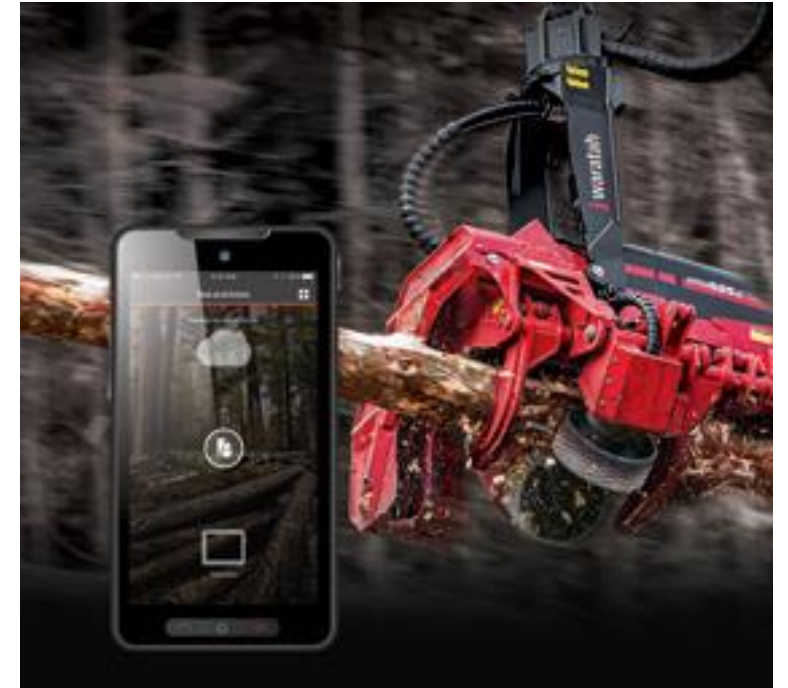


# Sensors and analytics in forestry

Bryan Graham



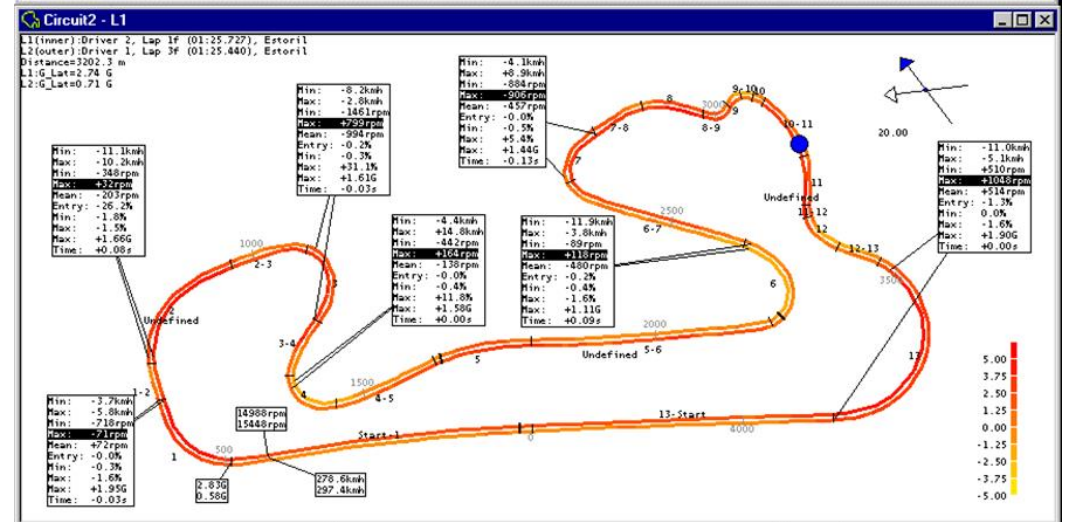
