REMODULE

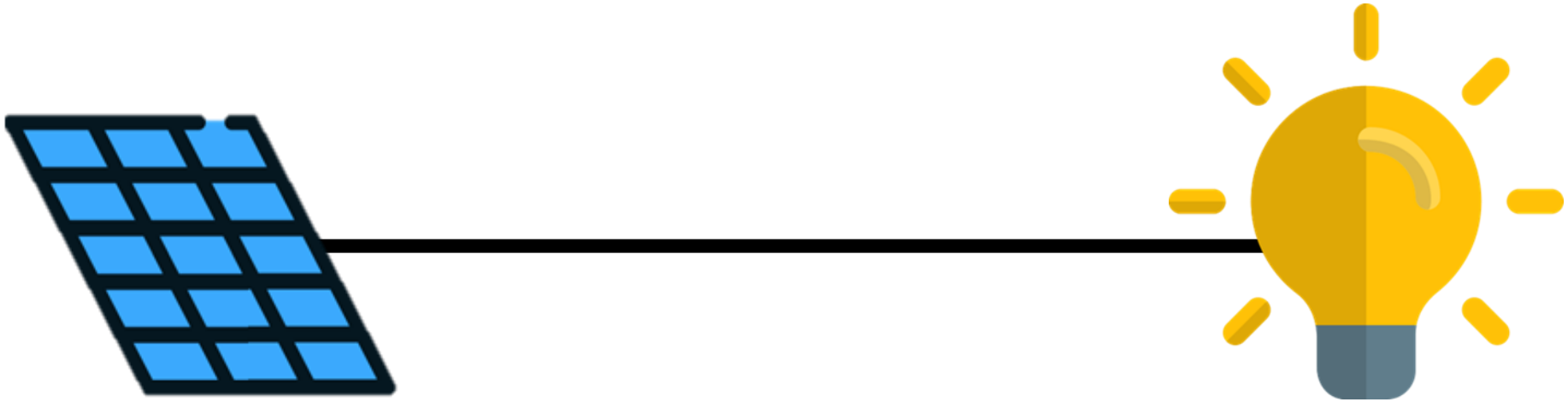
CELLS FOR THE FUTURE ACCUMULATORS

info.remodule@gmail.com

SCENARIO

USE PRODUCED ENERGY

IMMEDIATELY OR IT IS LOST

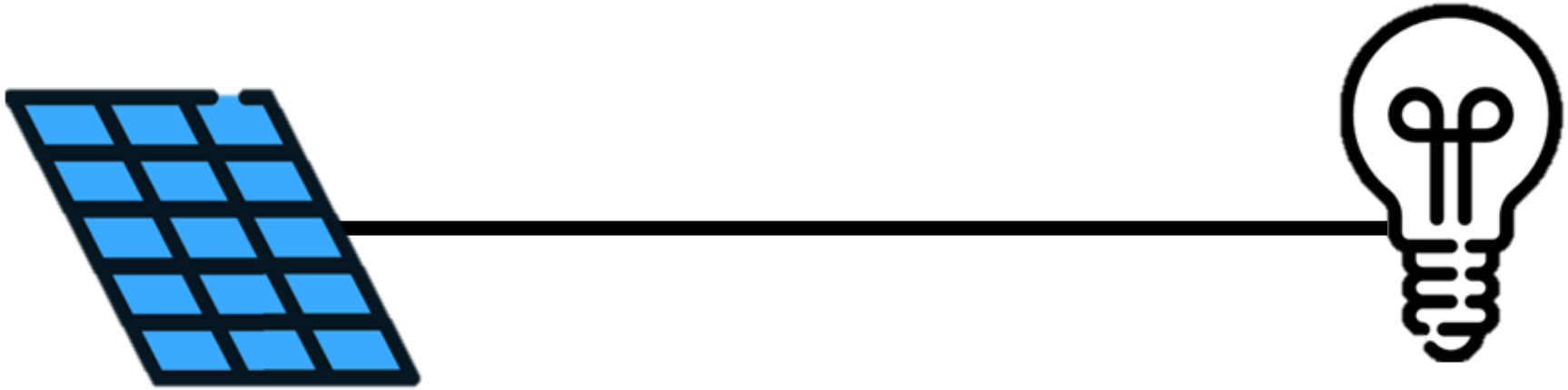


THE MAIN LIMIT OF PHOTOVOLTAIC SYSTEMS IS THAT ENERGY PRODUCED CAN BE ONLY USED IMMEDIATELY, OTHERWISE IT IS LOST.

