

# IECC-2023

# Global Commodity Forecast: Emerging Countries Critical to Tomorrow's Demand

# Geordie Mark

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#### Geordie Mark

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#### **GLOBAL COMMODITY FORECAST**

- 2023
- Gold:
- Copper:
- Nickel:
- Uranium:

- US\$1,900 per ounce
- US\$3.75 per pound
- \$10.00 per pound
- \$63 per pound

But there's more to the picture than a number

So let's look at the pathway to the future



**OVERVIEW** 



# A NEXUS TO THE FUTURE Exciting Times: positioning for tomorrow

- Exited(ing) COVID Cloud
- Near Zenith Central Bank Rates

MACRO OUTLOOK

- Energy Diversification and Surety
- Technology Transcendence
- Automotive Fuel Cycle Electrification



### **METALS DEMAND: AN EVOLVING MOSAIC**



MACRO OUTLOOK

• Predicated on Global Demand Mix

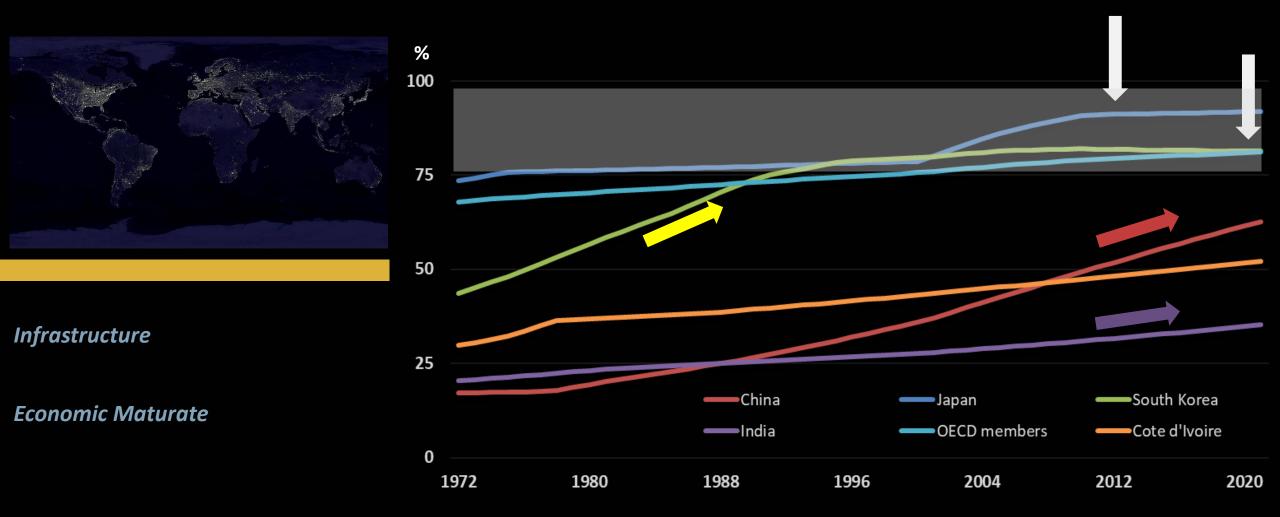
 Evolve and Transend Current Socioeconomic and Urban Patterns of Consumption and Output

