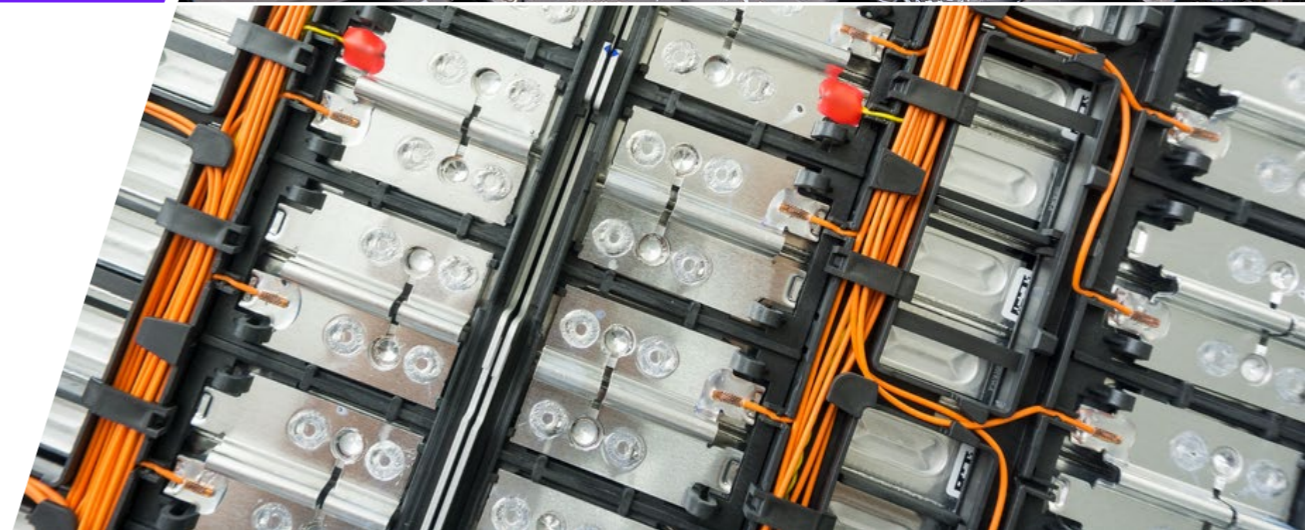


ACE Green Recycling

CASE STUDY – GREEN BATTERY RECYCLING FOR THE CIRCULAR ECONOMY

Delhi, India | November 2022



ACE Green Recycling



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Do you think that all recycling is Eco-friendly ?

State of Battery Recycling

- **High Green House Gas emissions** as fossil fuels are used to heat up the smelting furnace to $> 1000^{\circ} \text{C}$
- **High Toxic emissions** of heavy metals like lead
- **Lead rich slag** - a hazardous solid waste product of smelting – is dumped into landfills



Developed Countries: Smelters are facing ever tightening regulations and higher compliance costs



Developing Countries: Lax regulations leads to extreme pollution and pathetic workplace conditions

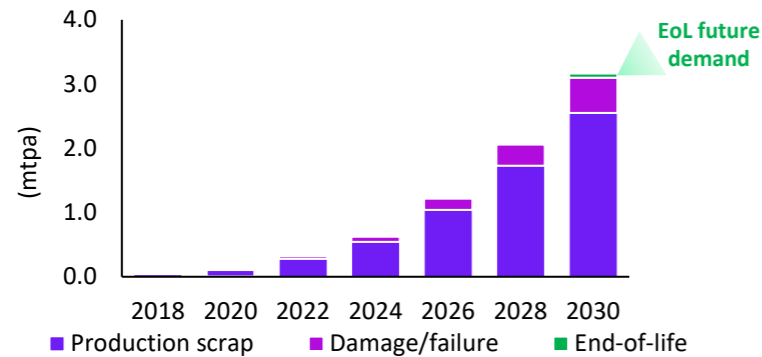
Lithium-ion battery recycling is another economic and ecological imperative

Electric vehicles penetration will exceed **50% by 2030**

Challenge 1

Simultaneous escalation of battery waste

Battery recycling demand



Startup of new plants expected to produce significant pre-consumer scraps

End-of-life (EoL) scraps to create sustained recycling demand longer term

Challenge 2

Existing waste management solutions are ineffective and potentially dangerous



Smelting process

- High air pollution
- Toxic solid waste
- Unsafe work environment



Waste disposal

- Toxic liquids and solid and air pollution
- Explosion hazards in transportation and shredding
- Opportunity cost

