MathWorks
AUTOMOTIVE
ENGINEERING
CONFERENCE 2020

Making MATLAB Data Analytics Accessible across the Enterprise

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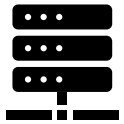
Key takeaways

- Data for decision making should be available throughout the Enterprise
  - Not only engineers need data – decision makers of all sorts need data
- Large volumes of data require new paradigms
  - Scaling out is necessary

Compute  People

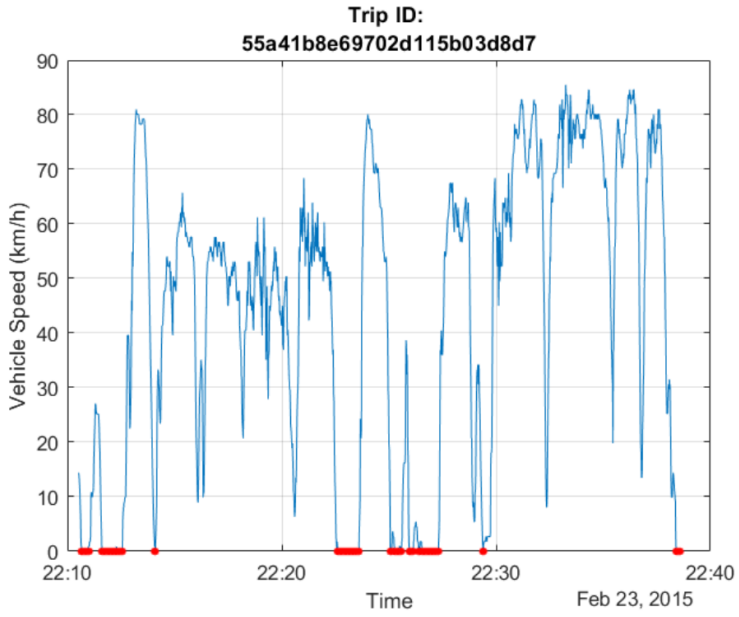
- The diversity of systems require interoperability of tools
  - MathWorks integrates with many different frameworks

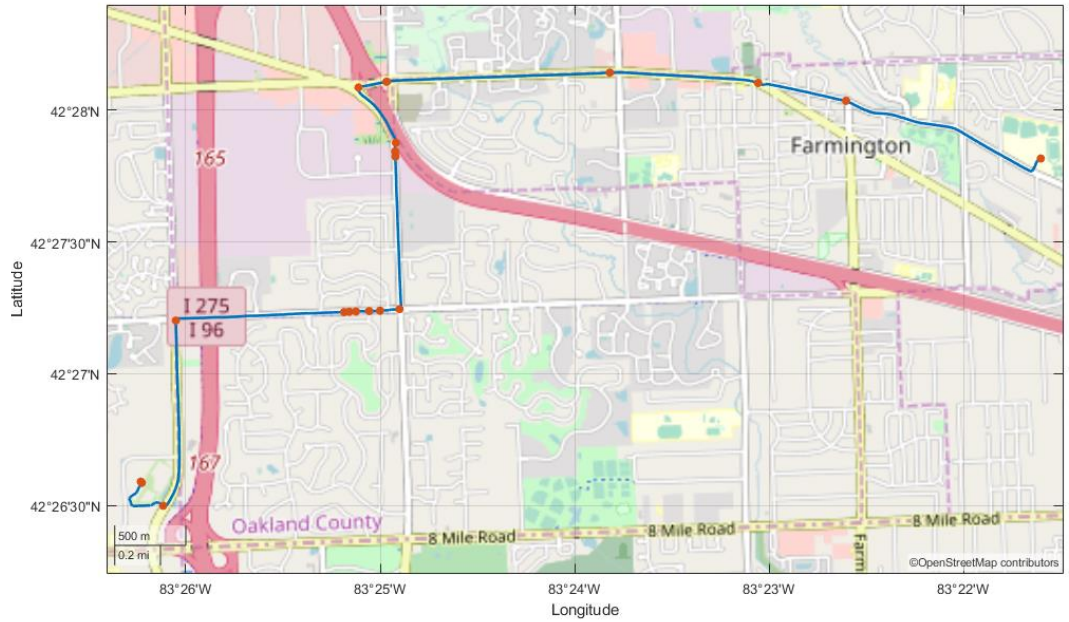
Automotive use case

Access and Explore Data → Preprocess Data → Analyze Data → Develop Algorithms & Models → Operationalize Models