### **Tomorrow's Demand Picture**

- Urbanization
- Paradigm Changes: Consumption



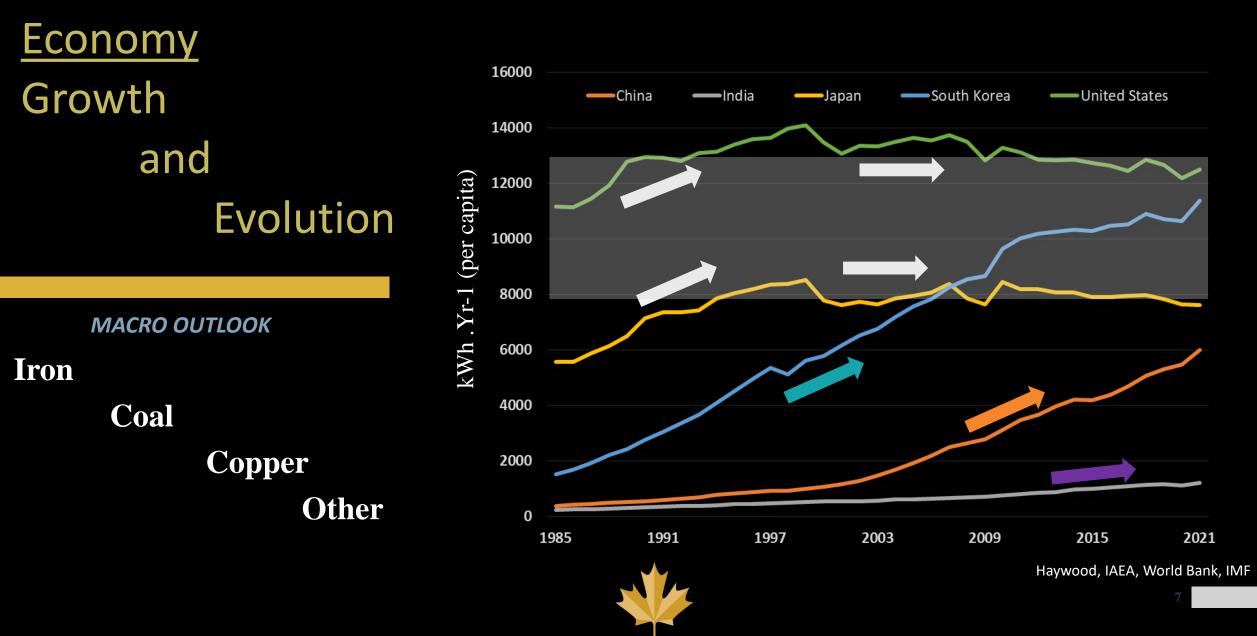
#### URBANIZATION



Haywood, World Bank, IMF

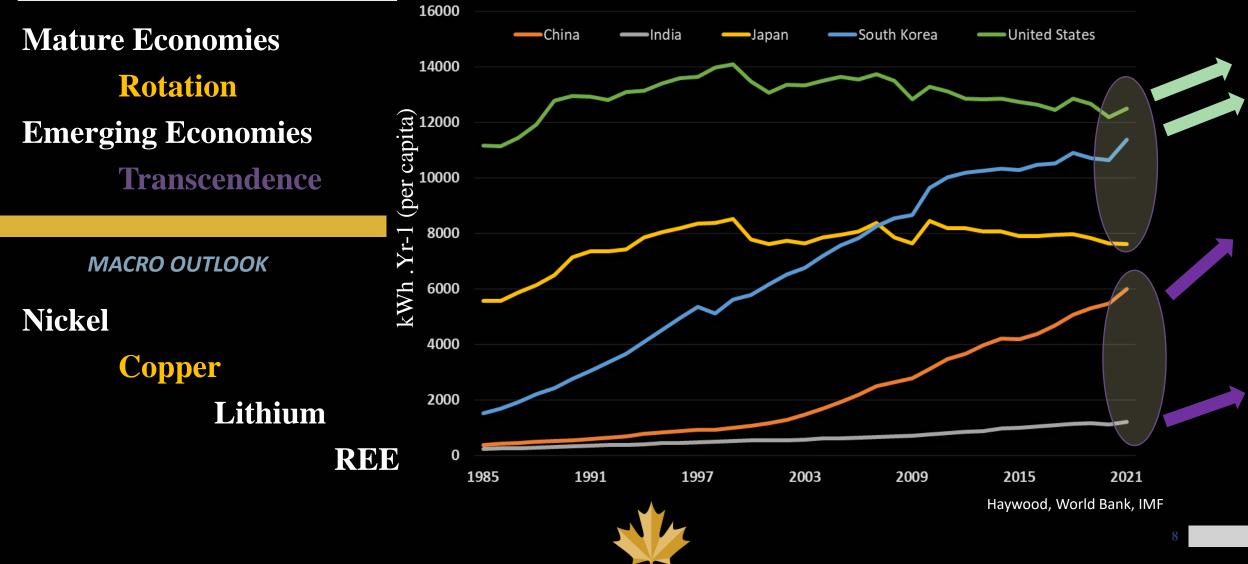


#### **ELECTRICITY DEMAND**



#### **METALS DEMAND: ENERGY SOURCE ROTATION**

### **EV and Renewables**



#### **METALS DEMAND: LOWER EMISSIONS FUTURE**



Supply and Source Diversification <u>Essential</u>  Rotation in Supply and Use
 A New Energy and Emissions Outlook
 <u>Now</u> <u>Future</u> Coal Renewables

Nuclear (Fission) Renewables Nat. Gas <u>Future</u> Renewables Nuclear (Fission) Nat. Gas Coal Nuclear (Fusion?)

