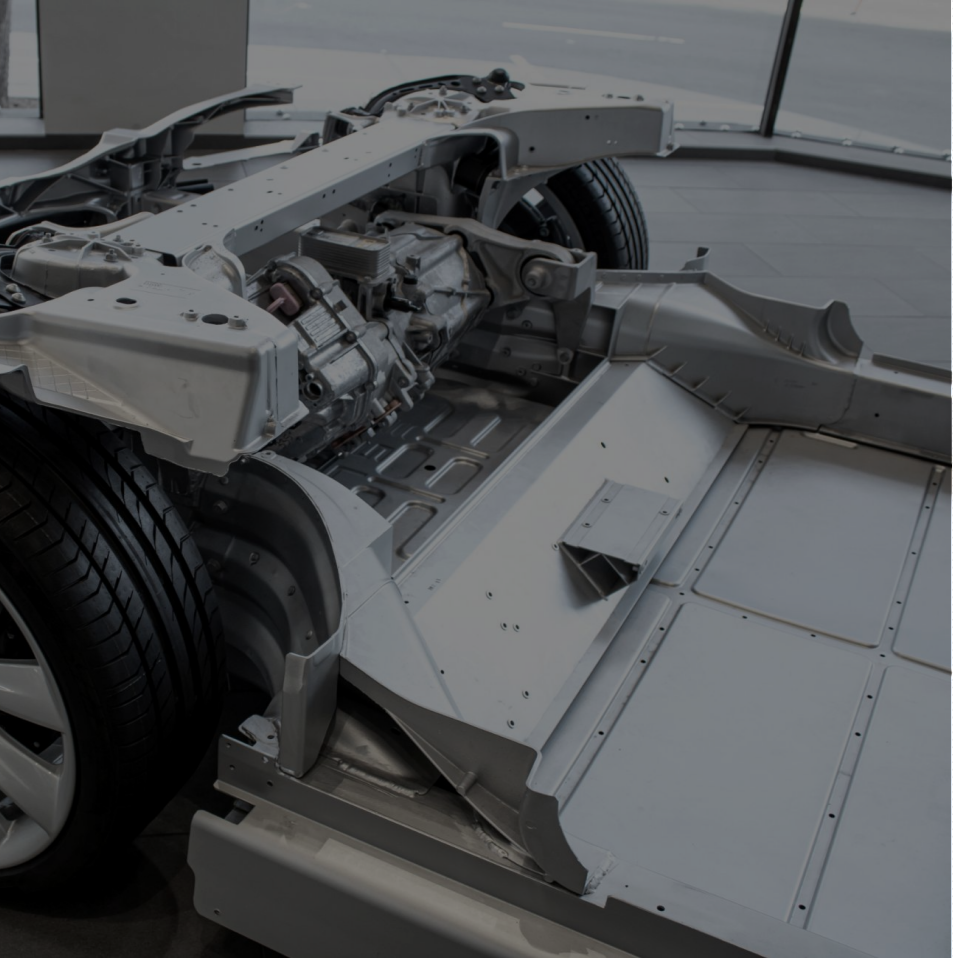


VOLTAIQ

Enterprise Battery Intelligence (EBI) Product Introduction for MPSC General Meeting

