

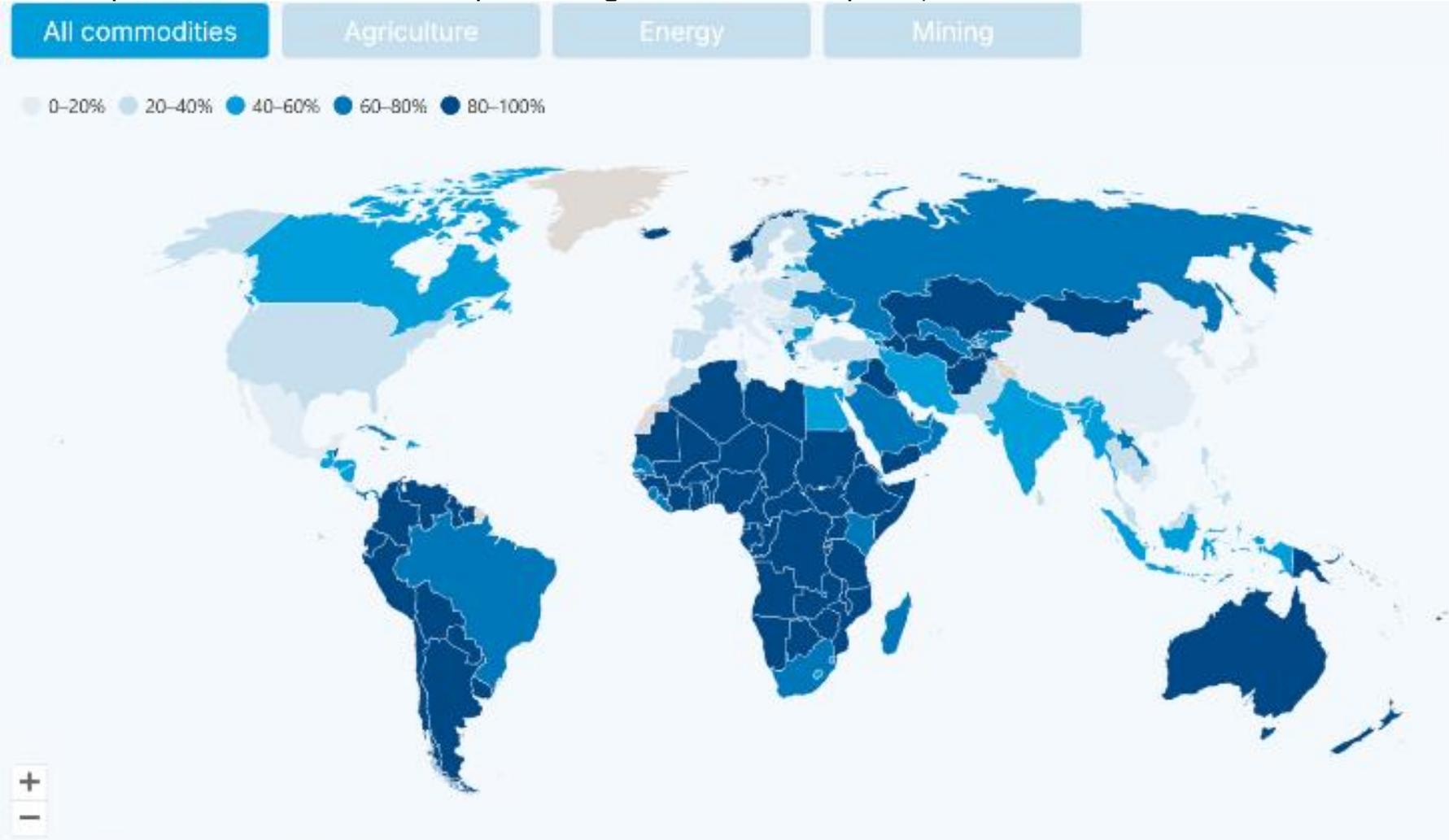


**Rapid assessment of value  
addition and diversification within  
and beyond the critical energy  
transition minerals value chain:  
Namibia**



