

# DRIVE SAFER, LONGER, FURTHER WITH AN ELECTRIC CAR

## 1. WE KNOW

### MAT4BAT ADVANCED MATERIALS FOR BATTERIES

Types of electric cars:  
HYBRID, PLUGIN HYBRID, ELECTRIC



LONG CHARGING TIME COST/PRICE LIMITED CHARGING STATIONS	<b>LITHIUM ION BATTERY</b> most popular form of storage at the moment in  crucial 	<b>HIGH ENERGY DENSITY</b> <b>FASTER ACCELERATION</b> <b>RE-USE</b>
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### ELECTRICITY VERSUS SUPPLY AND DEMAND

We encourage charging depending on the needs of the electricity system (e.g. availability and balancing of electricity, or network constraints) and depending on the availability of solar and wind energy.

CHARGING IN PUBLIC PLACES

CHARGING AT WORK

CHARGING AT HOME AT NIGHT

### An electric vehicle for everyone's needs

### SOLUTION

Flexible charging depending on the needs of the electricity system, e.g. availability of sun and wind energy

**VITO APP**

TIME TO LEAVE

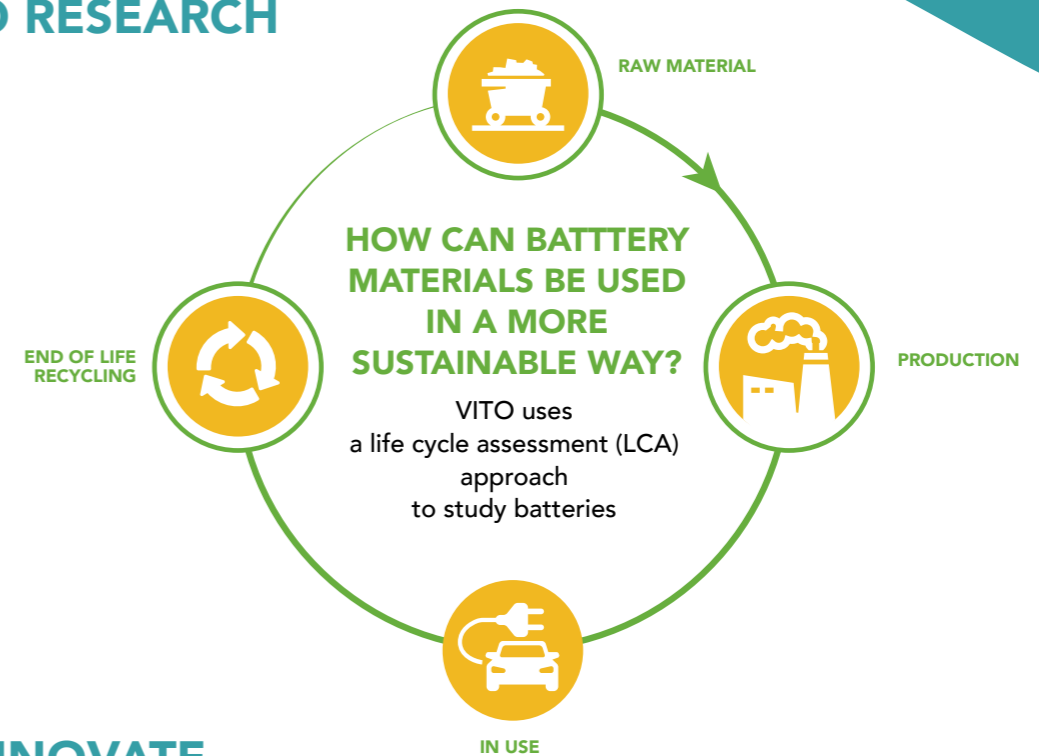
DESTINATION

BEST TIME TO CHARGE

mat4bat.eu

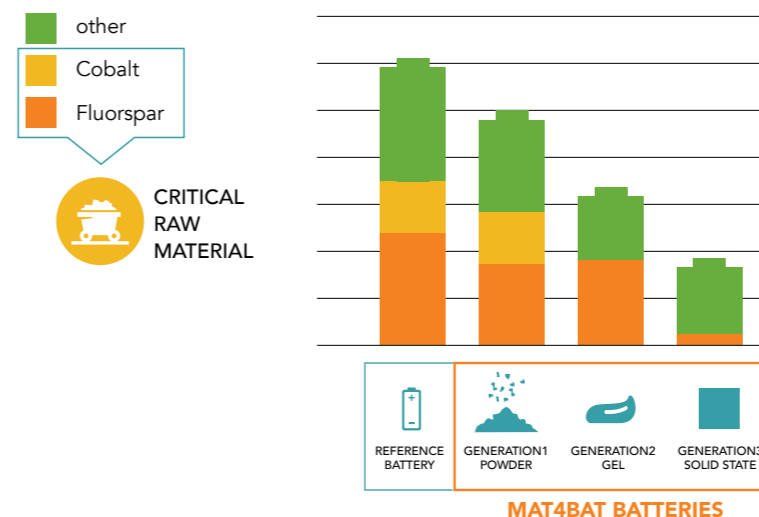
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## 2. WE DO RESEARCH



## 3. WE INNOVATE

### COMPARISON REFERENCE BATTERY AND BATTERIES DEVELOPED DURING THE MAT4BAT PROJECT



Within the M4B project we identified the optimum battery use condition combinations that would improve the battery performances especially its lifetime and safety. These combinations are implemented in the battery management system which keeps the battery working within these limits.

Our European partners

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