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# REAN

Strategic Partnerships for Namibia to become the next major rare earths producer

# Introduction & Overview of Global REE Market

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## Global REE Deposits:

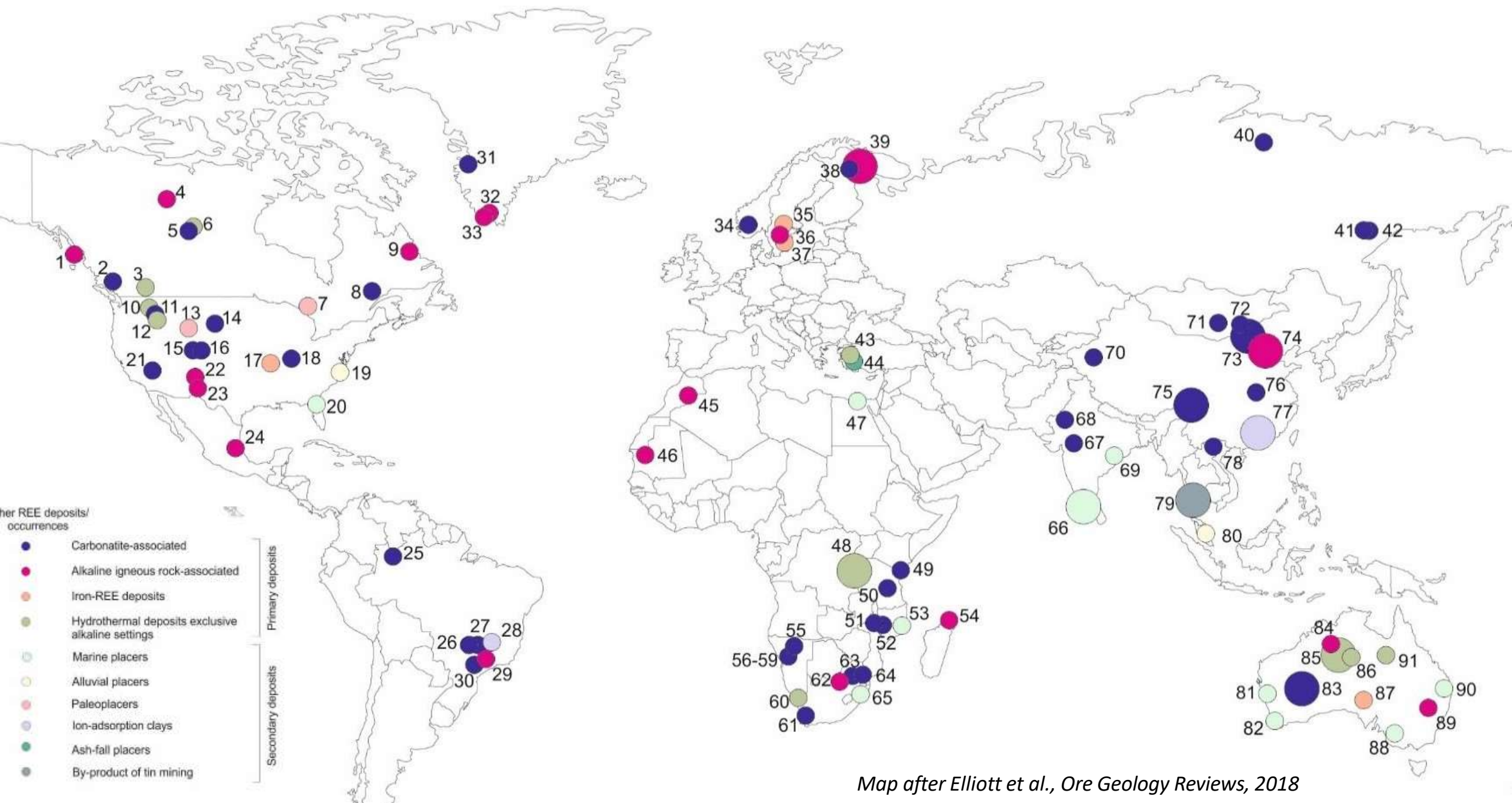
- Plenty available but challenges to bring them to market
- Logistical Challenges:
- Remoteness
- Challenging mineralogy
- High capital expenditure (CAPEX)
- Radioactivity

