

# Adamas Battery Day – Talon/Tamarack Update October 2021

TALON  
METALS CORP.





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# Talon- Tamarack Update – Q3 2021

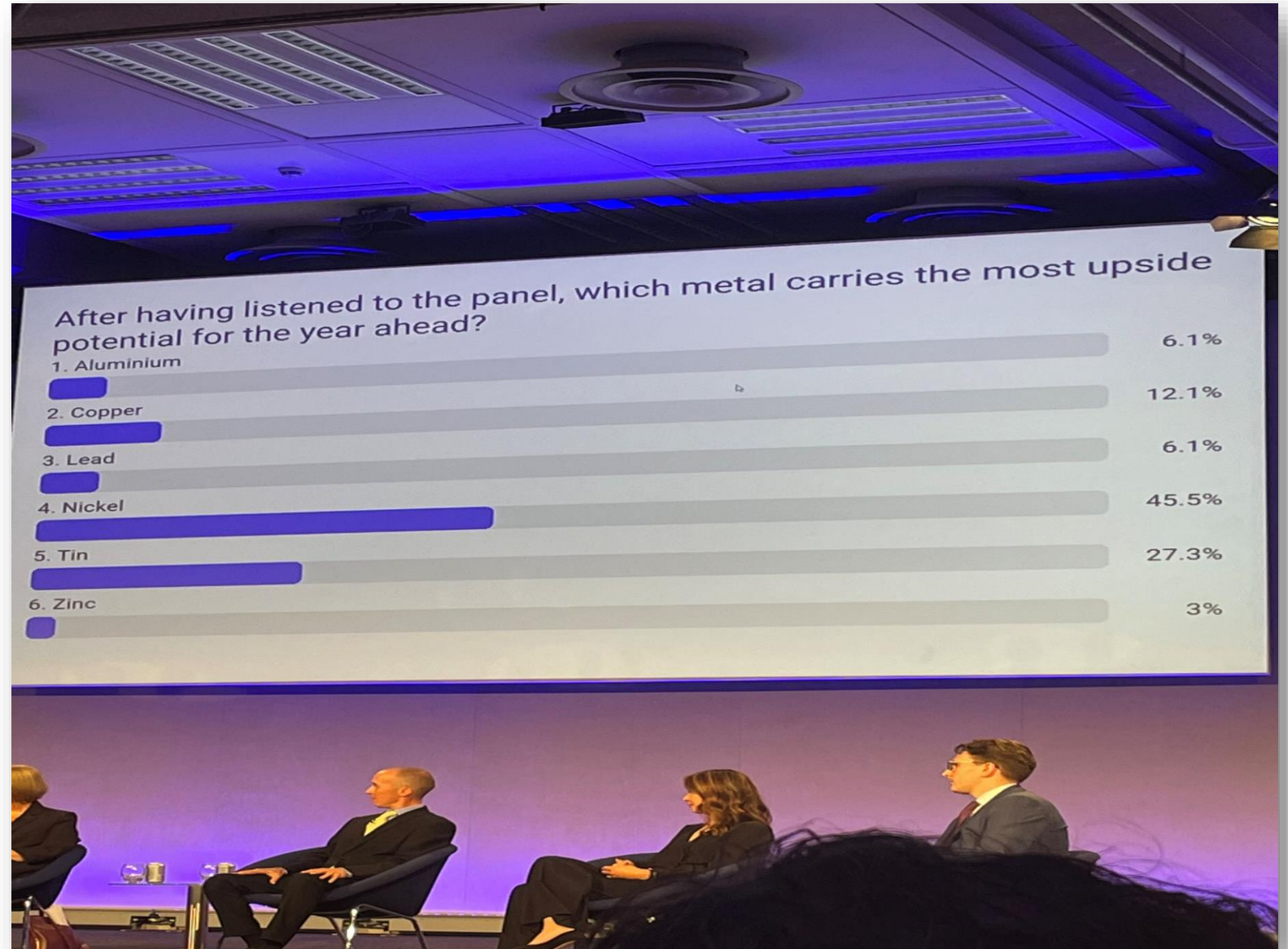
- ✓ Record nickel and copper grades drilled on the project
- ✓ Achieved over 27,000 meters of drilling this year with in-house drill crews.
- ✓ Became majority owner of the Tamarack Nickel Project in Q3
- ✓ Pallinghurst acquires a 19.2% stake in Talon from RCF – Now Two Leading Mining Investors in our share register (Pallinghurst/RCF)
- ✓ Collaboration with Carbon Capture Inc. to pilot their Direct Air Capture technology at Tamarack