# Commodity dependence remains a critical issue for Namibia, as for most developing countries

Export of commodities as a percentage of the total exports, 2021-2023

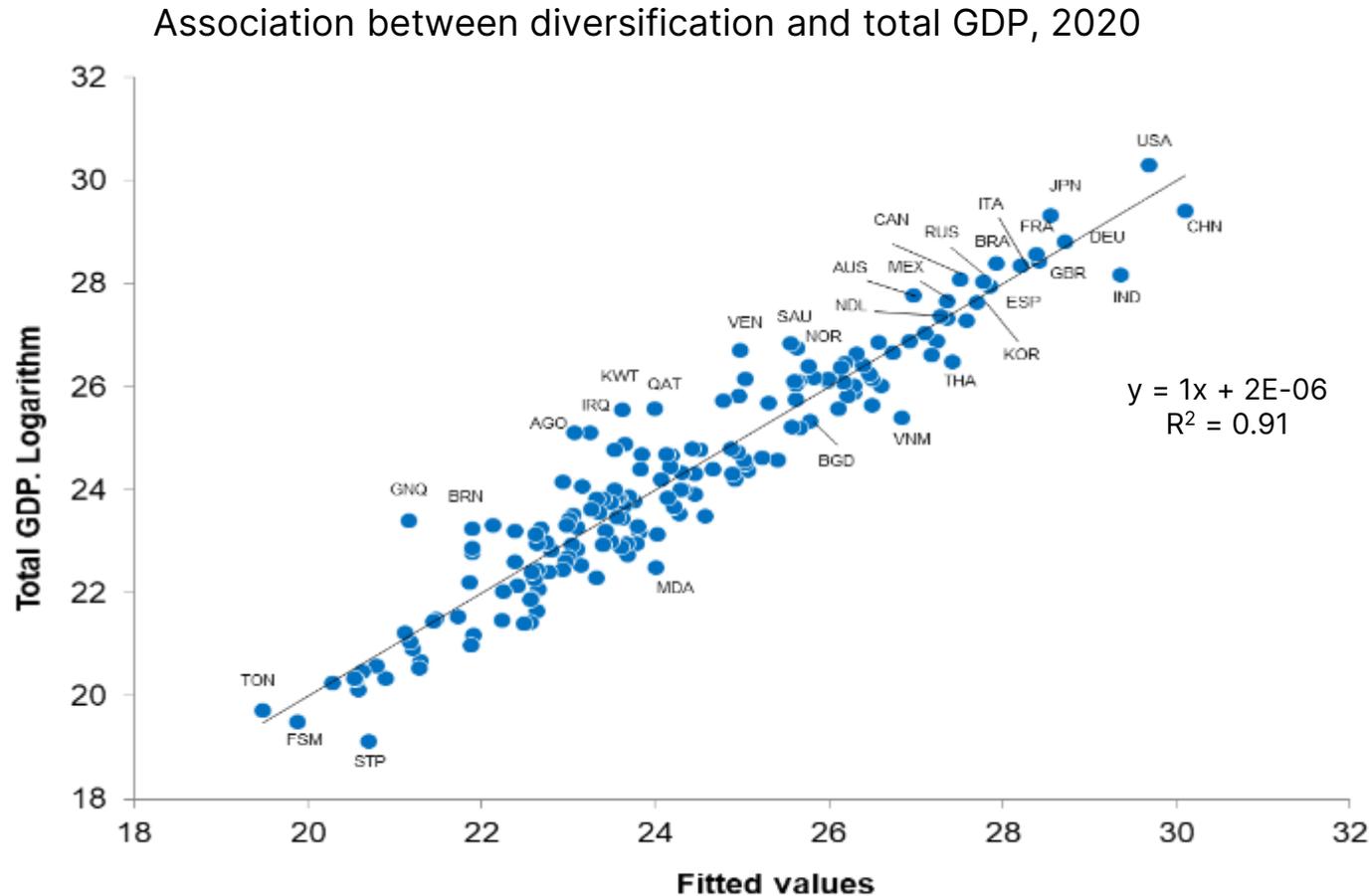


Source: UN Trade and Development (UNCTAD), 2025  
Note: Data in light grey are not available. [Map disclaimer: https://unctad.org/map-disclaimer](https://unctad.org/map-disclaimer)





