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Driven By Data

Analyzing Real-Time Car Data with Splunk and Machine Learning

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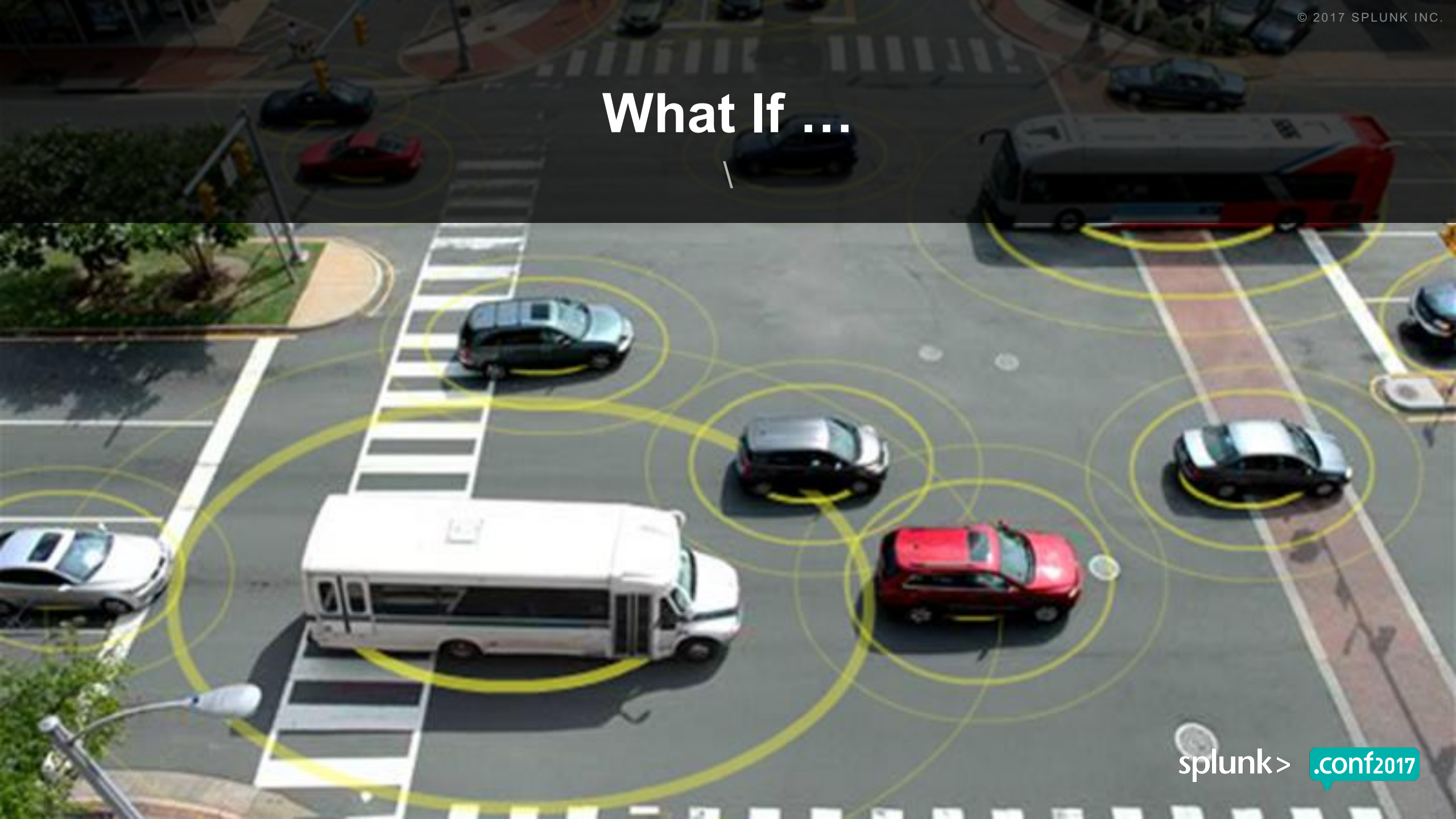
What If …



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…Cars Could Talk?

Shut up and drive

- Predictive maintenance
  - When to change my tires?
  - Detect potential issues
  - Is it time to change the oil?
- Smart driving
  - Do I save fuel if I take a different route?
  - Can I change my behavior to save fuel or tires?
- Benchmarks
  - Does my car run with optimal performance?