SCENARIO

NO ENERGY PRODUCED

NO ENERGY AVAILABLE

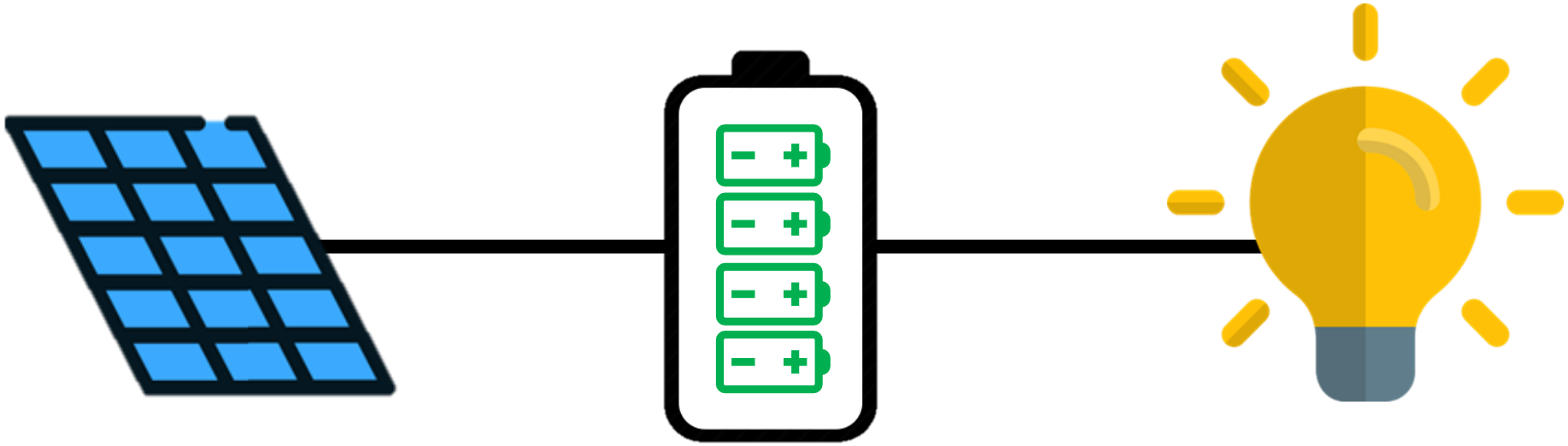


FOR INSTANCE, DURING THE NIGHT, THE PHOTOVOLTAIC SYSTEMS CANNOT PRODUCE ANY ENERGY, THUS NO ENERGY IS AVAILABLE

SCENARIO

USE PRODUCED ENERGY

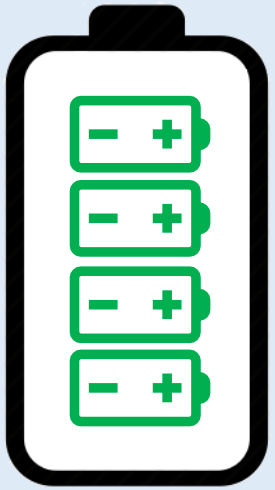
WHEN NEEDED WITHOUT WASTE



THE ACCUMULATOR (= BATTERY) CAN STORE THE ENERGY PRODUCED DURING THE DAY, TO MAKE IT AVAILABLE WHENEVER IT IS NEEDED, BUT …