# The higher the Diversification, The higher the total GDP



Diversification explains

**71%**

of the variation of  
**total GDP** between  
countries

**Diversification** + Average  
**complexity** + Labor force size

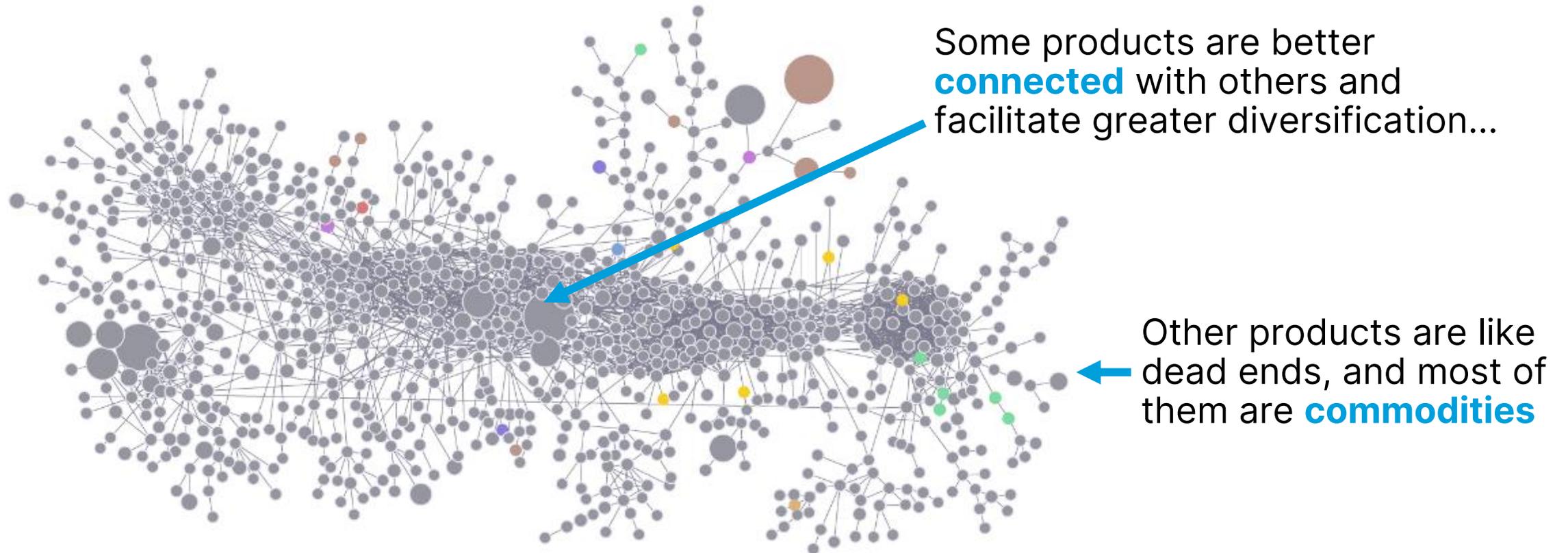
explain **91%** of **total GDP**  
differences between countries

*Note:* 2019 data, Number of products is based on SITC rev 3 5-digit data disaggregated by unit value as presented in Annex B – Data and methodology.

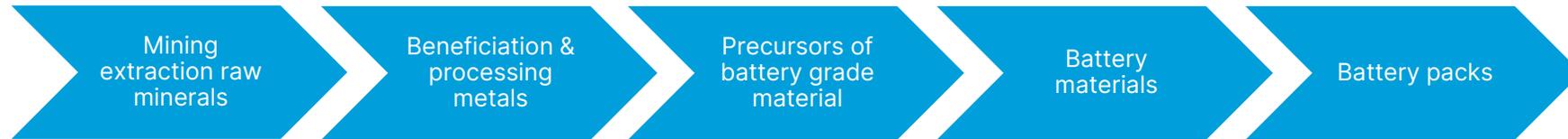
# ➤ Diversification is path-dependent:

*Today's production shapes tomorrow's possibilities*

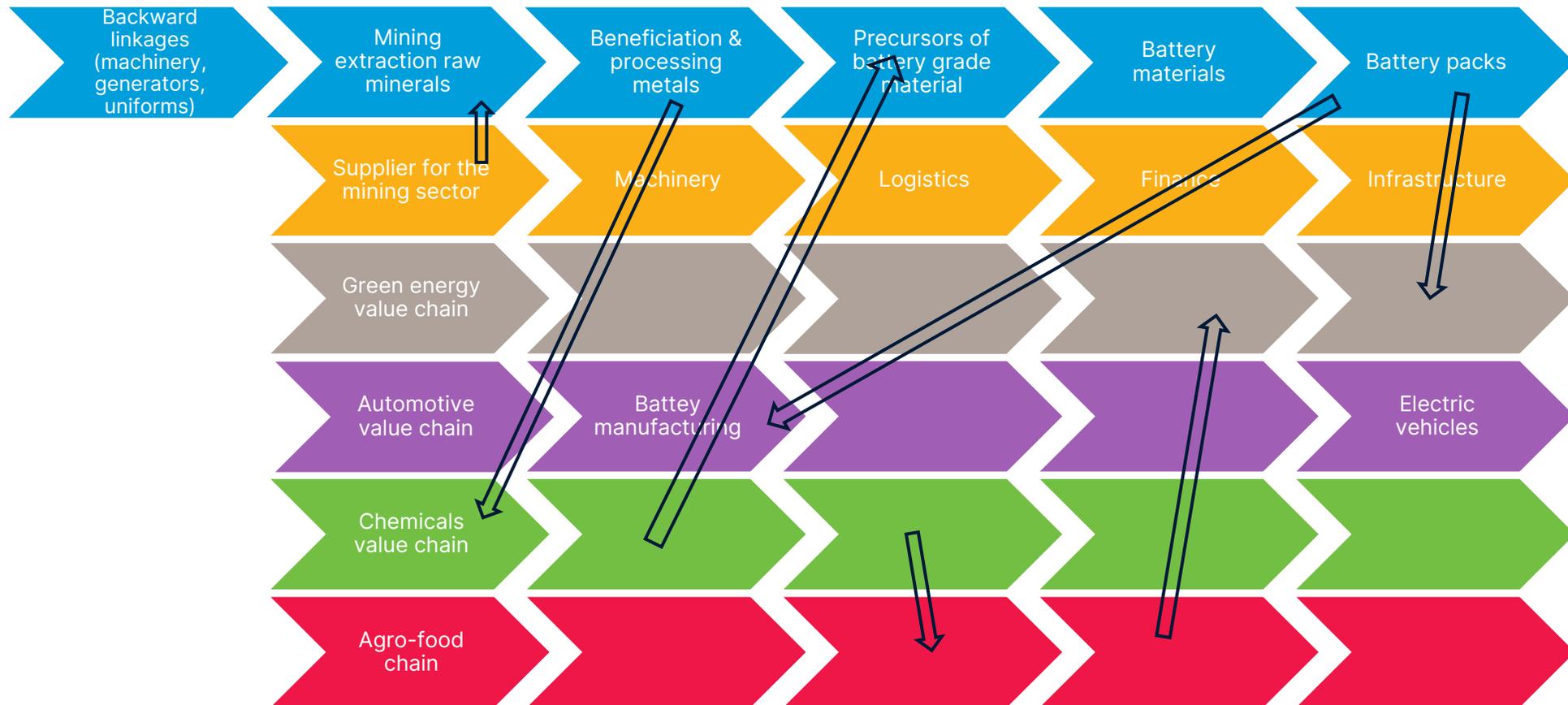
The **product space** displays the products connected to each other based on the likelihood that they will be exported together.



# ➤ Value addition and diversification: Structural transformation perspective



# Value addition and diversification: Structural transformation perspective



Source: UNCTAD based on Andreoni A and Avenyo E (2023). Critical Minerals and Routes to Diversification in Africa: Linkages, Pulling Dynamics and Opportunities in Medium-High Tech Supply Chains. Background paper commissioned by the UNCTAD secretariat for the 2023 edition of the Economic Development in Africa Report ([https://unctad.org/system/files/non-official-document/edar2023\\_BP1\\_en.pdf](https://unctad.org/system/files/non-official-document/edar2023_BP1_en.pdf)).

