



VIETNAM  
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# Simplify Big Data Solution on Microsoft Azure

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# Who am I?

## ... and what am I doing here?

### Son Nguyen

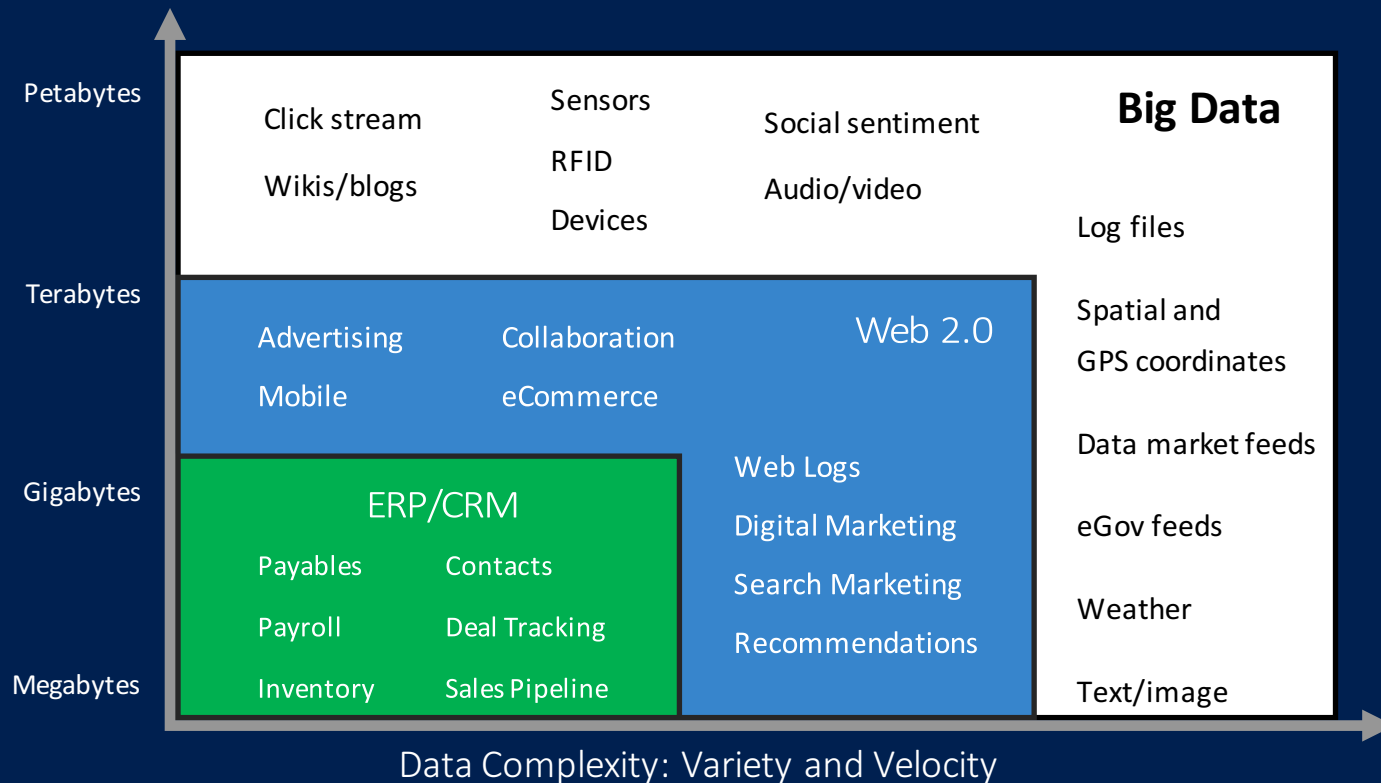
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I'm here to share with you my experience in how to use Azure to simplify big data solution.