PROBLEM

ACCUMULATOR



DEVICE WHICH STORES AND RELEASES ELECTRICAL ENERGY

CELLS

ARE THE KEY COMPONENTS THAT ACCUMULATE ENERGY

VERY EXPENSIVE

FOR STATIONARY SYSTEM MANUFACTURERS CELLS ARE OVERPRICED

TARGET CUSTOMERS

INDUSTRIAL PLANTS

DOMESTIC PLANTS

CHARGING STATIONS

GRID COMPENSATION

STATIONARY ACCUMULATORS PRODUCERS

IDEA

RE-USE THE DISMISSED CELLS OF HYBRID AND ELECTRIC VEHICLES

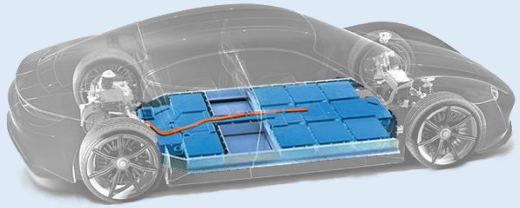
BEST CELLS IN THE MARKET

80 %

RESIDUAL CAPACITY

SOLUTION

CAR COMPANY

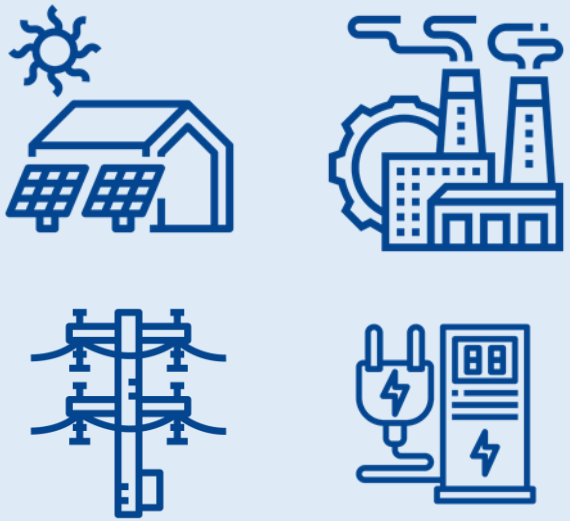


HIGH-PERFORMANCE DISMISSED CELLS

REMODULE

TESTING & CERTIFICATION

ACCUMULATOR PRODUCER



CELLS FOR STATIONARY STORAGE

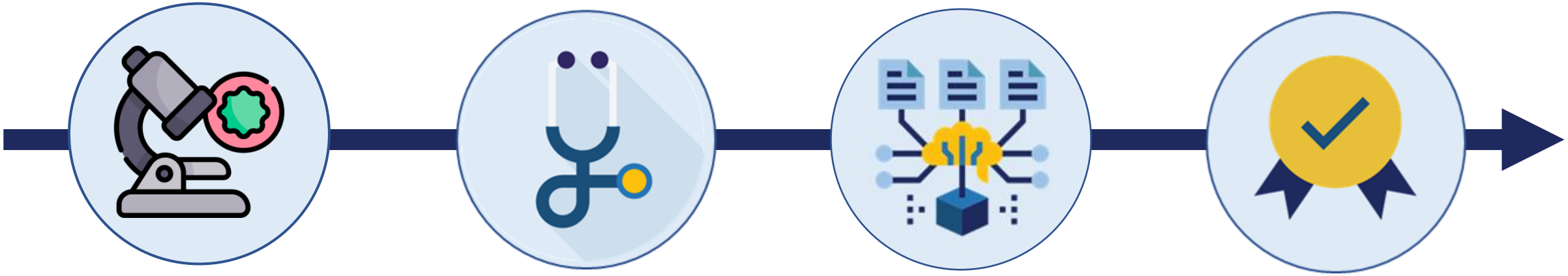
ADDED VALUE

AFFORDABLE CELLS WITH HIGH PERFORMANCES → LOWER THE COST OF STORING ELECTRIC ENERGY

AVOID NEW CELLS PRODUCTION → SAVE POLLUTANT EMISSIONS AND EXPENSIVE MATERIALS

