

The logo for BroadBit Batteries is centered at the top. It features the word "BroadBit" in a bold, black, sans-serif font. A horizontal line is positioned below the "Broad" portion of the word. Underneath this line, the word "Batteries" is written in a black, italicized, serif font. The "Bit" portion of "BroadBit" is rendered in a larger, bold, black, sans-serif font, with a white plus sign (+) integrated into the letter 'i'.

BroadBit
Batteries

**Revolutionary high performance
batteries based on
common/cheap materials**

BroadBit Batteries Oy
April 2018

The Rechargeable Battery Market



> 60 B\$ today

The Rechargeable Battery Market



> 60 B\$ today



> 1 T\$ in 15 years



Growth is driven by regulations

Germany's Bundesrat Resolves End Of Internal Combustion Engine

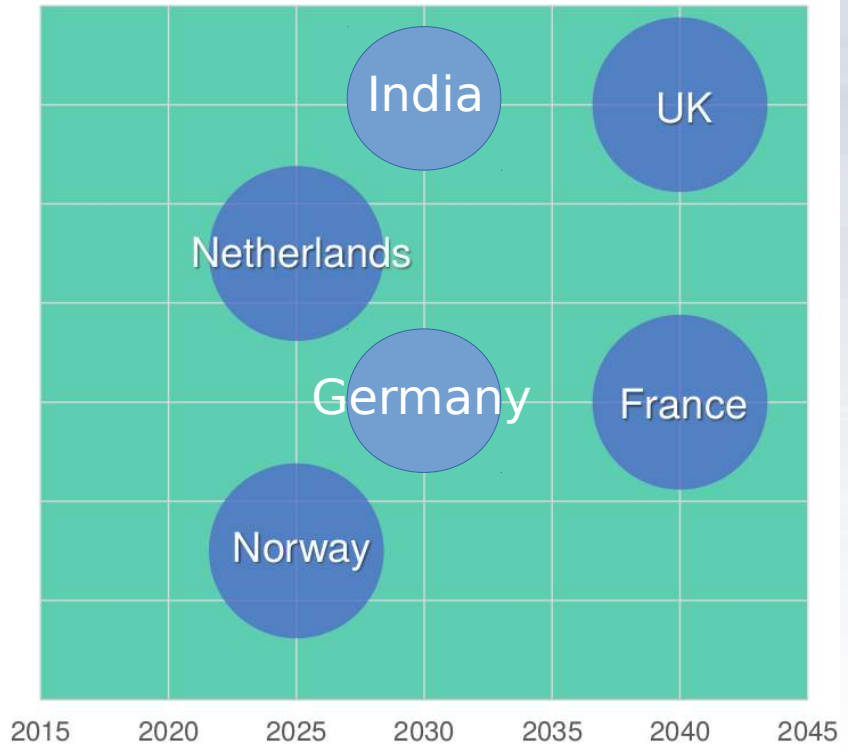


Bertel Schmitt, CONTRIBUTOR
I have written about the auto industry all my life. FULL BIO ✓
Opinions expressed by Forbes Contributors are their own.



German Transport Minister Alexander Dobrindt in a Tesla S at the 2014 AMI Auto Show (Photo: Jens Schlacter/Getty Images)

Diesel and Petrol Bans (year)



Current battery tech limits market

Existing batteries are:

High Cost

Poor Performance

Limited scalability

BroadBit's unique solution

**Revolutionary
principle**

Salt (NaCl)



Coal (C)



**Low cost raw
materials**

Sulfur (S)

