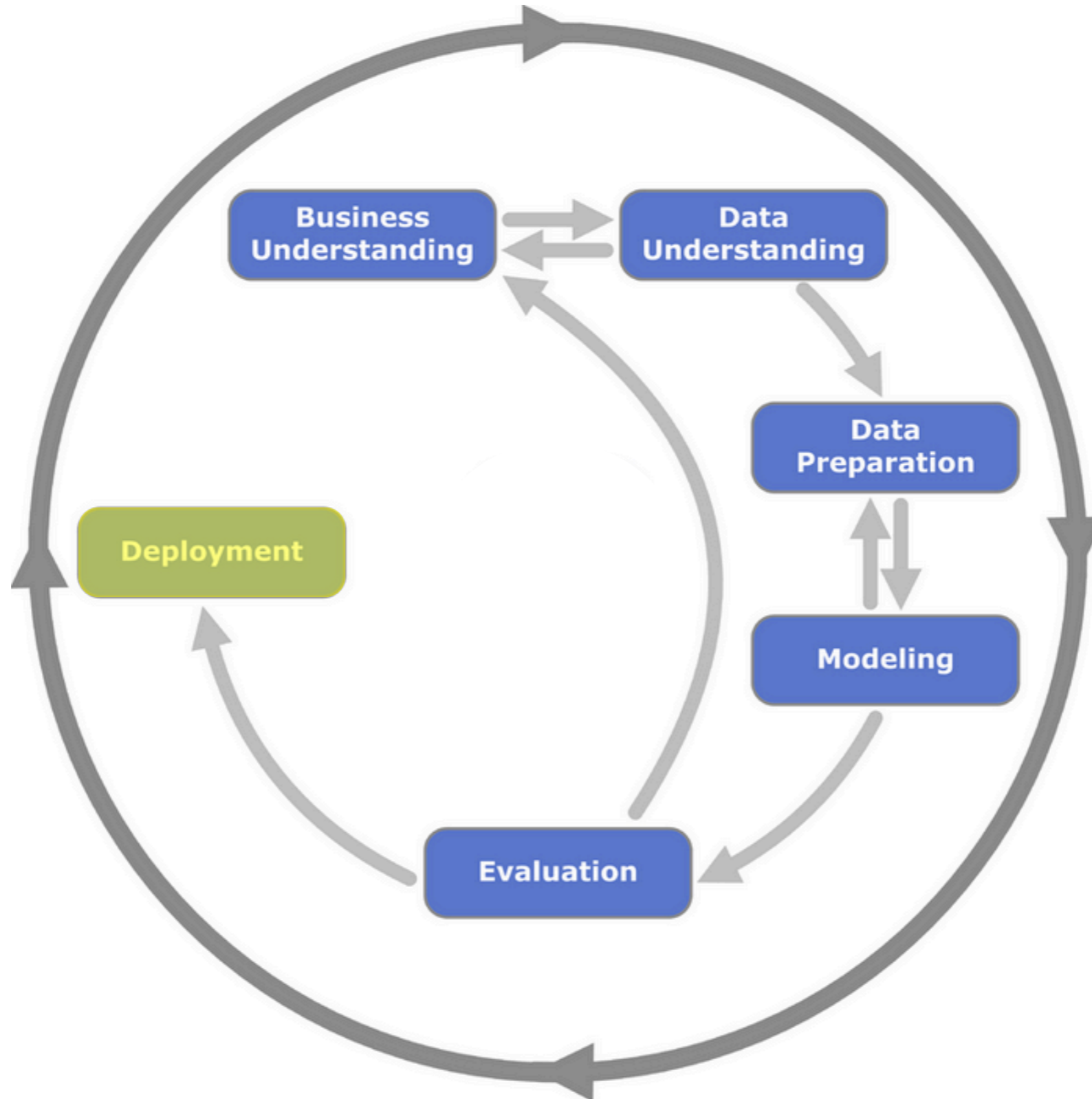# CS490DSC Data Science Capstone Deployment

Jean Honorio
Purdue University

Important

- Please read this together with the case study
- The case study will discuss a fictitious health insurance company called the Amazing Health Network

CRISP-DM

Phase 6: Deployment

- Creation of the model is generally not the end of the project

- Even if the purpose of the model is to increase knowledge of the data, the knowledge gained will need to be organized and presented in a way that the customer can use it

