

# 1st Battery Conference

BELGRADE,  
23RD MARCH 2023



# **MOBILITY**

Primož Lemež has been working professionally with e-mobility for more than 12 years

It is indeed the 1st Battery Conference in Serbia, but it will already be the 25th conference organized by Emobility

He participated – as a lecturer, panelist or delegate – more than 60 conferences on e-mobility, energy and the green transition

Primož is also one of the most experienced EV drivers in the world, having driven more than 500,000 electric kilometres in almost every electric car in existence.



# Why

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- To make the professional and general public more familiar with batteries:
- Eco-organizations
- Journalists and media
- Politics and professional institutions
- Universities
- General public (through media)



# Objectives of the conference

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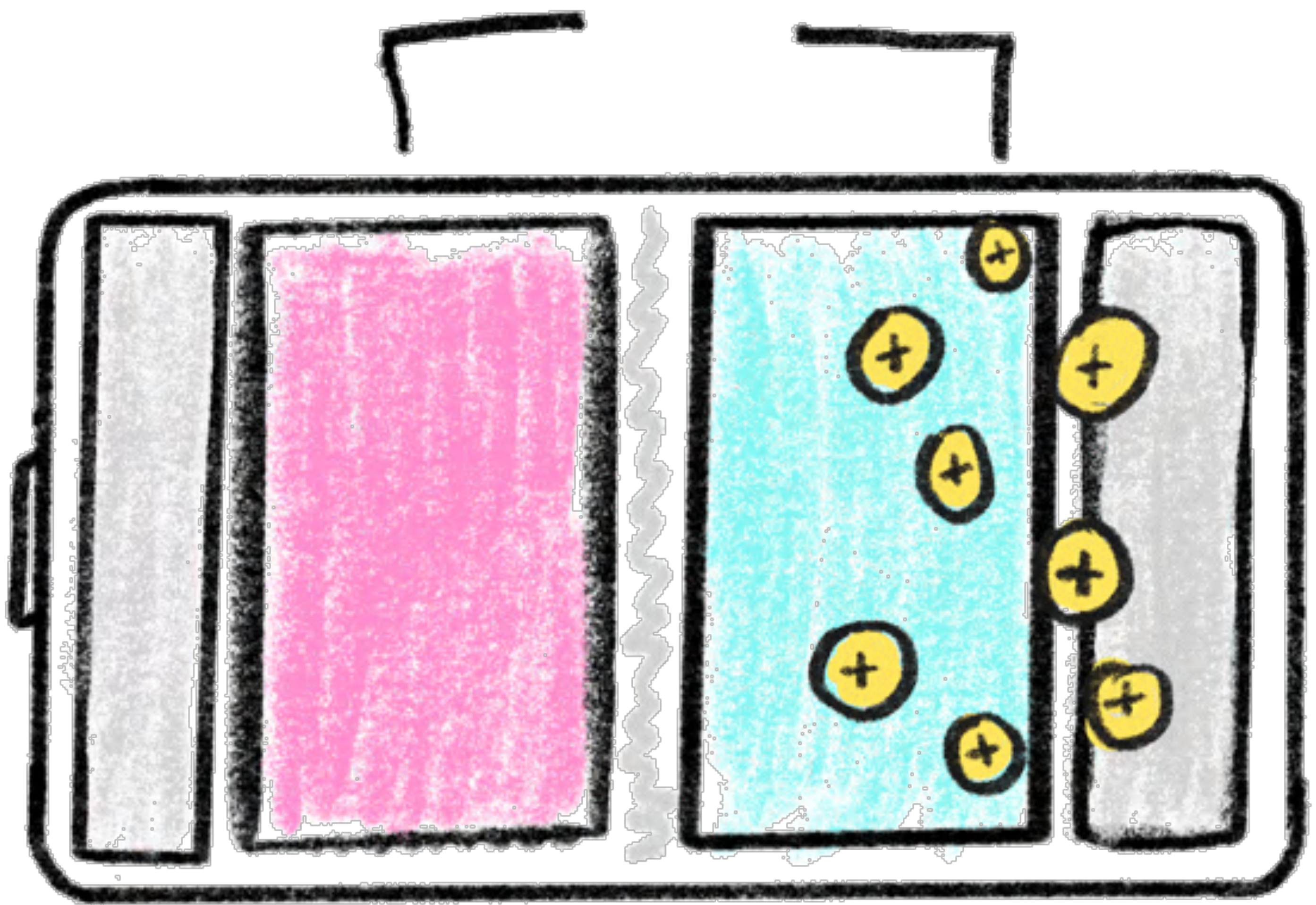
- **Start a professional discussion about batteries (general knowledge of battery technology in Serbia is at the „pub" level)**
- **Letting the public know about the opportunities in the battery business, which is about to become the world's biggest business!**