May 2022

Tal Sholklapper, PhD – CEO and Co-Founder



About Voltaiq

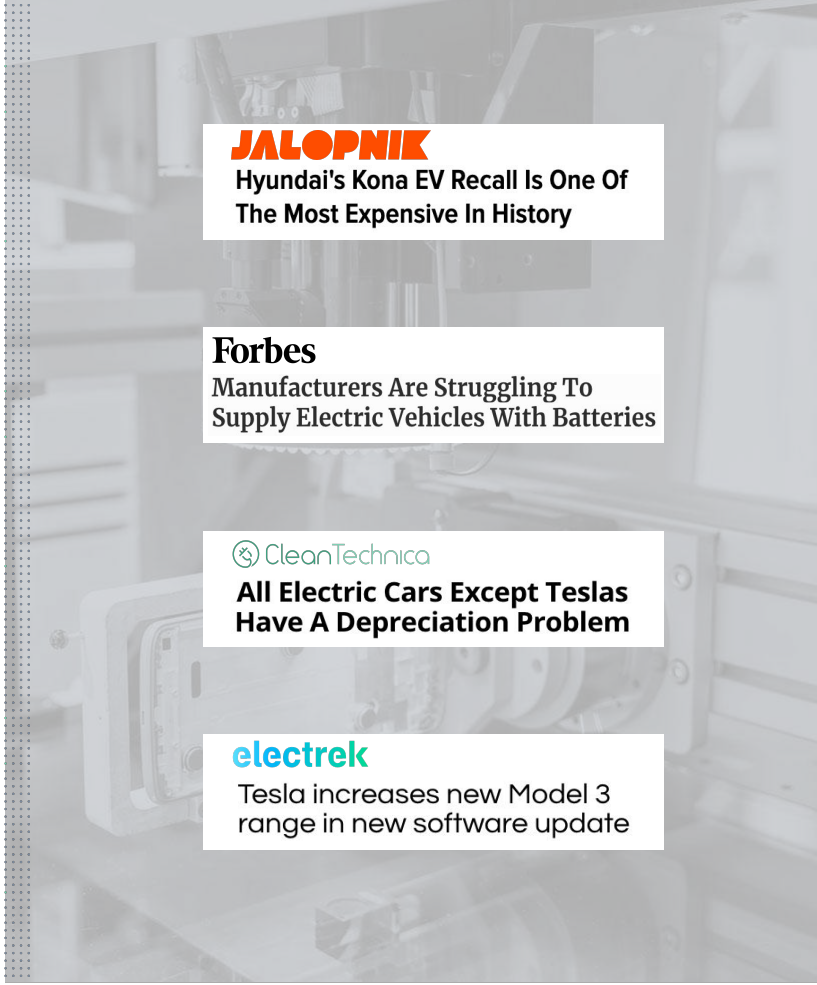
- Founded in 2012 to provide world class analytics to the battery industry and its customers
- Created the industry's first Enterprise Battery Intelligence (EBI) Platform combining SaaS, deep electrochemistry expertise, and large-scale data analytics
- In use at the world’s largest automotive, consumer electronics, and battery companies
- Over 100 electrified vehicle platforms and consumer products in the market today were engineered using Voltaiq’s EBI platform

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EBI: The key to electrification

- Batteries are more like living organisms than like inert mechanical or electronic components. Their complexity can can make or break your business.
- Data analytics are the only way to truly understand your batteries and maximize their value.
- Enterprise Battery Intelligence (EBI) leverages data to optimize the impact of batteries on every part of your business:
  - Bring products to market faster
  - Ensure high-quality battery supply
  - Decrease manufacturing ramp time
  - Minimize battery product risk
  - Optimize systems in the field
  - Maximize financial performance
- Voltaiq invented EBI and today is trusted by the world's best known brands.



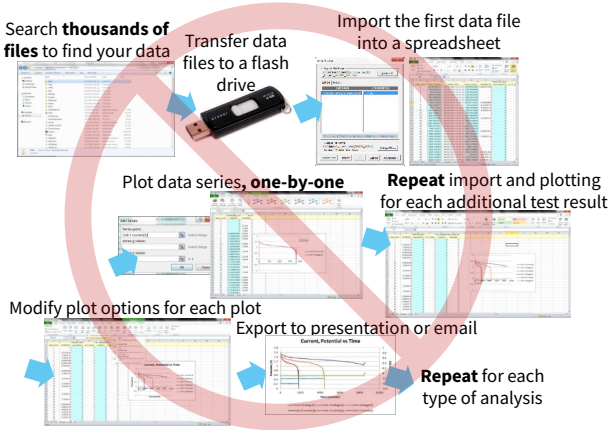


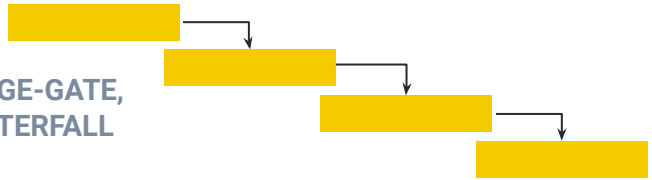
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Enterprise Battery Intelligence vs the status quo

