

How Customers Are Using the IBM Data Science Experience - Expected Cases and Not So Expected Ones

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Introduction – We're building the tools we wish we had ourselves

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- VP, Analytics @ Time Warner Cable
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- Data Scientist @ Vodafone
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What is the IBM Data Science Experience (DSx)?

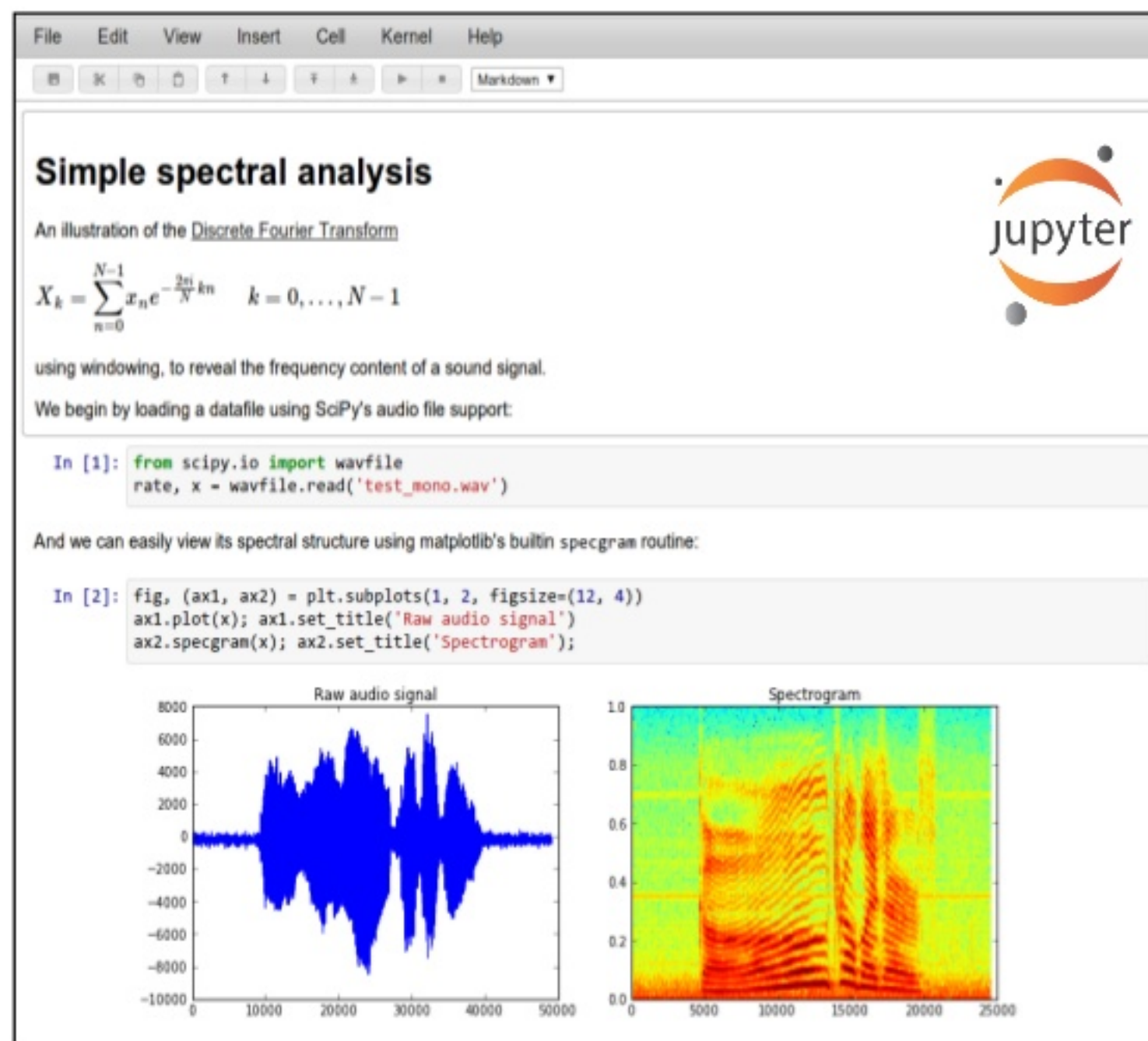


IBM Data Science Experience is an environment that brings together everything that a Data Scientist needs to be more productive, including tools, data and content

