

BATTRION

accelerating batteries.

We make batteries charge faster

Battrion's technology enables **lithium ion batteries that charge faster and are cheaper.**

Without degrading the **battery lifetime.**

Drive range after 20min charging¹⁾:

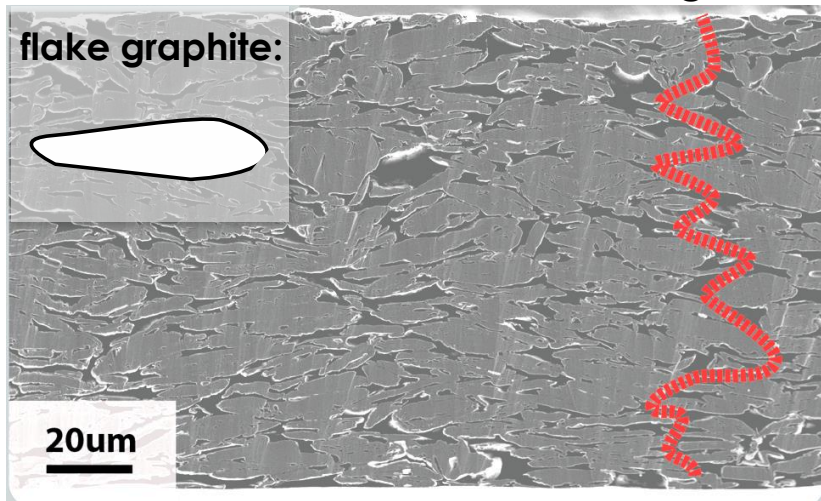
Today: 200km



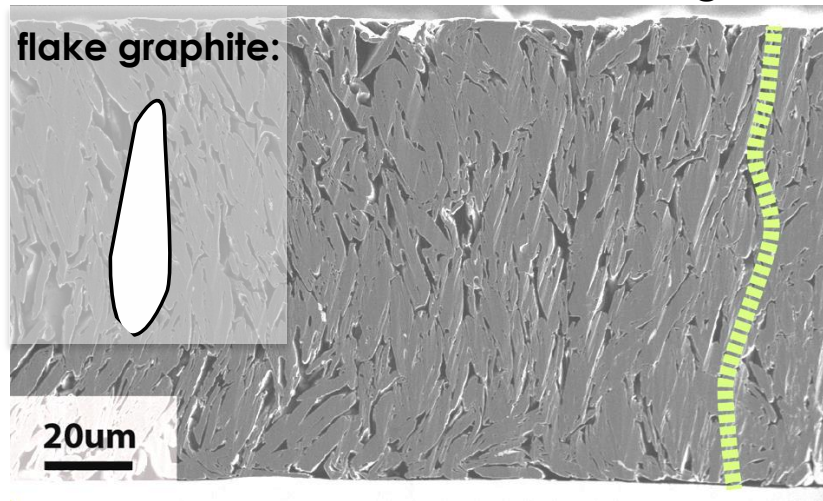
¹⁾ Charging power: 120kW ²⁾ Charging power: 180kW (+50%) Estimated range: 5 km/kWh

Our alignment technology

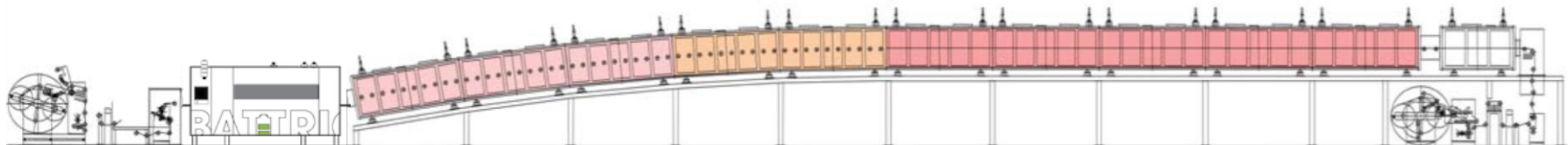
Not Aligned



Aligned



Fabrication Technology + Process Know-how



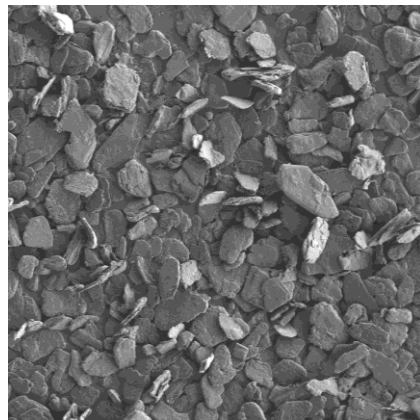
Reduced cost and increased sustainability