SAVE DISPOSAL COSTS FOR CAR COMPANIES → SPEEDING UP THE ELECTRIFICATION PROCESS

TECNOLOGY



TAILOR-MADE TESTING

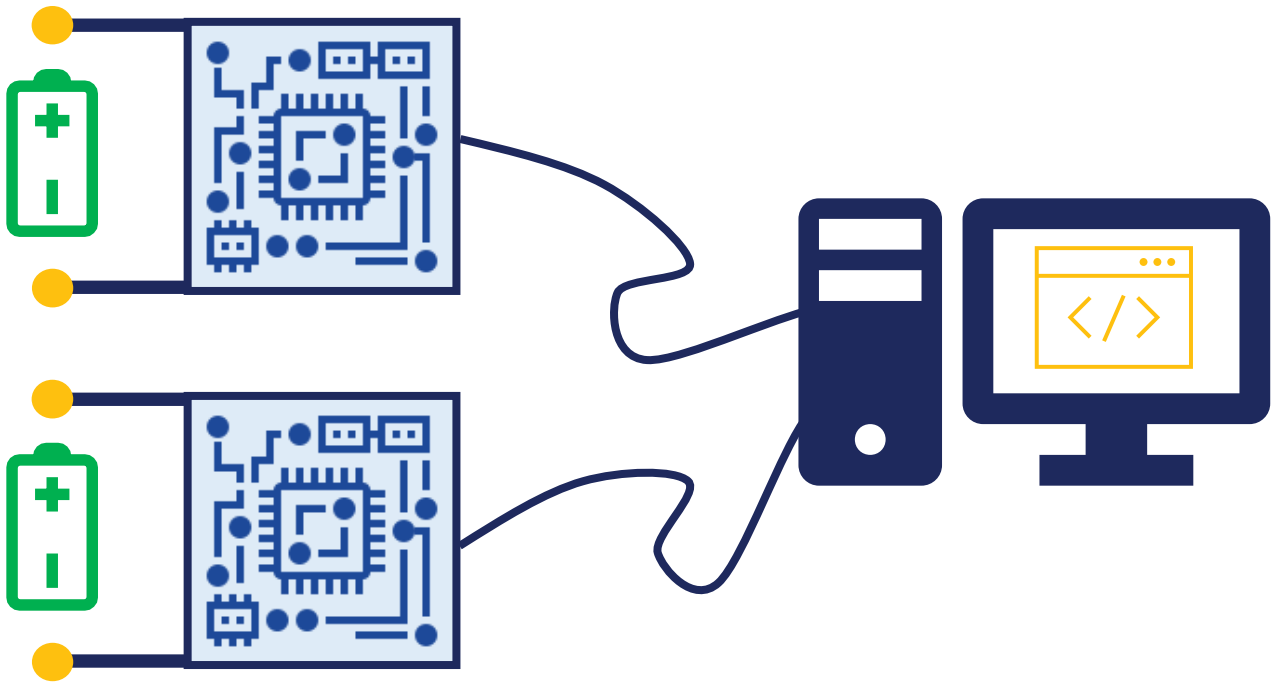
STATE OF HEALTH

PREDICTIVE MODEL

FUTURE LIFE WARRANTED

THE STATE OF HEALTH OF EACH CELL IS EVALUATED BASED ON AN ACCURATE TESTING. THEN OUR PREDICTIVE MODEL GUARANTEE ITS FUTURE LIFE AND PERFORMANCES

PROTOTYPE



SPECIFICATION:

- HARD + SOFTWARE
- HIGH POWER LEVELS
- MODULAR
- SCALABLE

LEVEL OF TECNOLOGY: TRL 3

TEAM

MICHELE FRANCESCHETTI

ANTONINO ADREACCHIO

LUCA DALLARA

MARCO MOSTARDA

LORENZO TAPINI

MATTIA STIGHEZZA

MARKET

ACCUMULATOR PRODUCERS

100+ *

NETWORKING CONTACTS

8

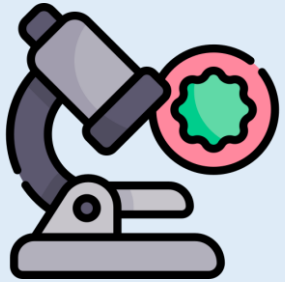
Source: *Telemaco, **Li-ion batteries for mobility and stationary storage applications

COMPETITORS

		EcarACCU Second life	Panasonic
PERFORMANCES	✓	–	✓
COST	✓	✓	✗
INFO SINGLE CELL	✓	✗	–
SAFETY	✓	–	✓
GREEN & SUSTAINABILITY	✓	✓	✗