## Current Projects:

- Limited and conventional
- Known mineralogy, well-funded, established

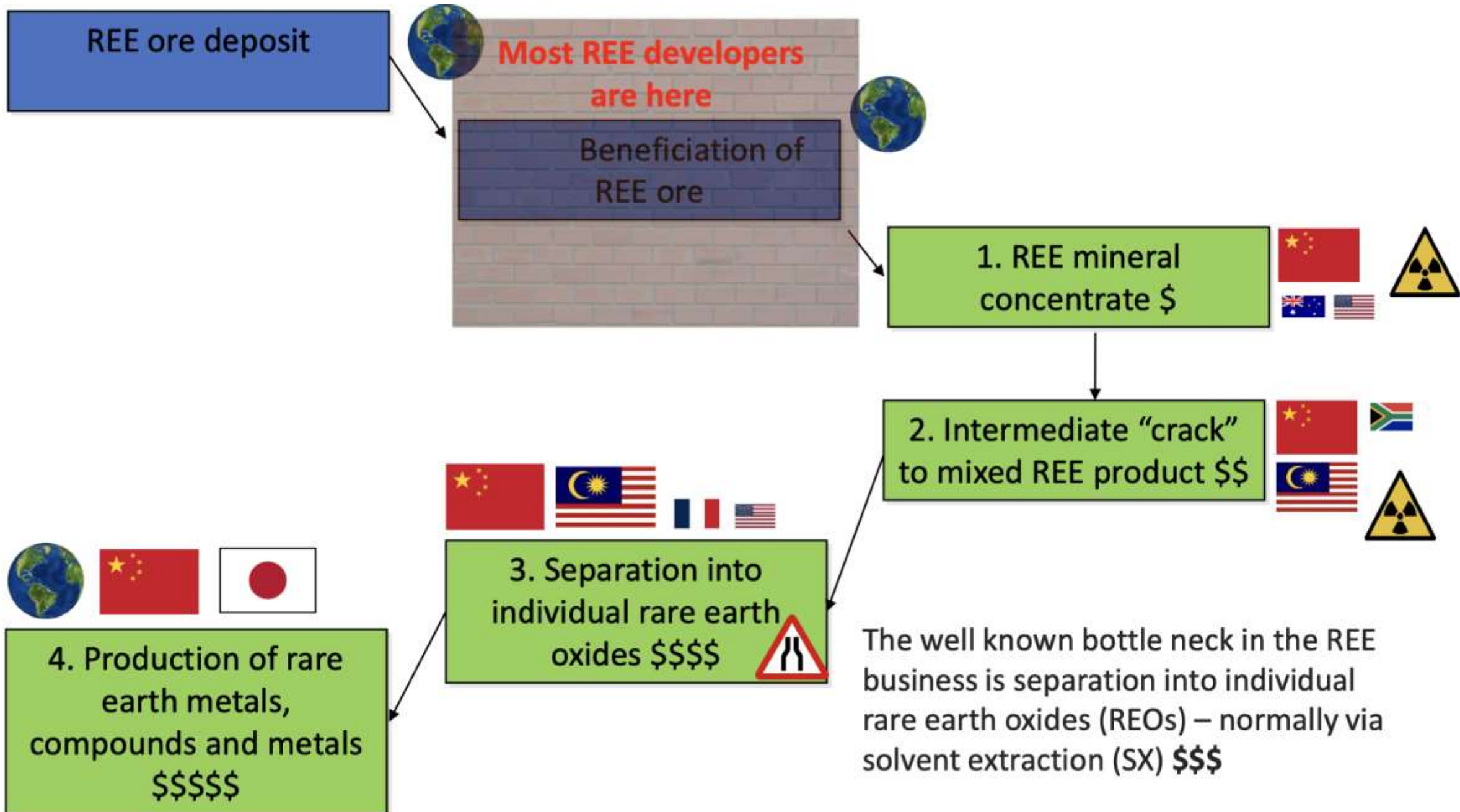
## Major Bottleneck:

- REE separation into individual oxides (REOs)
- Typically via Solvent Extraction (SX) and controlled.