# ➤ Opportunities for value addition and diversification in Namibia: World

Currently exporting 5,064 products

## Within the CETM value chain

**33** products

**\$221 million** export opportunity

Chemicals



153 million

Articles of copper



47 million

Electrical and electronic equipment



8 million

Machinery and mechanical appliances



6 million

Synthetic polymers



6 million

## Beyond the CETM value chain

**167** products

**\$590 million** export opportunity

Synthetic polymers



141 million

Iron and steel



114 million

Chemicals



103 million

Machinery and mechanical appliances



54 million

Paper and paperboard



45 million

## Food processing

Dairy, honey, edible animal products



40 million

Animal or vegetable fats and oils



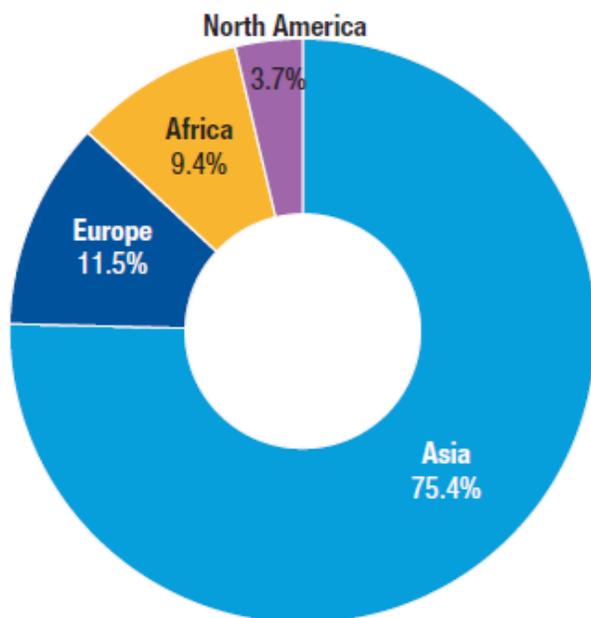
15 million

# ➤ Main markets for potential new products: World

## Within the CETM value chain

### Considering existing trading relations

Potential destination markets (based on weighted export opportunities), by region



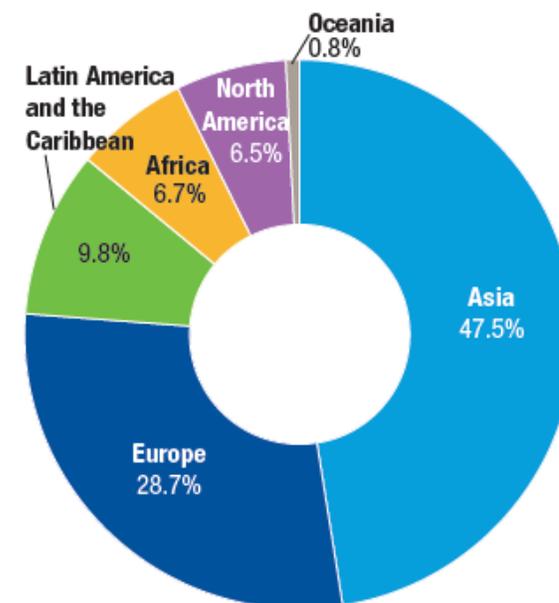
Source: UNCTAD.

Potential destination markets (based on weighted global export opportunities), by country

Potential market	Share of opportunity
China	72.4
South Africa	9.0
France	6.0
United States of America	3.1
India	1.4
Germany	1.3
Spain	1.3
Belgium	0.9
Italy	0.9
Singapore	0.6
Others	3.1

### Considering potential new trading relations

Potential destination markets (based on unweighted global export opportunities), by region



Source: UNCTAD.

Potential destination markets (based on unweighted global export opportunities), by country

Potential market	Share of opportunity
China	17.4
Mexico	7.1
United Arab Emirates	6.6
United States of America	5.5
France	4.6
Saudi Arabia	4.4
Bahrain	4.4
Germany	2.8
Türkiye	2.7
Singapore	2.6
Others	41.9

# Import substitution opportunities

## Within the CETM value chain

**15** products

**\$28 million** Import opportunity

Iron and steel



14 million

Electrical and electronic equipment



5 million

Chemicals



3 million

Machinery and mechanical appliances



3 million

Synthetic polymers



3 million

## Beyond the CETM value chain

**53** products

**\$89 million** Import opportunity

Synthetic polymers



32 million

Paper and paperboard



30 million

Iron and steel



12 million

Chemicals



8 million

Machinery and mechanical appliances



4 million

## Food processing

Sugars and sugar confectionery



1.2 million

Dairy, honey, edible animal products



47 thousand

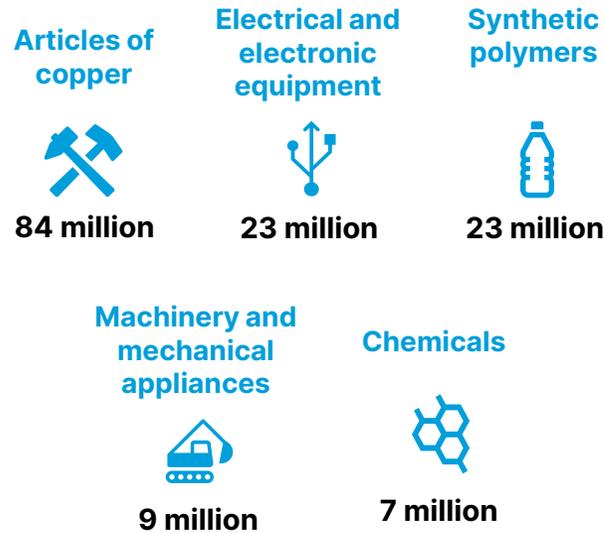
# ➤ Opportunities for value addition and diversification for Namibia in the SADC

