



# Data and Analytics - Revolution or Evolution?

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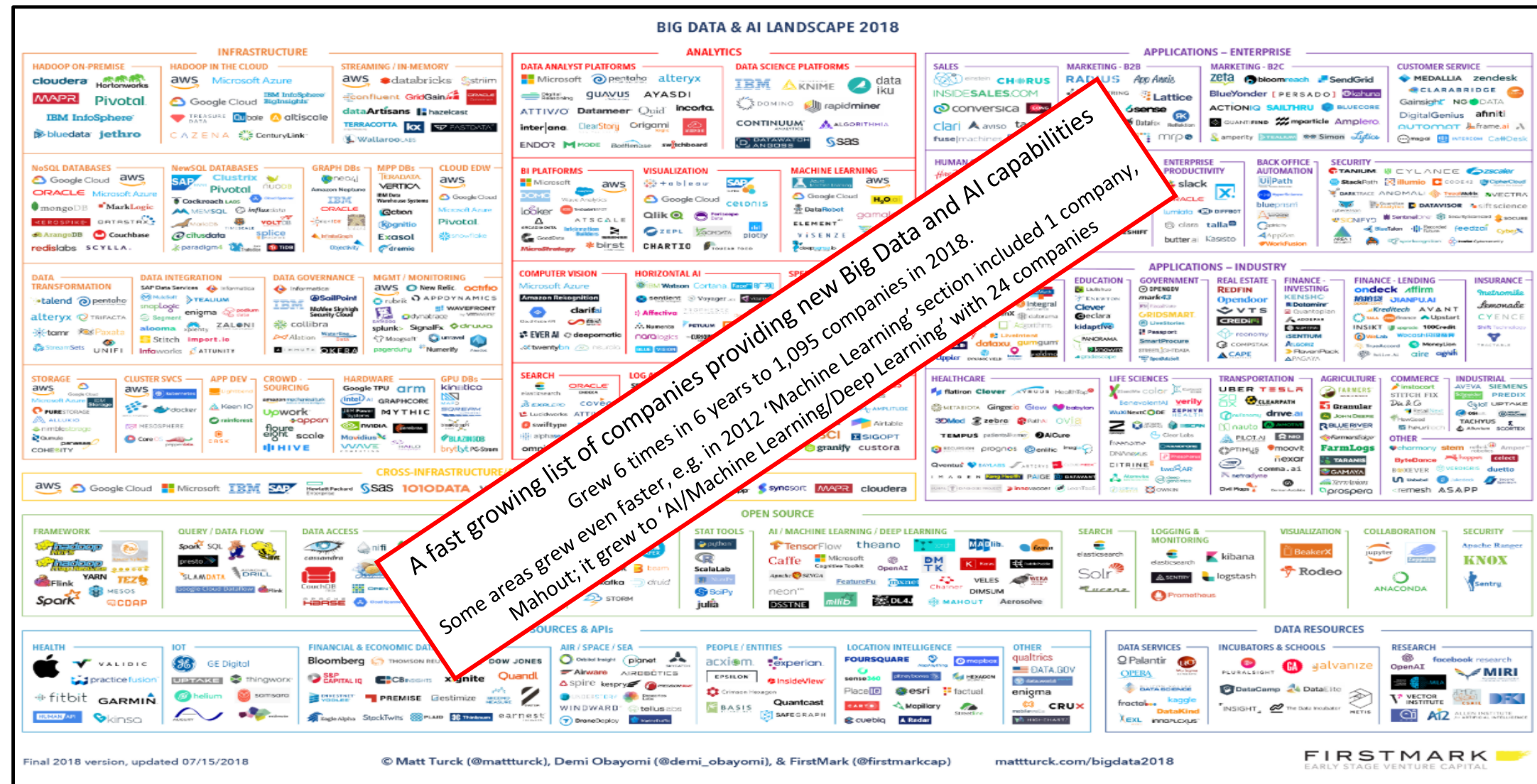
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November 8, 2018