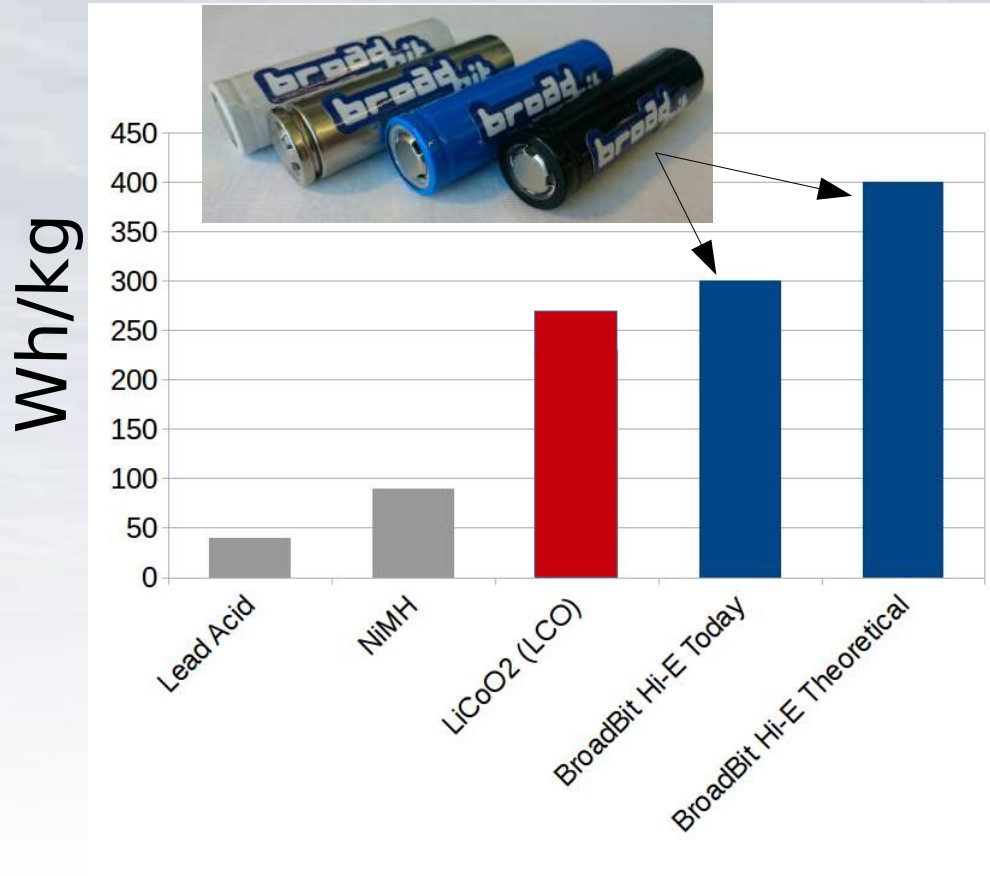


Sand (SiO₂)



