
InoBat

Slovak Battery R&D and Production Company

— 18th November 2019
CEEC XIII
Bratislava

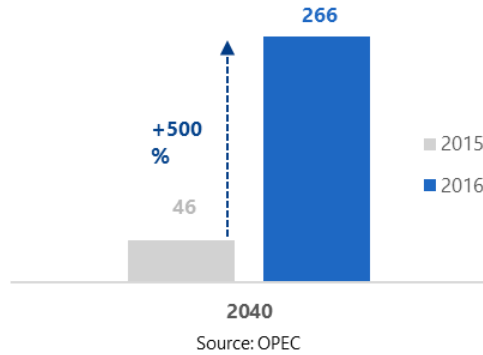
Panel IV:
Towards Cleaner Mobility
14:30 – 15:45

InoBat[†]

I. Macro Trends

EV sales driving demand

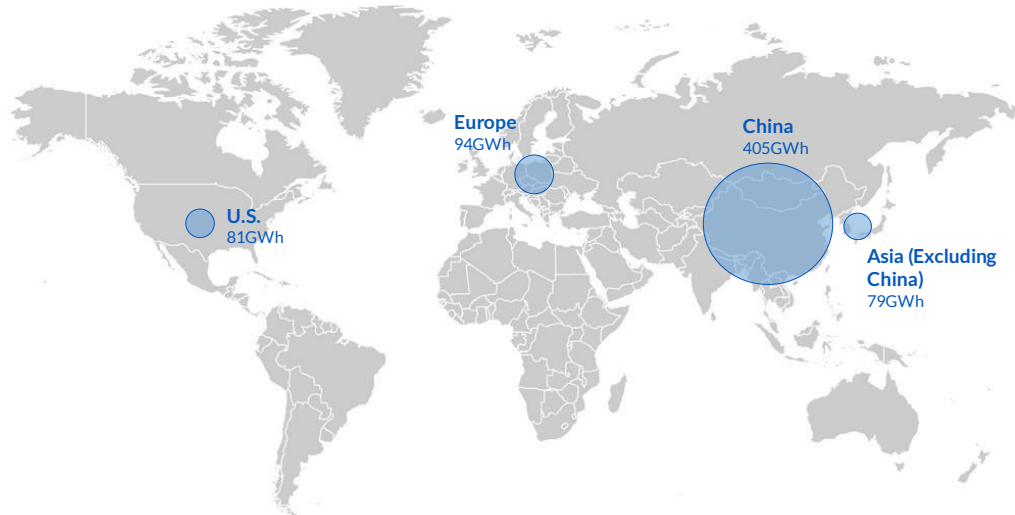
2015 & 2016 OPEC projections of no. EVs in millions, for 2040



The EU is estimated to be **5 years behind in its battery technology development** and will need several years to catch up to current market players

The EU will have to **rely on foreign producers** for the foreseeable future, unless it makes up for the delay in the next 2 years

Asian players driving supply



Capacity by region (2023)
Source: Benchmark Mineral Intelligence

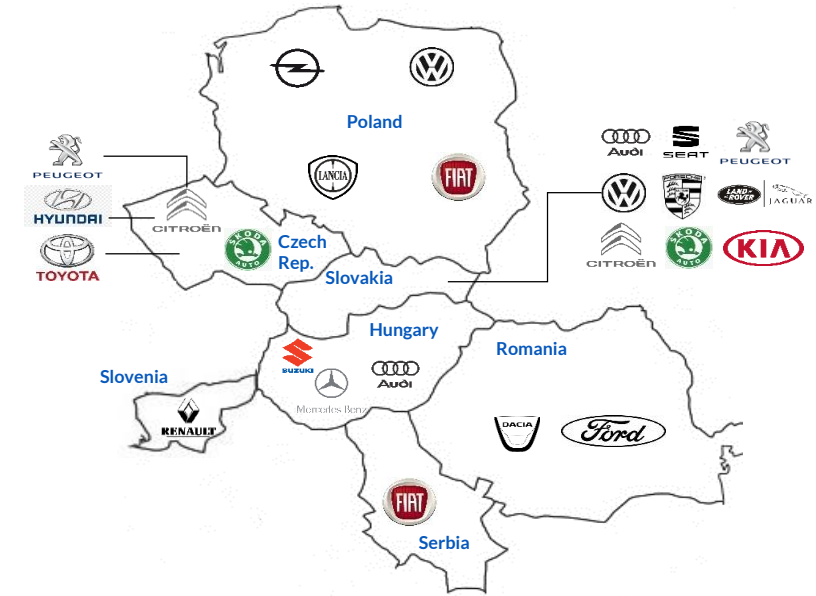
To be able to fight Asian battery market we need to build **complex value chains**, from the mining, through production, to recycling