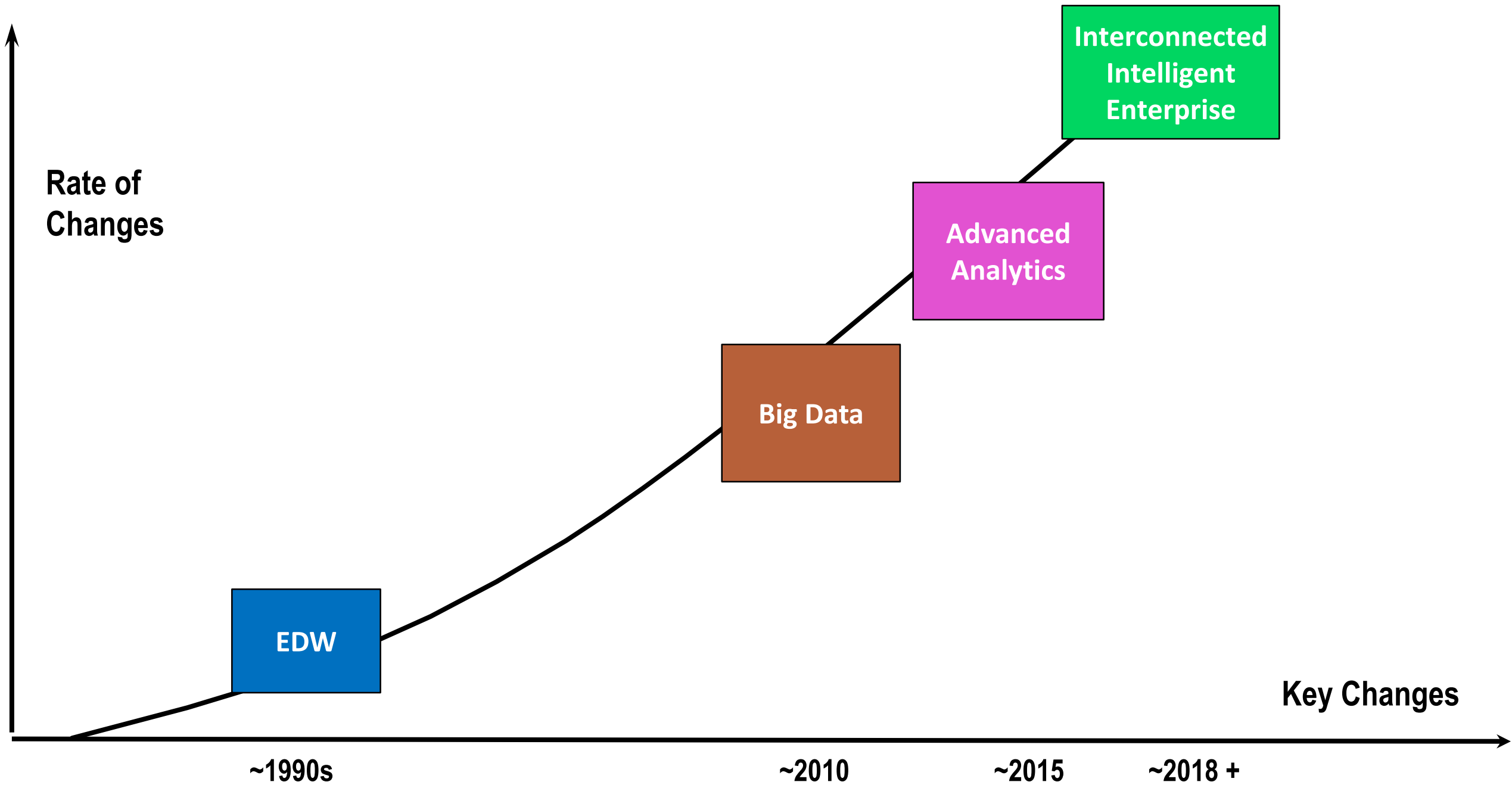
# Unprecedented Pace of Changes

## Example - Big Data and AI Landscape from FirstMark

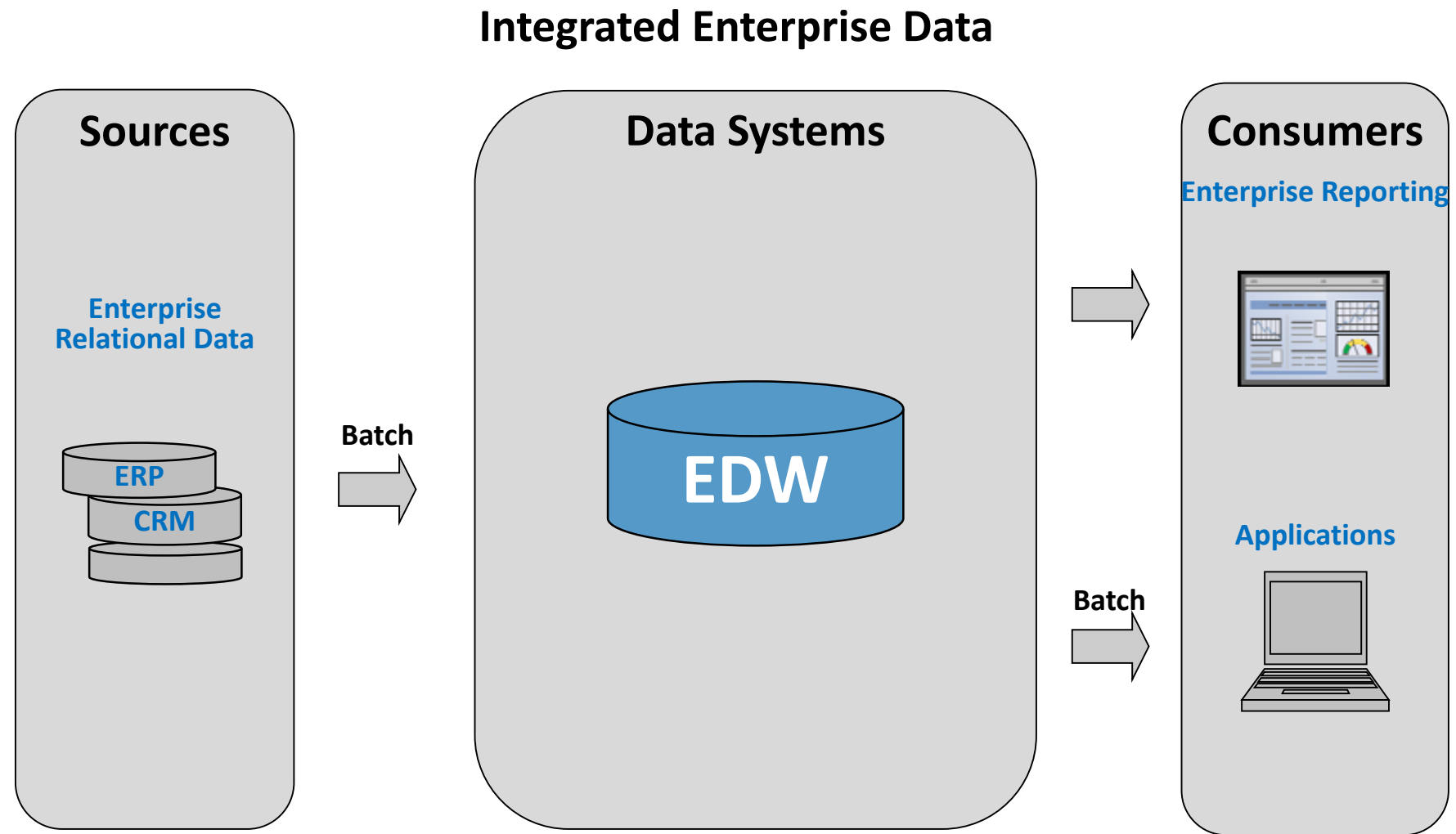


