

Going from BI to Data Science

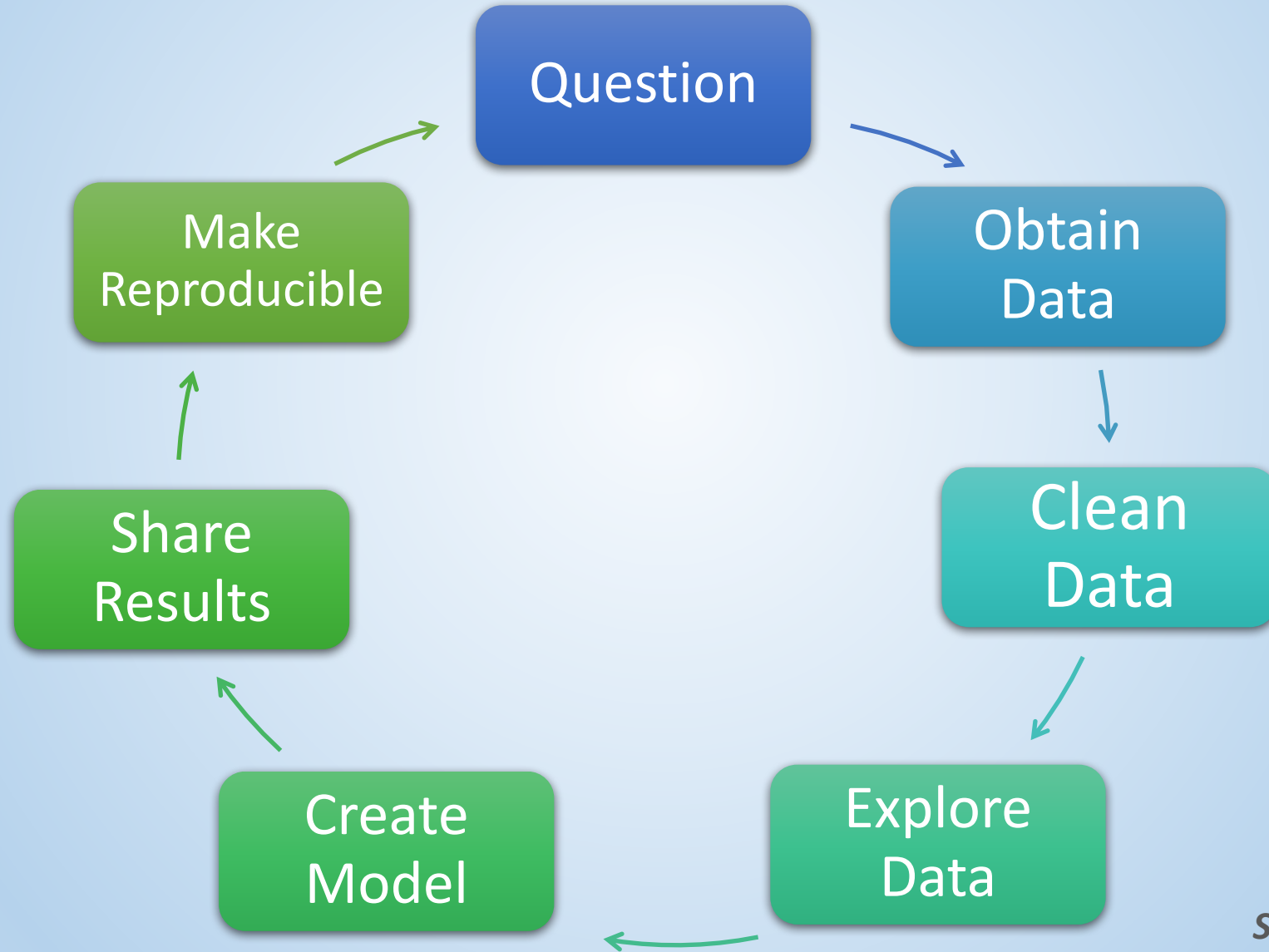
Edgar Ruiz

10/25/2016

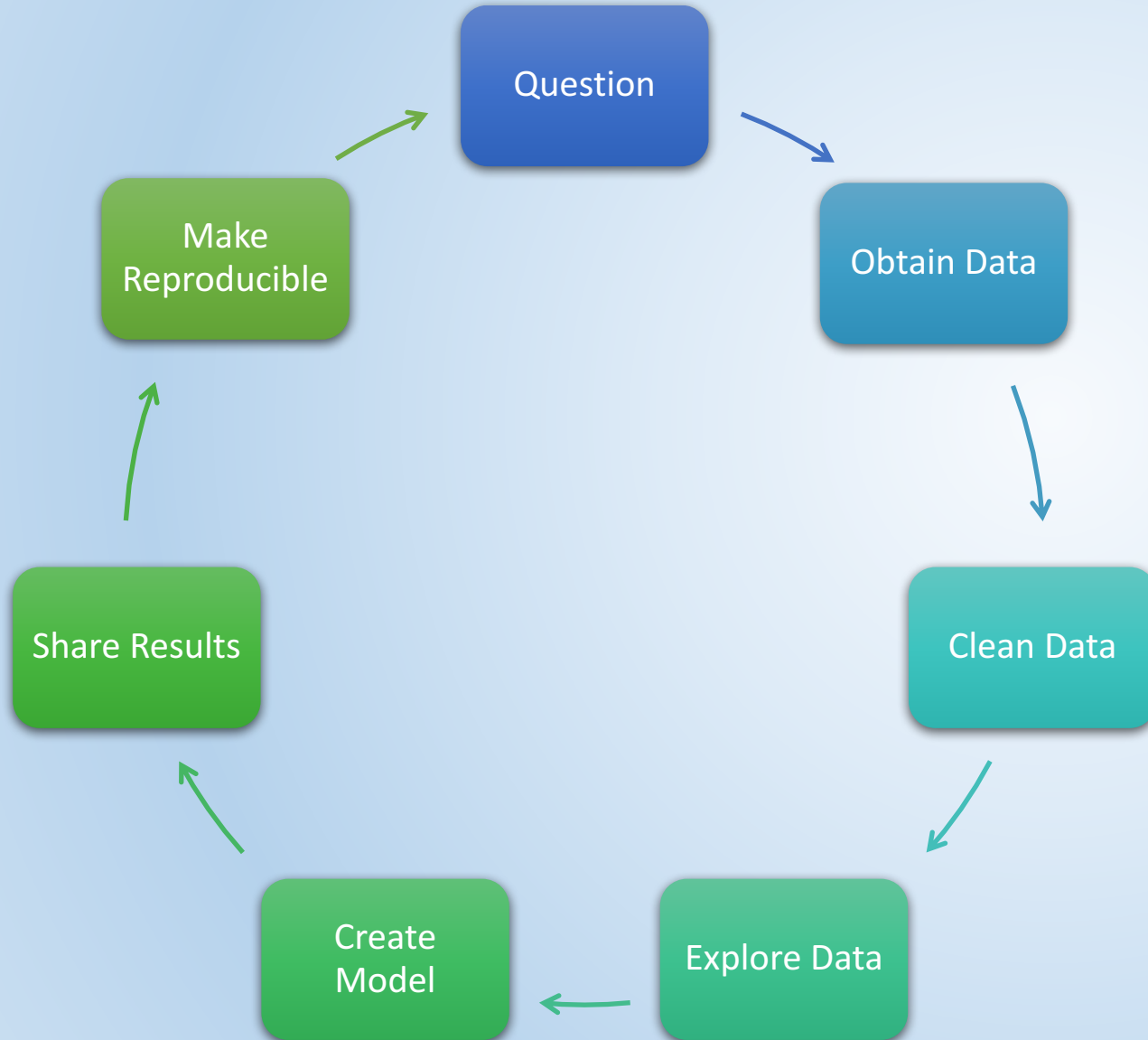
Data Science

The process of formulating a quantitative question that can be answered with data, collecting and cleaning the data, analyzing the data, and communicating the answer to the question to a relevant audience.