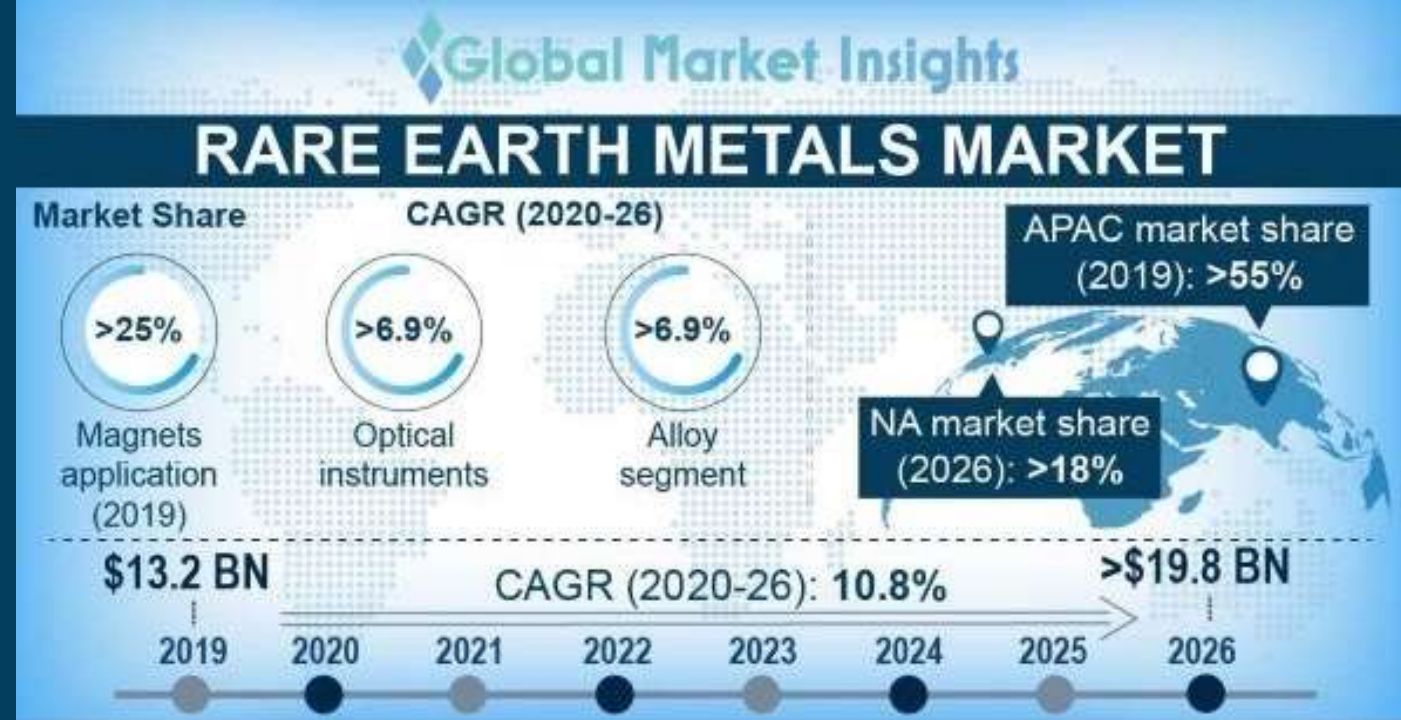


Map after Elliott et al., Ore Geology Reviews, 2018





# REE Energy Metals Market Value



### REE METALS MARKET

**\$20b**

Nearly doubling in the next 5 years

### REE MAGNET DEMAND

**+50%**

Demand increase in the next 5 years

The drivers are found in the strong demand ramp-up for

**ELECTRICAL EV MOTORS & WIND TURBINES**

### GLOBAL REE METAL & MAGNET SUPPLY

**+80%**

Will still come from China