- This phase can be

  - as simple as generating a report

 - as complex as implementing a repeatable data mining process across the enterprise

Phase 6: Deployment
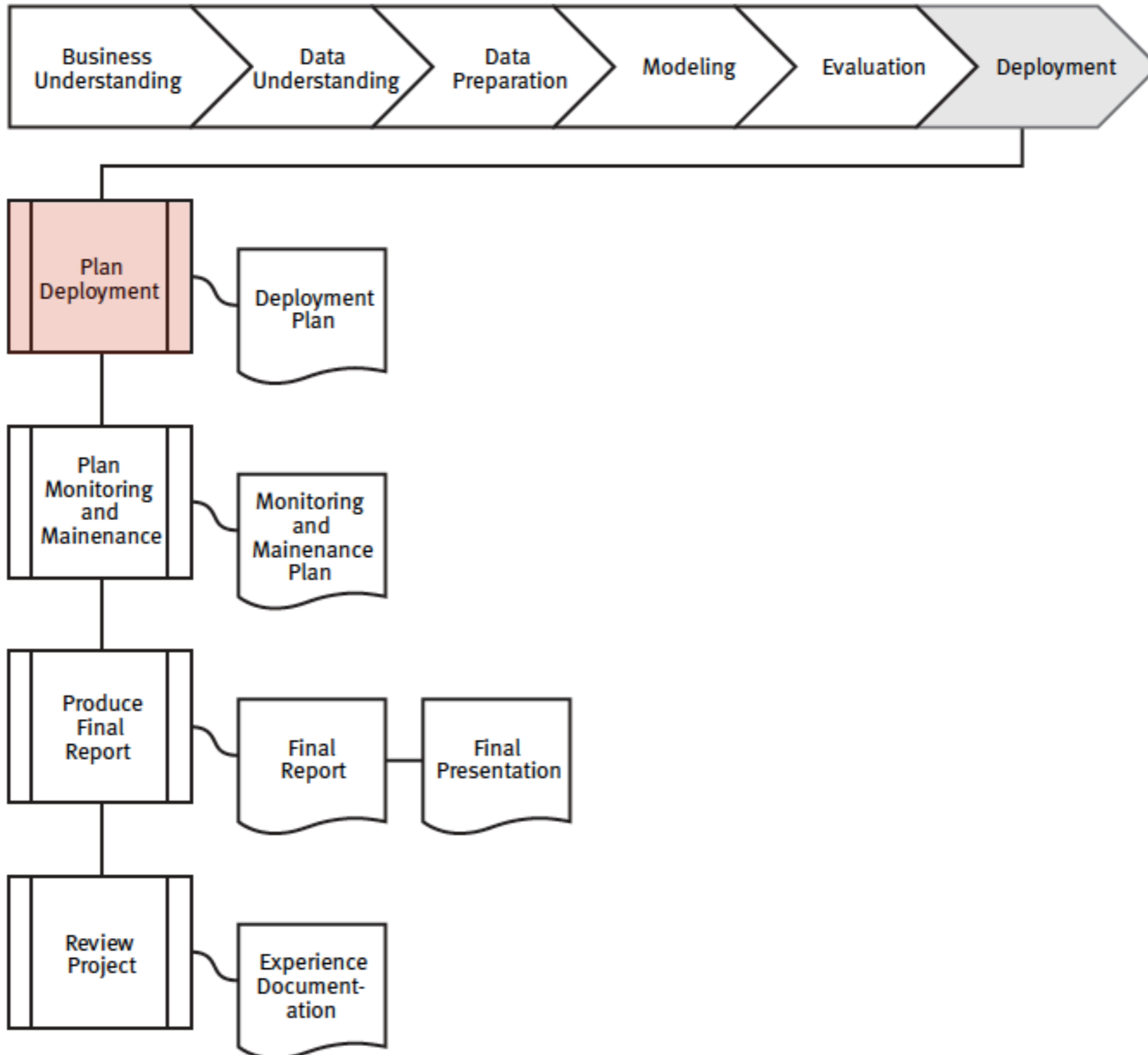
1. Plan deployment

- This task takes the evaluation results and determines a strategy for deployment

- If a general procedure has been identified to create the relevant model(s), this procedure is documented here for later deployment

- Summarize the deployment strategy, including the necessary steps and how to perform them

