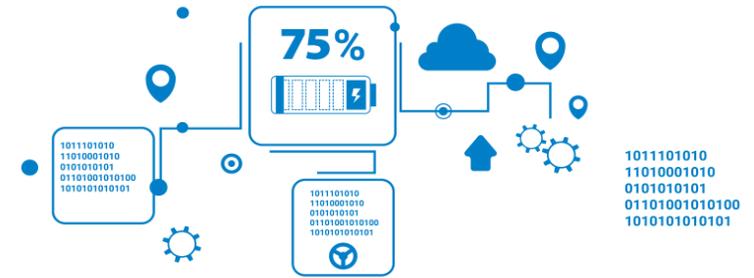# BatteryCheck

Solving tomorrow's battery problems today.

May 29, 2019

What's wrong with secondary batteries?

Expensive

Usage

Value

Toxic

Trust

Blackbox

2nd life

Unpredictable

Recycling

Batteries will be everywhere. We must act now.

1,291GW Battery capacity added globally between today and 2050

$70/kWh Price of a battery pack for stationary applications by 2030

40% Share of behind-the-meter batteries globally in 2050 by MW
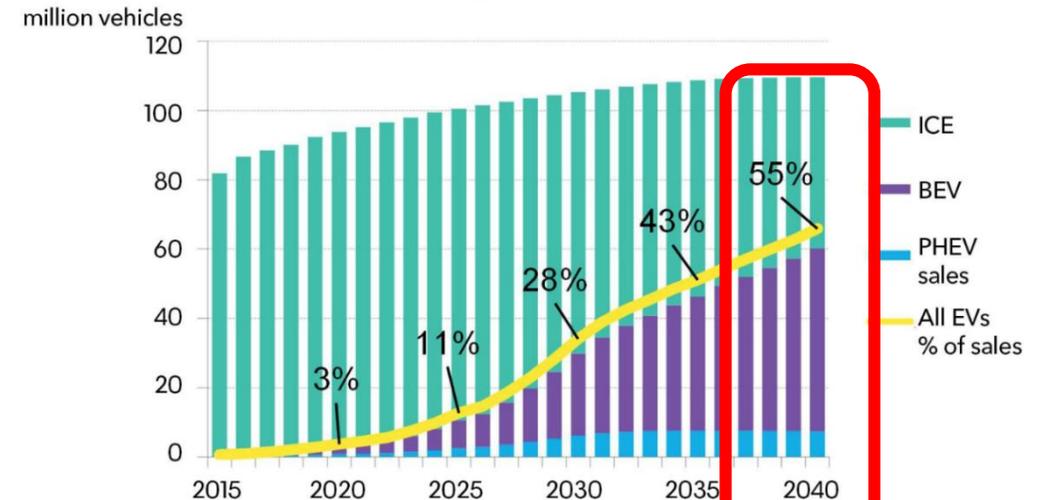
Source: Bloomberg NEF

The Lithium Ion Battery Market is forecasted to grow from USD 36.20 billion in 2018 to USD 109.72 billion by 2026, at a CAGR of 13.4%, during the forecast period. Lithium-ion batteries are increasingly used as a source of power for hybrid and full battery electric vehicles (BEV).