1st patent granted and multiple additional pending

BroadBit Sodium batteries are better



Cheap and abundant materials

Unprecedented performance

Simple Manufacturing

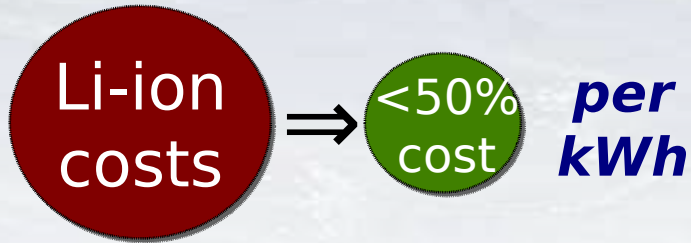
Non-flammable and robust

Third party verified

BroadBit is better and cheaper

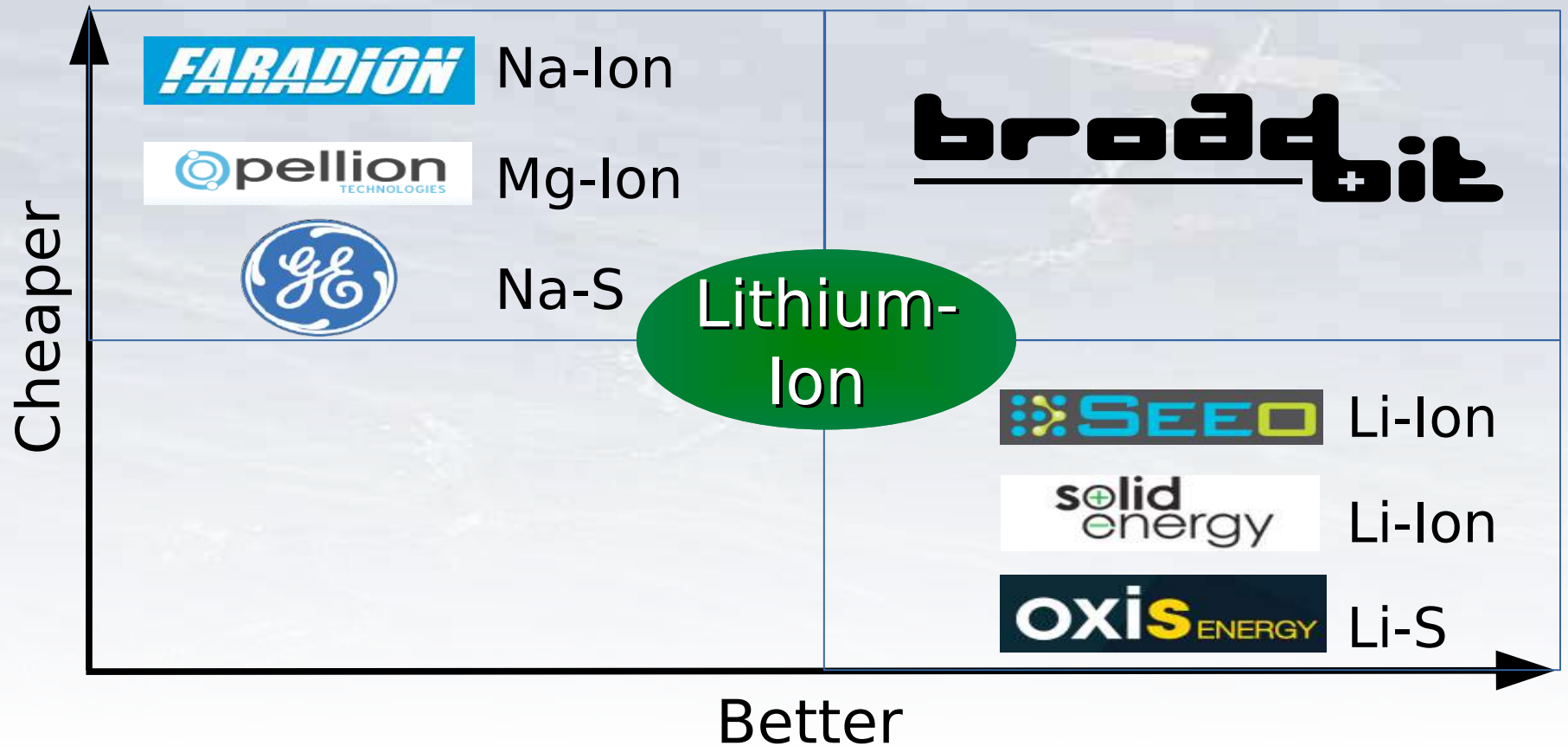
> 25% lower cost per kg

> 25% higher capacity per kg



Virtually unlimited scalability

BroadBit outclasses the competition



BroadBit opens new markets

Sufficiently high energy
enables electric airplanes



Sufficiently low-cost
enables grid storage