Phase 6: Deployment
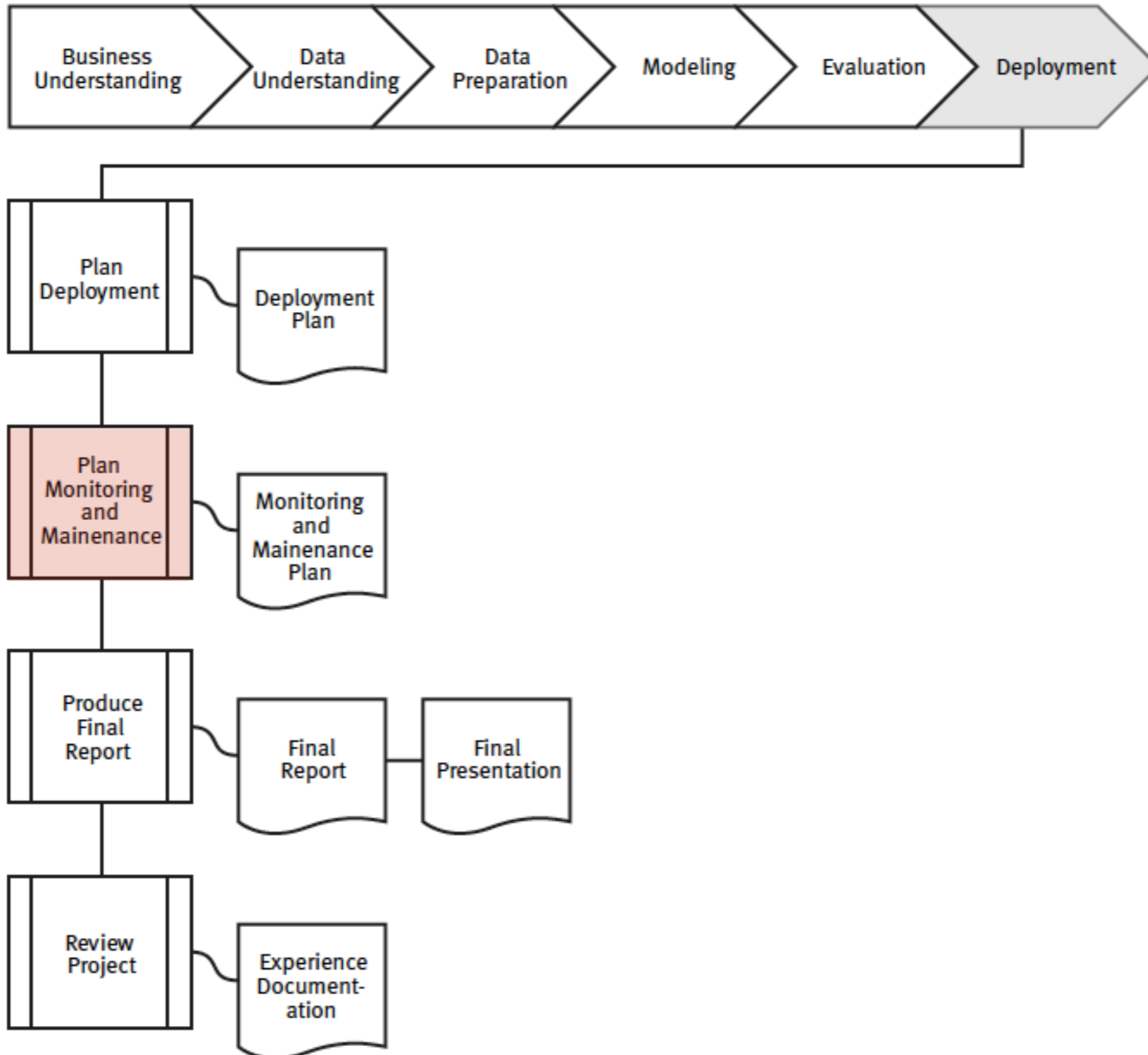
2. Plan monitoring and maintenance

- Monitoring and maintenance are important issues if the data mining result becomes part of the day-to-day business and its environment

- The careful preparation of a maintenance strategy helps to avoid unnecessarily long periods of incorrect usage of data mining results

- In order to monitor the deployment of the data mining result(s), the project needs a detailed monitoring process plan