Incremental EV Uptake: Units and Infrastructure



#### **METALS DEMAND: LOWER EMISSIONS FUTURE**



#### Enabling the Future: Paradigm Shift

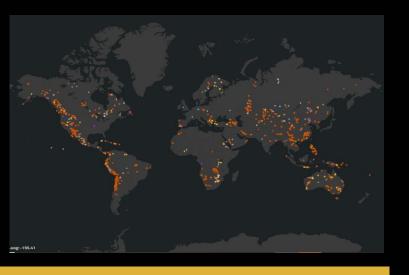
- Critical Metals (e.g., Ni, Cu, Li, REE) Essential
- Promise of Tomorrow just Doesn't Happen
- Need Tangible, Long-term Growth in Supply



### **METALS DEMAND: INVENTORY VS DISCOVERY**







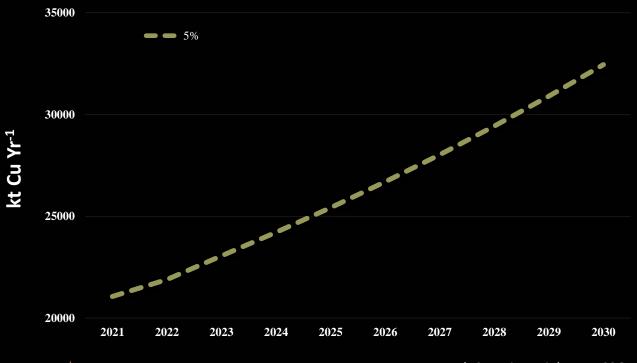
Supply...

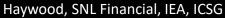
**Exploitable Copper Deposits are** rare!

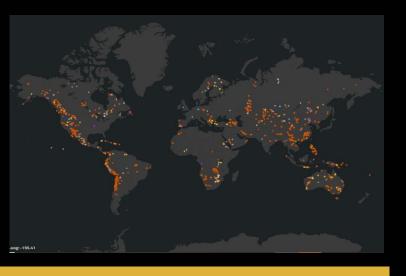
Many factor impinge on development

#### **Enabling the Future**

- Copper Deposits are Everywhere
- Risks: Economics, Permitting, ESG, Timing

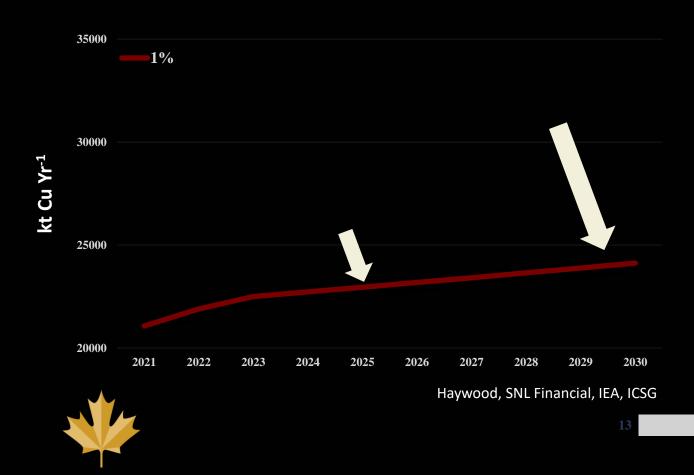


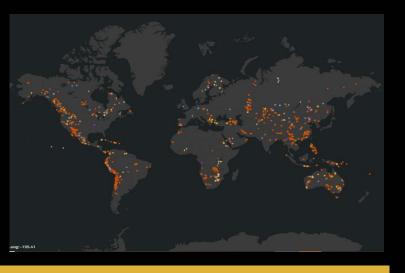




Copper Supply A more likely scenario (~1% CAGR) **Enabling the Future** 

- Stilted Supply
- Needs Catalyzing

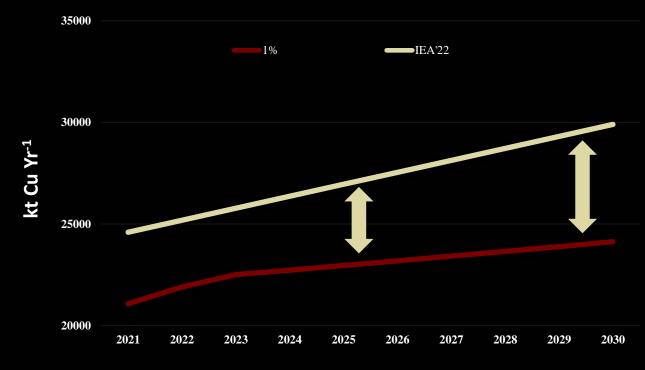




Copper Demand (IEA'22: 1.5% CAGR)

