



Credit One Project

CARLOS E PENA

Data Scientist

Define the Goal



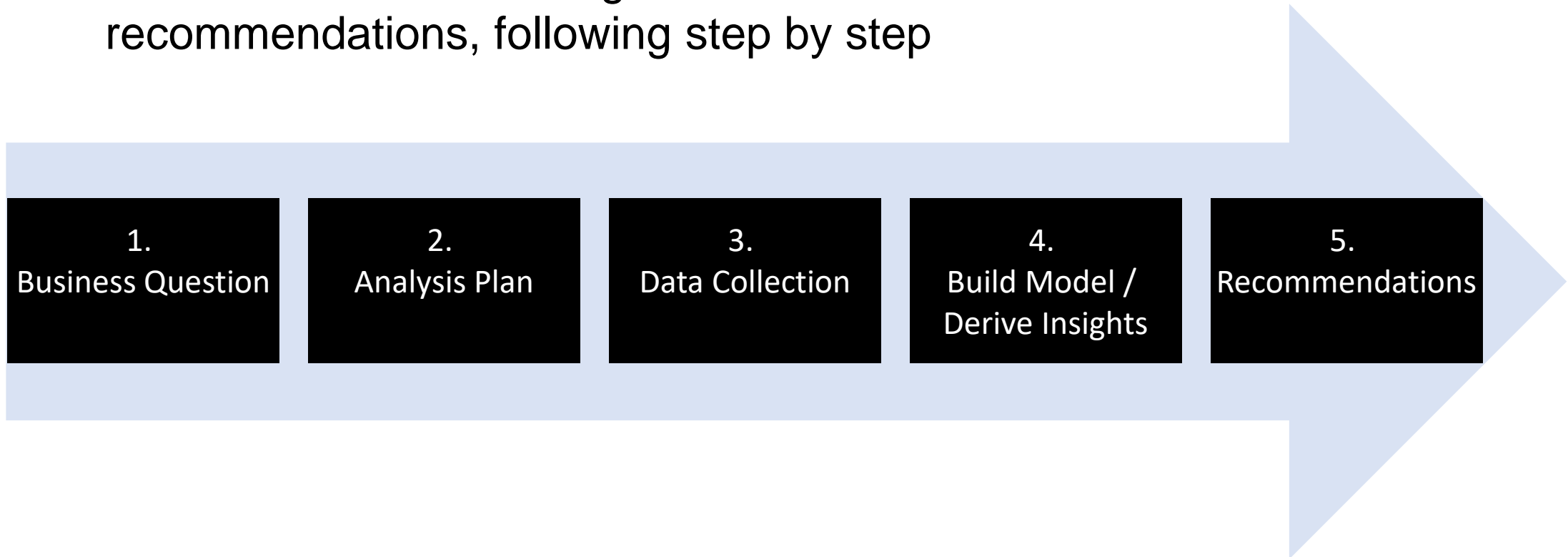
- ✓ Credit One is at risk of losing business because its credit score service is getting less effective:
 - Increase of customers who have defaulted on loans
- ✓ **Credit One needs to improve its understanding on how much credit is allowed to someone to use.**



Data Science Framework



- ✓ The framework to be followed for this project will be (BADIR):
 - From clear understanding of the issue to the recommendations, following step by step



Collect Data



✓ Historical data has been collected:

- *Amount of the given credit*, between \$10K and \$1,000K
- *Gender*, 60% female – 40% male
- *Education*, High school, University, Graduated school and other
- *Marital Status*, married, single, divorce, other
- *Age*, goes from 21 to 79 years old
- *History of past payments*
- *Amount of previous payment*
- *Customer behavior*, default and not default



Manage Data



- ✓ Data is in well shape although some work need to be done:
 - Check on missing data
 - Handling inconsistent data
 - Delete duplications
 - Data reduction
 - Check relationship between data



Potential issues with Data



- ✓ There are some concerns with the given data:
 - Relationship between variables
 - Information need to be numeric, therefore some text data need to be changed
 - Too much data
 - What information will be meaningful for the analysis



Initial Insights



- ✓ Glean from quick look at the data:
 - Divorce people is less likely to default
 - People less than 30 years old, high school degree with high amount of credit
 - Customer behavior, 22% of people expected to default
 - From those 22%, 55% has a credit lower or equal to \$100K and 37% lower or equal than \$50K