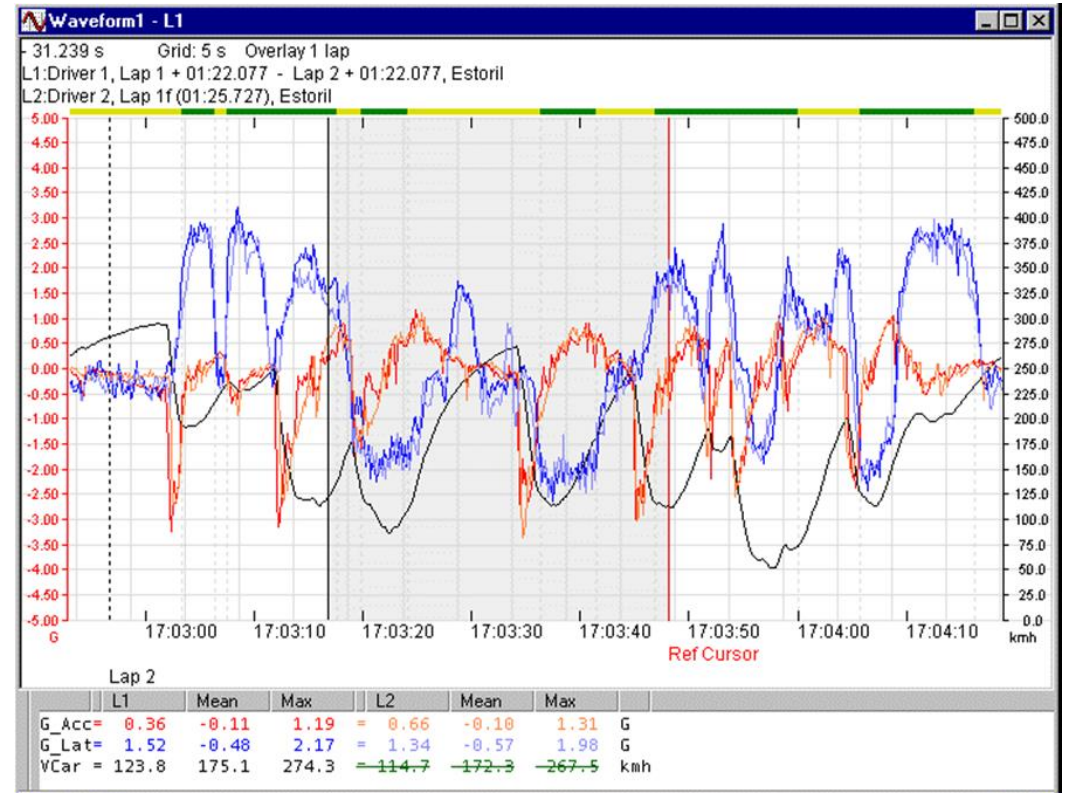
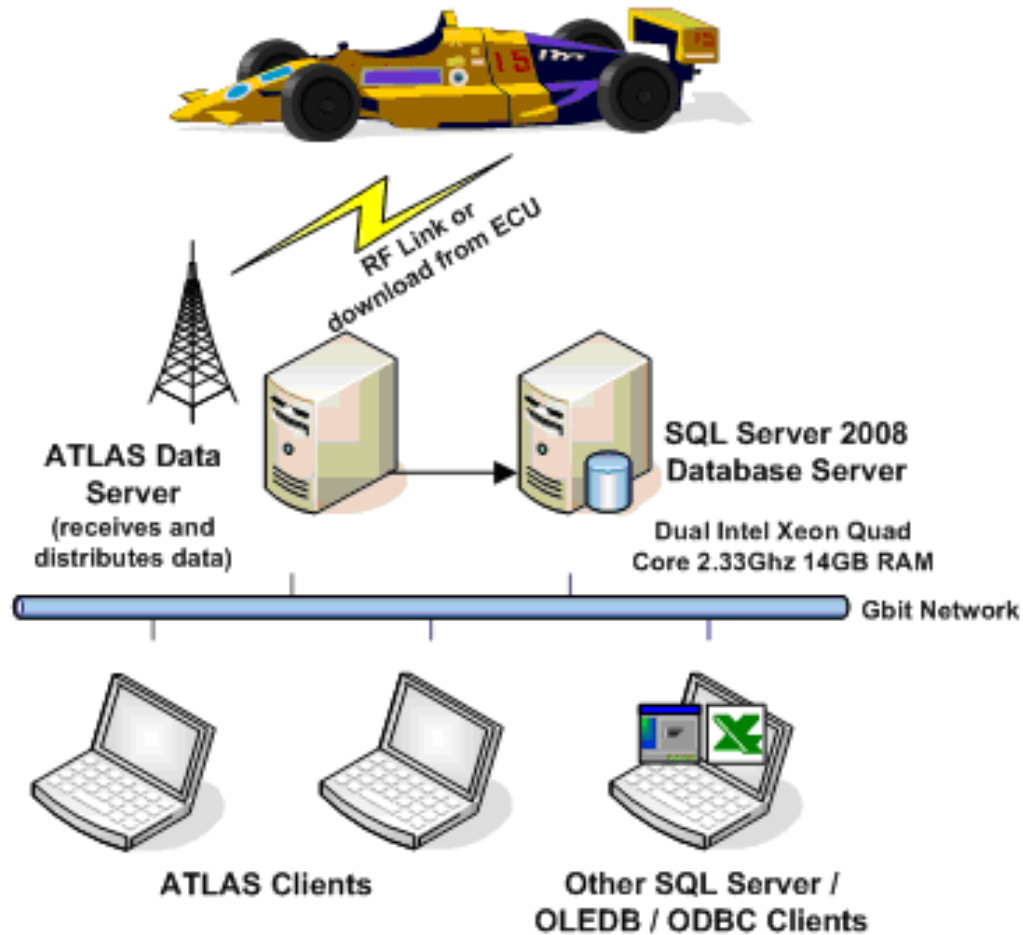
# What do we mean by sensor?