Cisco Internet Business Solutions Group predicts:
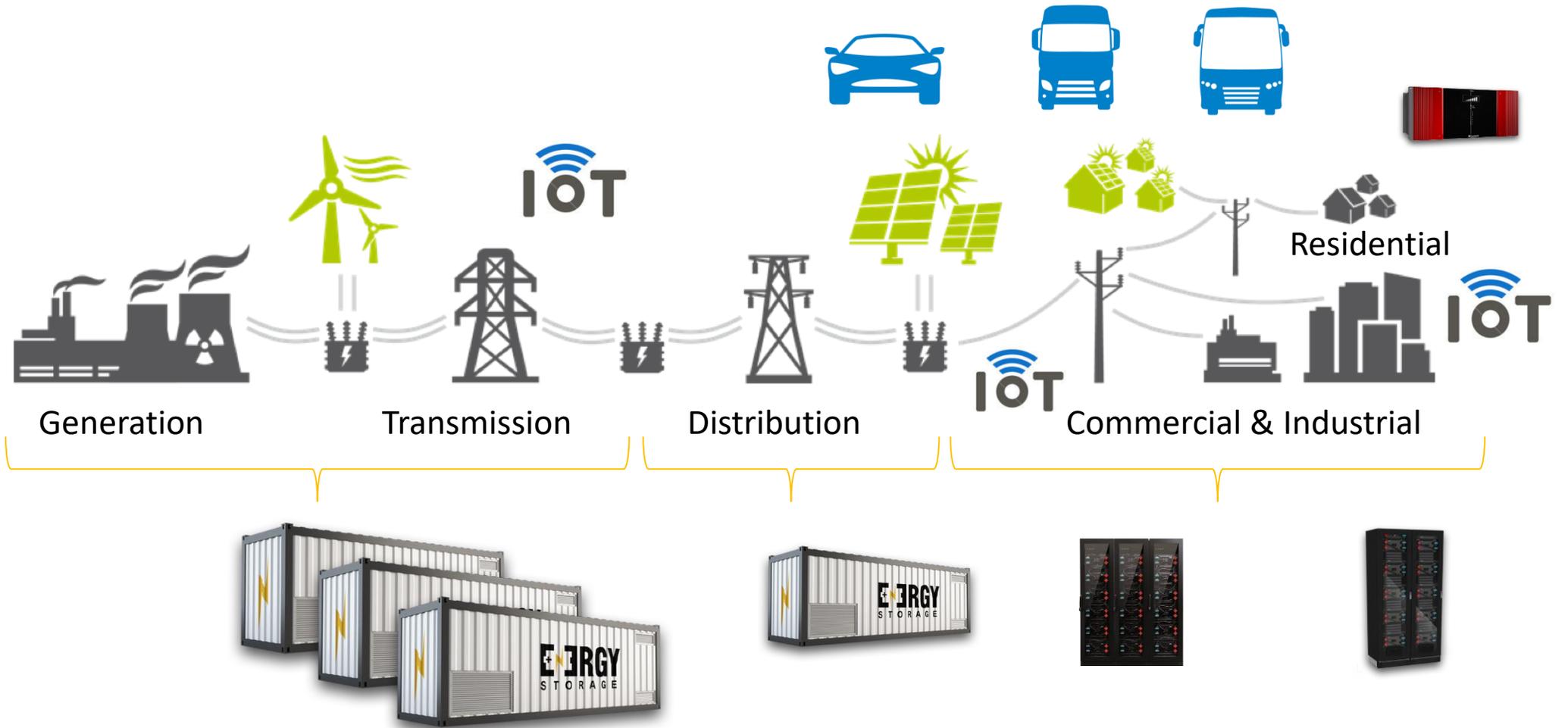
"50 billion connected devices by 2020"

559 million EVs on the road by 2040, representing 33% of the global car fleet

Annual production	2018	2020	2025	2030	2035	2040
EVs in millions	1.6	2.7	11	30	46	60

Annual global light duty vehicle sales

Source: Bloomberg New Energy Finance

Future consumption: expanding – EVs, power tools, industry and IoT

Generation   Transmission   Distribution   Residential   Commercial & Industrial

EVotchi

Inspired by 'tamagotchi' – recommendations how to behave to a battery to slow down degradation and keep battery happy.

Applicable: right after battery integration

ABEL

AI/ML predictions when your battery dies – ABEL indicator (Approximate Battery End of Life) leveraging blockchain

for immutability and BatteryCheck certificate.