Automotive

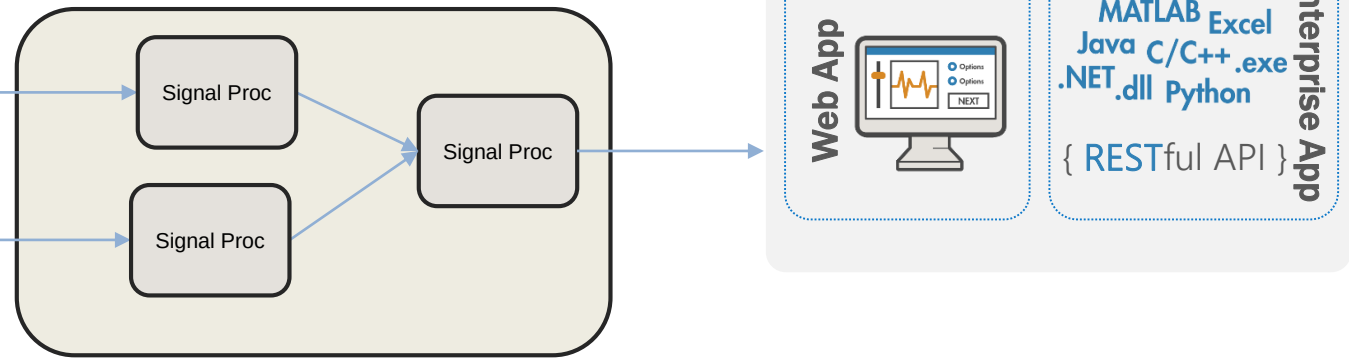
- Vehicles
- Engines
- Controllers





Motivating factors for enterprise accessibility of Data Analytics

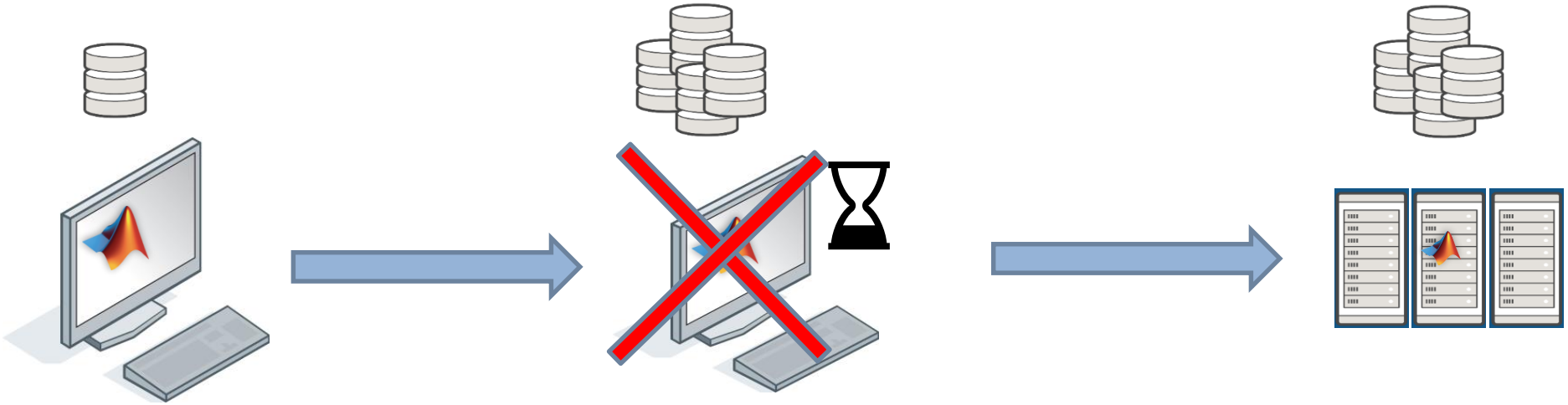
- Not all users of data are engineers
- Reuse among engineers



Processing data

Access and Explore Data | Preprocess Data | Analyze Data | Develop Algorithms & Models | Operationalize Models