# London Metals Week October, 2021– Nickel In Focus

- ✓ LME Week last week was all about the EV battery supply chain.
- ✓ Nickel was top of peoples minds all week
  - Competition of assets
  - Supply agreement drumbeat (Prony-Tesla, Terraframe-Renault).
  - Coming supply crunch seems to be consensus

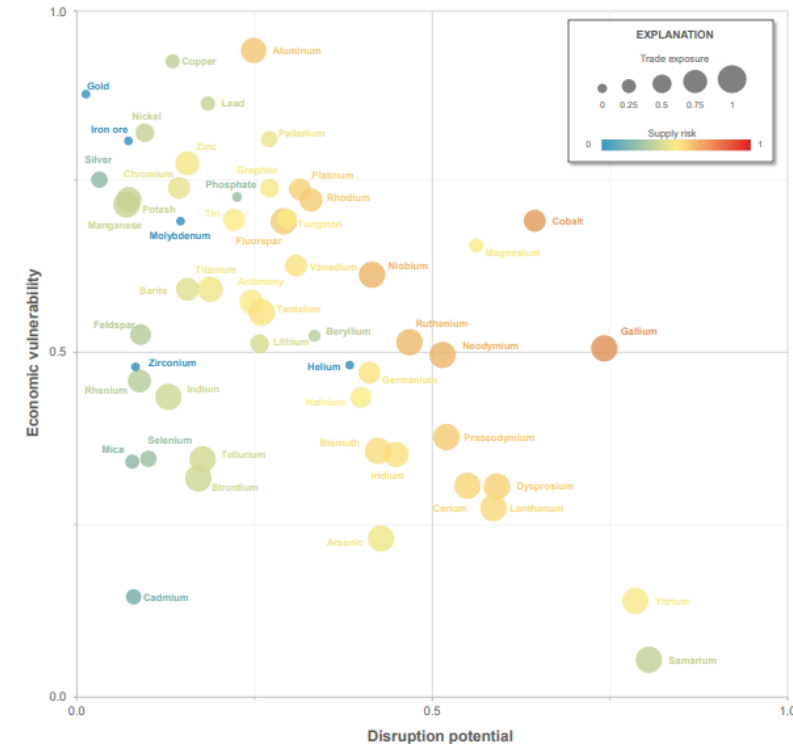


# Nickel set to be added to the critical minerals list

- ✓ USGS recently made the recommendation to add nickel to the list of minerals deemed critical for economic and national security by the Department of Interior
- ✓ *“Demand for nickel for use in lithium-ion batteries is currently only a small percentage of its total demand, but that demand is expected to grow markedly.”*
  - USGS report authors, Nedal Nassar and Steven Fortier



