

Company Summary

- O Company established: 2017
- Who we are: Spark's team have over 65 years developing and commercialising software to ISO9001 international quality standards with experience across EV vehicles, database software, machine learning and embedded software systems.
- Intelligent software products for electric vehicles (EVs).
- Over 10,000km of real-world trials, across a wide range of electric vehicle brands, terrains and driving styles. Spark typically 10x more accurate than EV in-vehicle systems.
- 4x patents across China, Europe, UK and US covering system design for human driven and autonomous vehicles for personalised journey prediction using on/off vehicle data and machine learning algorithms
- Working with leading Automotive OEMs and Tier 1's suppliers globally

Partnerships:



















Problem

Adoption of EVs is significantly impacted by unreliable range prediction leading to:

- Brand Trust Can I trust what this vehicle tells me?
- Range Anxiety Will I get there or run out of juice?
- Time Anxiety Can I go yet or carry on charging?

In-vehicle range predictions can be in error by **more than 100%** (e.g. driving 30km can see the range remaining drop by 60km)

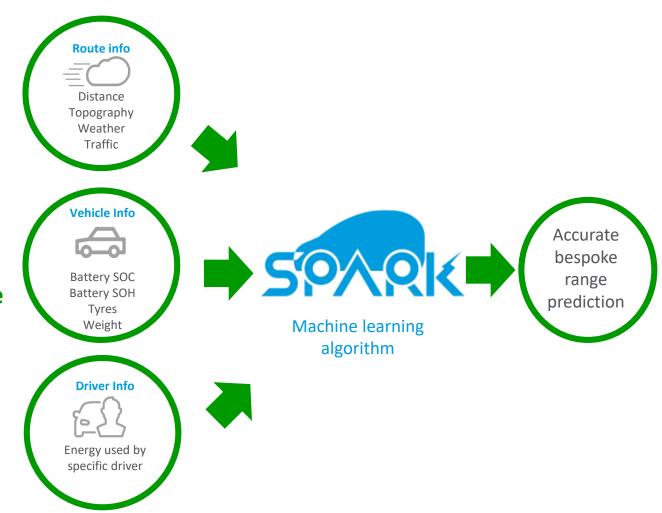
Around 20% of our demo customers don't end up buying the vehicle because they lack confidence in the onboard range predictions, which can be erratic.

Manager, UK EV Dealership



Product: Spark Assure

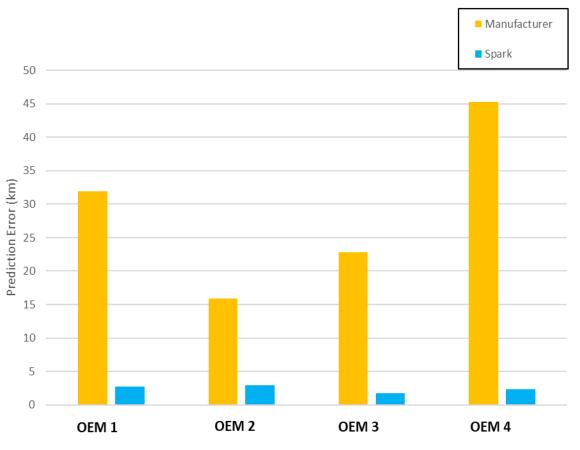
- Spark Assure provides highly accurate,
 personalised journey predictions for EV drivers.
- Embed our technology directly into vehicles via infotainment cluster as part of the SatNav.
- Our embedded solution is delivered as a pre-compiled DLL with defined interfaces.
- DLL can then be incorporated into any vehicle system, with the OEM retaining control over the UI experience.
- Predictions can be made on vehicle or cloud.
- Easy to implement for mass production.
- Could be deployed on new vehicles or as an aftermarket solution.





Success – How well it works

Spark Prediction Errors vs Vehicle Manufacturers (OEMs)



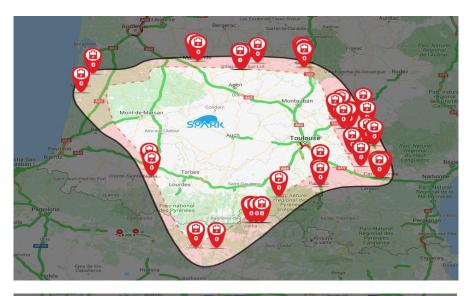
- Spark's prediction of energy usage for a journey is typically accurate to 2km.
- OEM's prediction of range remaining can be out by over 45km.
- Spark has outperformed every OEM in testing.
- The 4 OEM's represent 39% of global EV sales.

NB: Spark makes predictions in energy terms, and this is converted back into km using the overall efficiency of this vehicle across all journeys in a trial.



Product: Spark Flow

- Personalised, dynamic maps without entering the route into a SatNav
- Red section highlights range available within 20% reserve of battery
- EV Recharging points clearly shown to enable reliable journey planning
- Flow considers all live route, driver, atmospheric and previous journeys for the map







Benefits to OEM / Tier 1

- Supports strategy speeding up Electrification plans and Mobility as a Service (MaaS)
- Supports EV powertrains and vehicle development
- Complimentary software addition
- Gives speed to market over competition
- Build brand trust
- Increasing sales and customer retention
 - Provide highly accurate, personalised journey predictions for drivers.
 - Enable customers to have full confidence and trust in the information their vehicle



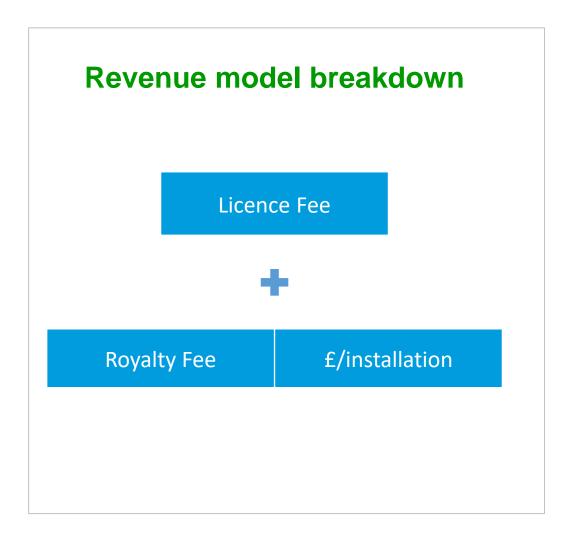
License Model and Process

Sales process:

- Proof of Concept (project fee, support, (4-6 weeks))
- Evaluation License (license fee, support (6 months))
- 3. Production License (license fee per EV model, tiered lifetime royalties)

Description:

- Licensed as a software development kit (SDK) through license fee and royalty model.
- Freedom to deploy our technology and IP within their applications/situations.







Contact

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