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Chief Purchasing & Supply Chain Officer

OEM Perspective

EV Batteries in the
Future of Automotive

THE FUTURE IS BRIGHT

International Strength with Global Operations

Employees on all continents; more than 160 nationalities

Operations in more than 130 commercial markets

Manufacturing in more than 30 countries

Cutting Edge and Best-in-Class Technology

14 iconic brands, diversity in portfolio

4 native BEV platforms:
STLA Small
STLA Medium
STLA Large
STLA Frame

3 tech platforms:
STLA Brain
STLA SmartCockpit
STLA Autodrive



STELLANTIS

DARE FORWARD 2030 – FOUR CORE TARGETS



CARBON FOOTPRINT

-50%

tCO₂eq/veh vs 2021

BEV SALES MIX

 **100%**
 **50%**

PC in EU, PC+LD Trucks in U.S.
Assuming conducive public policies

CUSTOMER
EXPERIENCE

#1

Services & Products
Syndicated surveys data

FINANCIALS

2x
Revenues

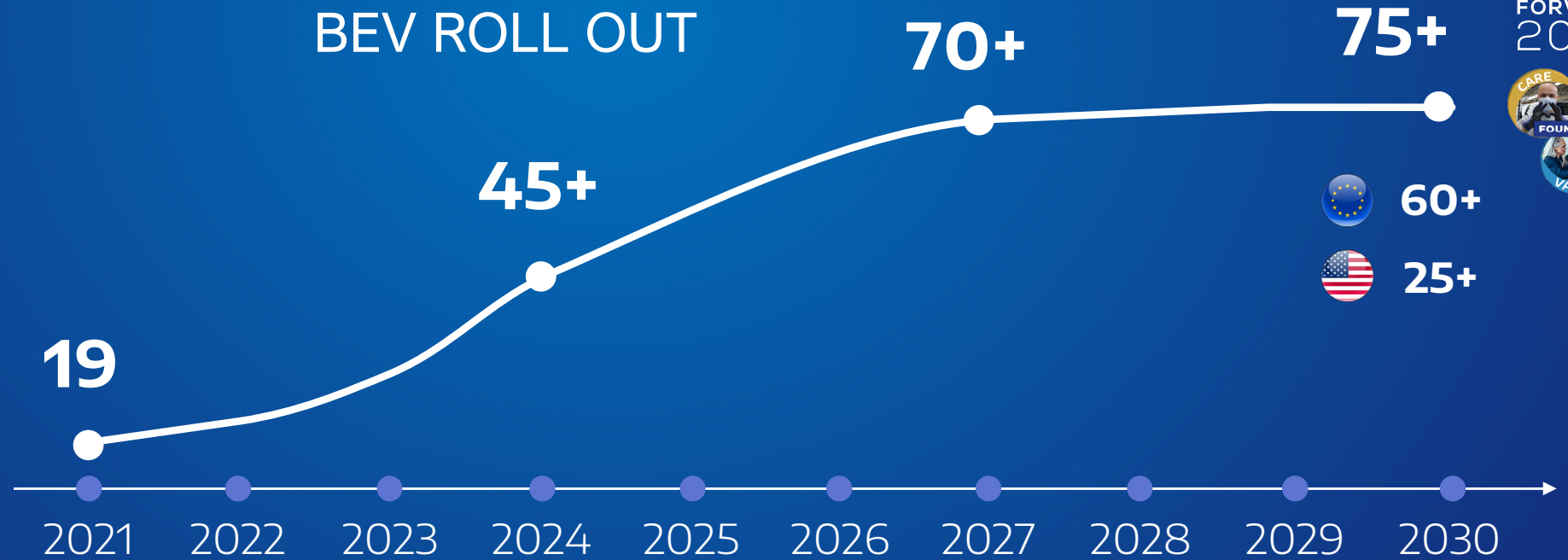
Double-digit
margin

Revenues vs 2021
AOI margin through plan period

CARBON NET ZERO BY 2038



BEV Portfolio⁽¹⁾



BEV only launches



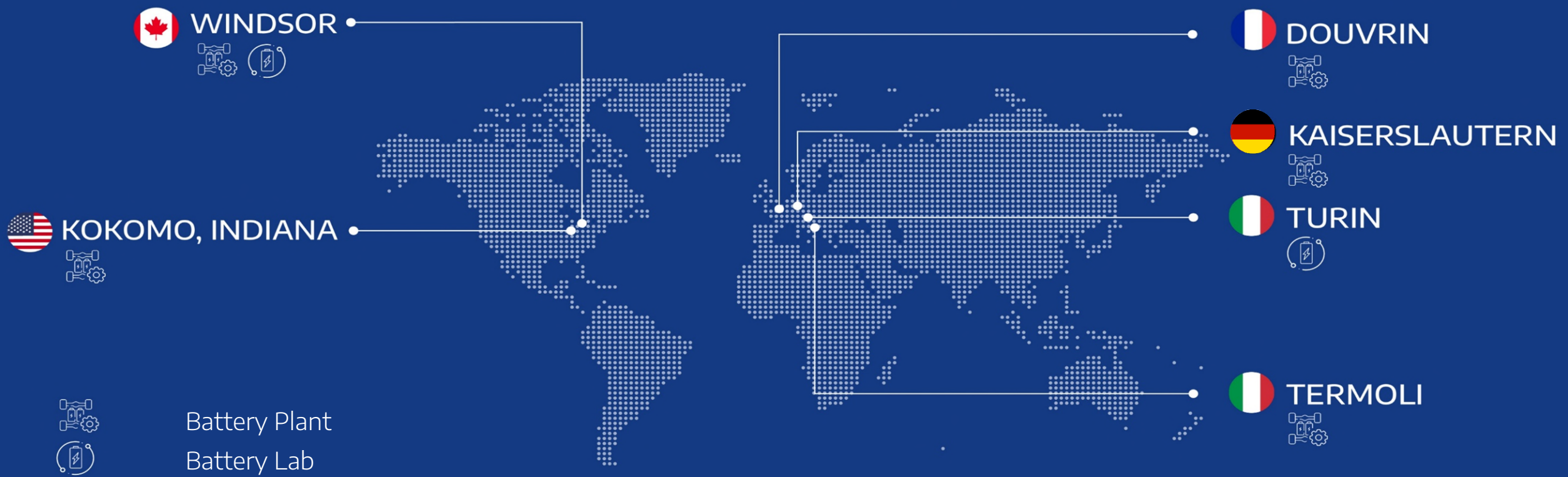
BEV Sales⁽²⁾ (million units)



(1) Sum of EU and NA portfolios above global portfolio due to models present in both regions
 (2) Based on current assessment of future markets & regulations, assuming conducive public policies (charging infrastructure, purchasing incentives)

BATTERY PLANTS & LABS

FIVE BATTERY PLANTS + 2 BATTERY LABS TO ADVANCE OUR ELECTRIC VEHICLE PRODUCTION



5 million battery electric vehicle sales by 2030
 400GWh planned battery capacity

Sourcing plan to be completed with additional supply contracts and partnerships to support total demand