## Methodology and Technical Input for the 2021 Review and Revision of the U.S. Critical Minerals List



# H2 2021 Seeing Massive investment in North American EV supply chain

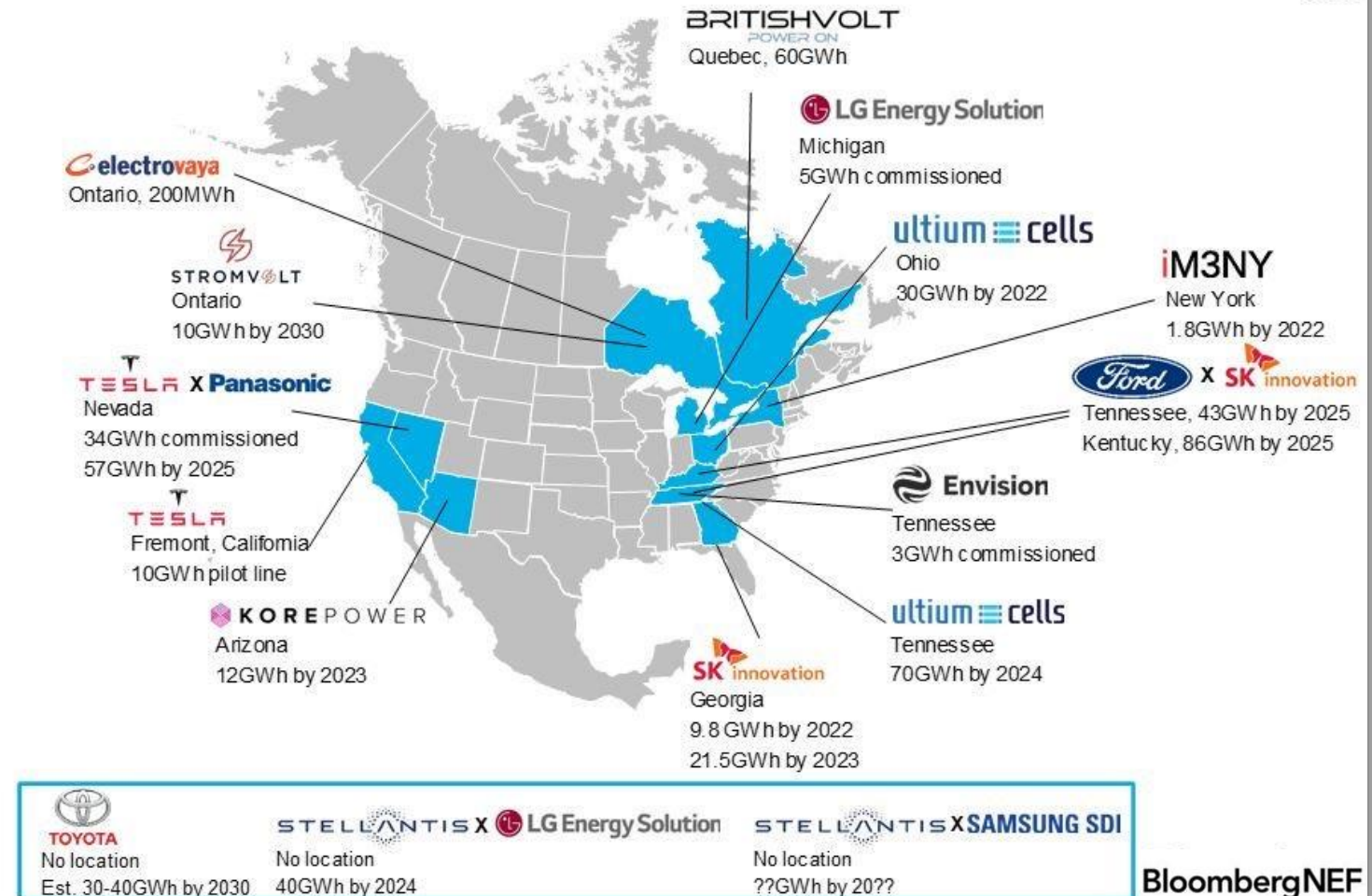
Proximity to market & resources is **KEY**

*"The best way to reduce the carbon footprint of minerals is to stop shipping them across 9,000 kilometers of ocean before you process them"* **Robyn Denholm – Chair, Tesla**

*"We have to bring battery production here, but the supply chain has to go all the way to the mines. That's where the real cost is and people in the U.S. don't want mining in their neighborhoods"... "We have to solve these things and we don't have much time"* – **Jim Farley- Ford President and CEO**

*"Toyota's commitment to electrification is about achieving long-term sustainability for the environment, American jobs and consumers,"... "This investment will help usher in more affordable electrified vehicles for U.S. consumers, significantly reduce carbon emissions, and importantly, create even more American jobs tied to the future of mobility."* - **Ted Ogawa- Toyota Motor North America CEO**

