



Critical Materials Institute

AN ENERGY INNOVATION HUB

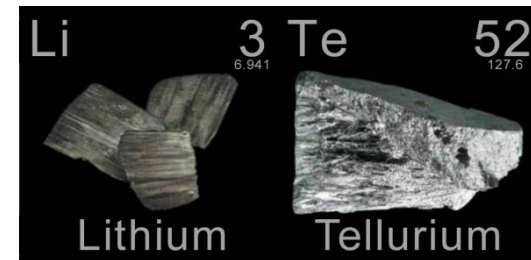
Working Models for Participation with CMI

Julienne Krennrich & Stacy Joiner



The Mission of CMI

To assure supply chains of materials critical to clean energy technologies,
enabling innovation in US manufacturing, and
enhancing US energy security.

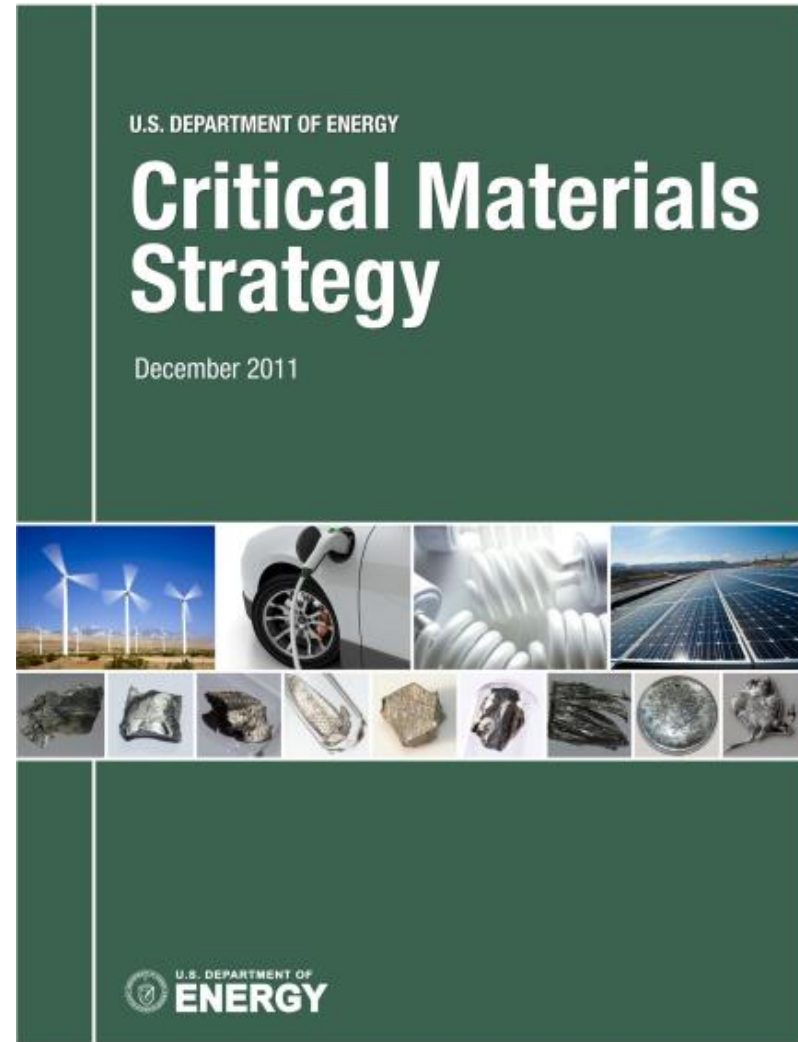


A three-pillared research strategy

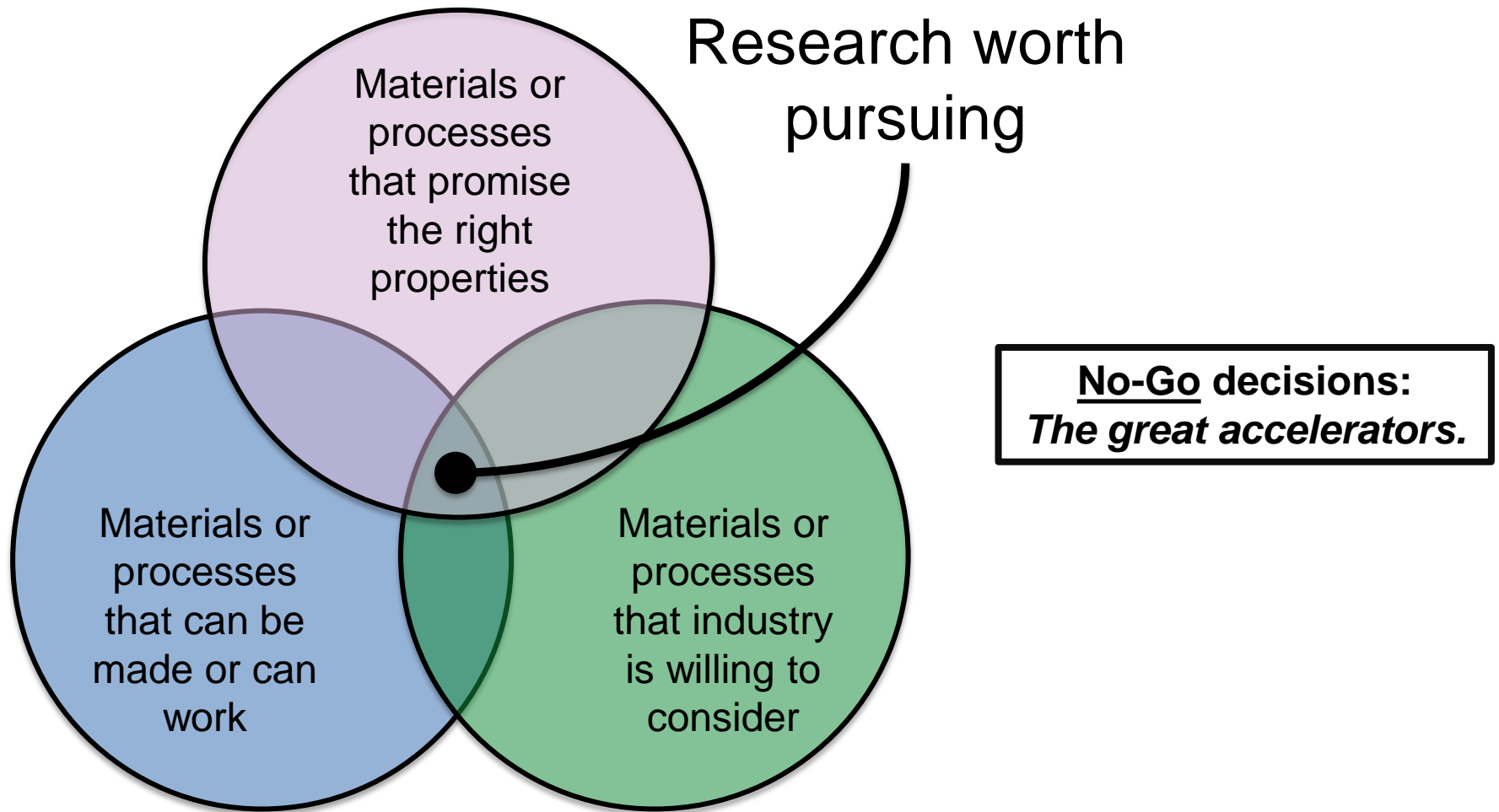
Find ways to:

- diversify our sources;
- provide alternatives to the existing materials;
- make better use of the existing supplies through recycling and re-use.

Some of these approaches work better than others for specific materials.



CMI's R&D / Project Selection Paradigm



Membership Modes

	Team Member	Affiliate	Associate
Funding commitment	Cash or in-kind contribution to CMI project(s)	Membership fee	SPP/CRADA with a Team Member = cash contribution to proprietary project
Intellectual Property	✓ [?]	<input type="checkbox"/>	Negotiated
Input to CMI research program	✓ [?]	<input type="checkbox"/>	<input type="checkbox"/>
Listed on CMI website	✓ [?]	✓ [?]	<input type="checkbox"/>
Annual Meetings	✓ [?]	✓ [?]	*
Newsletter/Webinars	✓ [?]	✓ [?]	*

* By request

Metrics Since Inception

Refereed publications:	235
Invention disclosures:	94
Patent applications:	50
Patents awarded:	6
Technologies licensed:	7

Strategic Involvement

- CMI works best with industry partners who have interests, capabilities that compliment CMI.
- CMI and its partners share a joint mission to positively assure US supply chains for US energy and industrial security.
- If we do that, CMI achieves its mission and supports its partners in delivering growth and value in the market
- We do more than just rare earths – CMI
 - Additional materials: Li, Co, Mn, Ga, In, Te, Platinum group metals, V, Graphite
 - Cross-cutting technologies like combinatorial chemistry, modeling properties of magnets, machine learning, artificial intelligence, roadmaps for technology development and deployment

Thank You!

Questions?

www.cmi.ameslab.gov

Julienne Krennrich – jmkrenn@ameslab.gov

Stacy Joiner – sjoiner@ameslab.gov