Sufficiently high power
replaces starter batteries



BroadBit's business is scalable

Stage 1

Electrolyte + Anodes & Cathodes



Components



BroadBit's business is scalable

Stage 1

Stage 2

Electrolyte + Anodes & Cathodes



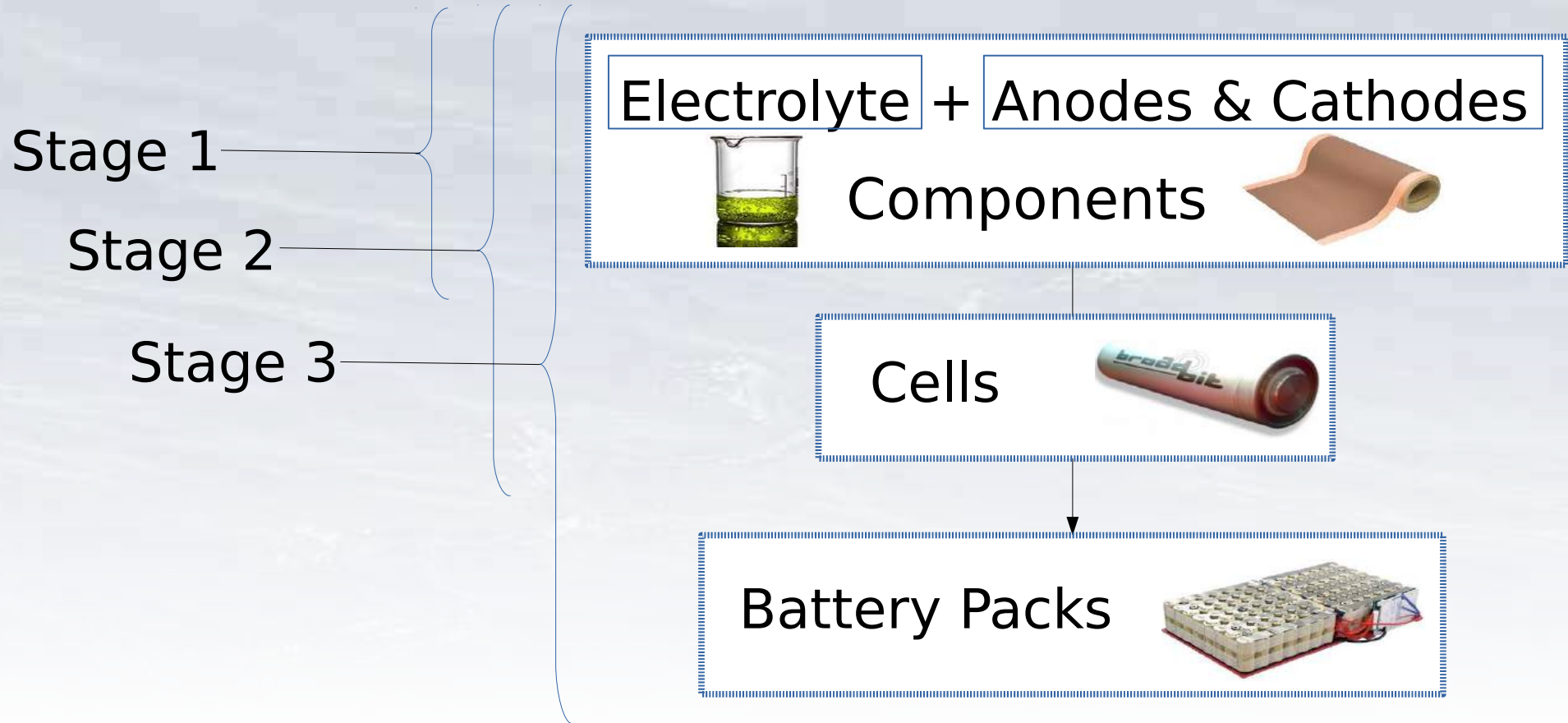
Components



Cells



BroadBit's business is scalable



BroadBit has an experienced team

David Brown, PhD (CEO):



Andras Kovacs, MSc (CTO):



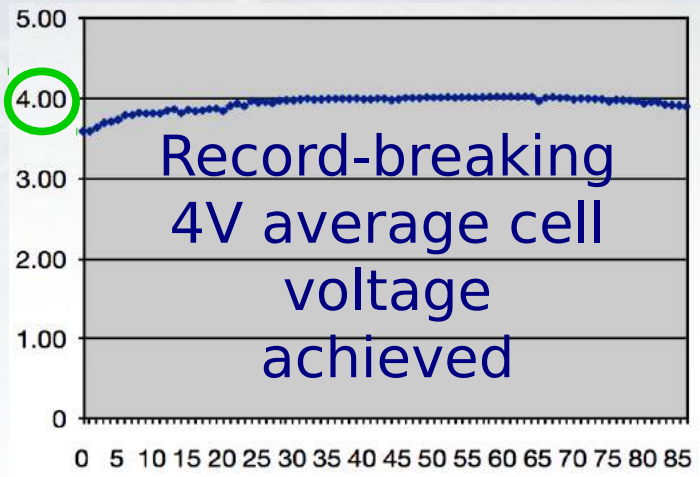
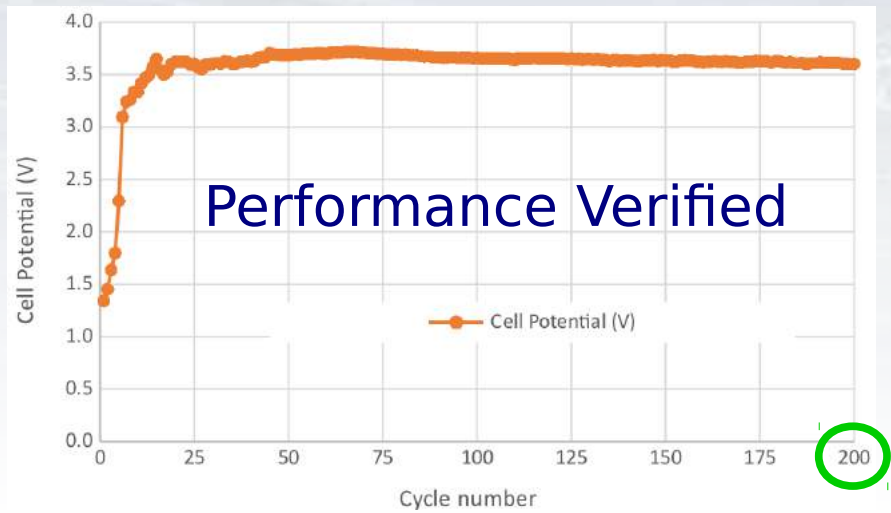
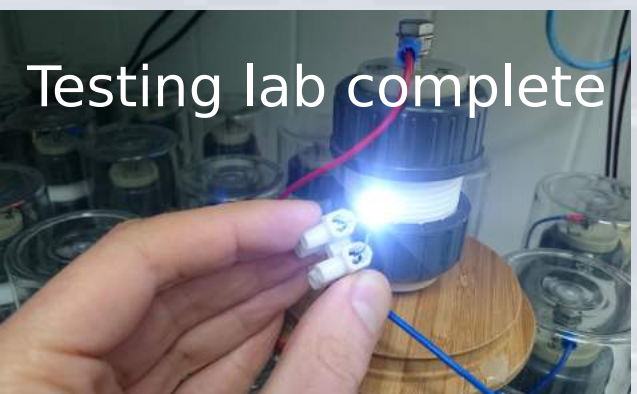
Tapani Alasaarela, PhD (Chief Eng):