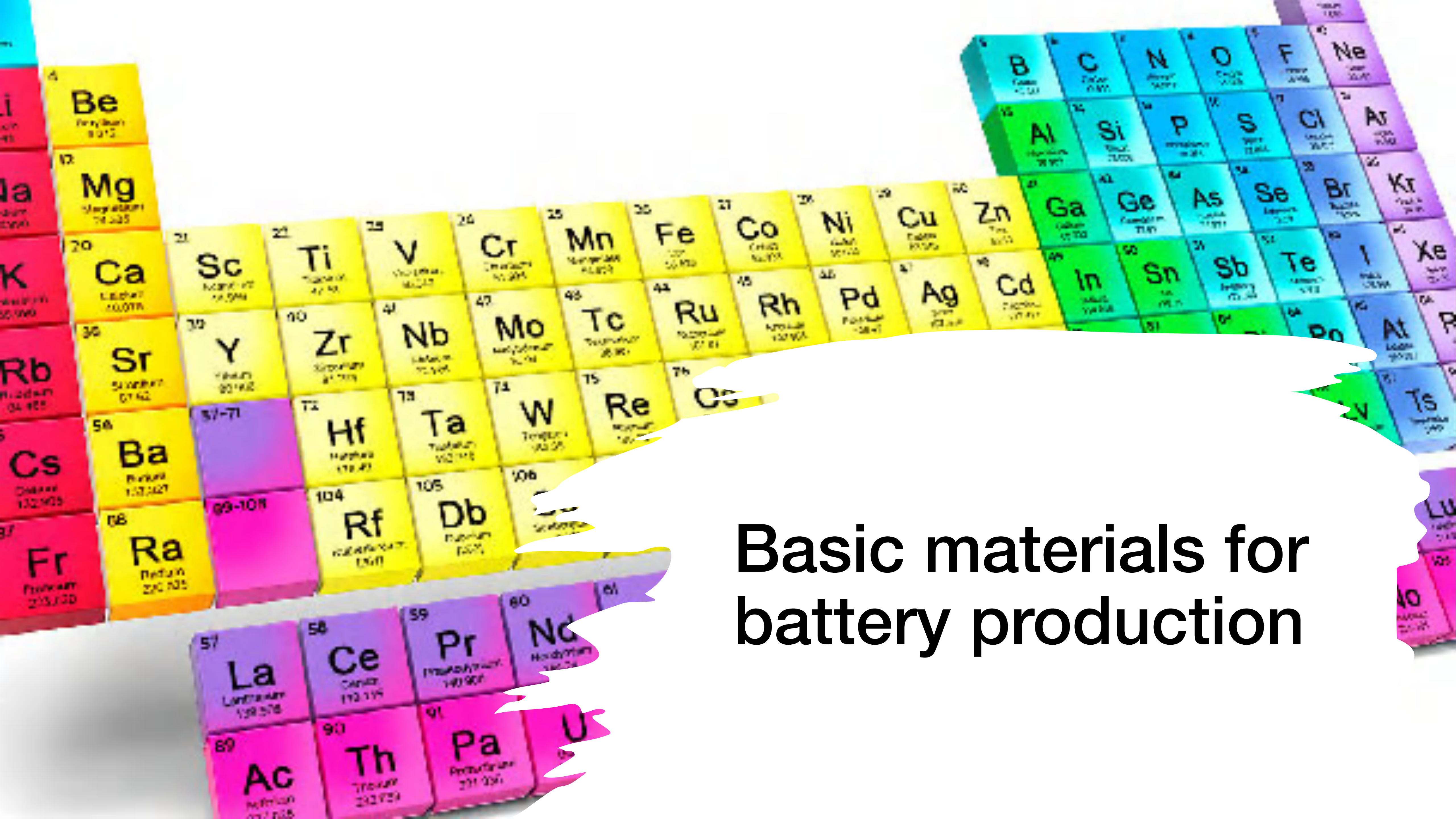
# Content of the conference

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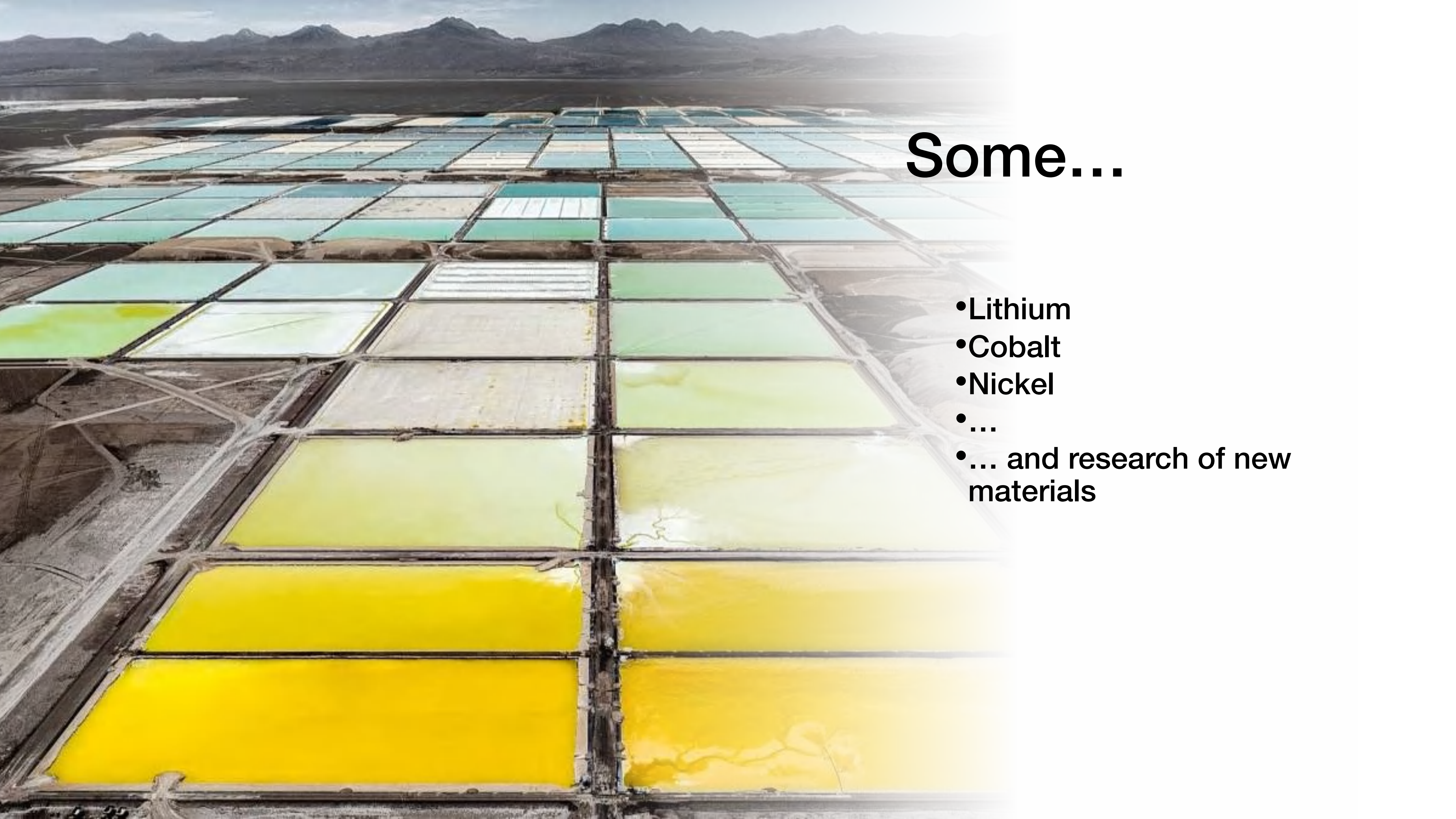
- What is a battery and its history
- How batteries work
- What is a "battery" and what is a battery cell
- Wide utility value of batteries
- Battery chemistry for various applications
- Safety







**Basic materials for  
battery production**



# Some...

- Lithium
- Cobalt
- Nickel
- ...
- ... and research of new materials



# Ecological and social aspects of extraction

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- Where are the basic materials for building battery cells found
- Production of battery cells
- How big the battery business really is and what to expect





## New batteries

- What new materials are researched by experts for the manufacturing of battery cells
- Solid state battery - how far are we?