### GLOBAL REE ORE MINING & PROCESSING

**+60%**

Will remain to originate from China



### Rare earth deposits

- ★ China RE region
- ☆ operating
- project

### Primary REE trade flow by ore origin

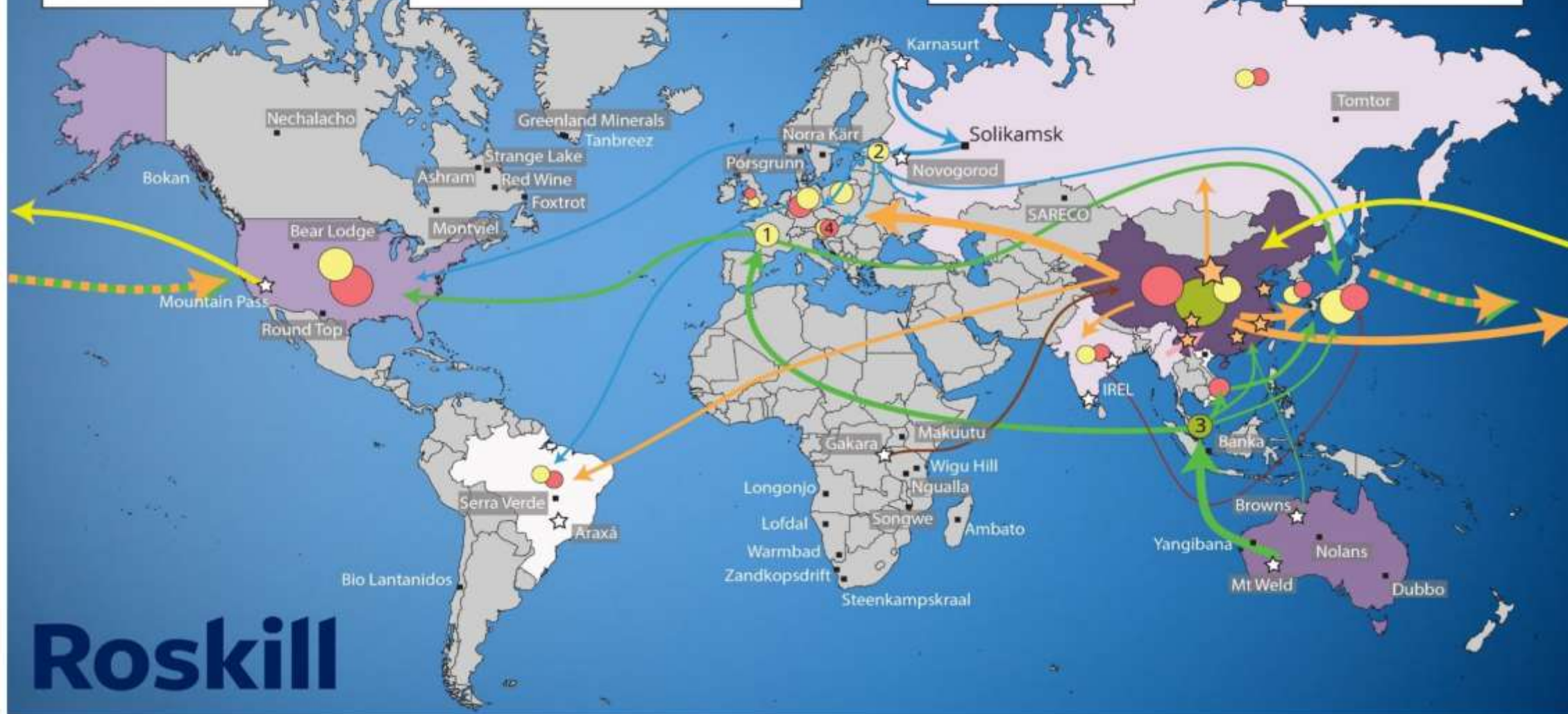
- |           |         |
|-----------|---------|
| China     | Russia  |
| Australia | Burundi |
| USA       | India   |
| Myanmar   |         |