Challenge 3

Increasing constraint impact battery raw materials sourcing



High environmental impact of mining and refining activities



Increased requirements for localization of supply chains in the EV industry




Expected material supply shortages from primary mining



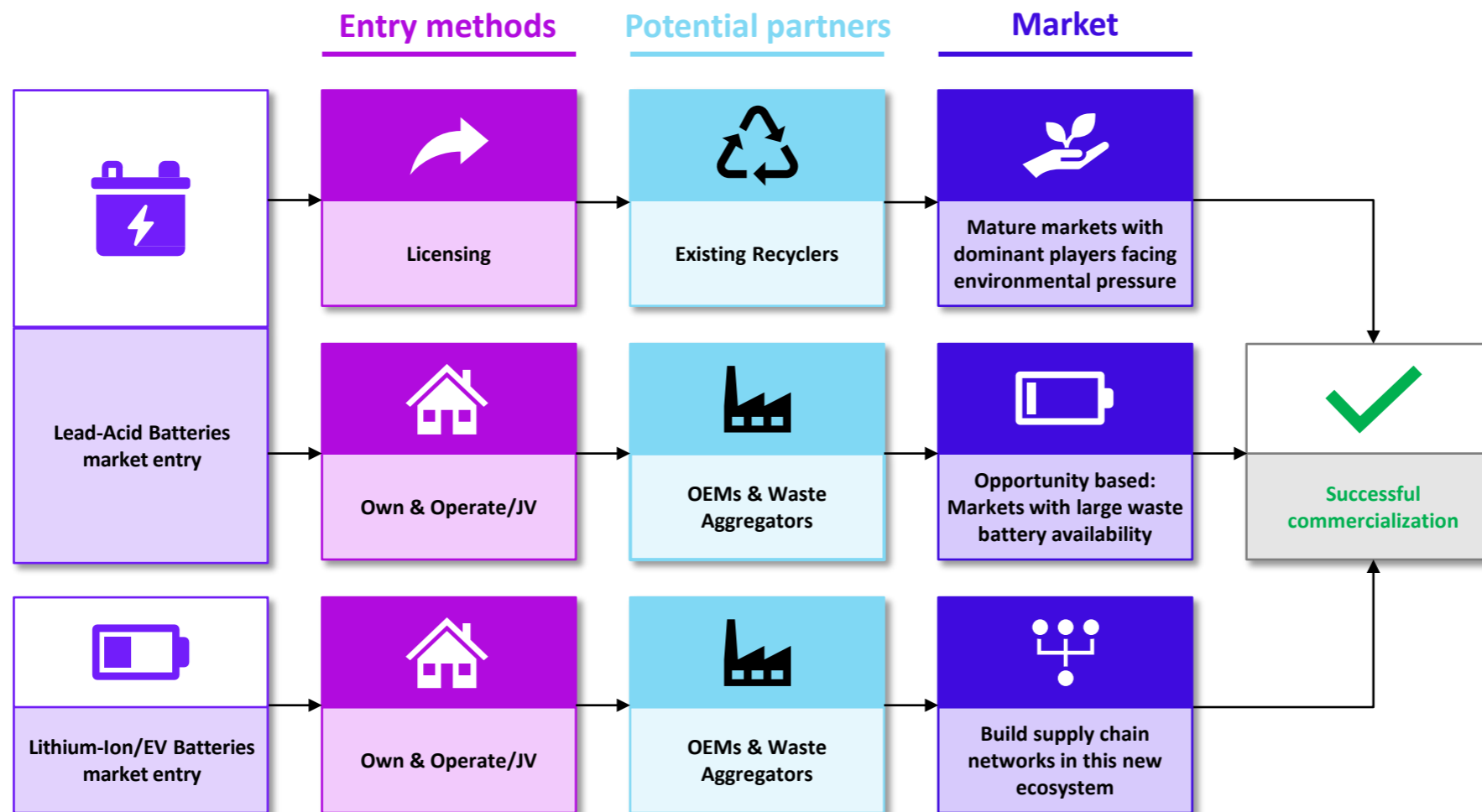
Supply chain transparency requirements

Problem cannot be solved in silos. We need to have an ecosystem approach

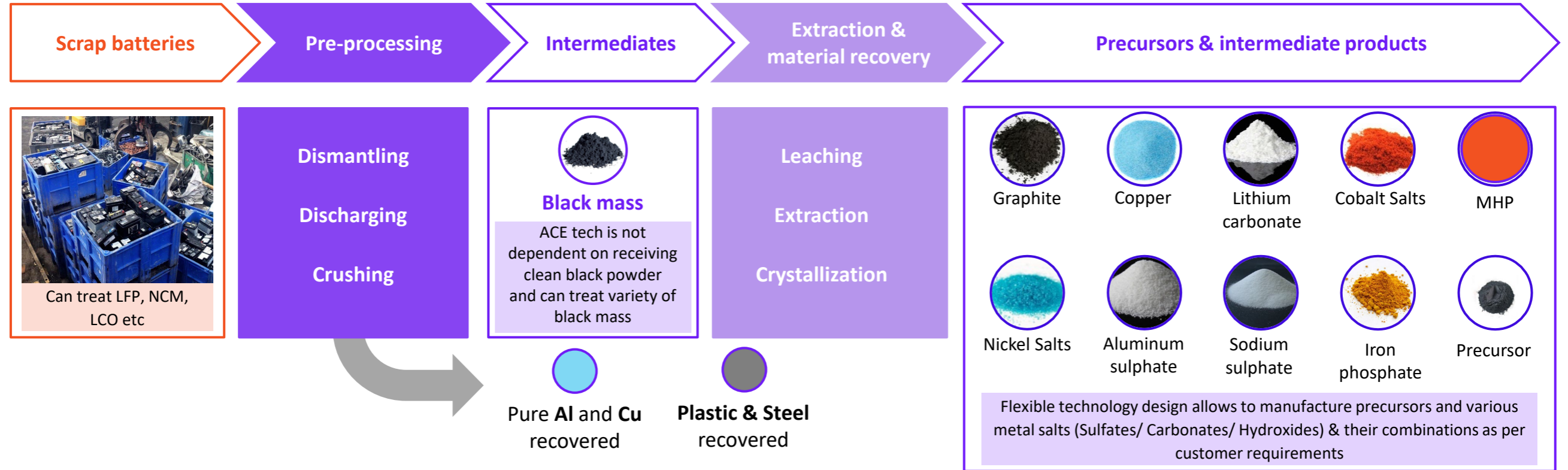
	Technology	Process efficiency Extraction	Safe and sustainable operation			Supply chain management	Recovery rates
			Temperature	Solid wastes efficient	Emissions		
 ACE Green	Mechanical preprocessing / Hydrometallurgy	Single step recovery and leaching	~75C	No toxic solid waste	Zero ¹	Decades of global battery trading experience	98%
Mature Western Hydro based Tier 1 & 2 Players	Mechanical preprocessing / Hydrometallurgy	Multi-step leaching	~100C	Toxic solid waste	Zero	Upstream: OEMs partnership Downstream: Limited prior experience	95%
Mature Western Hydro + Pyro based Tier 1 & 2 Players	Thermal preprocessing / Hydrometallurgy	Multi-step leaching	~100-300C	Toxic solid waste	Emitting pyro-processing	Upstream: OEMs partnership Downstream: Limited prior experience	95%
Tier 3 players	Thermal preprocessing / pyrometallurgy	Multi-step pyrolysis and smelting	~300-1,400C	Toxic slag byproducts	High air pollution	Localized supply chain expertise only	90-95%



Drawing synergies & expertise between Lead Acid Batteries & Lithium-ion Batteries markets