It is crucial to assure **continuous technological development** in order to compete with Asia in a long term

2. Slovakia as a Strategic Hub

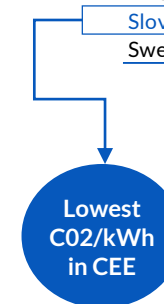
- The automotive-rich regional background and the high local concentration of automotive OEMs
- Global no.1 auto producer per capita
- Global no.15 in number of installed robots in Manufacturing Industries
- Well developed and high-quality Tier 1 and Tier 2 supplier network
- Over 20 premiere OEMs such as Volkswagen, Audi, Skoda and Porsche

Due to the lowest carbon footprint among CEE countries (based on its unique energy mix), and low labour costs, Slovakia exhibits the optimal conditions to lead global battery trends



Power source	CO2 (kg/kWh)	Slovakia	
		Energy Mix	CO2 (kg/kWh)
Nuclear	0.009	58.5%	0.005
Lignite	1.210	5.5%	0.067
Bituminous Coal	0.908	5.5%	0.050
Natural Gas	0.704	5.2%	0.037
Oil	0.862	1.5%	0.013
Wind	0.016	0.4%	0.0001
Hydroelectric	0.004	15.4%	0.001
Biomass	0.104	5.5%	0.006
Solar	0.087	2.3%	0.002

	CO2 Emissions (kg/kWh)	Labour Cost (EUR/h)
Czech Republic	0.57	12.60
France	0.07	35.80
Germany	0.55	34.60
Hungary	0.33	9.20
Poland	0.86	10.10
Slovakia	0.18	11.60
Sweden	0.03	36.60



3. Who Are We?

InoBat is a Slovak company aiming to create a **research and development cluster** and accelerator focusing on the development of battery solutions in the energy and e-mobility sectors. InoBat develops technologies with international partners looking to expand their global reach to the European continent in general, especially Central and Eastern Europe.

InoBat is backed by a strong consortium of leading regional entities offering synergies across the entire value chain; from engineering, financing, and construction to R&D and offtake.

InoBat plans to **construct Slovakia-based EUR100m battery production and R&D line starting in 2020**, with a view to upscale to a 10 GWh mass manufacturing facility

Shareholders



Strategic Partners

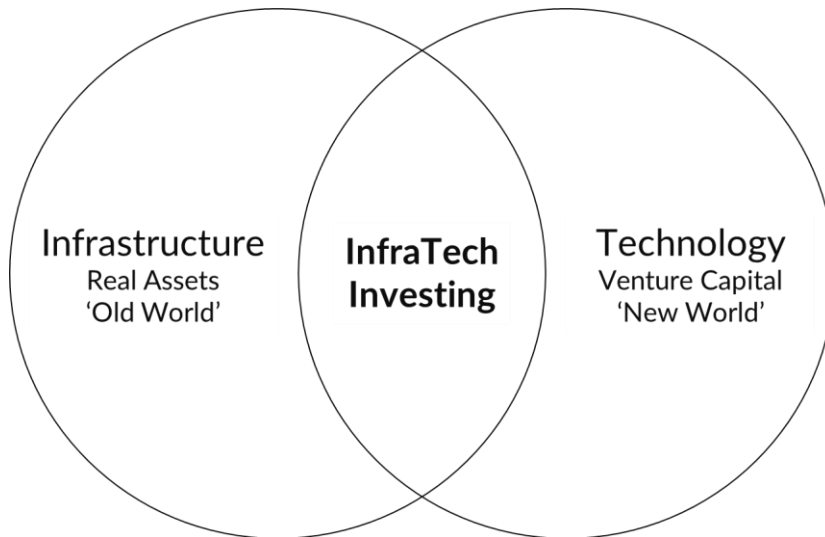


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4. IPM Group

- One of the main leads of InoBat
- Investment & advisory company, with US\$1bn in Assets under Management
- Smart money investor
- Impact investments with a focus on sustainability in the sectors of infrastructure and technology - InfraTech

Redefining traditional infrastructure with new technologies



InfraTech sector, the cross-section between the real assets infrastructure strategy and groundbreaking technologies, that are positioned to solve some of the most pressing global infrastructure issues in the sectors of energy, mobility and AI-enabled critical infrastructure





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