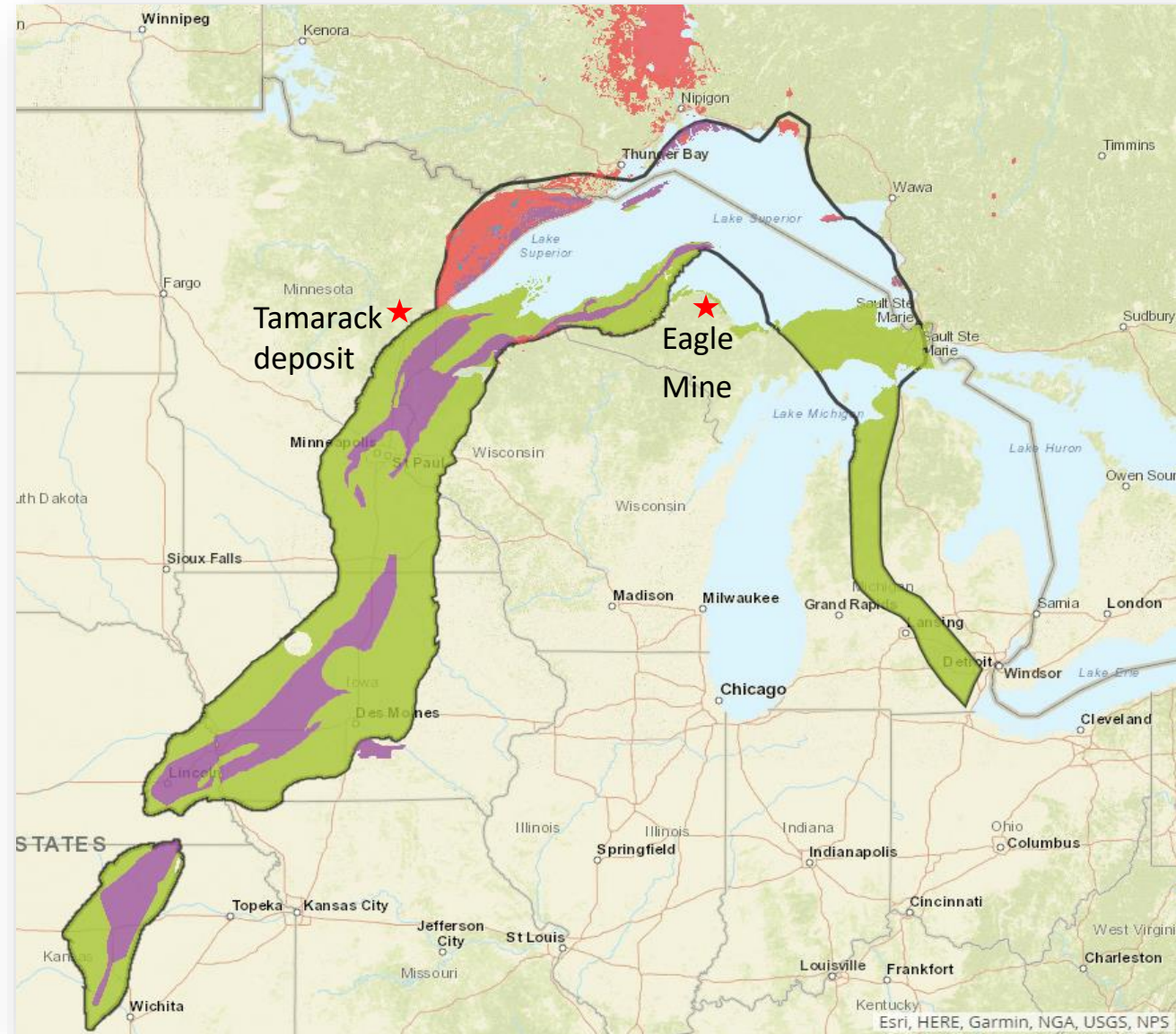
## Lithium-ion battery manufacturers in North America





# Mother Nature has a sense of humor: *95% of the US Nickel reserves are within a days drive of Detroit*

- ✓ Lake Superior Mid-continental Rift is the geological system that hosts 95% of US nickel reserves.
- ✓ Host of the two highest grade deposits in the US – Eagle and Tamarack
- ✓ US government, mining companies, OEMs and states need to have another look at how to access these resources and rethink permitting timelines.