BUSINESS MODEL

COSTS



TESTING

DISASSEMBLING

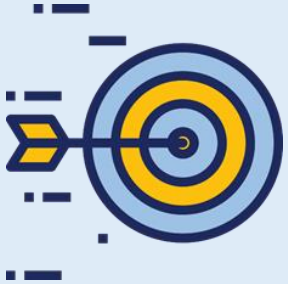
REVENUES

DIRECT SALES OF CERTIFIED CELLS

OPERATIONS OF THE BATTERY PACKS

COMPETITIVE ADVANTAGE

PRODUCTIVITY

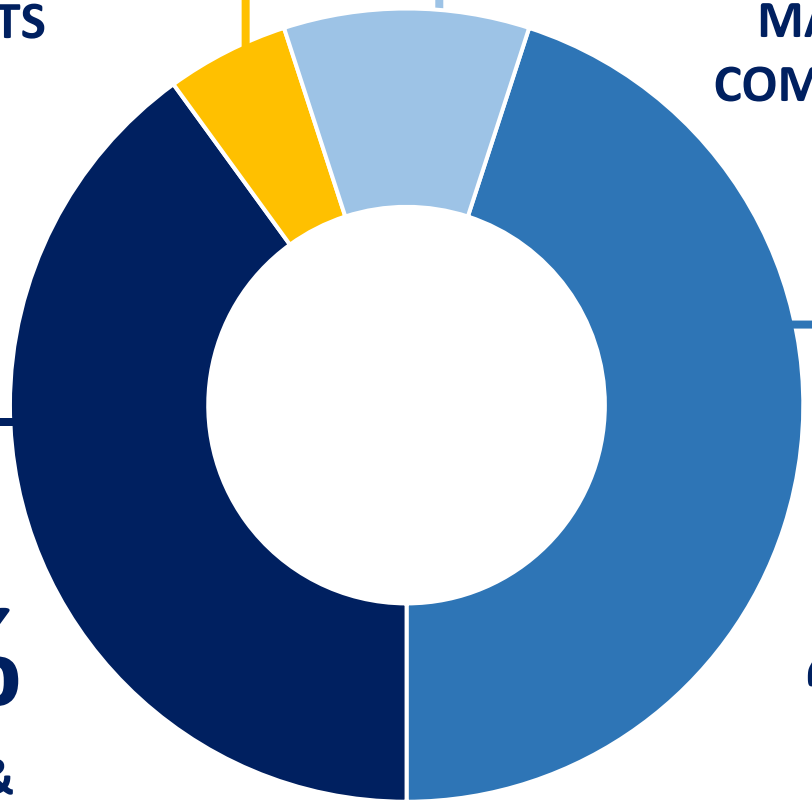


PRECISION

FUNDING

5 %
DISPOSAL COSTS

10 %
MARKETING & COMMUNICATION



40 %
RESEARCH & DEVELOPMENT

45 %
TESTING & DISASSEMBLY

PRE-SEED
50,000 / 80,000 €

SEED
220,000 €

A-SERIES
800,000 €

ROADMAP

2021 → 2022 → 2023 → 2024

R&D:

- ✓ ALGORITHMS
- ✓ DATA
- ✓ TESTING
- ✓ NETWORK

VALIDATION:

- ✓ TECH SCALE UP
- ✓ NEW TYPES
- ✓ PREDICTIVE
- ✓ FIRST TESTING LINE

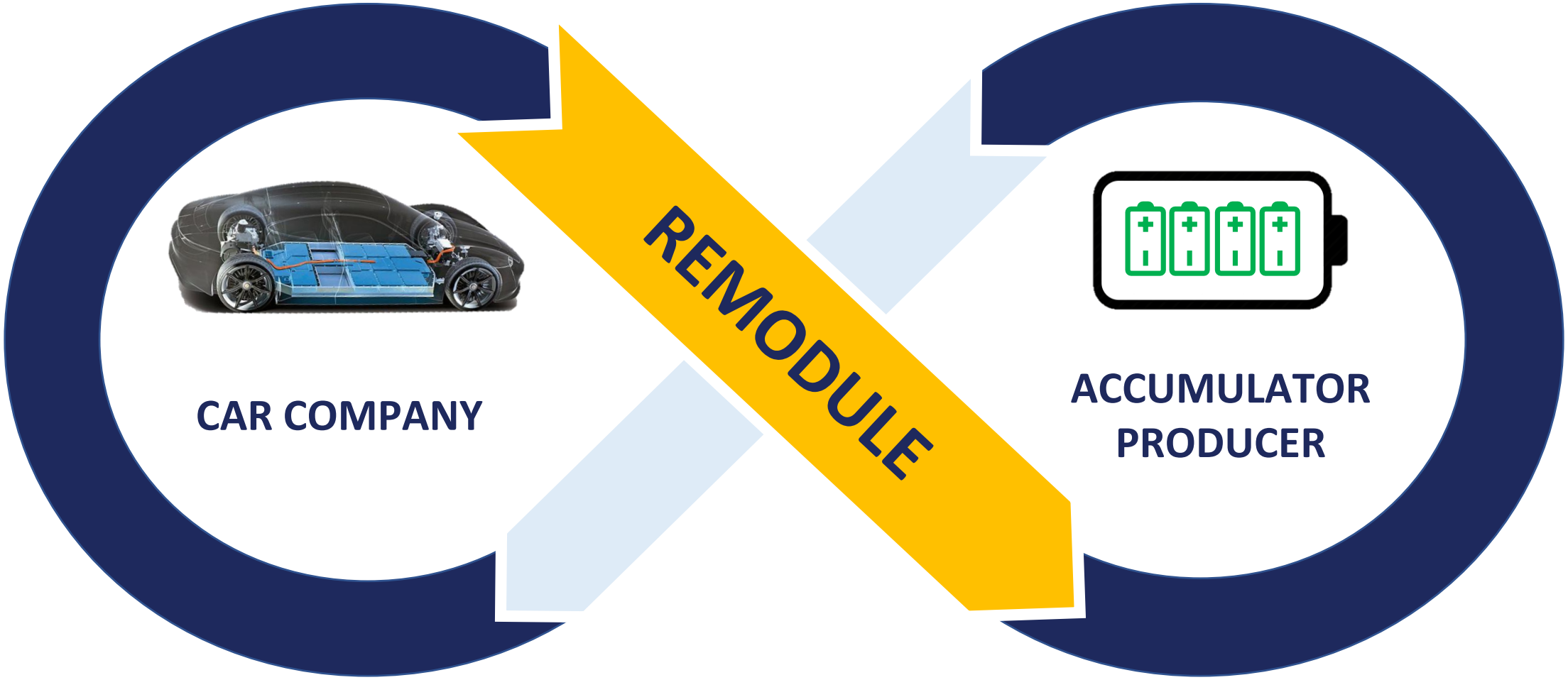
GO TO MARKET:

- ✓ PLANT
- ✓ BUSINESS SCALE UP
- ✓ LOGISTICS
- ✓ FIRST SALES

STRENGTHENING:

- ✓ NEW PROCESSES
- ✓ FLEXIBILITY

SECOND-LIFE CHAIN



WE REALIZE THE CONNECTION BETWEEN CAR COMPANIES AND ACCUMULATORS MANUFACTURERS, GIVING LIFE TO THE BATTERY CIRCULAR ECONOMY

PARTNERS

TACC
Training for Automotive Companies Creation

TACC PROGRAM

UNIVERSITAS STUDIORUM MUTINENSIS ET REGIENSIS 1175
UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA

ELECTRONIC ENGINEERING

PAOLO GUIDELLI GUIDI

REPOWER
L'energia che ti serve.

REPOWER ITALIA

AWARDS

SPECIAL MENTION:
«CIRCULAR ECONOMY»

PREMIO MOBILITÀ 2019

AESS

SPECIAL PRICE REPOWER
50k € SUPPORT

REPOWER
L'energia che ti serve.

REPOWER ITALIA SPA

BEST TEAM OF THE
TACC PROGRAM

GIAKOVA
YOUR TECHNICAL TEAM

GIAKOVA SRL

SPECIAL PRICE INDUSTRIO:
2-MONTH SUPPORT

INDUSTRIO

INDUSTRIO VENTURES

«NEVER WASTE AN OPPORTUNITY»

TO GET IN CONTACT

info.remodule@gmail.com