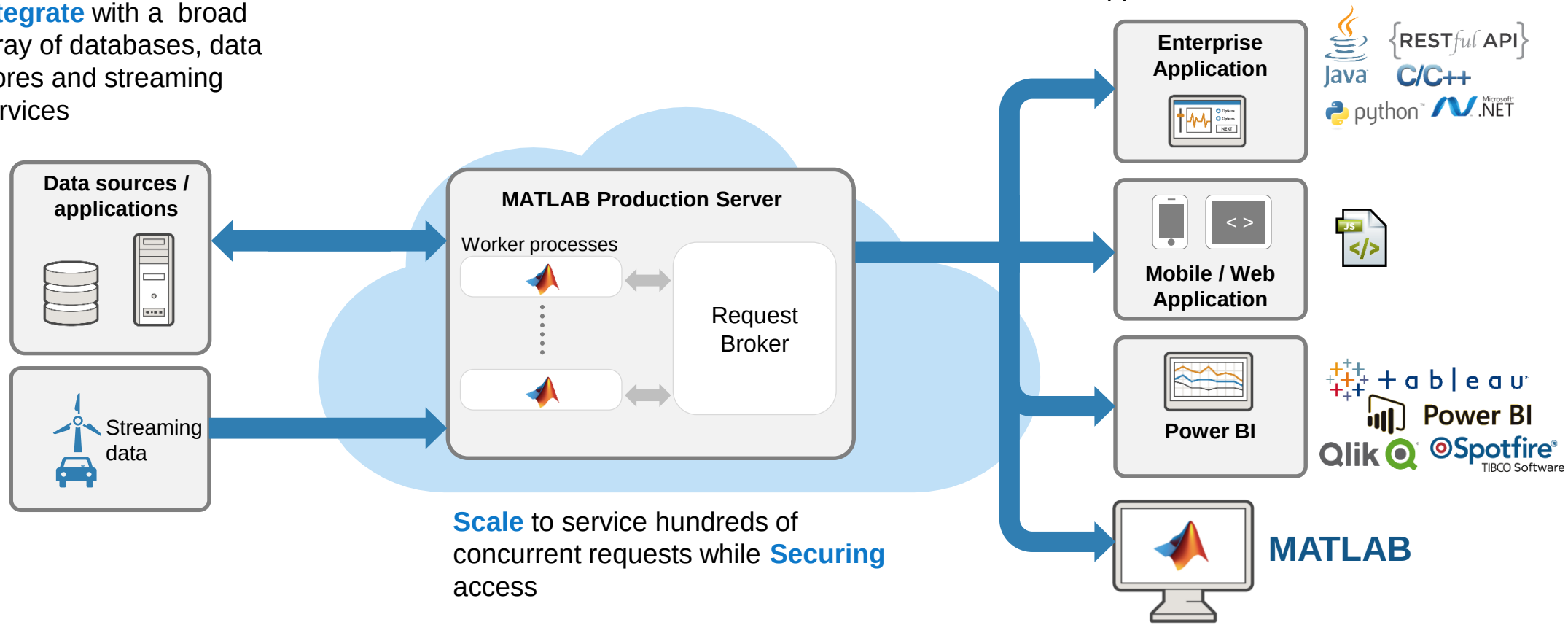
- Exploratory work on a desktop
- Big Data cannot be processed on a single machine