# Business opportunities

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- The battery business will be one of the most important and largest in the world in the coming years!
- Not only lithium mining, but also battery cell production!
- What can Serbia gain from this?





# Recycling and production

Is that really a problem?

- When will recycling batteries even pay off?
- How will these batteries be recycled and how much hazardous material will remain (if any)
- What will be the price of recycling?



# 1. Konferencija o baterijama

23. MART 2023,  
BEOGRAD



A photograph of the Metropol Palace Hotel in Belgrade at dusk. The building is a large, multi-story structure with a grid of windows, many of which are illuminated from within. The entrance is a prominent feature with a large canopy and steps leading up to it. In the foreground, there is a circular plaza with a fountain and some landscaping. The sky is a pale blue, suggesting twilight.

# Date and location

The 1<sup>st</sup> Battery Conference will be held on **March 23, 2023**

Location:

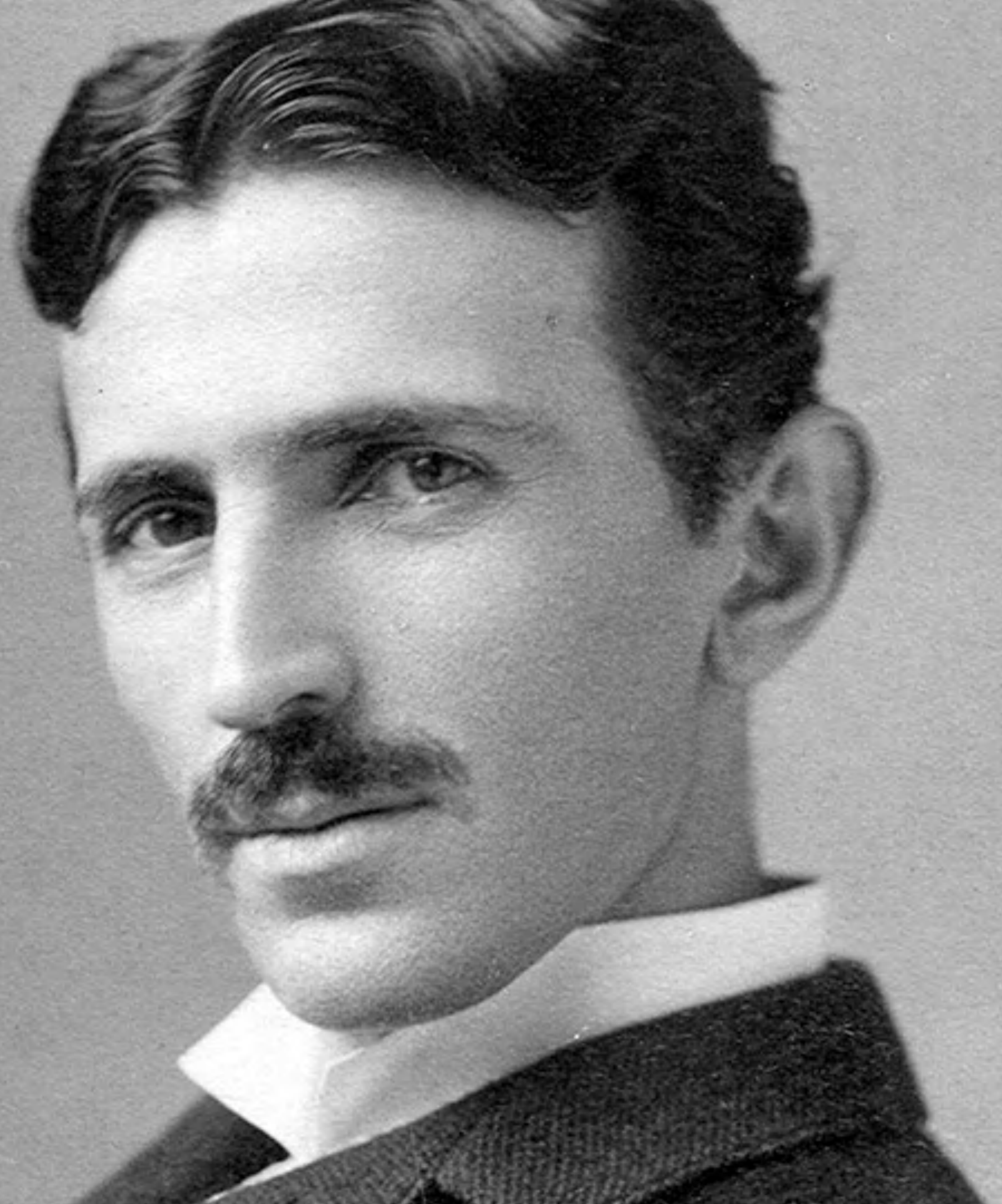
**Metropol Palace Hotel**  
Belgrade, Bulevar kralja  
Aleksandra 69, Beograd 11000