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What Is The Internet Of Things Really?

Is IoT just a buzz word?

Collecting and analyzing data requires an IT infrastructure, but it would be insane to put a data center in my car!

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How To Make A Car Talk?

Turning my car into an IoT device

- Tap into existing car data with OBDII connector
- Send data to the cloud (message bus)
- Ingest data with Splunk
- Analyze and model the data

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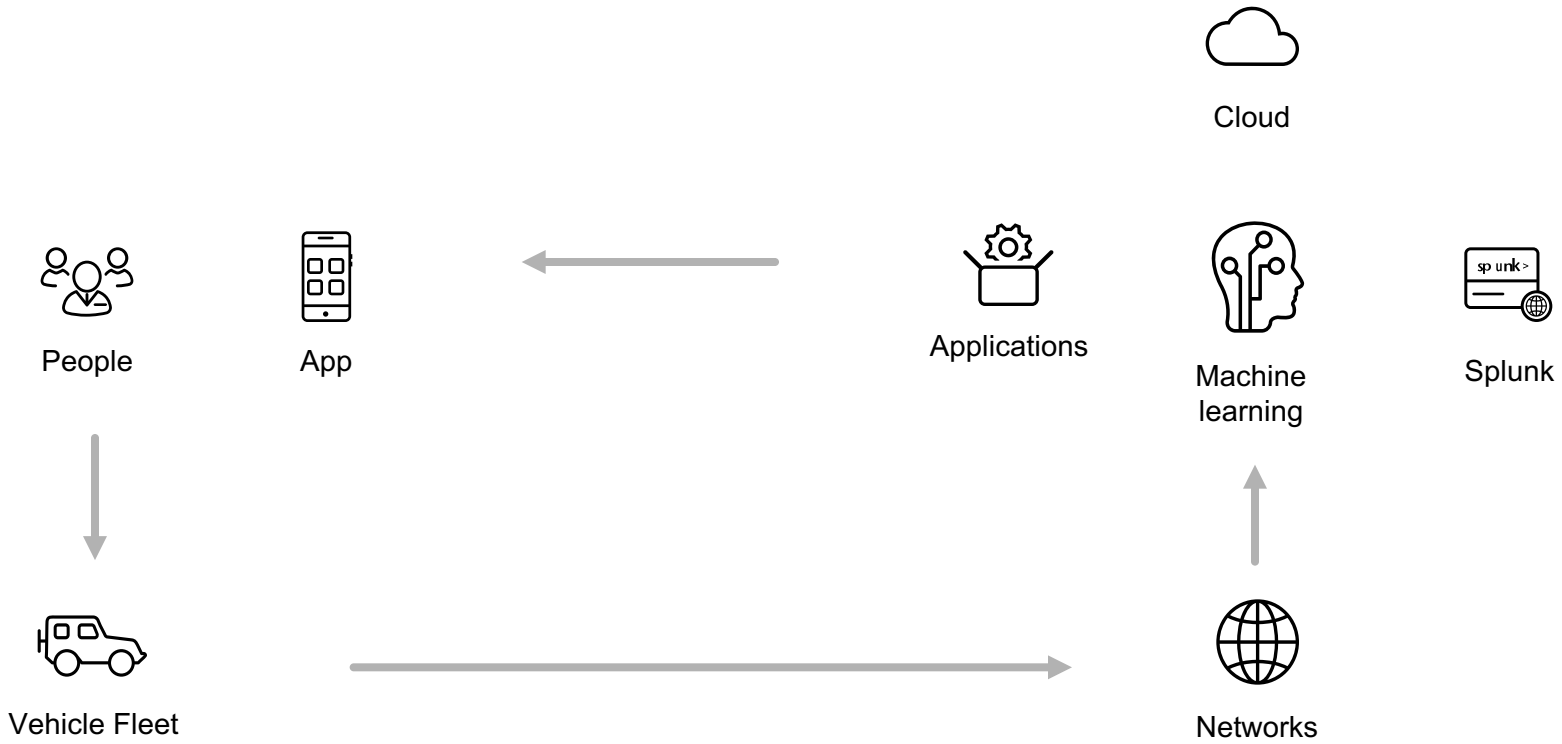
It’s Not Just A Talking Car

It’s a conversation



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Data != Value

Collecting data is one thing, getting value out of it is another…

Data becomes valuable once you analyze it and use these analyses to model the world. These models can then be used in applications that create business value.