Data Science



Data Science

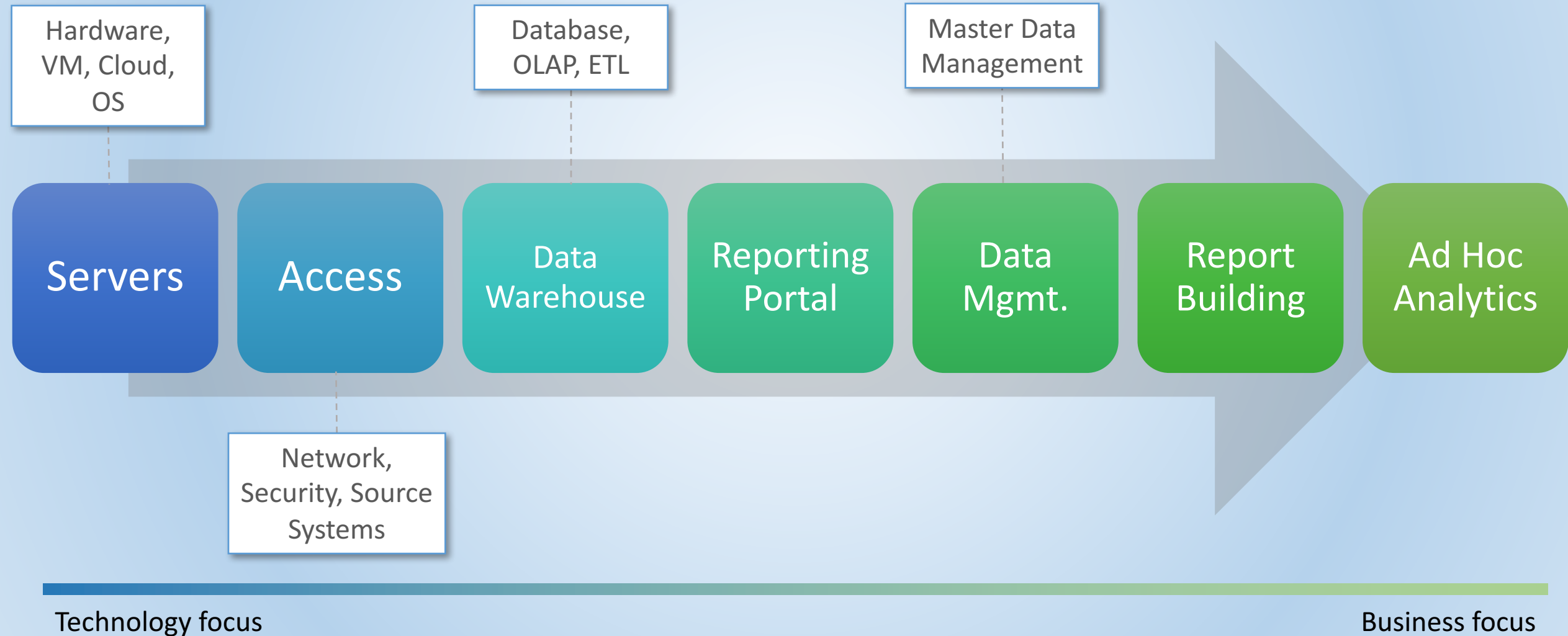


Attributes Checklist

- **Code**
- **Data**
- **Statistics**
- **Communicate**
- **Uses DS process**

Source: simplystatistics.org & HBR.org

IT Services for Business Intelligence



Impact to IT



Impact to IT

- Inclusion of Open Source Software (Linux, R, python)
 - Increased access to data
- Cloud computing (AWS, Azure, etc.)
 - Big Data (Hadoop, Spark)

Data Science




Attributes Checklist

- **Code**
- **Data**
- **Statistics**
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- **Uses DS method**

Source: simplystatistics.org & HBR.org

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Ask the right questions, manipulate data sets, and create visualizations to communicate results.

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Roger D. Peng, PhD
Associate Professor, Biostatistics



Brian Caffo, PhD
Professor, Biostatistics



Jeff Leek, PhD
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Start your journey

For managers...

The screenshot shows the Coursera website interface for the Executive Data Science Specialization. The header includes the Coursera logo, a catalog search bar, and links for Institutions, Log In, and Sign Up. The main banner features an illustration of hands interacting with data visualizations and the title 'Be The Leader Your Data Team Needs'. A sidebar on the left provides navigation links for the specialization, including 'About This Specialization', 'Courses', 'Creators', and 'FAQs', along with an 'Enroll' button indicating the start date of October 31. The main content area below the banner includes a sub-header 'About This Specialization' and a paragraph describing the specialization's focus on assembling the right team and avoiding common pitfalls in data science projects. A footer note mentions financial aid availability.

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Assemble the right team, ask the right questions, and avoid the mistakes that derail data science projects.

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