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Move Over, Big Oil – Here Comes Big Shovel [Cognitive Dissidents](#)

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Jacob welcomes Tomás Villalón Jr. on the podcast to talk about the geopolitics of metals. Tomás is on CI's Innovation Advisory Board in addition to being CTO & Co-Founder at Phoenix Tailings – which means he will be a repeat guest. In this episode, Jacob and Tomás talk about the geopolitics of metals from the highest levels, setting the stage for future episodes on supply chain disruptions, technological developments, and the future of mining...which for better and for worse is the bedrock of human civilization.

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Timestamps:

(00:00) - Intro

(05:42) - Geopolitics of Mining

(13:30) - Comparing energy and mining?

(15:50) - Future of metals

(17:25) - Will steel continue to be the centerpiece of industrialization?

(18:10) - What minerals are important and why?

(24:10) - Does the US have the capabilities to nearshore our minerals?

(28:30) - Energy supply and security

(31:08) - Grid Reliability

(34:00) - Private/Public partnerships in Big Shovel

(37:00) - Scarcity and Demand

(40:00) - Copper Futures, can we make the shift?

(45:00) - Leaders in copper development

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Referenced In The Show:

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