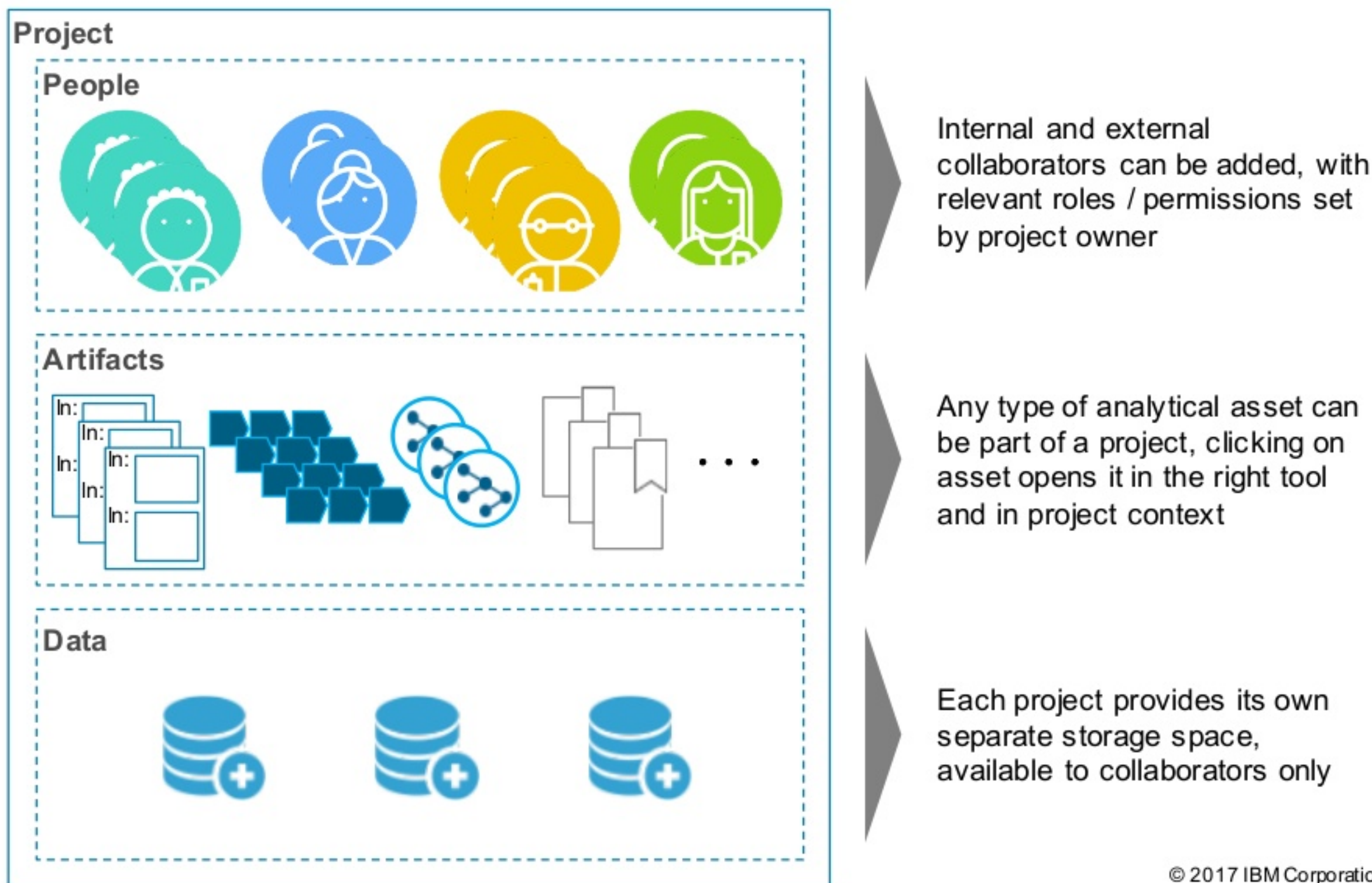
Be a better data scientist

We're built on a foundation of open source, primarily Jupyter notebooks

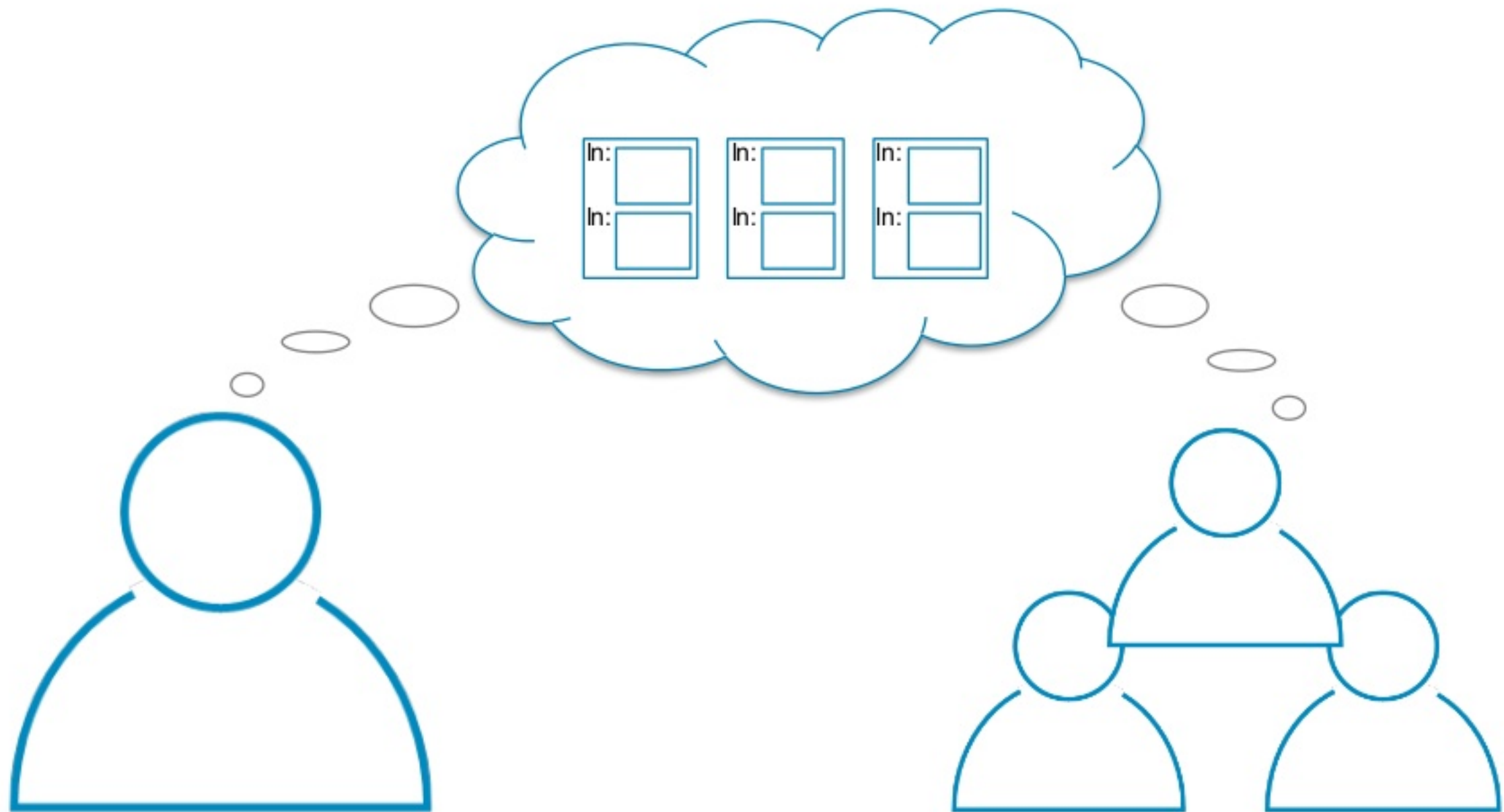
Notebooks are **interactive** computational environments, in which you can **combine** code execution, rich text, mathematics, plots and rich media.



