

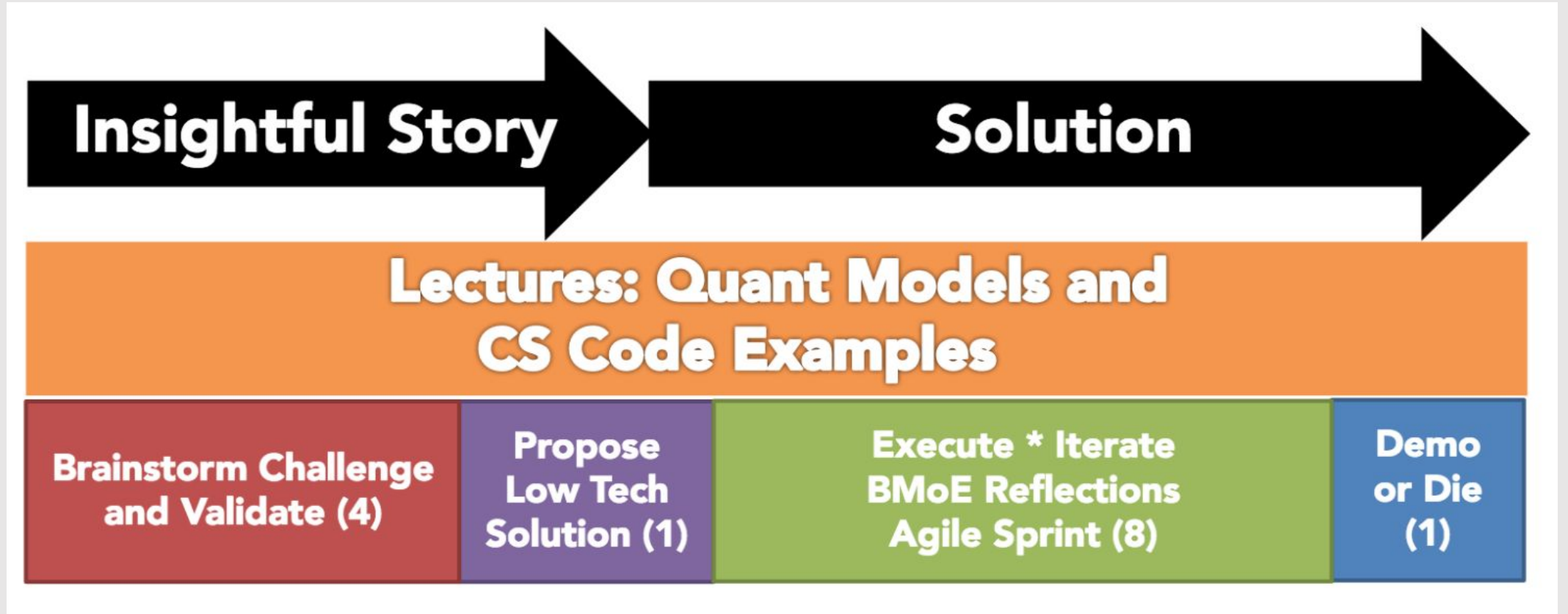


DATA X

Getting Started with Data-X Projects

Data X: A Course on Data, Signals, and Systems

Course Overview



Open-ended, real-world project: Typically 5 students, with available advisor network

Project Types



Business or Consumer Use Case

(or improve part of a data pipeline
or work towards a research result)