# Congress Advancing Critical Mineral Funding & Biden Administration Focused on EV Battery Supply Chain



- ✓ Recognition in US government that Eagle Mine is the only US producing mine and slated to close 2026
- ✓ Nickel supply and processing top of priority list
- ✓ Talon and Rio Tinto have engaged with USG officials
- ✓ Infrastructure bill targets critical minerals supply with \$3B in grant funding for battery materials processing



## Column: A nickel refinery tops U.S. battery metals wish list: Andy Home

LONDON, June 14 (Reuters) - The United States government should invest in nickel refining capacity in coordination with its allies, according to the Biden Administration's 100-day review of critical supply chains.

### What the infrastructure deal means for energy

By E&E News staff | 07/30/2021 06:29 AM EST



# Traceability: Market is moving towards materials tracing

## NET ZERO ROADMAP

for Copper and Nickel



The global transition to a low carbon economy is mineral intensive. To achieve a 1.5°C scenario the demand for copper is estimated to grow by 12x and nickel by 16x. As part of the World Bank Group's Climate Smart Mining Initiative, IFC's Net Zero Roadmaps for Copper and Nickel helps mining companies decarbonize their operations and value chains in line with Paris Agreement.

The core roadmap includes

- 1 A technology transition roadmap
- 2 An enabling environment roadmap



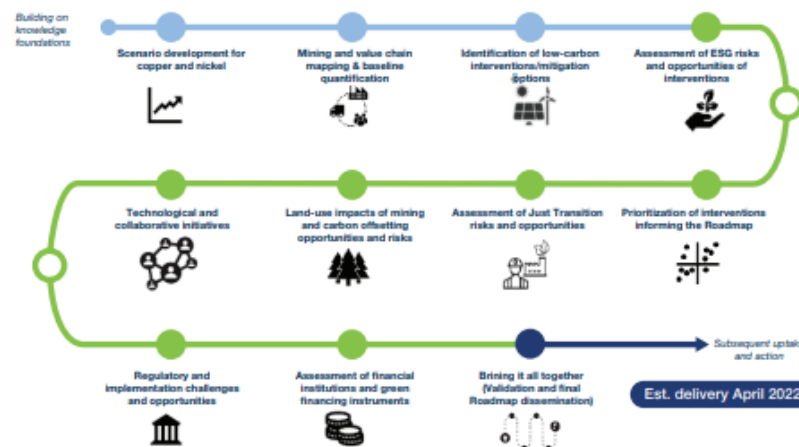
The roadmap focuses on the renewable technology value chains of copper and nickel, including their -



### Roadmap Highlights

- 1.5°C ALIGNED
- CONSIDERS THE VALUE CHAIN
- TECHNOLOGY FOCUSED
- CONSIDERS ENABLING FACTORS
- SIMPLE AND ACCESSIBLE
- CONSULTATIVE