<b>1 Battery Conference</b>		
08:00:00	Registration, breakfast	
08:30:00	Welcome speeches (ambassadors, politicians, sponsors)	
	<b>1st part: Safety and ecology</b>	
08:50:00	Introductory lecture	Primož Lemež, Emobility
09:05:00	Are batteries really that dangerous?	TBA
09:25:00	Battery ecology from birth to death	Dr Gerfried Jungmeier, Joanneum Research
09:50:00	Panel; Battery Ecology and Safety (Primož Lemež)	Dr Gerfried Jungmeier, Dr Robert Dominko, ...
10:30:00	Break	
	<b>2nd part: development and business</b>	
11:00:00	New materials for battery cells	Dr Robert Dominko, Slovenian National Institute of Chemistry
11:25:00	Hungarian Battery Association (HUBA)	Dr. Péter Kaderják, Managing Director
11:50:00	ElevenES	Nemanja Mikać, CEO
12:20:00	Battery and Design; what can we create with solid state batteries?	Dr Marko Luković,
12:40:00	Lunch	
13:40:00	TBA	TBA
14:00:00	Panel; what business opportunities do batteries offer (Primož Lemež)	Nemanja Mikać, Dr. Péter Kaderják, ...
14:50:00	Closing words	Primož Lemež, Emobility
15:00:00	The end of the conference and gathering of the participants	



**“The most important product of  
a creative mind is an invention!”**

*–Nikola Tesla*





# Keynote speaker: Primož Lemež

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"... born 1964 has been an automotive journalist since 1992. He started at the Slovenec newspaper, but very soon became the editor-in-chief of the Grand Prix newspaper. Later, he was also an editor at the newspaper AvtoFotoMarket and at Paprika TV. He now collaborates with various newspapers from Slovenia and abroad, and is the representative of the German e-mobility association BEM for Slovenia and Serbia.

Coincidentally, the Rally introduced Primož to the e-car world, as he was invited as a VIP guest at the ZENN Rally in Monte Carlo. He won 5th place with the Citroen C zero and this was the decisive moment for his transition to the world of e-mobility.

Since then, his entire professional life has been linked to e-mobility. So far, he has organized several conferences in Slovenia and Italy, but recently he organized the 9th Emobility Symposium in Belgrade. In addition, he has already participated as a lecturer or penalty expert at numerous conferences around Europe.

At the same time, he advises various companies, local communities and cities on how to achieve the best possible results in e-mobility."



# Keynote speaker: Dr. Péter Kaderják

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... has a long-standing academic and decision-making experience in the fields of energy-related regulatory process, including energy and climate policy. Formerly, he had served in several high-level government and regulatory positions. He was Secretary of State for Energy and Climate Policy at the Ministry of Innovation and Technology of Hungary, he acted as member of the Supervisory Board of ACER (Agency for the Cooperation of Energy Regulators), he was the President of the Hungarian Energy Office, he was Chief of Cabinet for the Minister of Economic Affairs of Hungary. His academic affiliations are linked primarily to Corvinus University of Budapest and its predecessor institutions, where he received his degrees and established REKK (Regional Centre for Energy Policy Research), which he directed between 2004 and 2018. His past and current activities are strongly linked to the liberalisation and European integration of the Hungarian electricity and natural gas sectors, the successful diversification of the Hungarian natural gas sector, the creation of national strategies to meet climate neutrality by Hungary by 2050. Today, he is engaged in designing and implementing policies, programs, conducting research and providing educational programmes that will move Hungary towards climate neutrality.

Dr. Péter Kaderják is the Head of Zero Carbon Hub at Budapest University of Technology and Economics. In this capacity, he works on policy proposals, projects, research and education programmes that help Hungary to reach climate-neutrality.



## Keynote spiker: dr Robert Dominko

Robert Dominko is research professor at the National Institute of Chemistry and associate professor at University of Ljubljana, Slovenia.