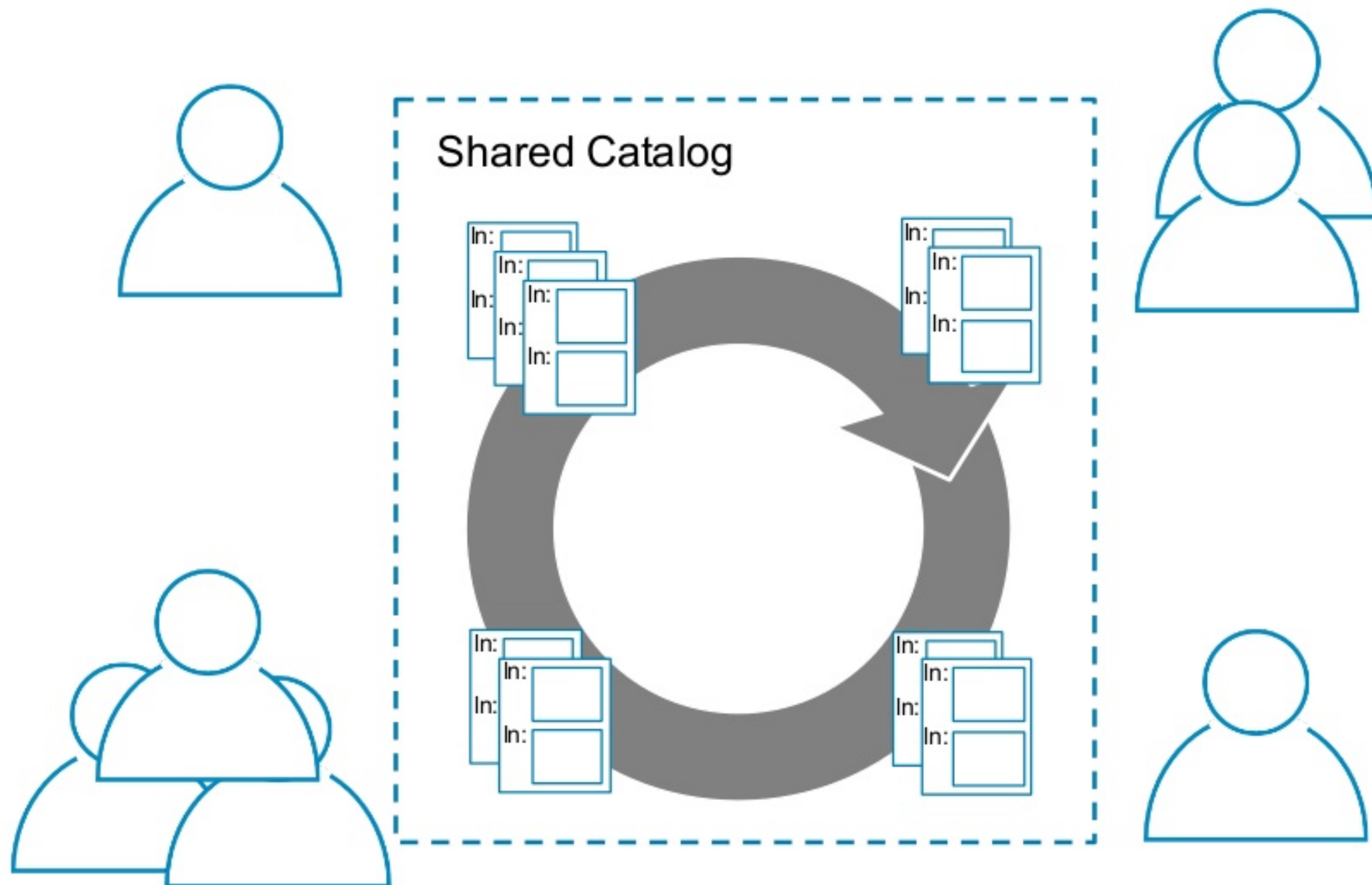
Projects are shared, collaborative workspaces that gather all assets & content in a single area



For the first time and due to notebooks, analytics knowledge can be easily captured and reused