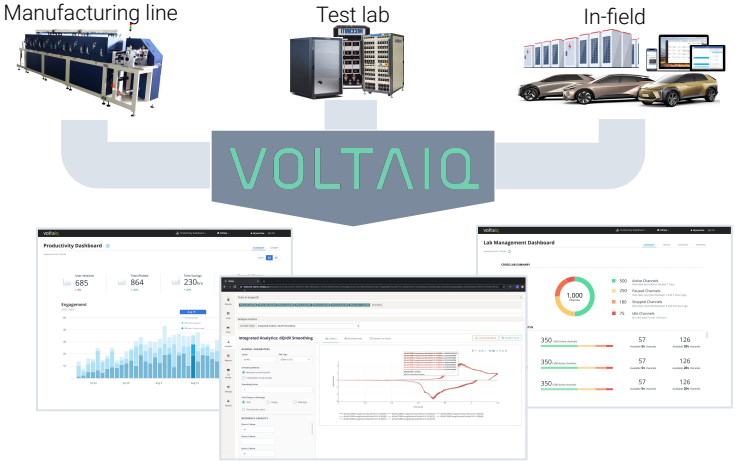
Voltaiq EBI enables the agile, real-time learning and risk reduction needed to stay competitive

INDUSTRY-STANDARD ANALYSIS





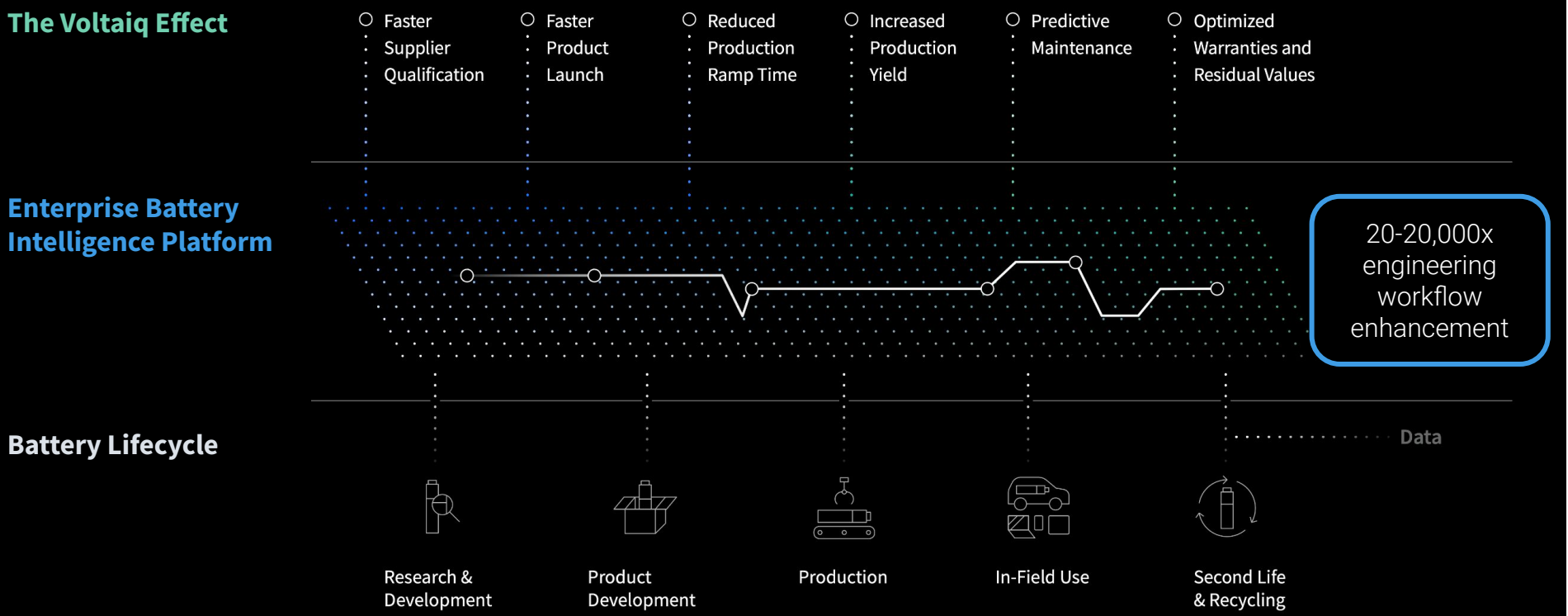
VOLTAIQ-POWERED ANALYSIS





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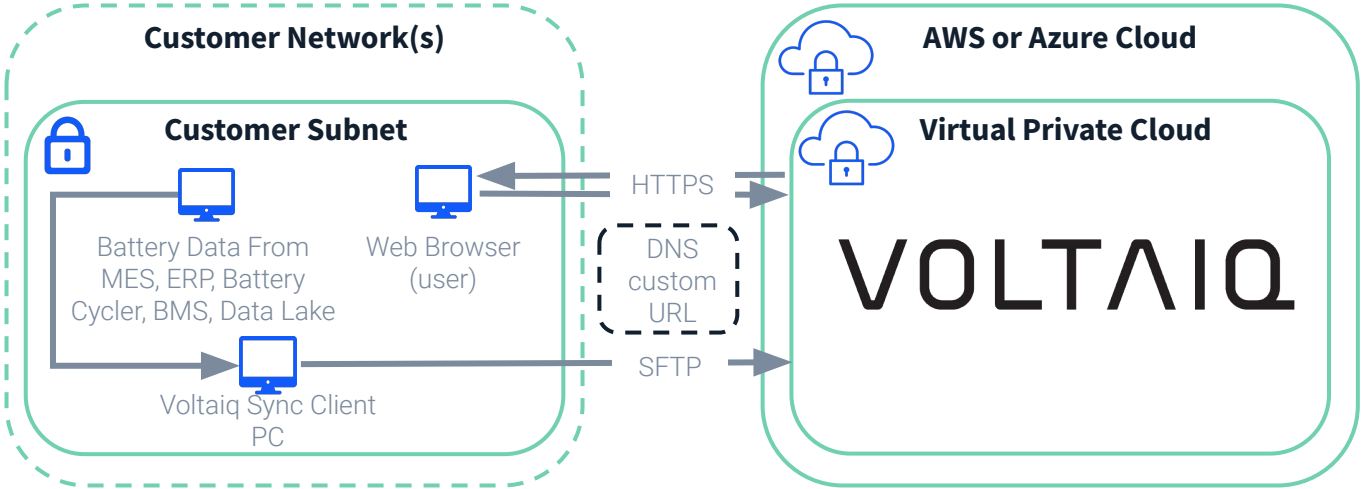
EBI accelerates electrification efforts and unlocks value in battery products



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System architecture

Voltaiq provides a secure managed application as part of your subscription



Voltaiq-supported security policies and regulations

- GDPR
- ITAR
- SOC2
- SSO (Single Sign On)

All current technical requirements, including TLS Ciphers, backup protocols, and access control are available upon request.

Security highlights

- Your battery data is always fully under your control
- You have complete administrative control over data visibility and access
- Your data is encrypted at rest and in flight
- Your data back-ups are also encrypted
- Authorized users can securely access Voltaiq via any modern browser over HTTPS

Regardless of your hosting environment, your data is never visible or accessible by Voltaiq without your express permission.

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2022 Roadmap Major Initiatives

Focused development along four dynamic functional streams

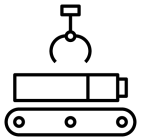
Voltaiq Editions



Updated end-user application built on a modern technology stack, offering:

- Enhanced analytics and visualizations spanning engineering, production and telematics use cases
- Rules-based alerting
- Easy collaboration and sharing
- Improved user experience, simplified onboarding

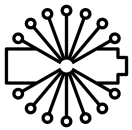
Manufacturing Analytics Module



Accelerate production ramp and optimize yield with functionality specifically targeted to support manufacturing data analytics at scale:

- Enhanced metadata tracking for materials and processes
- Batch-to-batch comparison
- Statistical analysis