OUR GALAXY OF ELECTRIFICATION PARTNERS

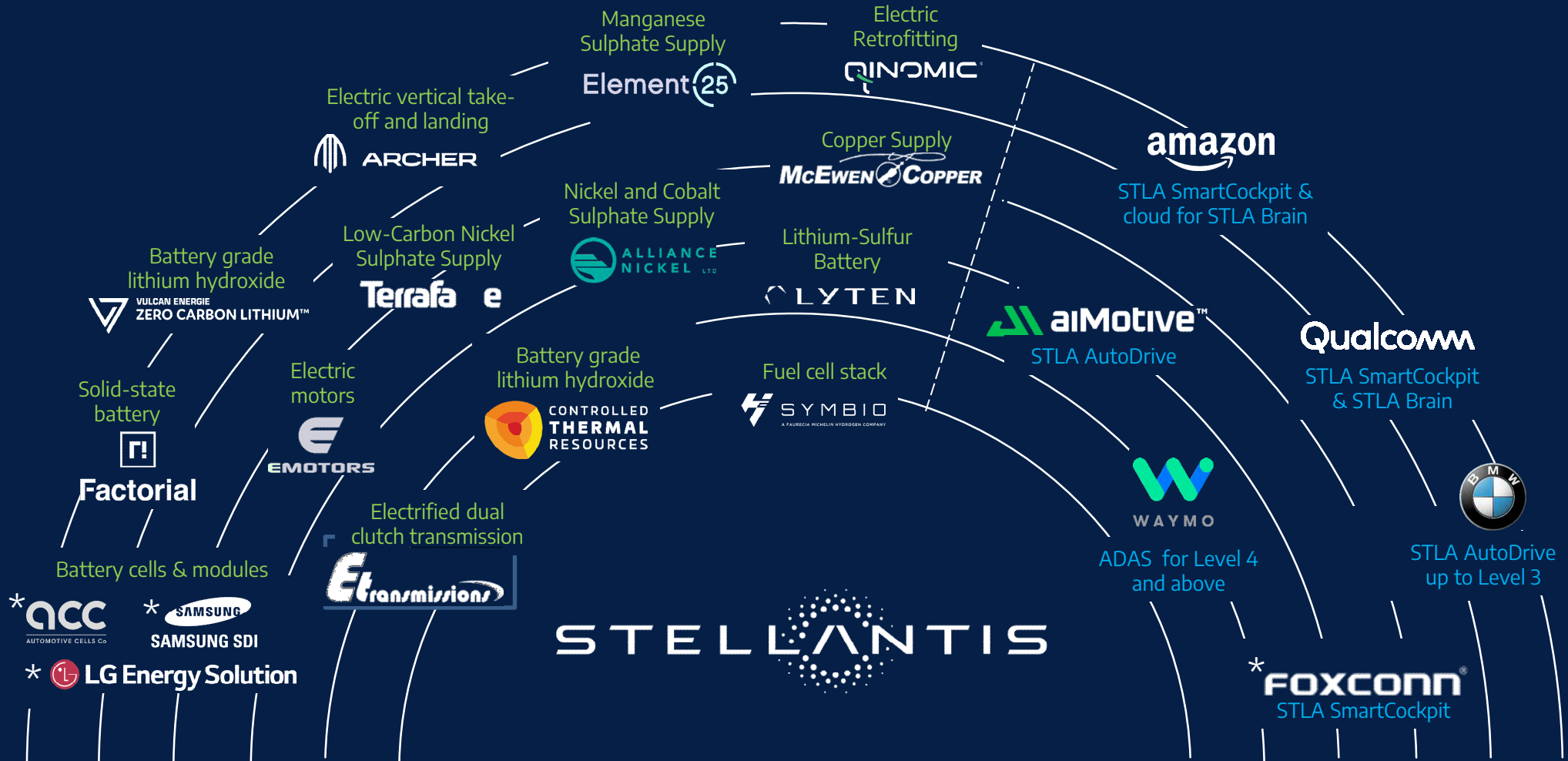
To accelerate our execution by expanding access to technologies and raw materials



Electrification



Software



* Joint Ventures

WE ARE CUSTOMER-CENTRIC



TOP CHALLENGES PURCHASE BEV, PRICE AND RANGE



Main Reasons why people are not buying BEV	2020	Today
Purchase price	35%	↓ 28%
Limited driving range	16%	↓ 13%
Poor exterior styling	7%	↑ 10%
Lack of charging points	13%	↓ 8%

Source: Internal Stellantis Sources
Main reasons why people are not buying BEV



Seriously considered EV but didn't purchase (Reasons)	2020	Today
Model not available	5%	↑ 20%
Purchase price	20%	↓ 14%
Limited driving range	5%	↑ 7%
Overall cost of ownership	6%	6%

Source: NVCS
Most seriously considered electric, did not purchase

BATTERY ADVANCES

SEVERAL MAJOR THEMES IN THE INDUSTRY

STELLANTIS

WORLD
MATERIALS
FORUM

- HIGHER ENERGY DENSITY CHEMISTRIES
- SOLID STATE
- ELIMINATE CRITICAL METALS (Co, Ni)
- FASTER CHARGING
- THERMAL PROPAGATION MITIGATION
- CELL-TO-PACK / CELL-TO-CHASSIS
- CO2 REDUCTION OVER LIFE
- LOW-COST BATTERIES (\ll \$75/kWh)