<http://mattturck.com/bigdata2018/>

# Accelerating Data Changes

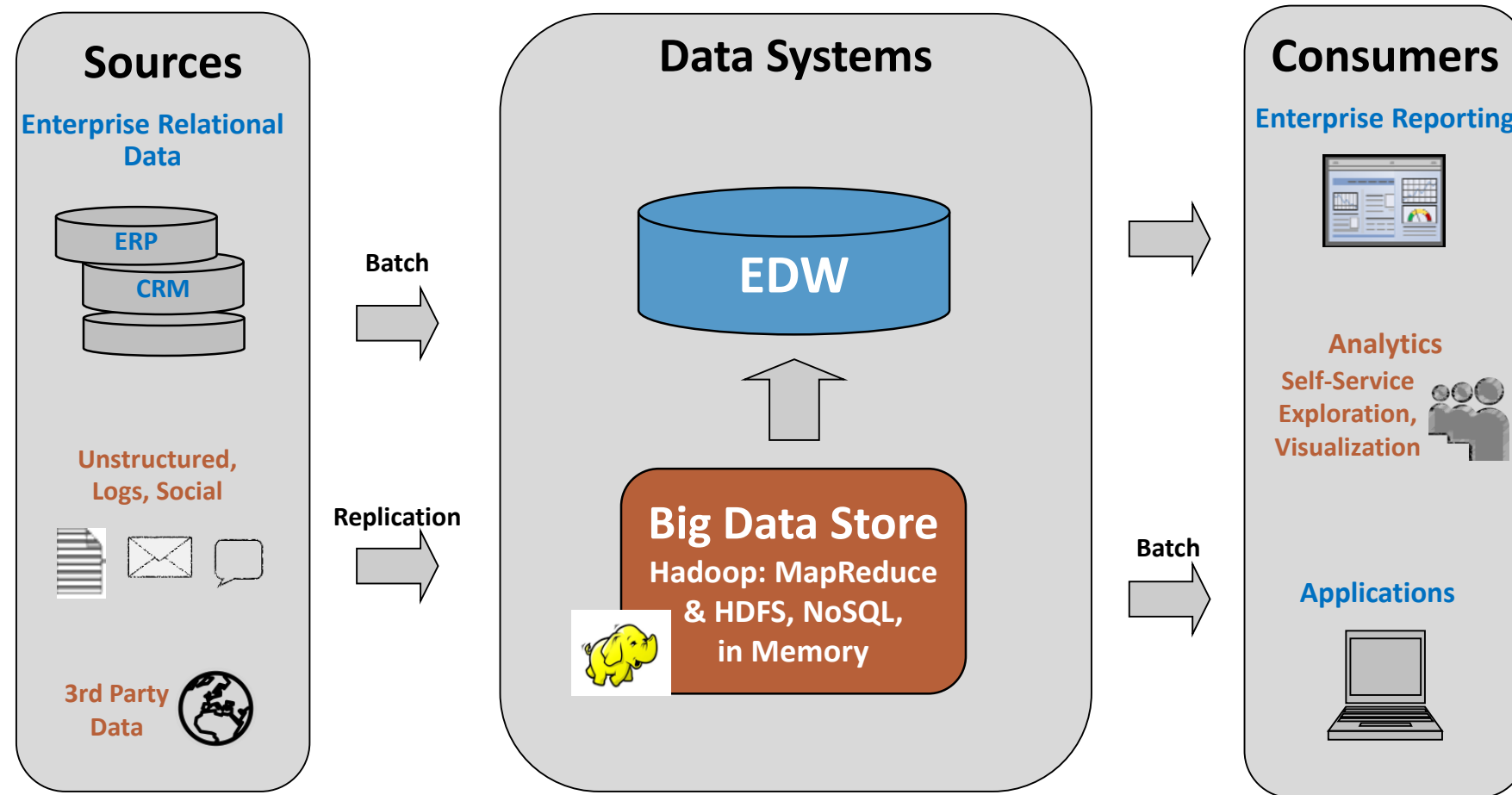


# ~1990s - Data Warehouse



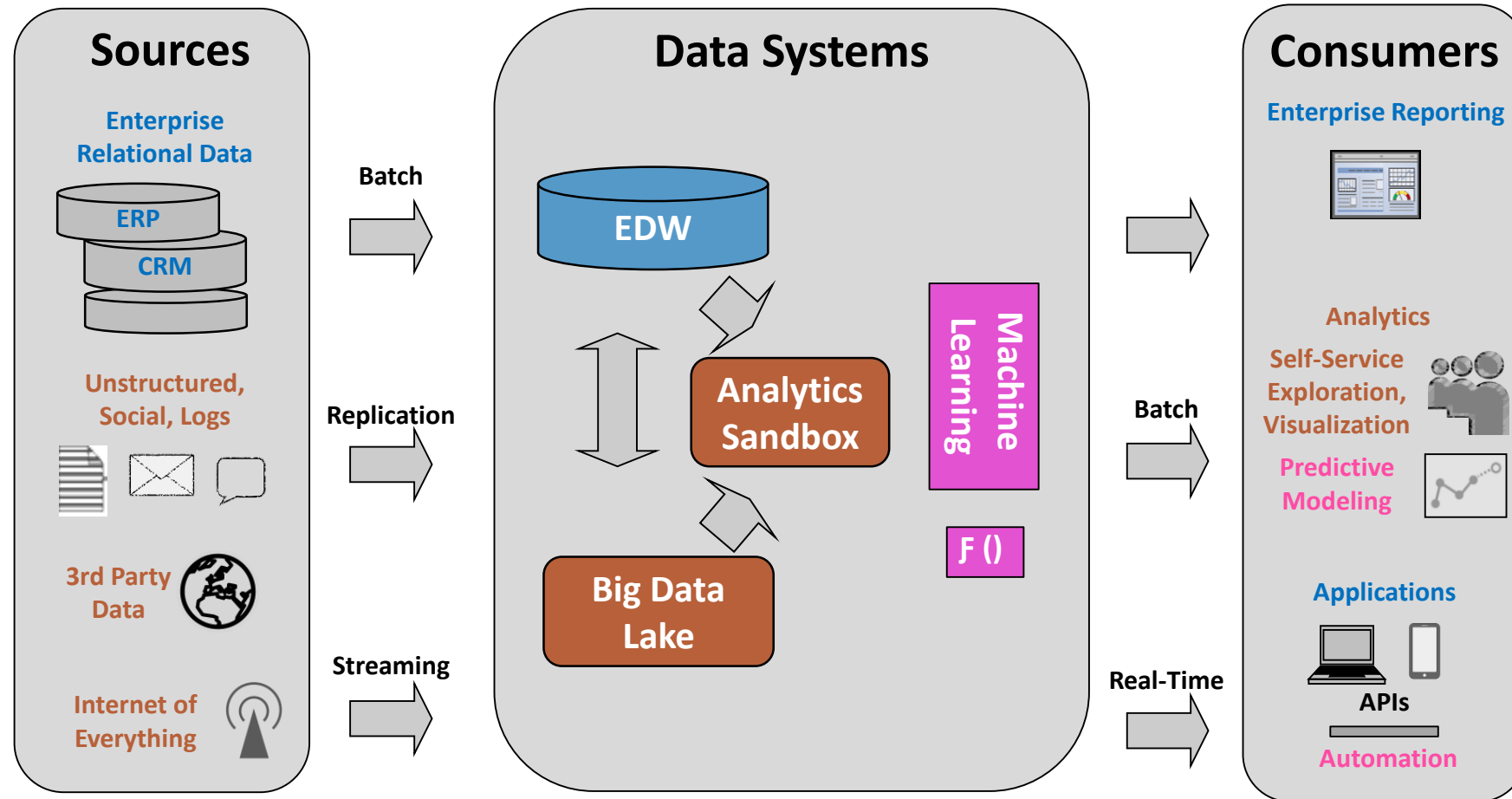
**Key Skills:** Data Analysis, SQL, Modeling, Database Administration, ETL Development, Reporting

## Consolidated Diverse Data



**Key Skills:** Data Analysis, SQL, Modeling, Database Administration, ETL Development, Reporting, Visualization, Distributed Data Administration, Object-Oriented Programming