# More than just sensors



# More than just sensors



# More than just sensors

**Mercedes-AMG Petronas F1 team executive director Toto Wolff told ZDNet that Formula 1 is "no gut-feeling sport anymore"; collecting and analysing data points is now crucial to the team's race strategy.**

**However, Wolff said it is not just about collecting a massive amount of data; it's also about making sure you know what to do with it so it doesn't just become more noise in the garage.**

**"The more data you collect, but more importantly the more you are able to digest and analyse data, the better you will have your car and driver perform," Wolff told ZDNet.**

# More than just sensors

**The media gives the impression that big data and machine learning can solve all your problems by looking for patterns and finding answers to questions that you didn't know you had. But it's not quite as straightforward as that.**

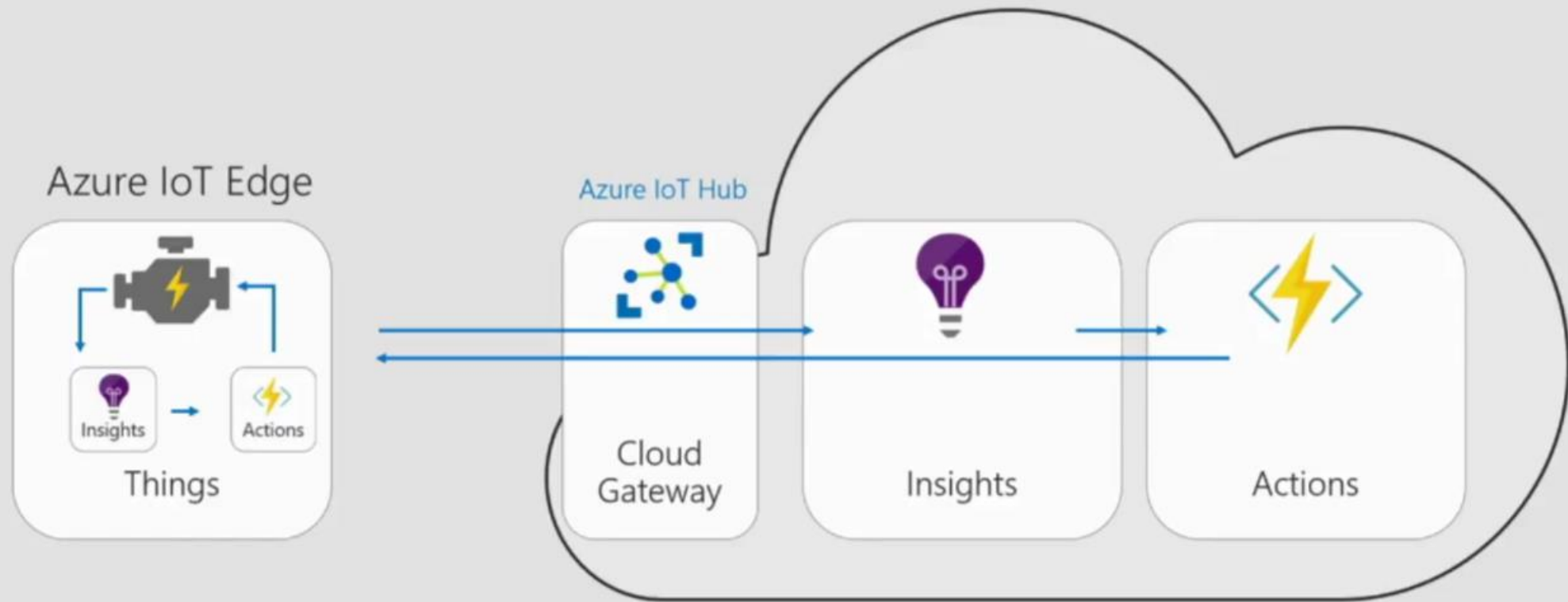
**"You've got to have a huge amount of domain knowledge about that data. You have to have data scientists, and they have to meet in the middle with the domain experts to obtain the best understanding of the data."**