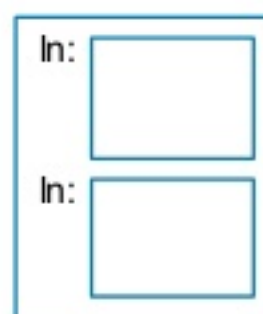
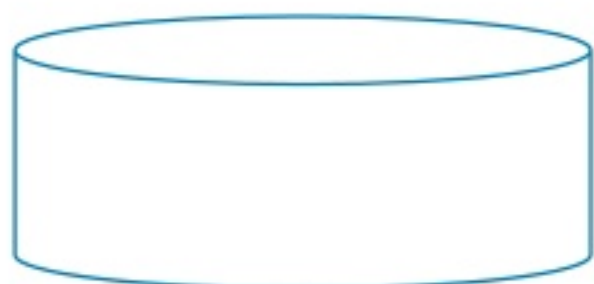


Enterprises are using notebooks as internal knowledgebases – capturing best practices and creating communities

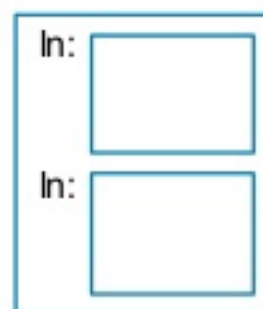
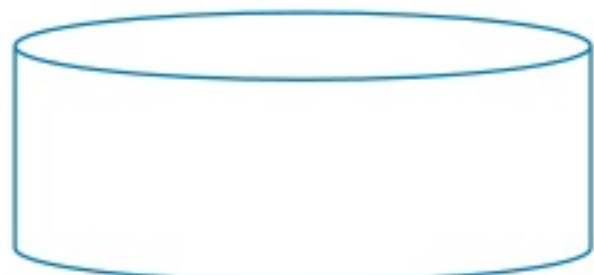


In addition, enterprises are using notebooks to document data sources and provide quickstarts

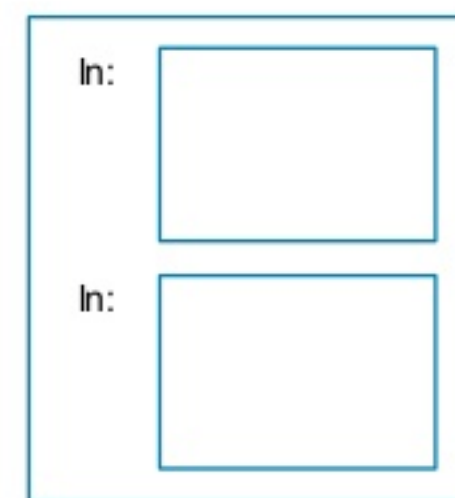
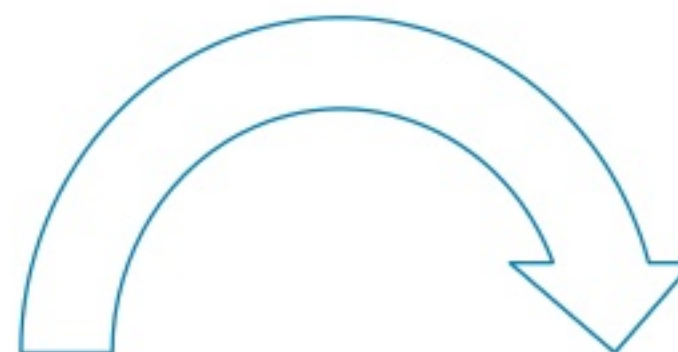
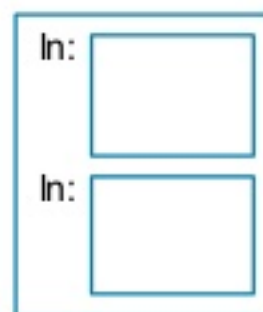
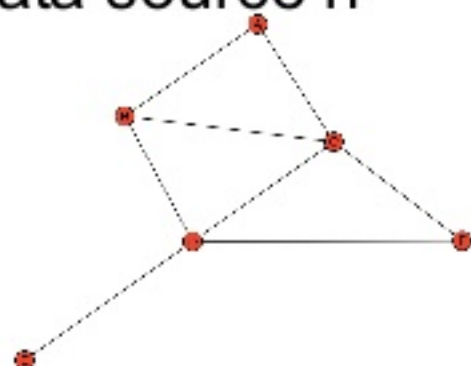
Data source #1