Social Impact

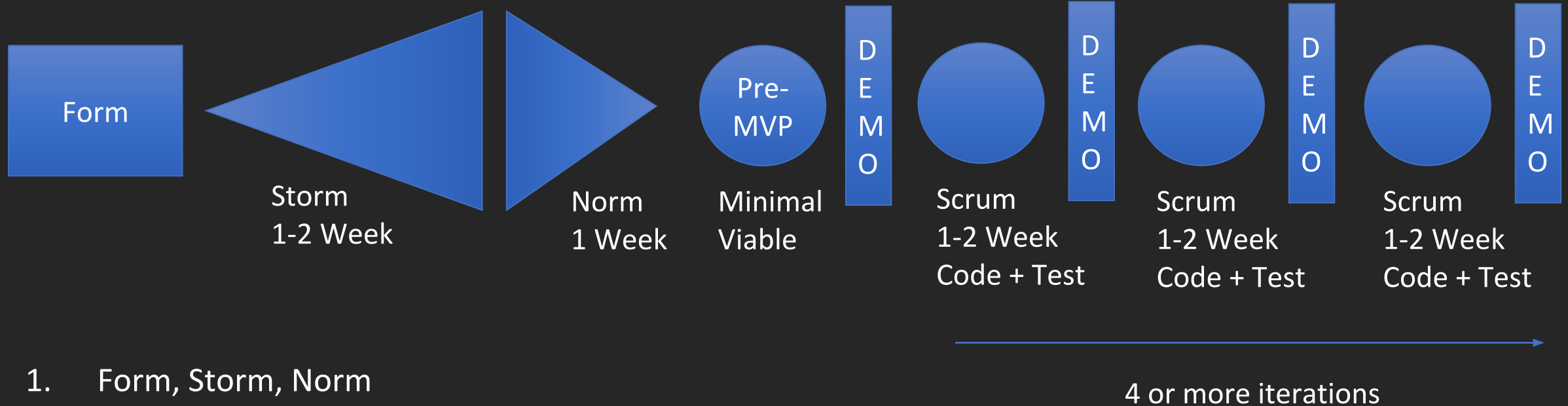


Its Just Cool

Project Categories:

- Completely by student team
- Industry proposed projects
- Data-X library

Implementation Behaviors and Process



1. Form, Storm, Norm
2. Minimum Viable
3. Key skeleton components
4. Hypothesis ☐ Test ☐ Record
5. Agile Model for Feature Increments (for a changing objective)
6. Agile Analytics

To get started -
you will need a Concept and then a Story

CONCEPT → NABC → STORY → EVERYTHING ELSE

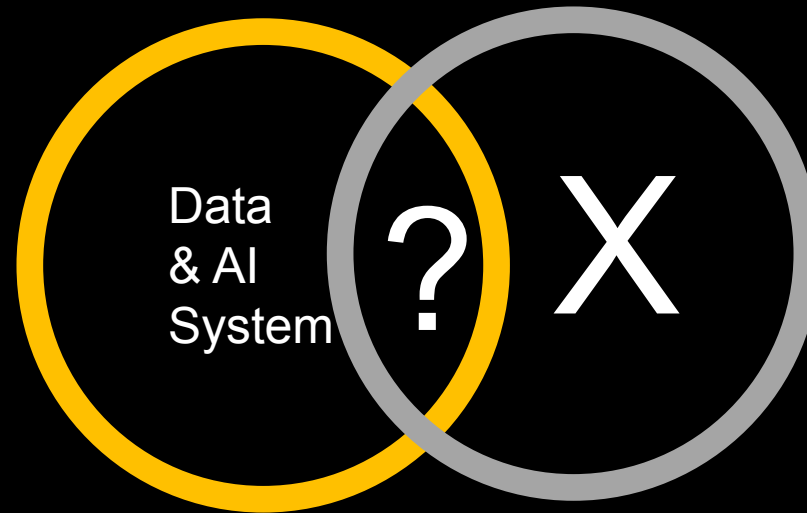


This is called a **high concept pitch**.
It works for company also.



- Trick: no one else is doing it already
- Gets a conversation started.

For Data-X



Reinvent or Adapt Something, but Use a Data or AI type of System

More Ways to Get Your Concept:

AXB Story Generation

Ideal Customer Experience

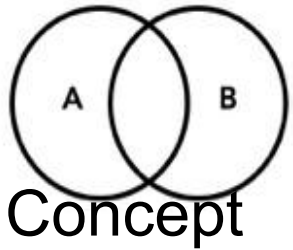
Solving A Problem You Have Seen

Something that could be automated

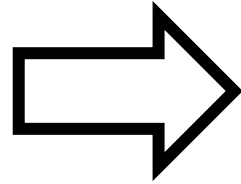
Predicting something important



Assignment: Scope the Concept

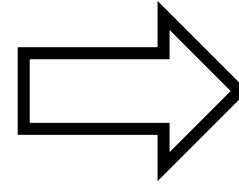


- AxB
- Ideal Experience
- Something that could be automated, done better, or predicted



NABC Story Outline

1. Need
2. Approach
3. Benefit
4. Competition



- Pitch
- Navigator

Explain your logic:
why is this a good space

Match with Team



Your Target



Project Name:

Add team members and contact:

NABC format story:

Need:

Approach

Benefit:

Competitions:

Logic:

Why is this a good market space?

How Will Your Project Win?

- Your answer,

e.g. ours is easiest to use or lowest cost to do X

- General reflection

What is Working/Known?

- Your answer

e.g. our User interface works

What Not Yet Working/Not Known?

- Your answer

e.g.

- we don't have the right data
- accuracy is too low

Reminder: To get started, you need a project concept. Start by coming up with as many project ideas as you can



Business or Consumer Use Case

(or improve part of a data pipeline
or work towards a research result)



Social Impact



It's Just Cool

Project Categories:

- Completely by student team
- Industry proposed projects
- Data-X library



END OF SECTION