State of the art



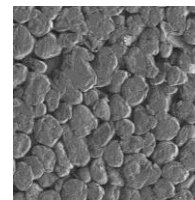
Graphite Mine

purification



Flake Graphite

70% waste



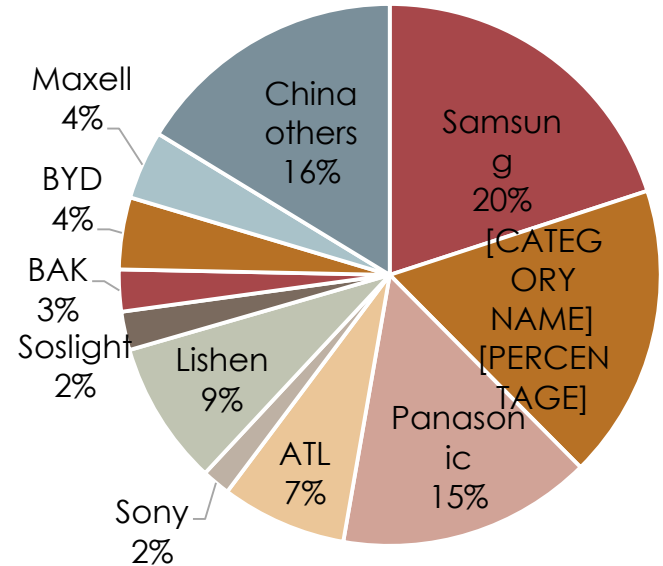
Spherical Graphite

Market opportunity

2017 Total production cap.: 100 GWh
 2017 Market volume: ~20B USD (+30%/year)
2017 Addressable market: 300M USD

2015 Quantities:

Samsung: 6.3 GWh	→ 17M USD
LG Chem. 4.8 GWh	→ 13M USD
Panasonic: 5.5 GWh	→ 15M USD
Lishen: 2.8 GWh	→ 7M USD
ATL/CATL: 2.7 GWh	→ 7M USD
Sony: 2.4 GWh	→ 6M USD

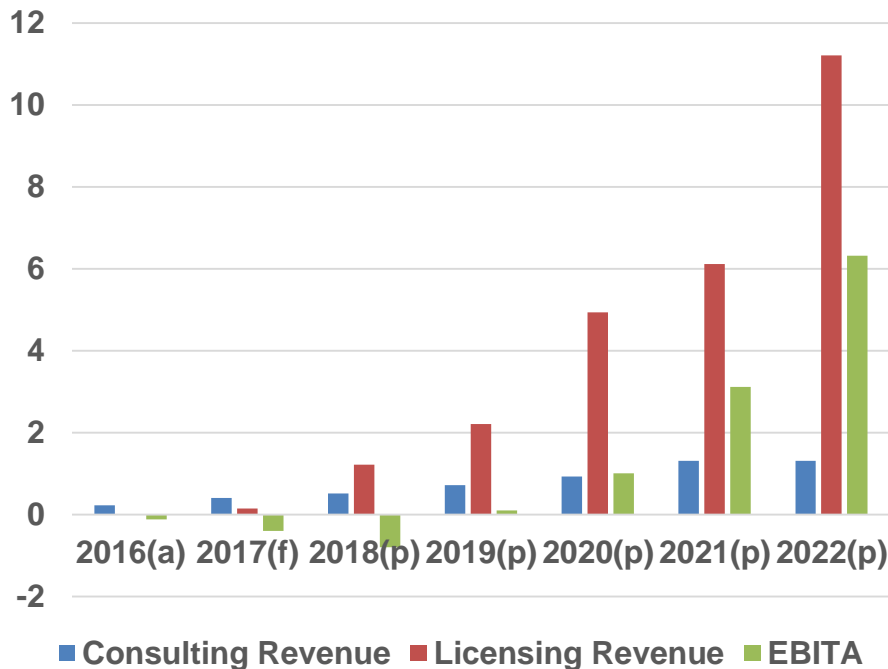


Business model/Financials

- **Business model:**
- Development project: x\$ upfront
- Machine lease: xUSD/kWh
- Service contract: flat-fee

- **Growth target:**
- 3% Market Share in 5 years
- 1 new line in 2018, 2 lines in 2019
- Total 15 lines in 5 years

Financial Projections (MUSD)



Founder team



Martin Ebner
CEO, President

- EE PhD ETH
- Team Leadership
- Technology Transfer



Max Kory
Technology

- Chem PhD ETH
- Polymer Chemistry
- Product Development



Felix Geldmacher
Operations

- ME MSc ETH
- Aerospace Industry
- Finance & Operations



Deniz Bozyigit
Analytics

- EE PhD ETH
- Postdoc at MIT
- Data, Software
- Boston Office



Gregor Berchtold
Legal/Strategy

- Lawyer PhD
- Technology Licensing
- Automotive Industry

Board of advisors



Vanessa Wood, Prof
Science Advisor



Frank Wolf, DI
Automotive Advisor



Stefan Barny
Asia Advisor



Peter Schweizer, PhD
Coating Advisor



JJ Becciolini, MSc
Business Advisor



Ivan Exnar, PhD
Battery Advisor

Status and Roadmap



We successfully **demonstrated our process on a pilot-scale** fabrication line.

We obtained **3rd party validation** from 3 major cell manufacturers

Next, we will develop and install the **full scale machine** with one of our customers.