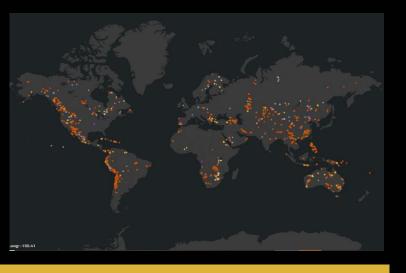
#### Enabling the Future

- Coupled Urbanization
- EV uptake



Haywood, SNL Financial, IEA, ICSG

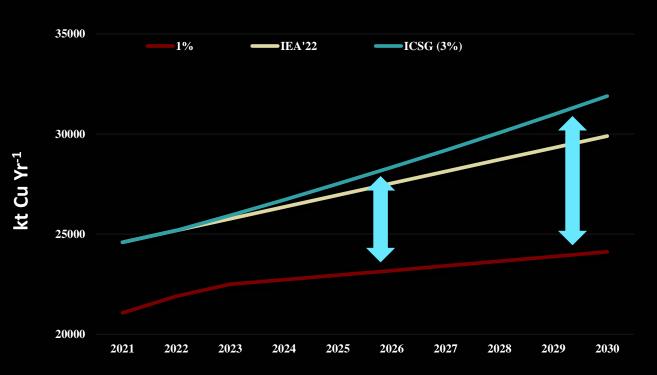




Copper Demand (ICSG, 3% CAGR)

## Enabling the Future Unlocking Supply

#### **Unlocks** Demand

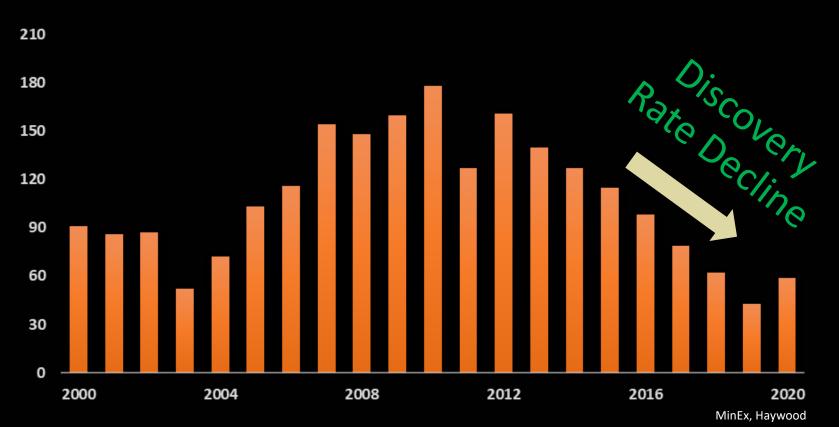


Haywood, SNL Financial, IEA, ICSG



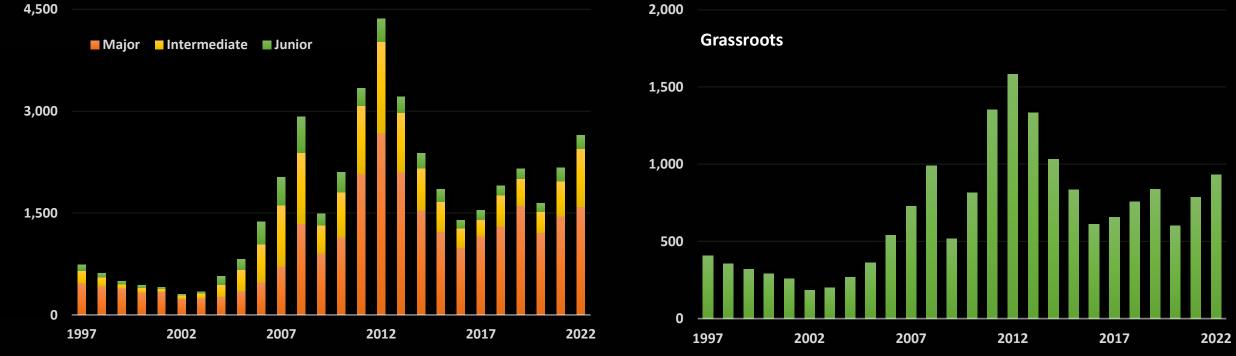
#### **METALS DEMAND: WE NEED DISCOVERY**







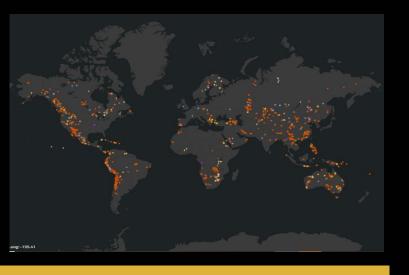
#### **METALS DEMAND: WE NEED DISCOVERY**



SNL Financial, Haywood



#### **METALS DEMAND: OPPORTUNITY**



- Go Where the Rocks Are
- Opportunity for Emerging Countries
- Framework, Stability and Time