### Roadmap Components



### Delivery Partners



### World Bank Group's Climate Smart Mining (CSM) Initiative

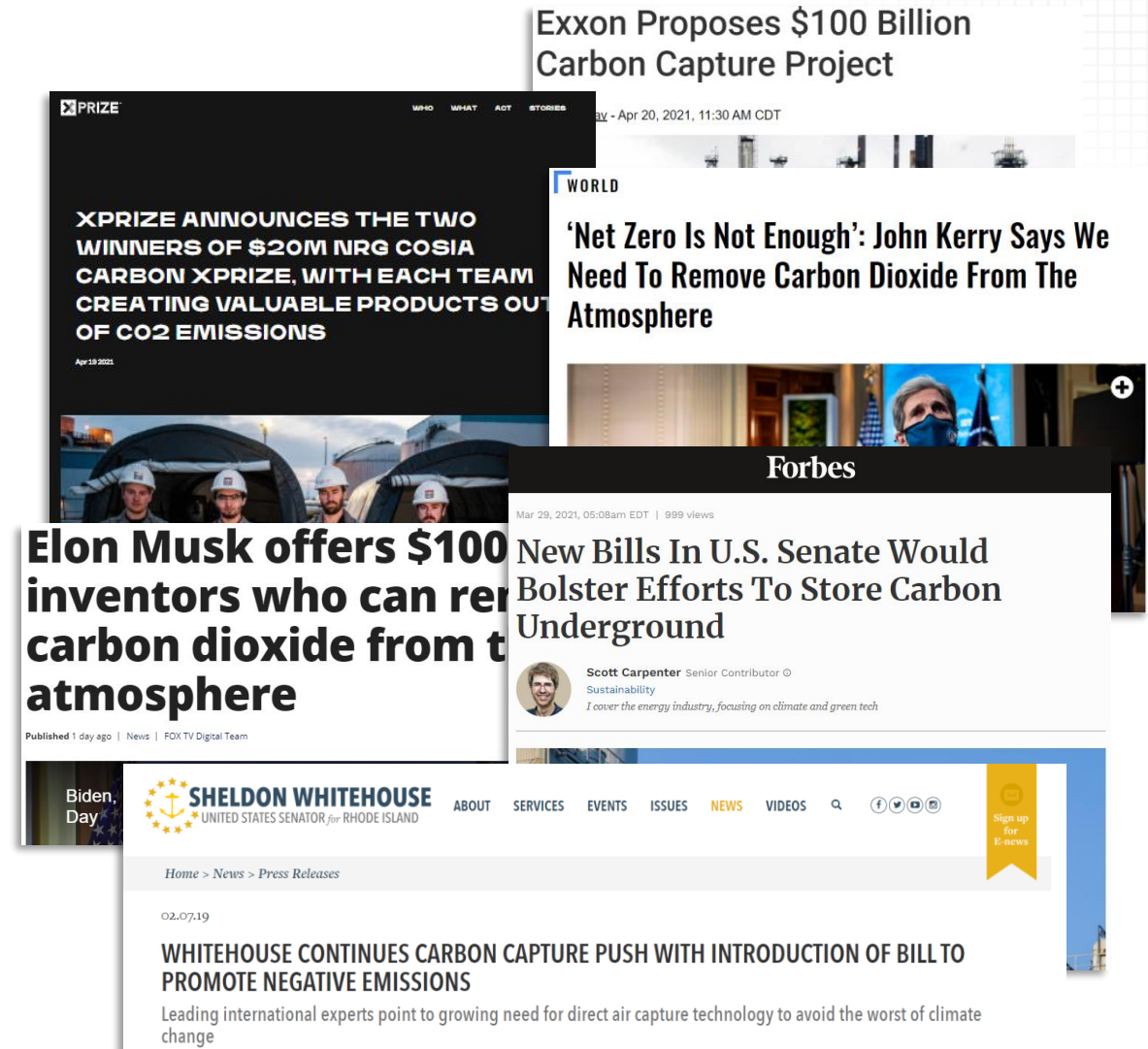
CSM supports the sustainable extraction, processing and recycling of minerals and metals needed to secure supply for low-carbon technologies and other critical sectors by creating shared value, delivering social, economic and environmental benefits throughout their value chain in developing and emerging economies.

For further information, contact Arjun Dhalla at [abhatta@ifc.org](mailto:abhatta@ifc.org), or the project team at [NZR4M@carbontrust.com](mailto:NZR4M@carbontrust.com)



# Carbon sequestration & negative emissions is a top priority for the Biden Administration

- ✓ Rapid escalation of government and corporate commitments to net-zero/negative emissions can be seen throughout the industry supply chain
- ✓ Funding opportunities and policy incentives for the development of CCU/S technology are on the rise
- ✓ Voluntary net-zero commitments have created a market for carbon sequestration projects
- ✓ Further support is seen in the new infrastructure bill proposing billions in grant funding for CCUS





# Direct Air Capture technology to be tested at Tamarack

“A California startup that aims to suck carbon dioxide from the atmosphere announced \$35 million in new investments today from a coalition that includes Rio Tinto PLC, the world’s second-most valuable mining company.”

“Carbon Capture Inc., which launched in 2019, also revealed plans to establish a pilot program for capturing airborne CO<sub>2</sub> with van-sized units at a nickel mine being developed in northern Minnesota by Talon Metals Corp. and Rio Tinto.”