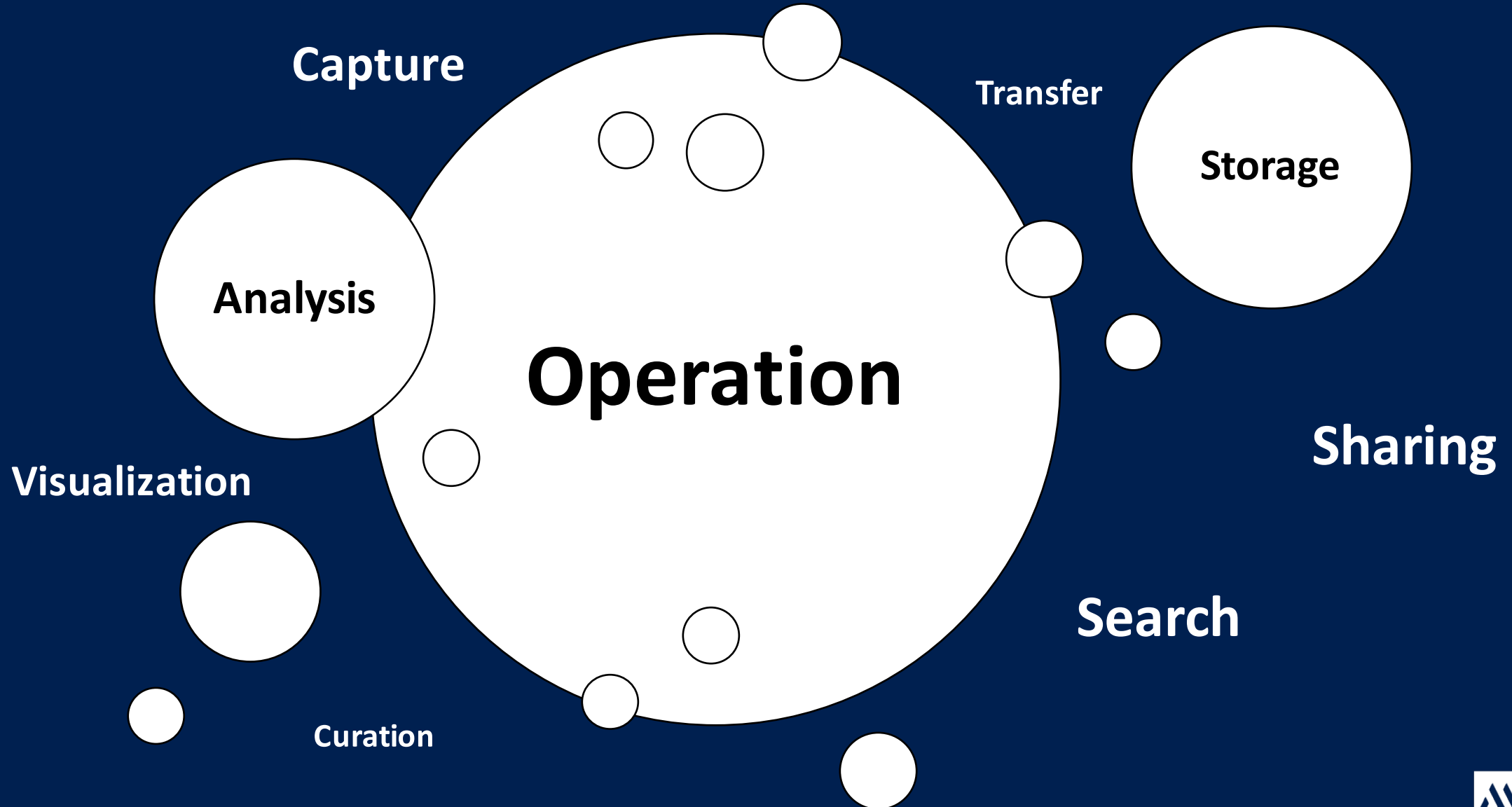
# What is big data?

*“Big data is the term for collection of data sets so **large** and **complex** that it becomes **difficult to process** using on-hand database management tools or traditional data processing applications.”*