His research interests are in the field of materials science and electrochemistry, more precisely in electrochemical systems for energy conversion and storage, with main activities in the field of modern battery systems. He was a coordinator of two European projects developing Li-S batteries, and he has tight connections with different industry. He received several awards, e.g. the Honda initiation grant (2013) and is a member of Slovenian Academy of Engineering. He is a deputy director of Alistore ERI (<http://alistore.eu/>) and core member of Battery 2030+ initiative (<https://battery2030.eu/>).

Robert Dominko has published more than 120 peer-reviewed papers (H-index 50 SCOPUS 06/2020).

He is one of the world's leading researchers in the field of battery chemistry.

# Keynote spiker: Nemanja Mikać

Nemanja is the Founder and CEO of ElevenEs where he manages an international team of LIB engineers with the goal to scale up LFP battery manufacturing in Europe. He studied at Imperial College in London, where he completed his Master of Science in Advanced Chemical Engineering.

Prior to starting ElevenEs in 2019, Nemanja spent 10 years at Al Pack Group where he worked in the management of the company, led the acquisition of a subsidiary in Germany and subsequently successfully restructured the subsidiary, achieving a company turnaround from insolvency proceedings in 3 years. Additionally, Nemanja played a significant role during Al Pack's expansion phase from developing new products to integrating complex new value-chains.

ElevenEs is the most advanced European LFP (Lithium iron phosphate) battery cell developer with a clear Gigafactory scale-up plan and vision to be at the forefront of the European energy transition.





# Keynote spiker: Dr Gerfried Jungmeier

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Mr Gerfried Jungmeier has been an energy researcher at the Joanneum Research Forschungsgesellschaft mbH since 1993. He has extensive experience in the development and assessment of systems for eco-mobility, including biofuels, e-mobility and hydrogen, biorefinery, life cycle assessment, sustainable energy systems and climate friendly lifestyles.

He is currently teaching “Ecological Resource Management” at the Vienna University of Technology as well as “Carbon Footprint and Life Cycle” at the Danube University Krems. He is also a key researcher on the “Future Energy Systems and Lifestyle” project at Joanneum Research Forschungsgesellschaft mbH.



# Keynote spiker: prof Dr Marko Luković

... was born in Belgrade in 1977. He graduated from the High School of Design and the Faculty of Applied Arts in Belgrade, Department of Industrial Design. He has been employed at the Faculty of Applied Arts since 2002. He was re-elected to the title of associate professor in 2021. He has been a member of ULUPUDS since 2001.

He started his university career immediately after completing the basic five-year academic studies at the FPU (1996–2001), at the Department of Industrial Design. He obtained his master's degree at the same faculty in 2008. As part of his doctoral studies at FPU, he received an international scholarship S.U.N.B.E.A.M. for the exchange of doctoral students, within the European Union Erasmus Mundus + educational program. Based on that scholarship, he completed a six-month study stay during the 2015/2016 school year. at the Department of Industrial Engineering, Faculty of Engineering Sciences, University of Bologna, Italy.

And he made a design for one of the best solar cars in the world: the Emilia 4!



# Student tribune on batteries

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Even the evening before, we will organize a Student Tribune entitled "Ask the experts about everything you are interested in about batteries".

The tribune will take place 22<sup>nd</sup> March in the Dom Omladine Beograda, Makedonska 22, Beograd



# Studentska tribina:

Sve što ste hteli da znate o baterijama, ali se niste usudili da pitate

**Dom omladine Beograda**  
**22. mart u 18.00**

Ovo je jedinstvena prilika da na jednom mestu saznate sve o baterijama, razgovarajući sa međunarodnim stručnjacima!





<https://emobility.si/prijava-1-battery-conference/>

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**Partnership**

**1st Emobility conference on battery technologies**

# Partners and friends of the conference



# What can a sponsor get

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- Companies and organizations can present themselves at the 1st Battery Conference with lectures in the main part of the symposium or individual lectures for small groups
- We will also provide all interested parties with the possibility of exhibitions, lectures for small groups, demonstrations, additional informal receptions for participants, ... (The content of the lecture must be related to battery, or topics to be determined by the conference organizing committee)
- Beach flags, table flags, exposure with the logo in all promotional materials on social networks and media, and all official communications
- From experience we gained with years of organizations of conferences we know, that each partnership needs individual discussions.
- We will be very happy to personally visit you and discuss a potential cooperation.

# Join our sponsors

Organizer



Sponsors



# Join our partners

## Partners



# Thank you for your attention



*Emobility, Primož Lemež*