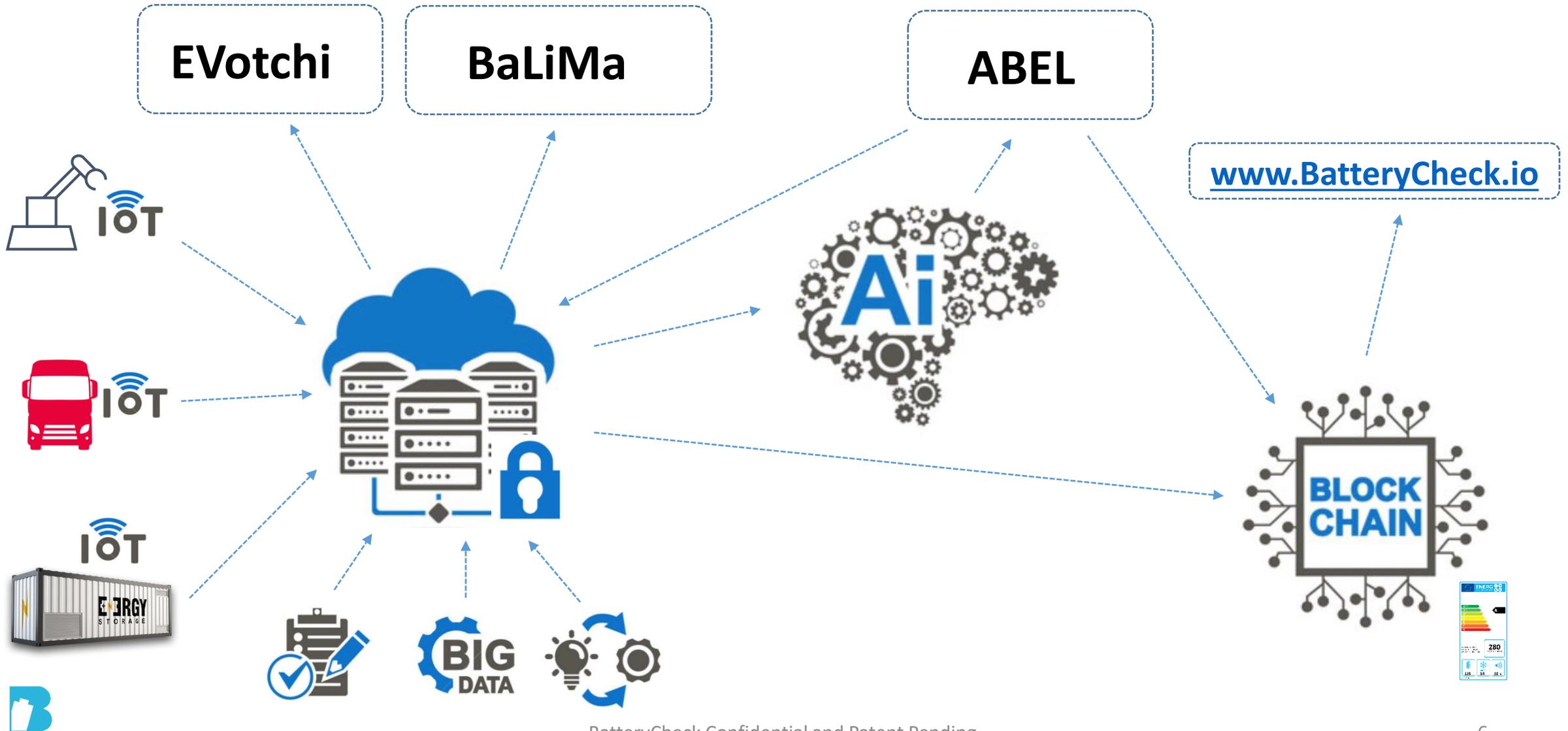Applicable: after 6 months after battery integration