Data source #2



Data source n

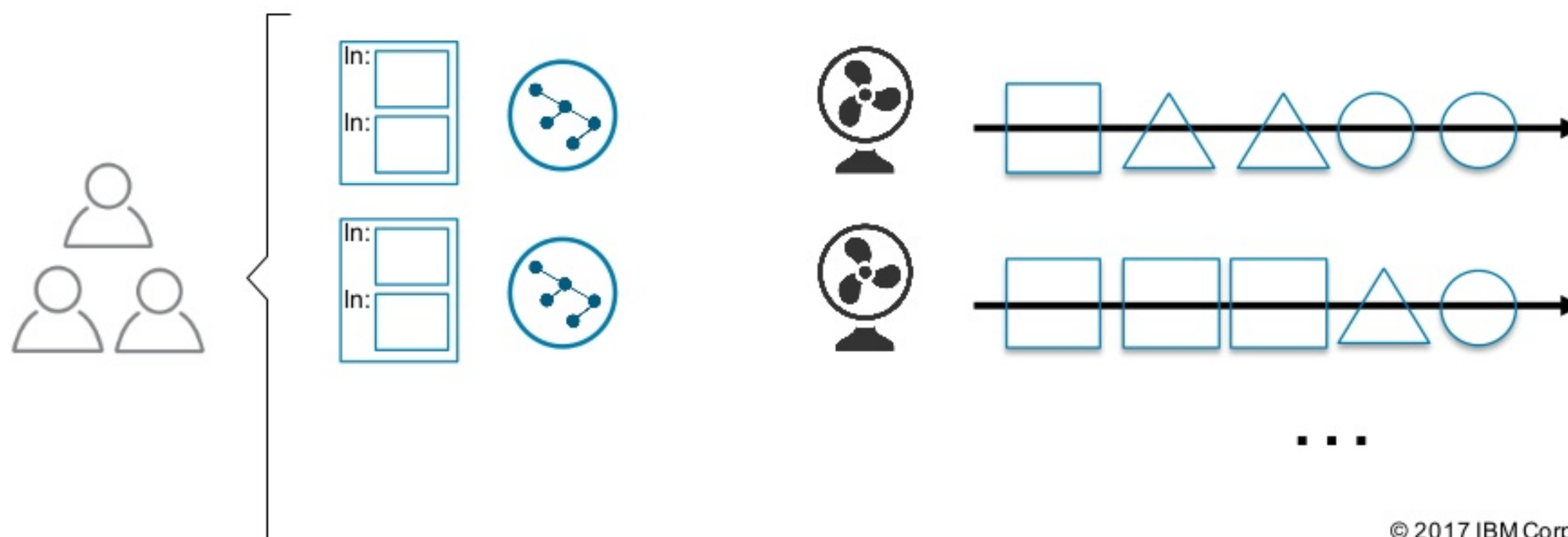


Train-the-trainer approaches are emerging as well

MASTER TEMPLATE (SR DATA SCIENTIST)



PER-LINE IMPLEMENTATION (CENTRAL TEAM)



Divide by function: Similar to a surgical team, notebooks enable work to be partitioned functionally, by skill level

Surgeon:

Executes all other pre and post work

Data Scientist:

Exploratory analysis, feature selection, deployment

Head Surgeon:

Executes most delicate procedures requiring greatest skill

Sr. Data Scientist:

Builds advanced models, reviews earlier work

Resident:

Preps the patient and assists

Business Analyst:

Articulates problem, finds and prepares data

Top 10 Use Cases for Data Science and Machine Learning

Healthcare

Real World
Evidence

Finance

Fraud Detection

Insurance

Client Risk
Scoring

Retail

Inventory
Optimization

Transportation

Demand
Forecasting

Networks

Intrusion
Detection

Marketing

Customer
Segmentation

E-Commerce

Recommender
Systems

Manufacturing

Anomaly
Detection

Energy

Demand
Forecasting

Follow-ups

TRY IT:

datascience.ibm.com

MORE COMMON QUESTIONS (UPCOMING BLOGS):

- Organizational Structures for Data Science Teams
- Recruiting and Grow-Your-Own Approaches to Acquiring Data Science Talent