### RE importer of...

- Ore & concs.
- Ce compound
- other REs

### RE refiners

- 1- Solvay (France)
- 2- Silmet (Estonia)
- 3- LAMP (Malaysia)
- 4- Treibacher (Austria)



# Roskill

# Brief Introduction & Objectives of REAN

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## Introduction:

- Strategic alliance between E-Tech Resources Inc., Namibia Critical Metals Inc., and Ondoto Rare Earth (Pty) Ltd
- Aims to establish a REE midstream processing facility in Namibia.

## Objectives:

- Jointly assess viability for a midstream processing facility
- Increase local value by reducing export of raw materials
- Build a sustainable facility
- Foster technology transfer, employment, and skills development

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# Vison of REAN

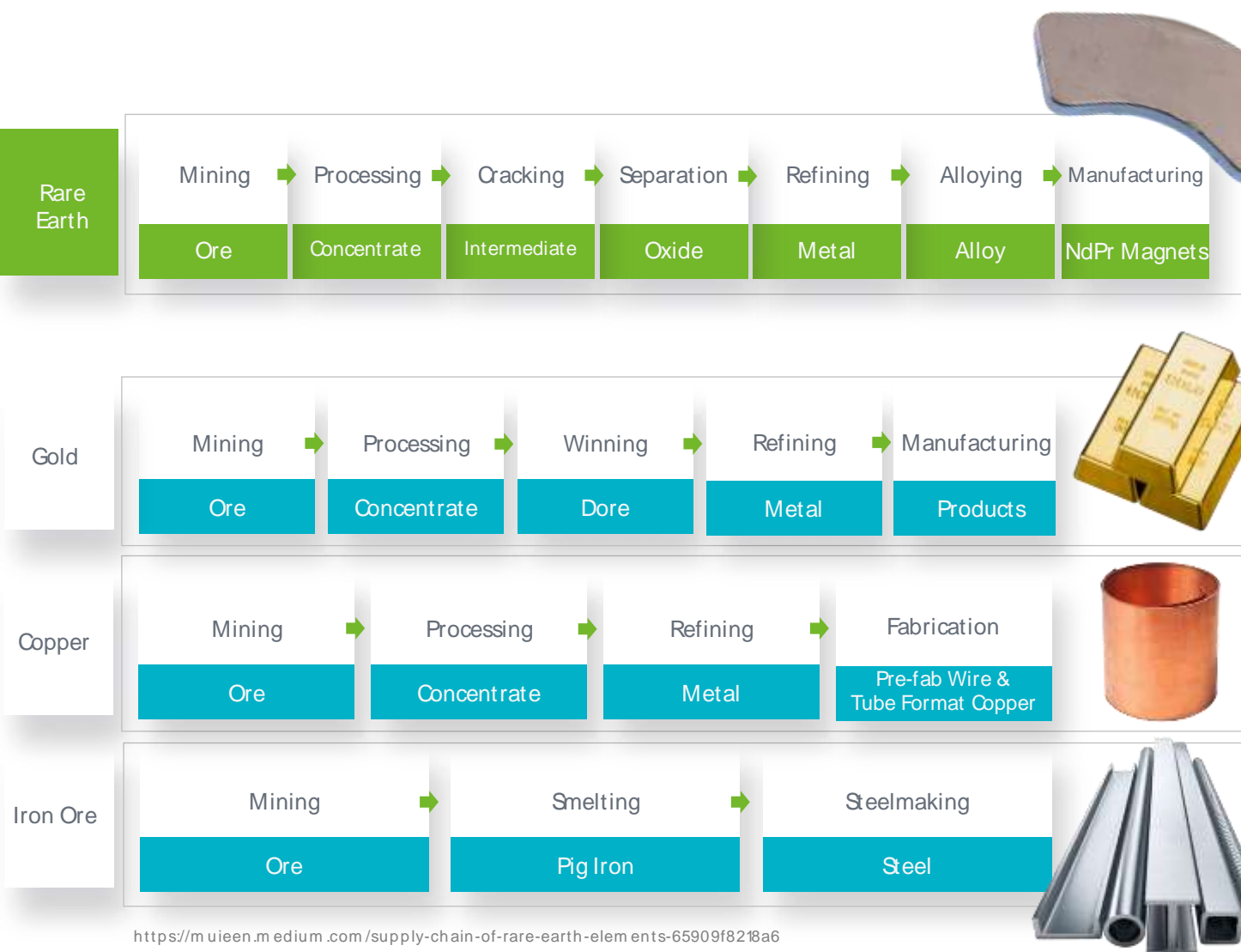
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The vision of REAN is to add substantial value to Namibia's mining sector by:

- Processing REE concentrates into higher-value products.
- Building sustainable partnerships for all stakeholders.
- Minimizing the export of raw materials in their concentrate forms.
- Generating local employment.
- Enhancing skill development in the Namibian mining and processing industry.

By achieving this vision, REAN aims to propel Namibia into a leading position in the rare earth industry, fostering technology transfer and spurring economic development in the country.





<https://medium.com/supply-chain-of-rare-earth-elements-65909f8218a6>

OPPORTUNITIES IN THE

# Value Add Steps.

I

Compared to other Raw Minerals  
The REE processing chain is quite complex.

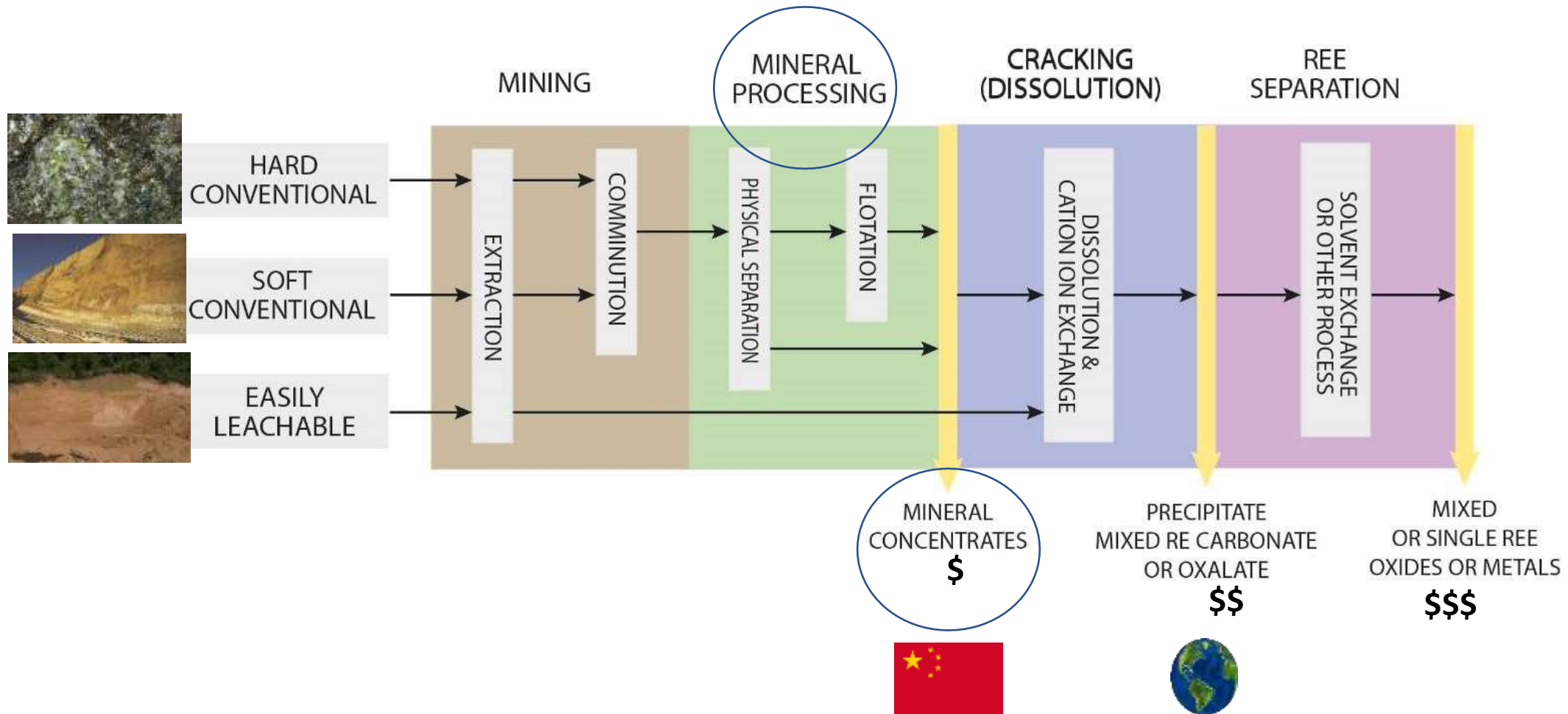
II

REE Value Add Levels  
REE processing chain levels are not very transparent and not geographically de-risked

III

Opportunities  