ACE Green: Solutions across the battery recycling value chain



Pre-processing IP

- Robotization of discharging and dismantling
- In-house processing of Al and Cu

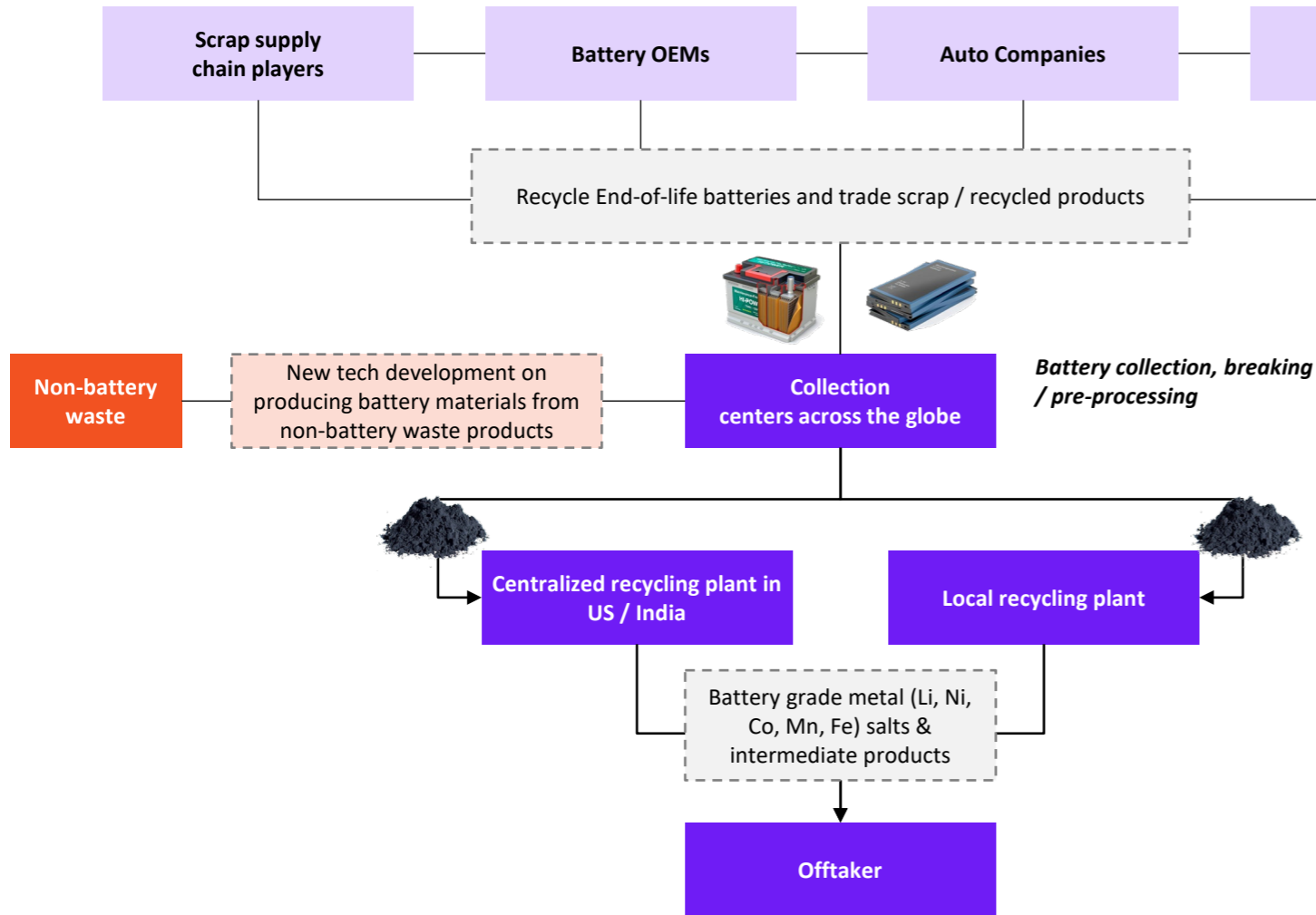
Hydrometallurgical IP

- Proprietary leaching technology & equipment design
- Proprietary additives for enhanced recoveries