David Lloyd, PhD (Chief Chem):



BroadBit is preparing for market



BroadBit R&D assembly capabilities



Spiral in rolling machine



Spiral ready for anode tab weld

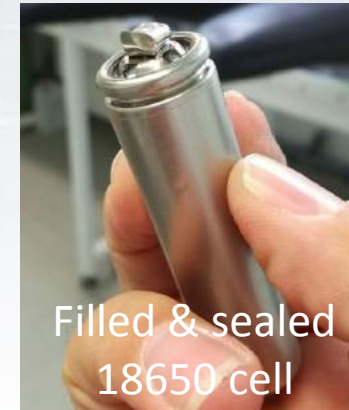
BroadBit: the only EU Co. able to make custom cylindrical cells



Spiral cell
"jelly roll" complete



Test cell
ready for filling



Filled & sealed
18650 cell

BroadBit is preparing for rapid growth

Investments to date:

400 k€ internal (not counting sweat)

500 k€ equity

900 k€ Government grants and loans

Funding goals:

1.2 M€ Q2 2018

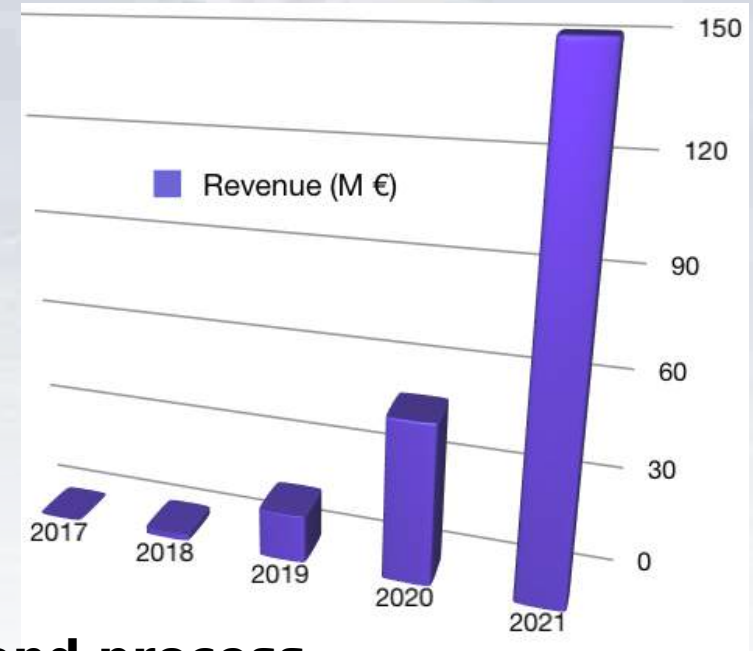
7.5 M€ Q2 2019

Use of investment:

Complete pilot facility & certify product and process

Purchase outsourced battery assembly

Revenue Forecast (k€):



Changes in policy to support storage

Remove double electricity use taxation:

Now taxed both when charging and when consumed off site

Make tax based on electricity price:

Now tax is based on amount of electricity

Remove double electricity transmission tax:

Now taxed both when transmitted to and from storage site

Change regulation to favor electricity storage:

Now regulations encourage TSOs & DSOs to expand grid instead of store

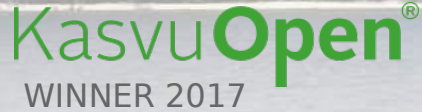
Energy
Week
TOP 30

broadbit

SLUSH
TOP 20

Never run out

Contact: David Brown, PhD
david.brown@broadbit.com



Runar
Backstrom
Grant

