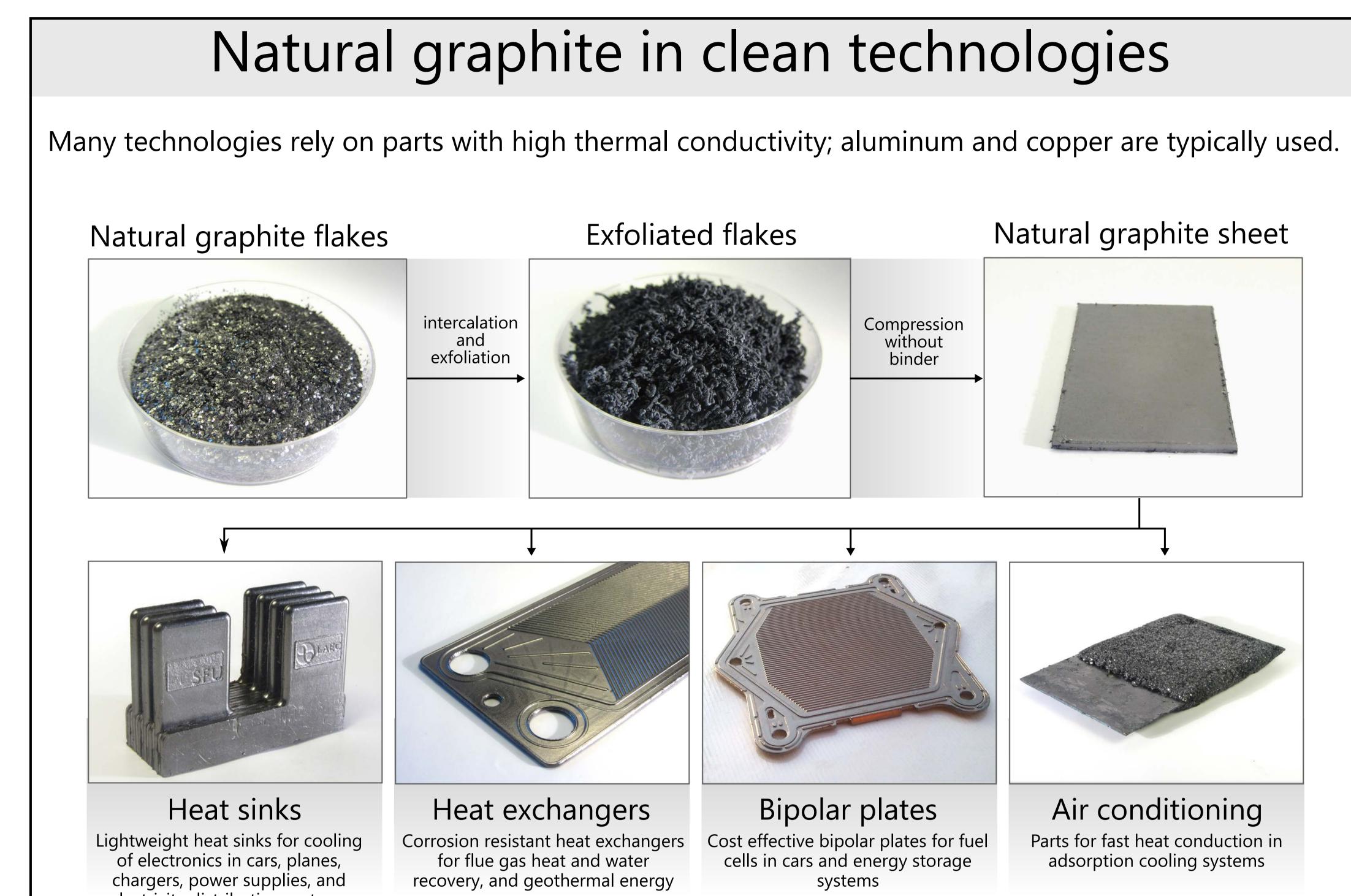


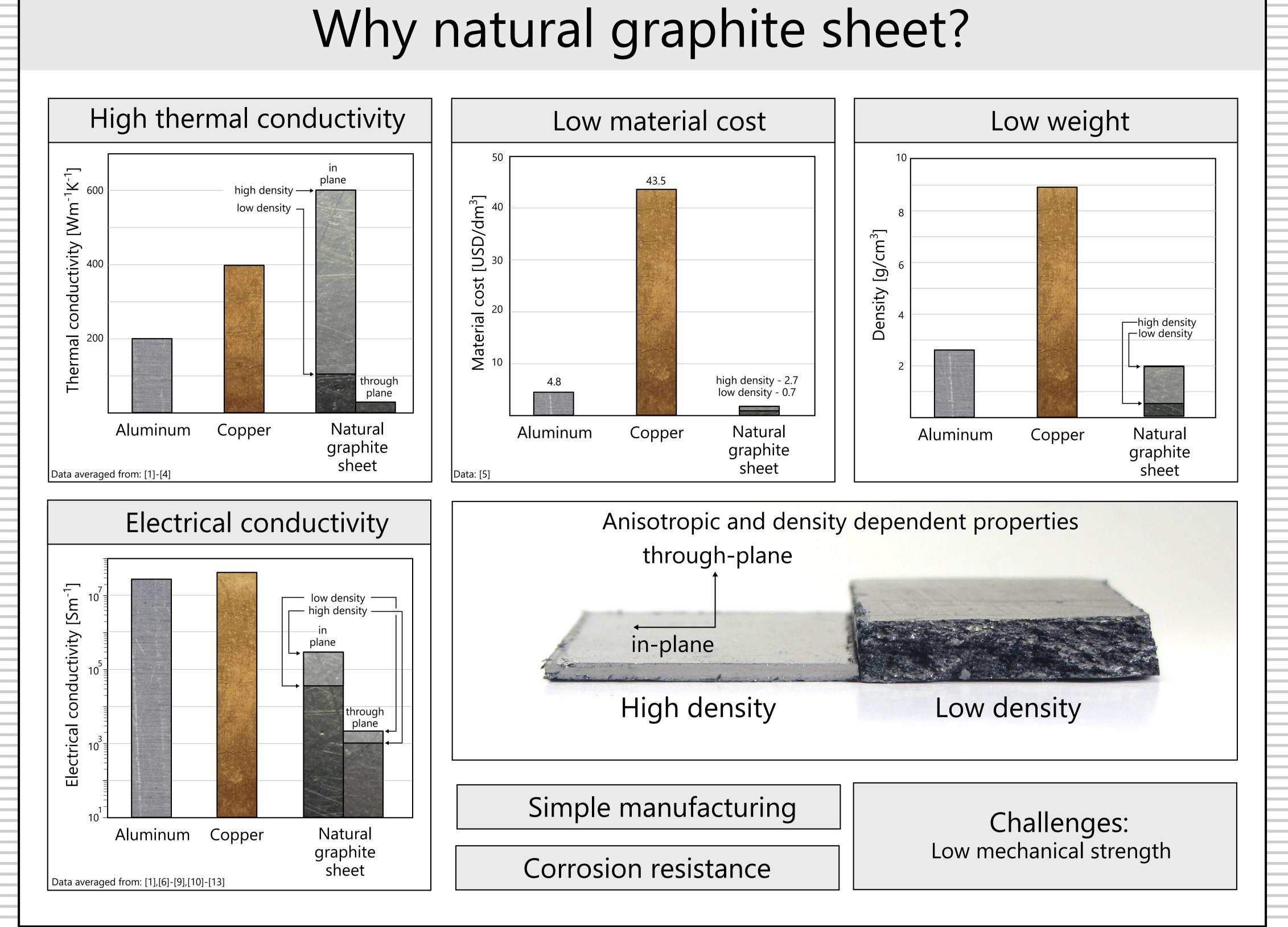


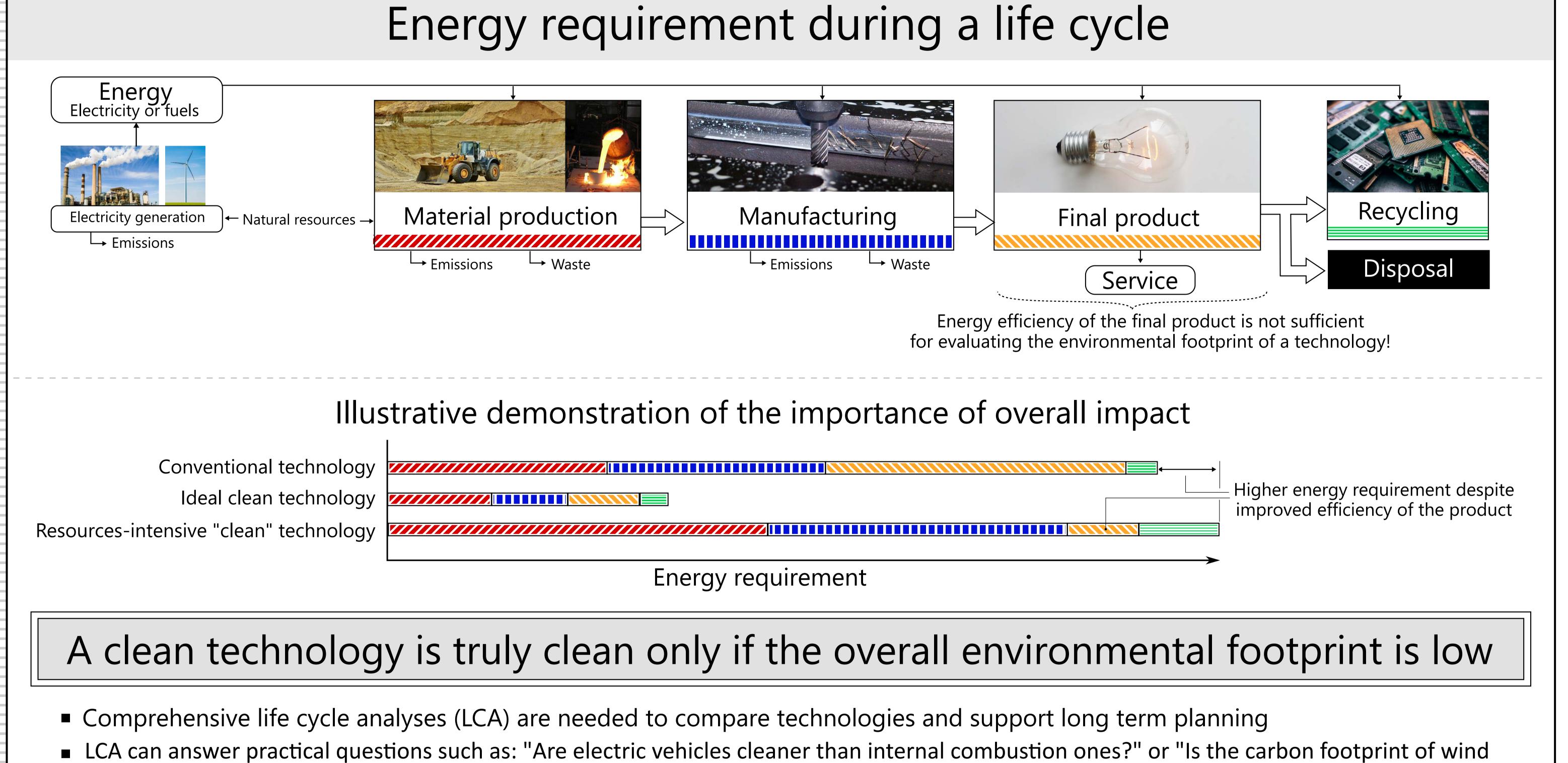
## Laboratory for Alternative Energy Conversion, School of Mechatronic Systems Engineering, Faculty of Applied Science, Simon Fraser University, Surrey, British Columbia, Canada Graphite in clean technologies: The importance of availability of material production data