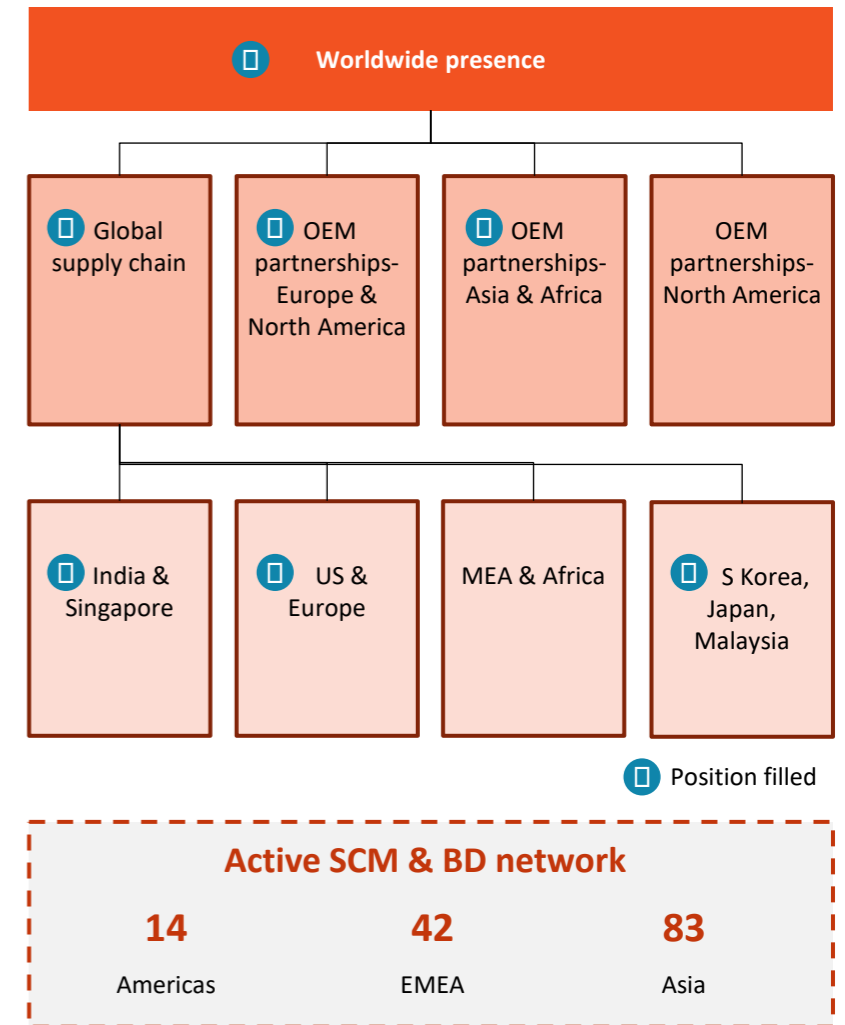
Economic End-products

World-class supply chain management

Cost efficient and scalable supply chain model

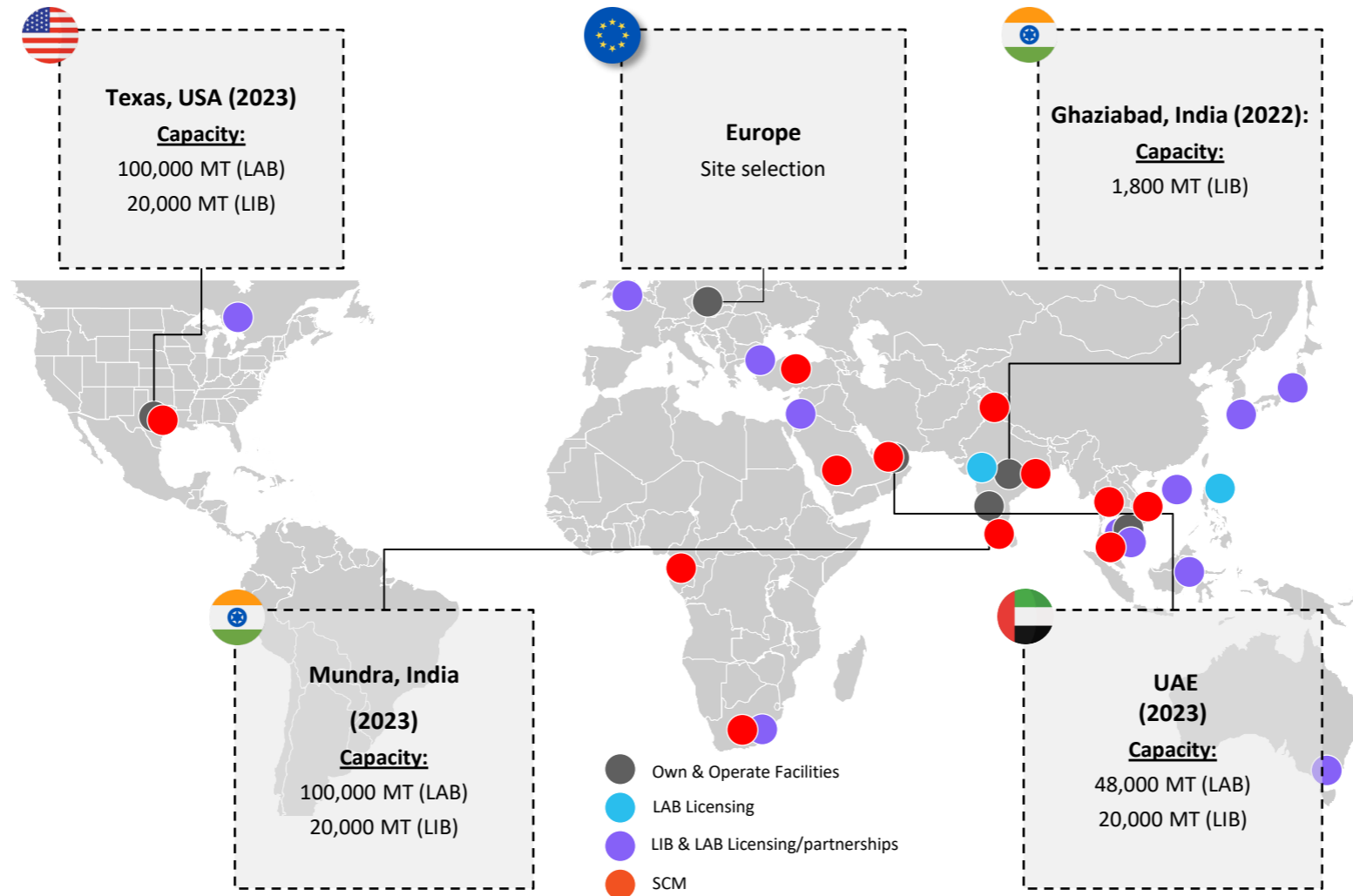


Highly experienced and dedicated supply chain management team



ACE is pursuing projects in diverse geographies

Well-articulated global roadmap



ACE Green Recycling is also setting up *Lithium-ion collection centers* in emerging markets by *leveraging its rich supply chain management experience*, which allows low-cost and low-risk scaleup in those geographies

ACE Green Recycling – India Focus



Expansion Plans

- ✓ We aim to setup a combined battery recycling park in Mundra, India in 2023
- ✓ Planned capacity of 100,000 MT (LAB) and 20,000 MT (LIB) battery processing in phases
- ✓ R&D and Collaborations with leading institutes



Li-ion Recycling Technology

- ✓ ACE's Li-ion Battery Recycling facility is under commissioning, expected to be operational in Q4 2022
- ✓ Plant capacity for 1,800 MT Battery Processing



Lead Acid Battery Recycling (Licensing)

- ✓ Delivering on agreement with Pandy Oxides & Chemical Ltd., with commissioning underway.



Seasoned management and business development teams



Nishchay Chadha



CEO

- 16 years in **recycling, global trading, mining, supply chain**
- Asia Pacific & Middle East **head for Lead/zinc & India/MENA for scrap metals at Trafigura**
- **Senior global positions in Vedanta & 2 startups**
- B. Tech. in Mining Engineering from **IIT (ISM) Dhanbad** and MBA in Finance and Strategy from **ISB, Hyderabad**



Teodoro Alban



CFO

- 25 years professional experience in **finance & treasury** with broad experience in M&A and business development
- **Held CFO position** at RDT Inc (Subsidiary of Tubos Reunidos) and Quantum Offshore Energy Services