Currently exporting 5,064 products

## Within the CETM value chain

**25** products

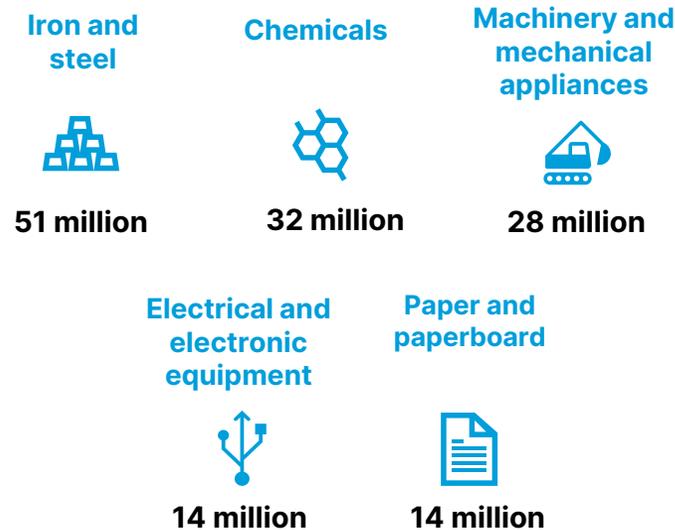
**\$152 million** export opportunity (unweighted)