MAXIMIZING BATTERY LIFE AND MATERIAL SUSTAINABILITY

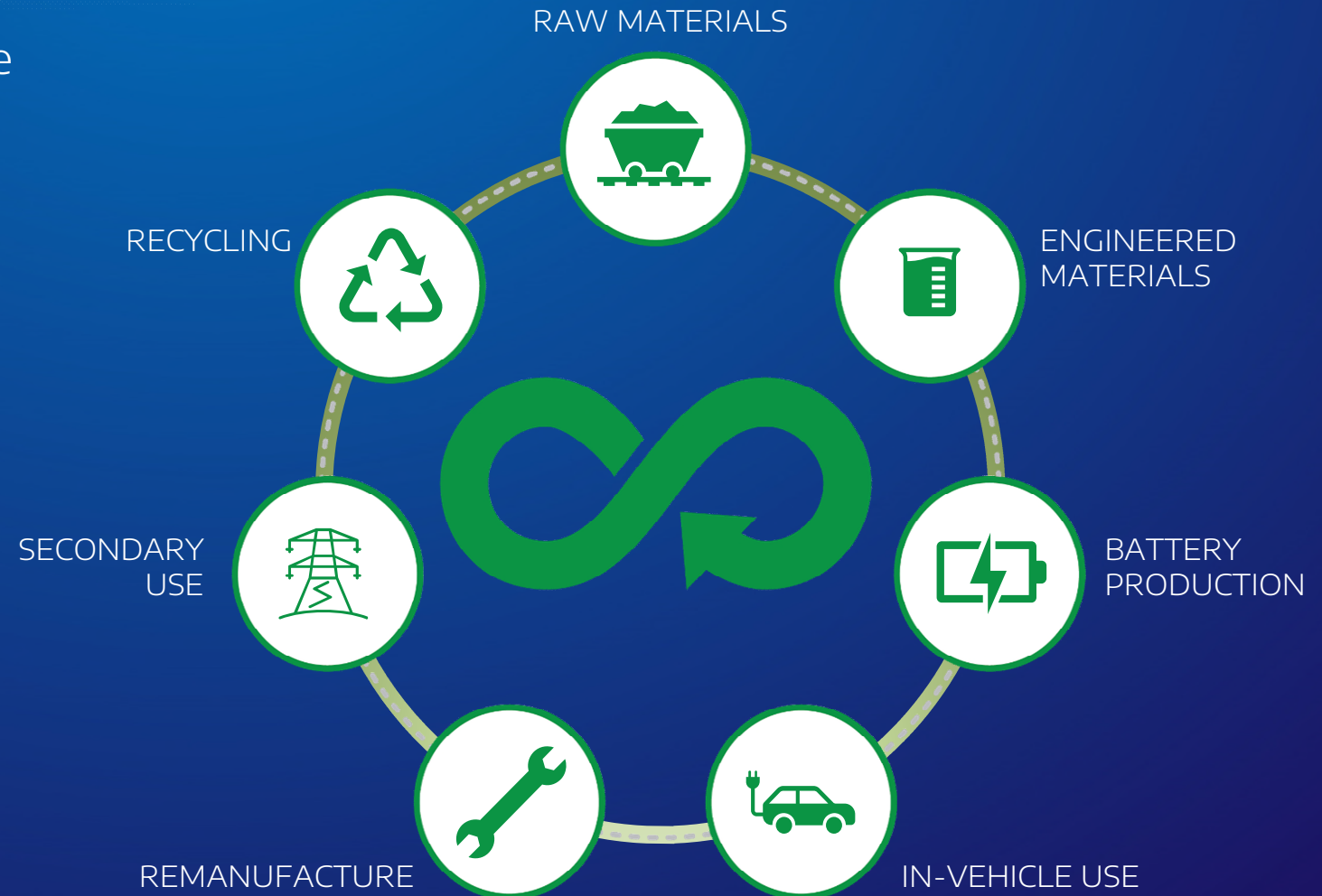
Minimize critical material use and recycle

Challenges:

- Obtaining recycled material
- Retrieving ELV batteries
- Changing chemistry affects future needs
- Recycled content regulation ahead of availability

Opportunities:

- Extending the life
- Chemistry development
- Repair & Reman methods
- 2nd life applications
- Designing for recycling



THANK YOU