- B.Sc in Mechanical Engineering from Brown University and Master of Finance from London Business School



Vipin Tyagi



CTO

- 11 years in **Battery materials cleantech recycling**
- **PhD in Mechanical Engineering** from **Texas A&M University** and B. Tech. in Mechanical Engineering from **IIT Bombay**
- Co-authored several peer reviewed journal and conference publications
- Ex **Merrill Lynch** Trader, USA



Sumit Sachdeva



CEO – India

- 17 years in experience in **Corporate and Investment Banking** handling fund raising- both debt and equity
- Last worked as Executive Vice President and **Coverage Head** for Indian Conglomerates for Kotak Mahindra Bank, India
- MBA in Finance and Strategy from **ISB, Hyderabad**, graduated with Dean's list. Executive Program in Finance from **IIM, Calcutta**



Siddharth Roy



Business Director

- 13 years in **Base & Precious Metals, Recycling, International Trading, Logistics**
- Hindustan Zinc manager APAC
- Startups – global head of Lead & zinc



Farid Ahmed



VP – Business Development

- 30+ years in the **metals sector** with deep ties to industry players across the globe
- Recognized as a global thought Leader in commercial intelligence for **battery materials, energy, metals, and mining**



Aaron Wee



VP Strategy & Investments

- 10+ years in **investments, M&A, and consulting**
- Extensive VC experience in digital technology, web infrastructure, and blockchain



Meredith Matthews



VP Global Communications

- 20+ years experience in **corporate, crisis, non-profit, community and employee communications**
- Worked as PR Lead, U.S. Gulf Coast, Communications Advisor at LyondellBasell
- Former journalist and award-winning communications professional with senior-level experience in communications

Thank You.

We welcome enquiries on
our continuing journey



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