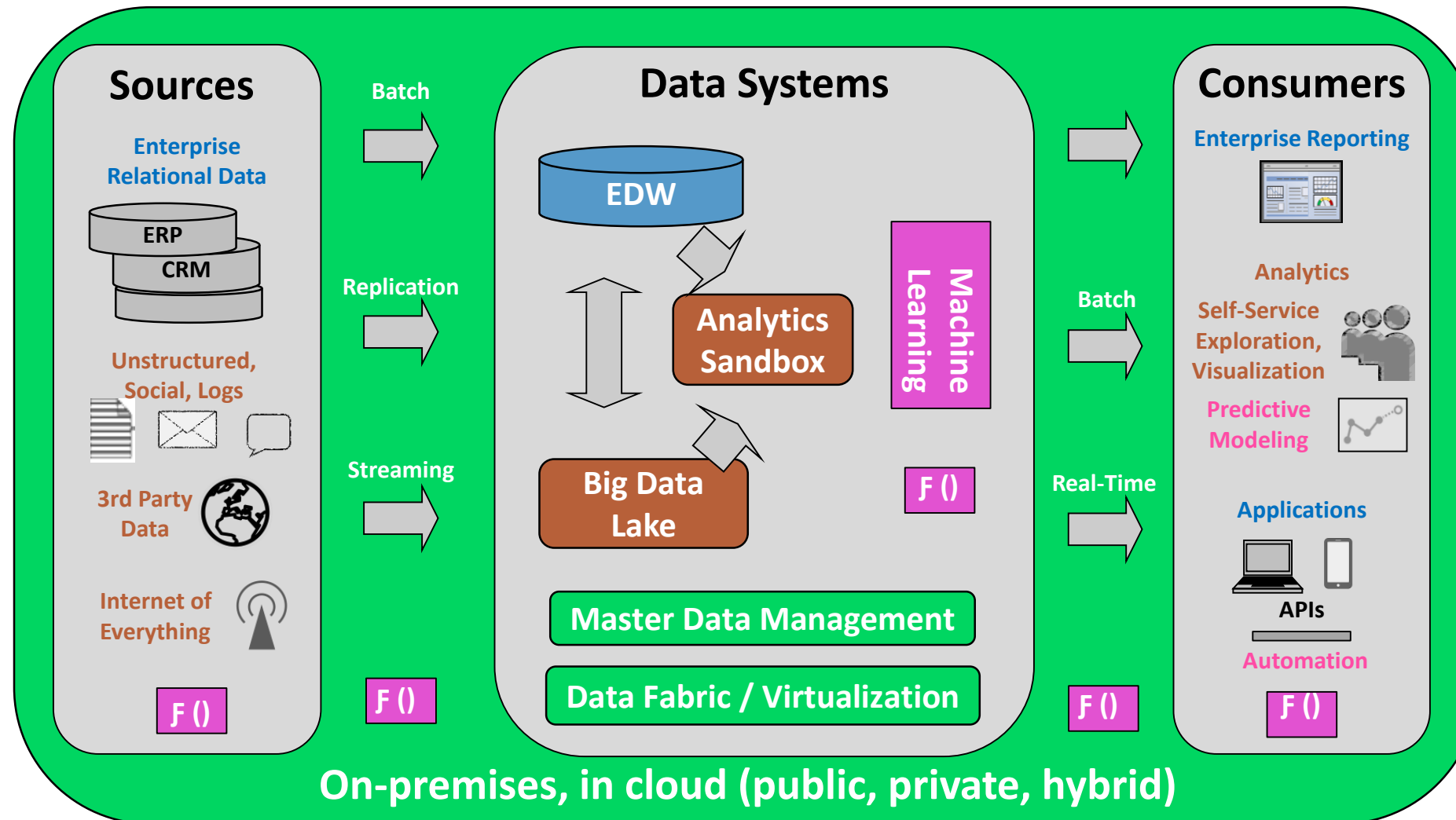
## Machine Learning, Predictive and Real-time Analytics, Automation



**Key Skills:** Data Analysis, SQL, Modeling, Database Administration, ETL Development, Reporting, Visualization, Distributed Data Administration, Object-Oriented Programming, A.I., Machine Learning, Deep Learning, Natural Language Processing, Automation.

# ~2018+ - Interconnected Intelligent Enterprise

## Distributed Interconnected Systems, Analytics Everywhere, Cloud



**Key Skills:** Data Analysis, SQL, Modeling, Database Administration, ETL Development, Reporting, Visualization, Distributed Data Administration, Object-Oriented Programming, A.I., Machine Learning, Deep Learning, Natural Language Processing, Automation, Services, Cloud, Security