## Beyond the CETM value chain

**102** products

**\$182 million** export opportunity (unweighted)



## Food processing



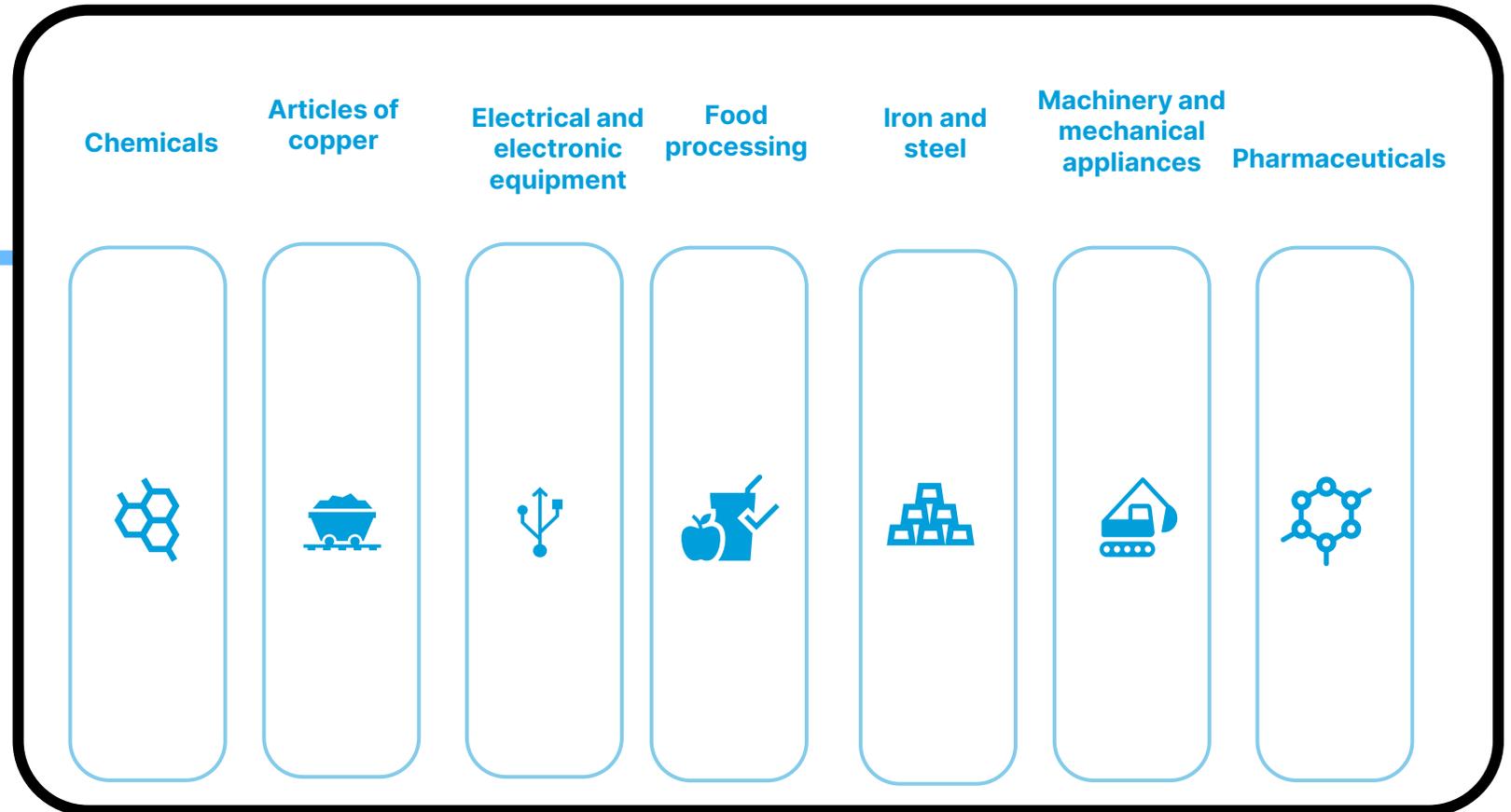
# ➤ Industry consultations

**165** VALIDATED  
PRODUCTS

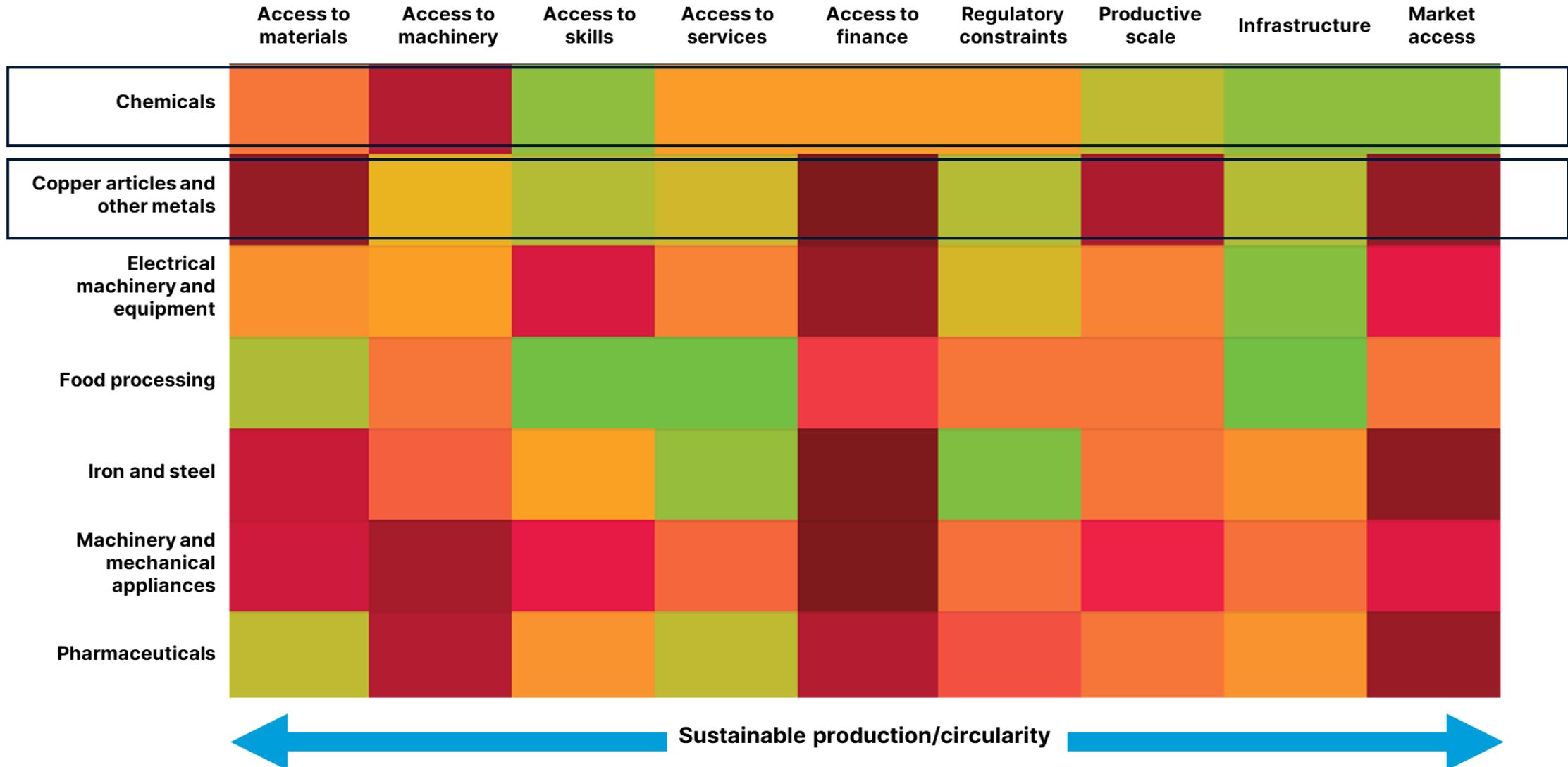
**7** PRIORITY  
SECTORS

Potential to generate  
over **26,000** direct  
and indirect jobs (~3% of  
labour force in 2023)

TOTAL Investment:  
**US\$ 2.13** Billion



# Diversification constraints are product-specific



# ➤ From Analysis to Action: Policy Workshop Outcomes

- ▶ Cross-ministerial engagement
- ▶ Sector-specific constraint mapping
- ▶ Alignment of existing instruments to priority product clusters
- ▶ Identification of quick wins and medium-term reforms
- ▶ Consensus on coordination and delivery mechanisms



# ➤ Policy Instrument Example

Proposal	Battery Assembly Skills Accelerator Programme
Sector	Electrical machinery and equipment
Gap	Lack of practical experience in battery assembly and control systems
Instrument description	<p>6–12-month apprenticeships for ~100 graduates per year.</p> <p>Gender-targeted incentives (bonuses), with at least 40 per cent of placements for women.</p> <p>Temporary onboarding/supervision/training subsidies to host firms.</p>
Responsible institutions	NTA; Ministry of Education, Innovation, Youth, Sports, Arts and Culture (MEIYSAC); participating firms.
Delivery mechanism	Competitive firm applications; training logs; quality reviews; placement matching; National Qualifications Framework (NQF)-aligned outcomes.
Timeframe	Two-year pilot 2026-2027
Enabling conditions	Training levy; private sector buy-in; transparent rules; monitoring and tracer studies.

# ➤ How product-level coordination looks in practice

Sector	Gaps	Proposed actions	Main actors