This can offer upside opportunities for early investors and traders.

# Summary of REE processing routes



# **Scope of REAN – short term**

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Conduct Feasibility Study: Assess potential supply, facility sites, infrastructure, and regulations.

Develop Business Plan: Include market analysis, financial model, risk assessment, and implementation plan.

Funding: Secure financing from lenders and investors.



# REAN Benefits & Action Plan

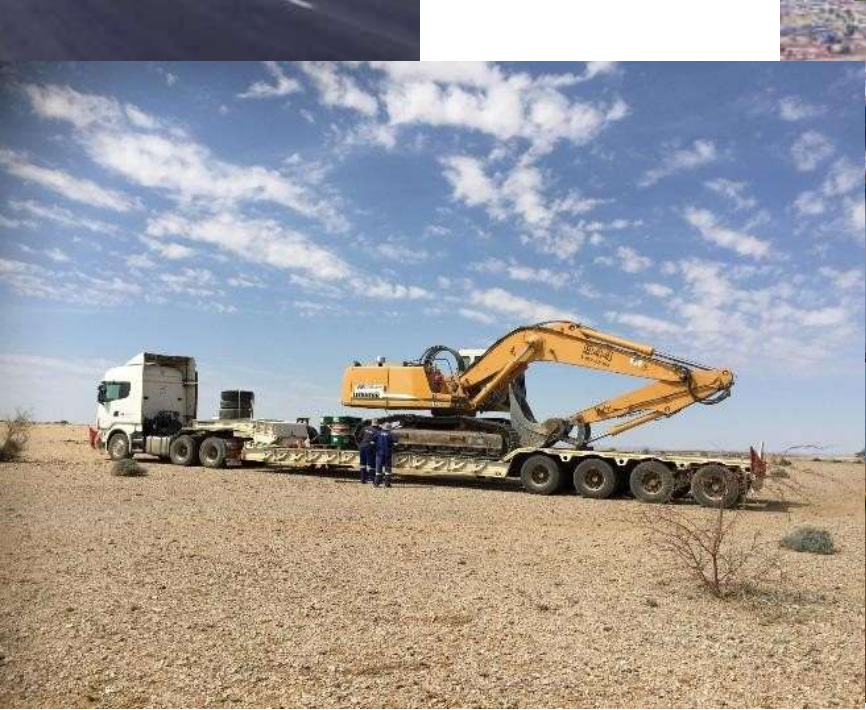
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## Stakeholder Benefits:

- Contribute to Namibia's national and sustainable development goals
- Shared expertise and resources
- Reduced risks and costs
- Access to new markets
- Increased value and profit margins

## Action Plan:

Begin scoping study for REE separation plant with Carester (Started very Positive!)





**Thank You!**