Processing data

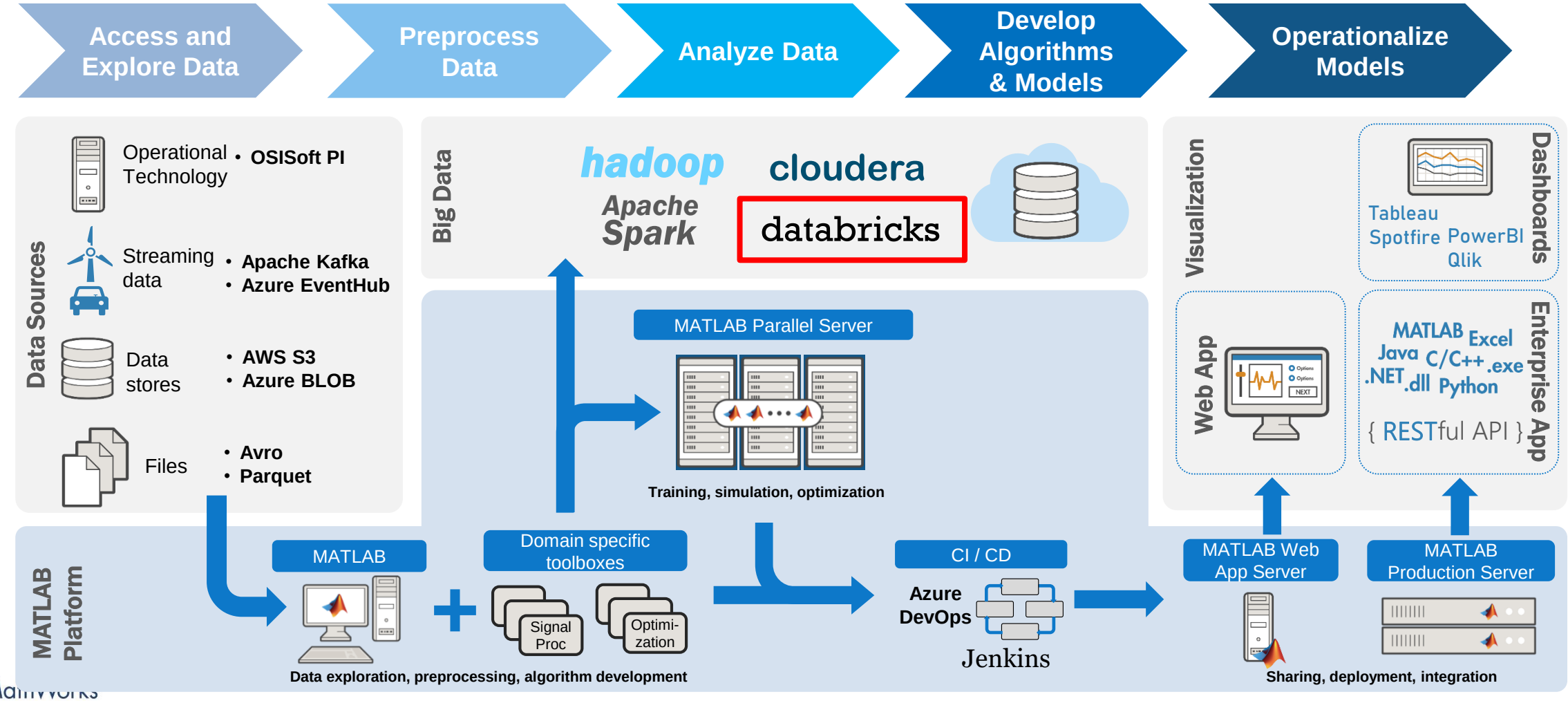
Integrate with a broad array of databases, data stores and streaming services

Access from a wide range of enterprise applications

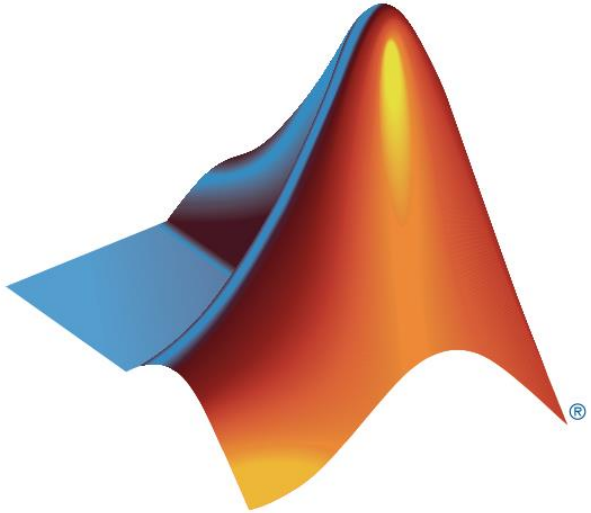


Scale to service hundreds of concurrent requests while **Securing** access

MathWorks provides a comprehensive end-to-end solution
Data Analytics in the Enterprise



Live Demonstration



databricks

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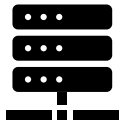
Compute  People

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Q&A

Is your Data Analytics Stack running:

- On the cloud
- On premise
- Hybrid

Does the analytics focus on:

- Real-time
- Batch
- Queries / Event-detection

What value do you achieve from the Analytics:

- Analyze historical data for trends and/or anomalies
- Analyze/build models against data sets at scale
- Operationalize analytics in production scenarios

Please contact us with questions

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