BaLiMa

Battery **Li**fecycle **Ma**nagement – recommendations when to go 2nd life or recycling based on internal and external conditions.
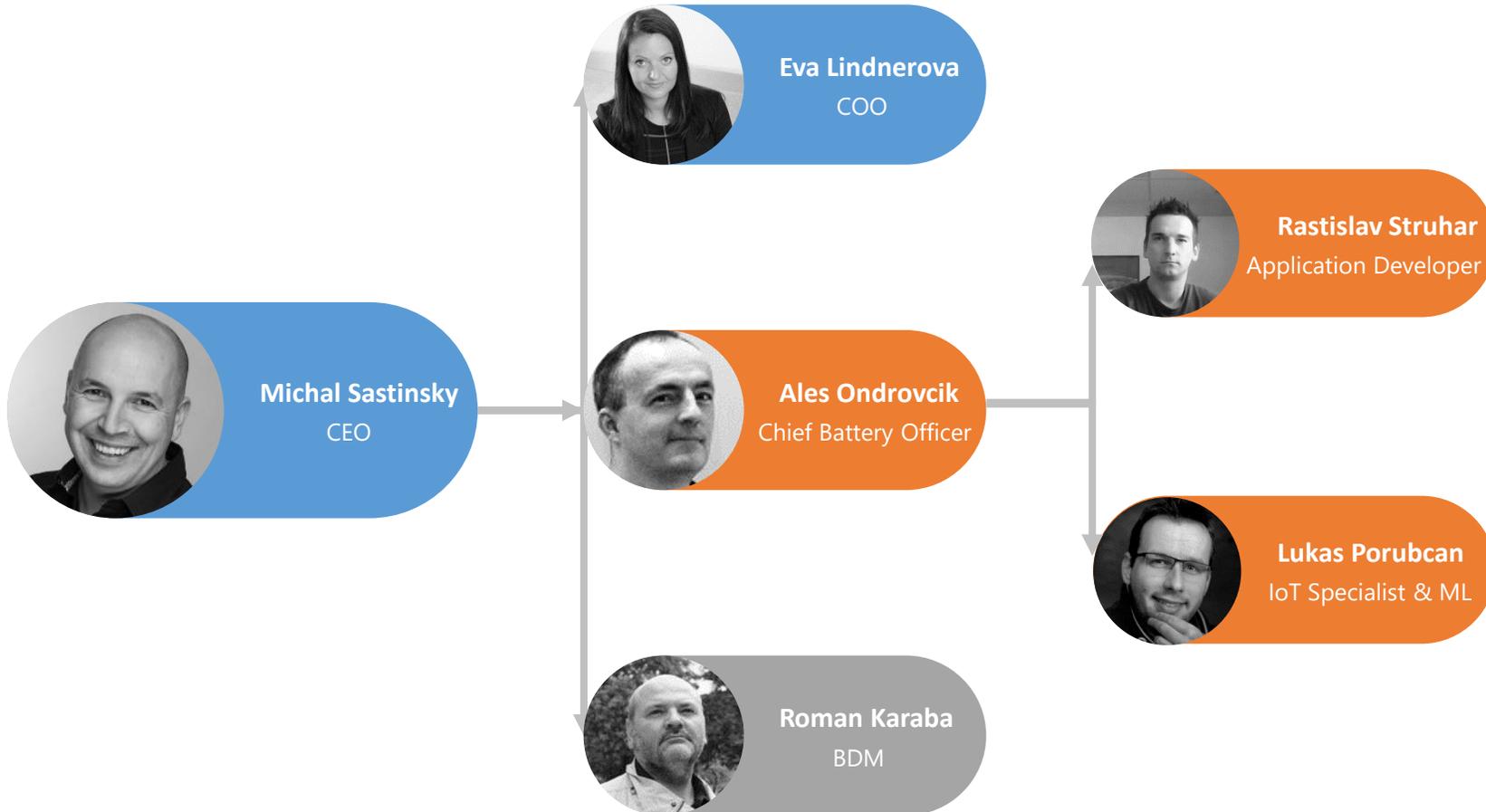
Applicable: years after battery integration

BatteryCheck

BatteryCheck is like a smart watch, but instead of steps, floors and heart rate measurements it is checking the battery and provides 3 services.

Data flow and BatteryCheck services

Team

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