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Modeling The Real World

Use data in Splunk with models in R

- R app for Splunk to run data through models
- Retrieve results in the Splunk platform for visualization and analysis
- Trigger alerts and expose results for applications

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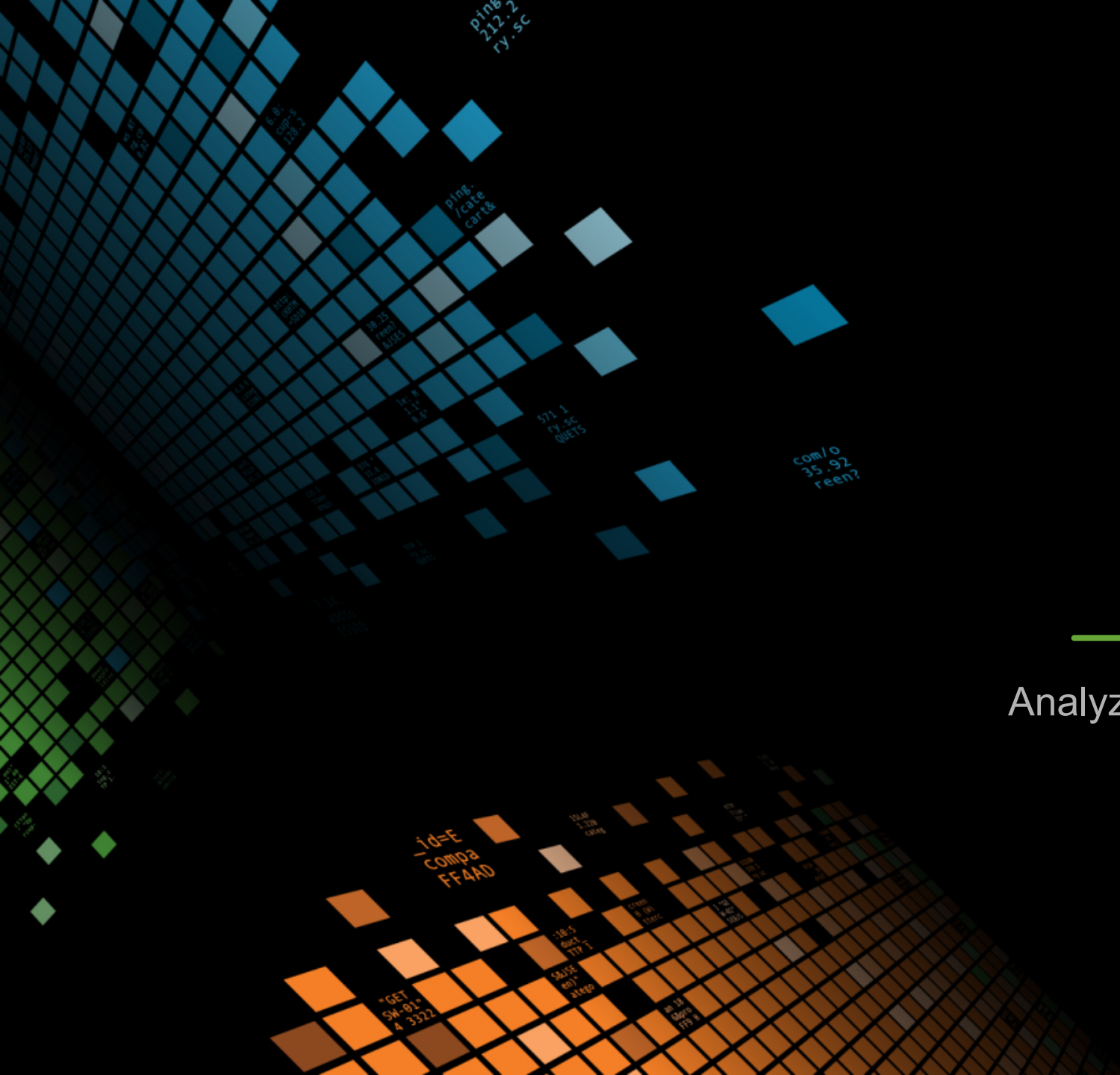

Demo

Analyzing and modeling car data in Splunk

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What We've Learned

Mistakes we made so you don't have to

1. Data collection is only the start; make models
2. Start small, but design for scalability
3. Stop talking about IoT, start using it

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Thank You

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