<p><b>Articles of Copper</b> (Copper wire, strips in coils, bars, rods &amp; profiles, tubes)</p>	<ul style="list-style-type: none"> <li>• <b>Skills gaps in metallurgy, electromechanics and automation;</b></li> <li>• <b>limited applied R&amp;D;</b></li> <li>• <b>certification bottlenecks;</b></li> <li>• <b>high capital costs;</b></li> <li>• weak domestic processing ecosystem</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Introduce targeted training and apprenticeships in metallurgy, electromechanics and industrial automation under the National Training Fund</b></li> <li>• <b>Strengthen university–industry co-delivery models (UNAM, NUST, TVET) with dual training and applied research</b></li> <li>• <b>Embed standards compliance and pre-compliance testing through NSI and NMRC</b></li> <li>• <b>Deploy blended financing tools (equipment subsidies, concessional credit, capex rebates) through DBN</b></li> <li>• Develop shared, multi-user technology platforms and pilot parks to reduce entry barriers</li> <li>• Use public procurement as a market-shaping lever</li> </ul>	<ul style="list-style-type: none"> <li>• Ministry of Industries, Mines &amp; Energy (MIME)</li> <li>• Ministry of Finance &amp; Public Enterprises</li> <li>• DBN</li> <li>• Namibia Standards Institution (NSI)</li> <li>• Namibia Training Authority (NTA)</li> <li>• NUST / UNAM</li> <li>• NamPower</li> <li>• Private fabricators</li> <li>• NMRC; DBN; NIPDB;</li> </ul>

# ➤ From opportunity to delivery

The opportunity is  
real

165 validated products

7 priority sectors

US\$ 2.13 billion  
investment

~26,000 potential jobs

The constraints are  
identified, and differ  
by sector

Iron & steel → finance  
and market scale

Pharmaceuticals →  
regulatory and  
procurement  
capability

Machinery → equipment  
and skills upgrading

Food processing →  
machinery, logistics  
and compliance

The core task:  
institutional  
coordination

Prioritize a national  
product portfolio

Align instruments  
around product  
clusters

Strengthen standards  
and regulatory  
capacity

Leverage SADC and  
regional market  
access

# Thank you