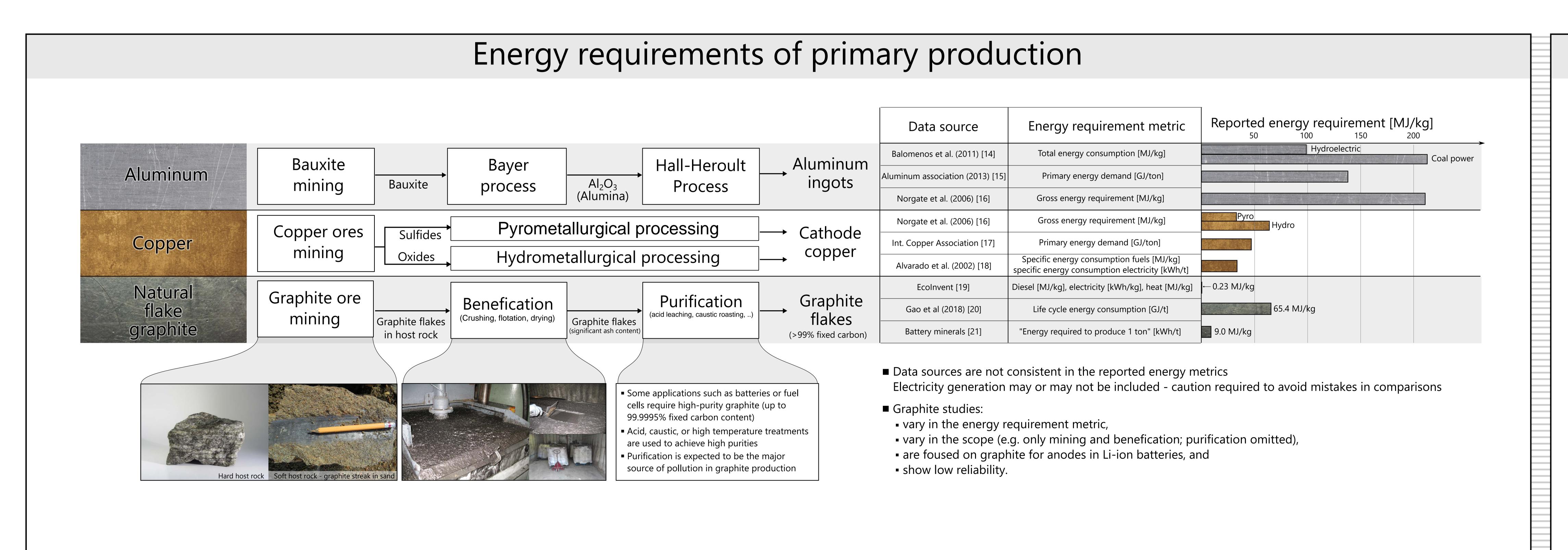












## Conclusions

turbines higher than that of coal power plants?"

- Assessing the overall energy requirement of a technology requires the material production data
- Material production data for natural graphite is limited and varies widely
- Interdisciplinary collaboration between the resource extraction, material processing, and technology development sectors is needed to perform reliable LCA studies
- Energy requirement is only one part of LCA; water requirement, waste production, emissions, and toxicity of effluents also have to be addressed

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