# More than just sensors



# More than just sensors

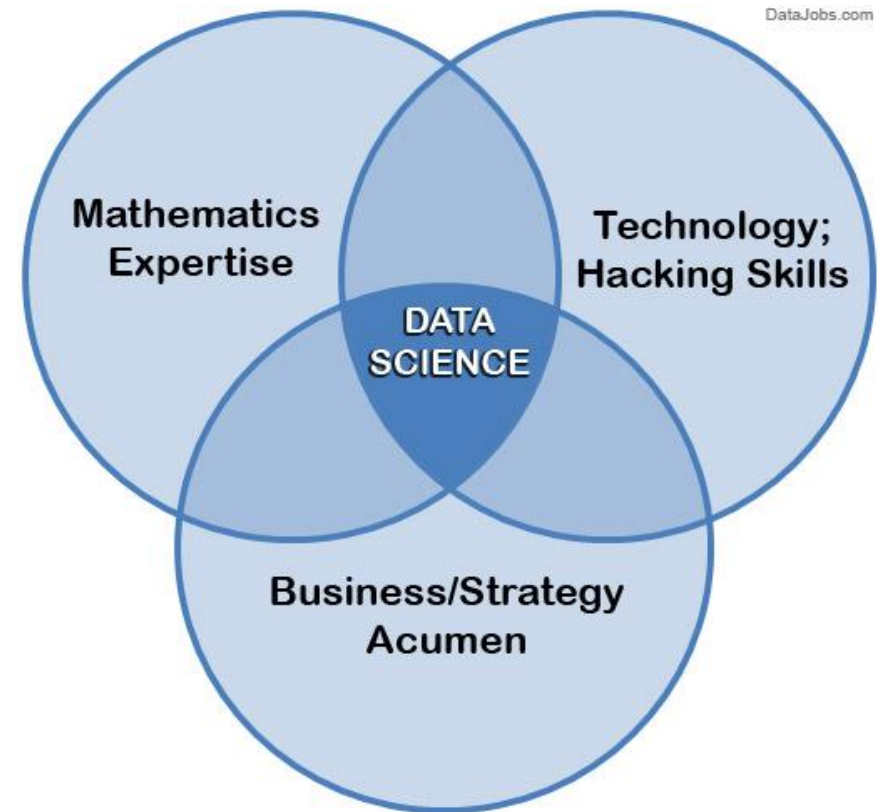
## IoT Pattern + Edge





# Real world applications

- **Optimization**
  - **Supply chain, fulfillment**
- **Targeting**
  - **Find similarities, customers, employees, resources**
- **Prediction**
  - **Predict future events**
- **Abnormalities**
  - **Savings and opportunities**





# What is Scion doing

- **LUCE platform**
- **Exploring data science for forestry**
- **Working to get high speed data access for forestry**
- **New visualisation (Virtual Reality, Augmented reality)**





Bryan Graham  
Science Leader, Forestry Informatics  
Bryan.graham@scionresearch.com

[www.scionresearch.com](http://www.scionresearch.com)  
[www.fgr.nz](http://www.fgr.nz)

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