Battery Index



Turnkey battery benchmarking, modeling, and simulation solution offered in partnership with Batemo and Energy Assurance:

- Comprehensive test characterization
- Exhaustive teardown and microstructure analysis
- High-precision, physical simulation models
- Ever-expanding library of commercial cells

Voltaiq Analytics Studio



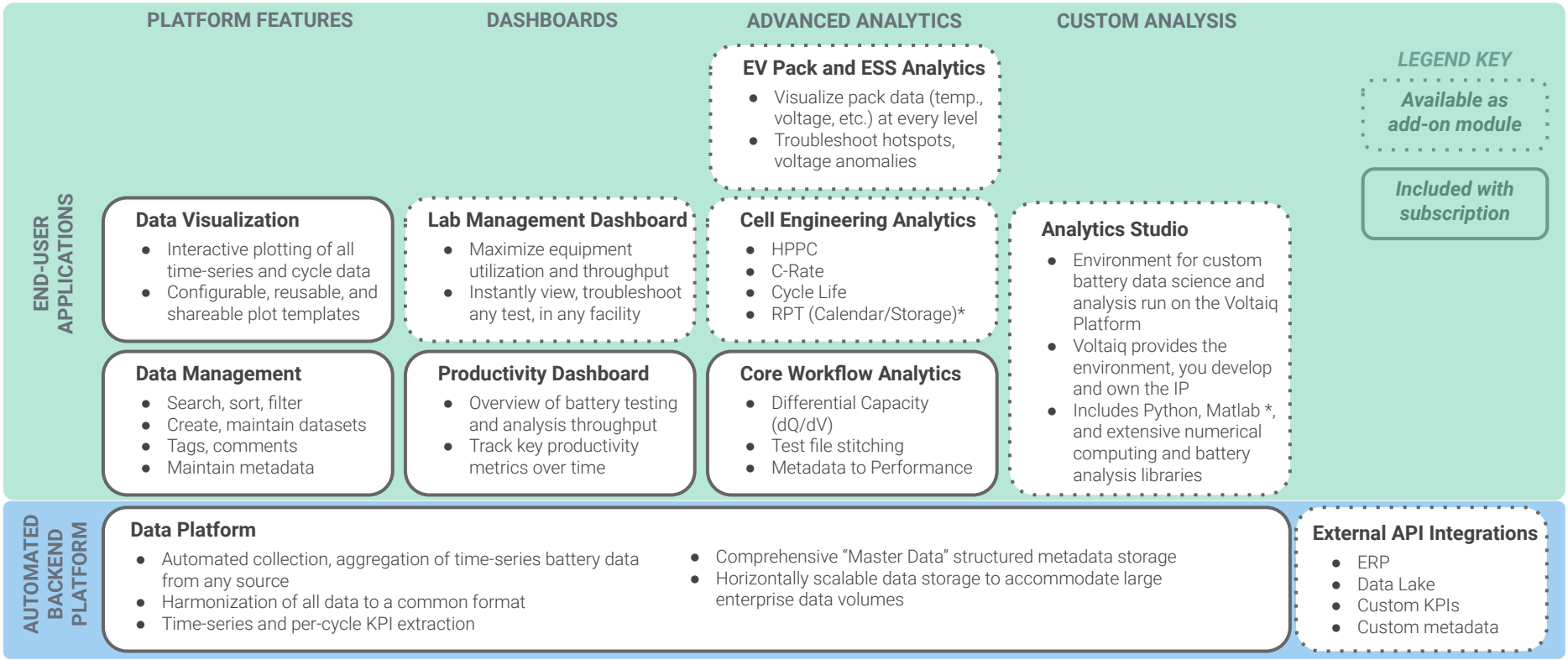
Built-in environment to develop proprietary battery analyses and algorithms using the clean, harmonized data and metadata in the Voltaiq platform:

- Prototype predictive machine learning algorithms
- Perform large-scale statistical studies
- Validate your models against real battery performance data
- Support for Python and Matlab

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Voltaiq product offering

Your Voltaiq subscription includes substantial functionality, with several powerful add-on modules available



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* coming mid -2022

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