Wikipedia.com

# Big data challenges



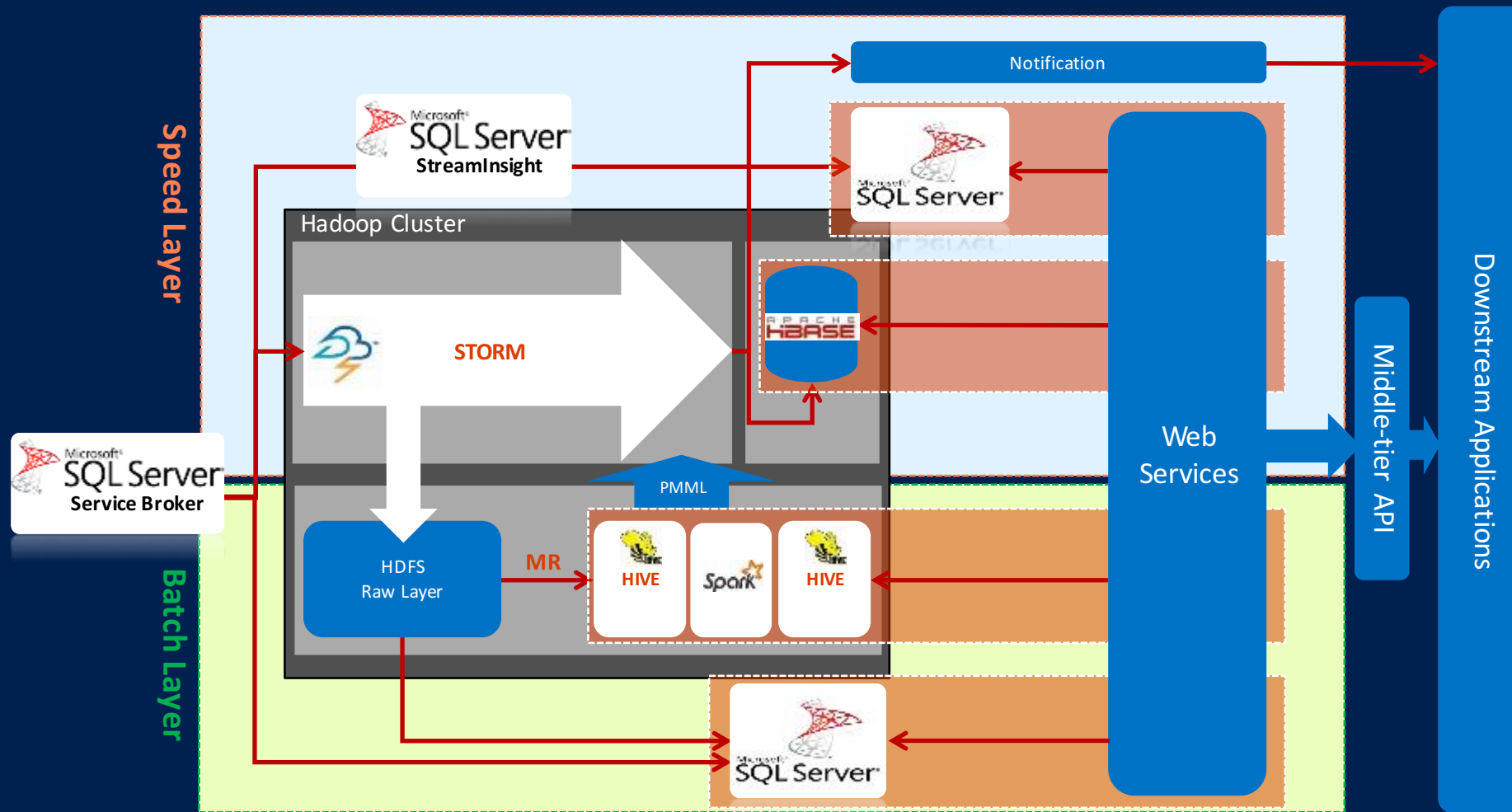
# Business case

## ... fleet management system

- Vehicle tracking
- Health and safety tracking
- Fuel and speed management
- Sales order transmission
- Route planning
- Driver management
- Vehicle diagnostics



# On-premises solution

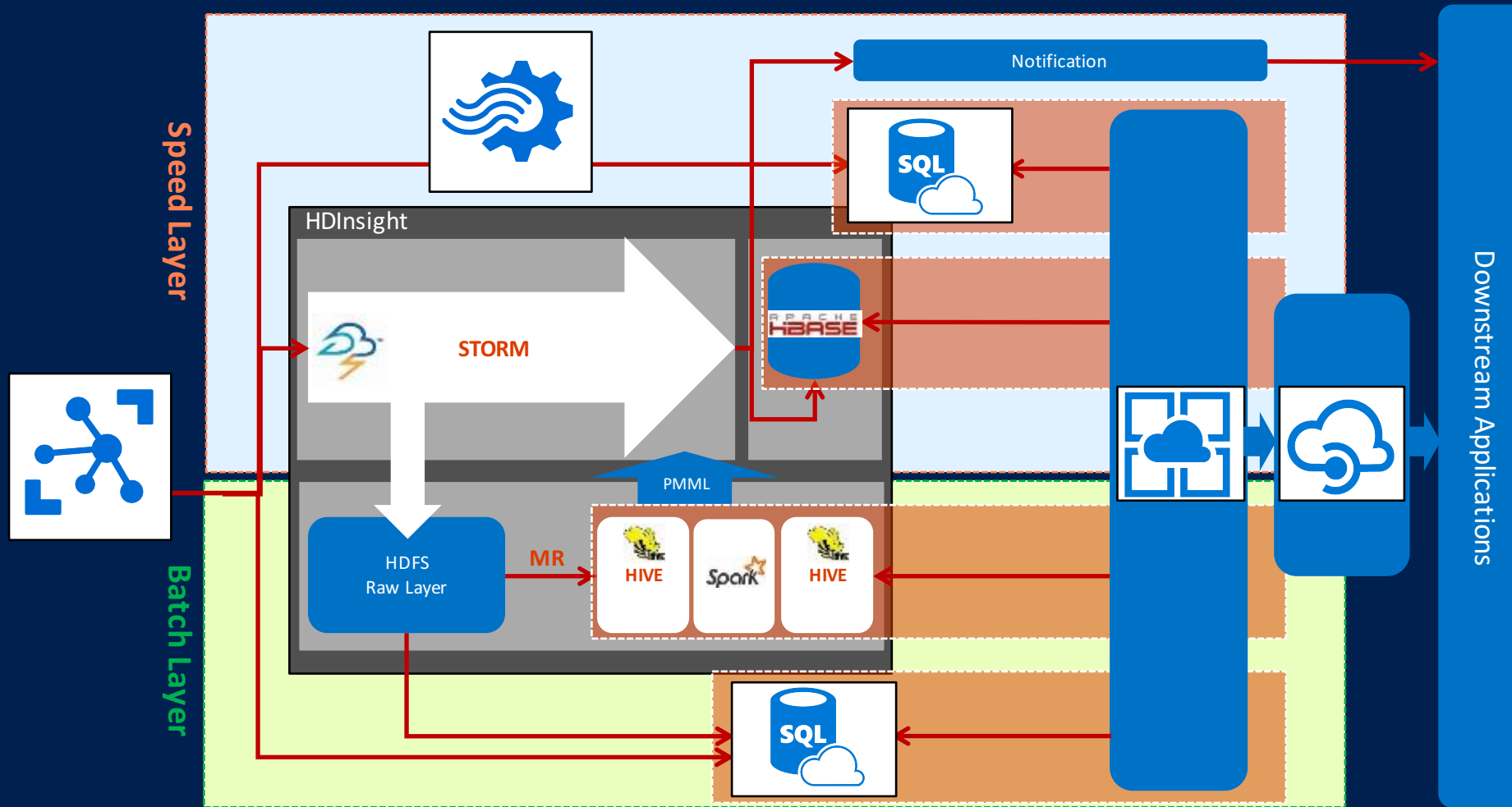


Buildable but have many technical debts need to be resolved.

## Top 5 challenges

- Scalability
- Cost
- Operation
- High availability
- Security

# Enhancement solution on Azure



## Enhancements

- System is deployed on Azure.
- Use IoT Hub, Stream Analytics services
- Use Azure SQL Elastic Database
- and more ...

## Top 5 challenges

- Scalability
- Cost
- Operation
- High availability
- Security

# Azure big data eco-system

Information Management	Big Data Store	Machine Learning and Analytics	Intelligent	Dashboard and Visualization
Data Factory	Data Lake Store	Machine Learning	Cognitive Services	PowerBI
Data Catalog	SQL Data Warehouse	Data Lake Analytics	Bot Framework	
Event Hub	DocumentDB	HDInsight (Hadoop, Spark)	Cortana	
IoT Hub	SQL Database	Stream Analytics		



# THANK YOU