- This plan takes into account the specific type of deployment

- Summarize the monitoring and maintenance strategy, including the necessary steps and how to perform them

Phase 6: Deployment
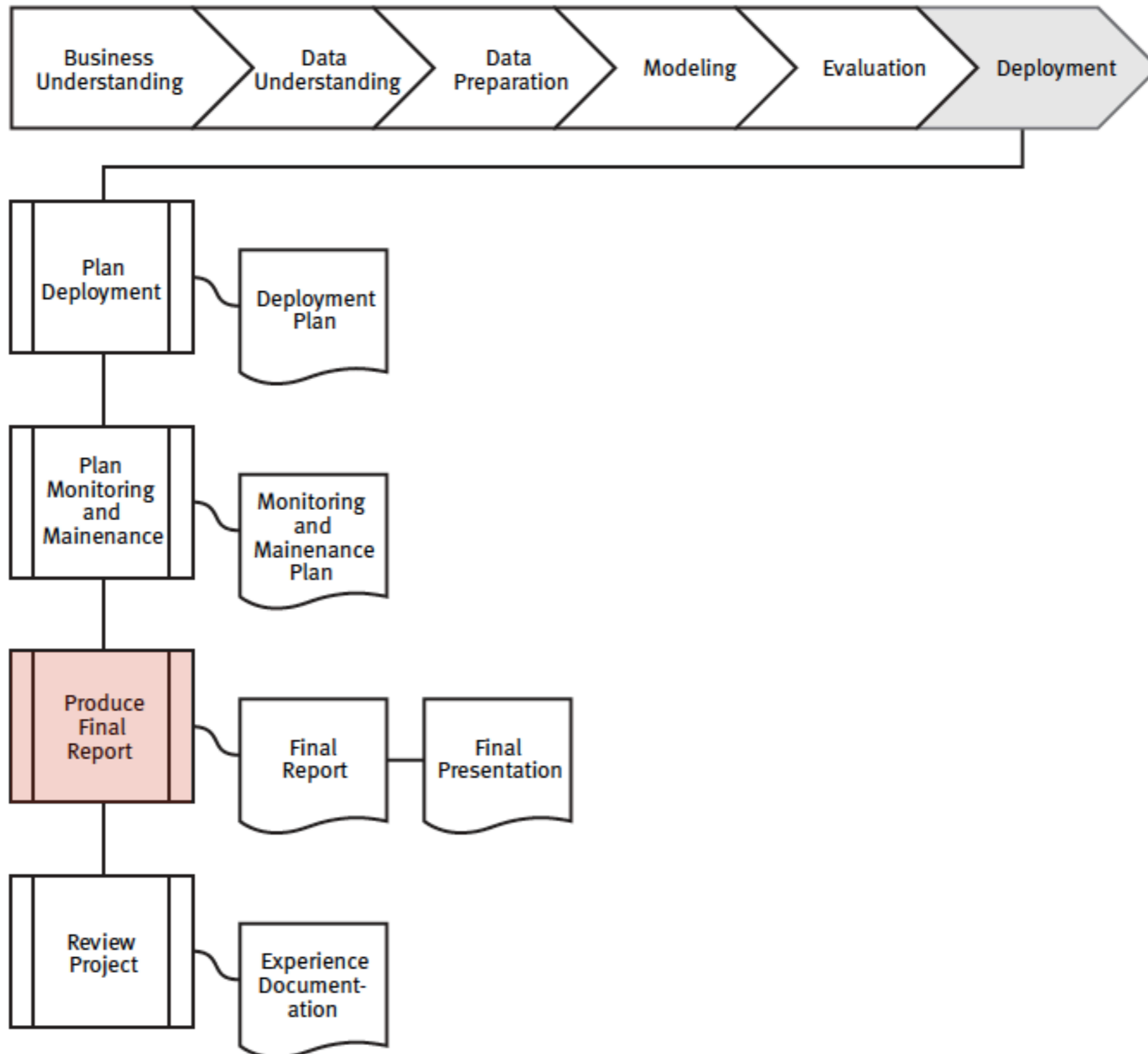
3. Produce final report

- At the end of the project, the project team writes up a final report

- Depending on the deployment plan, this report may be:
  - only a summary of the project and its experiences (if they have not already been documented as an ongoing activity)
  - or it may be a final and comprehensive presentation of the data mining result(s)
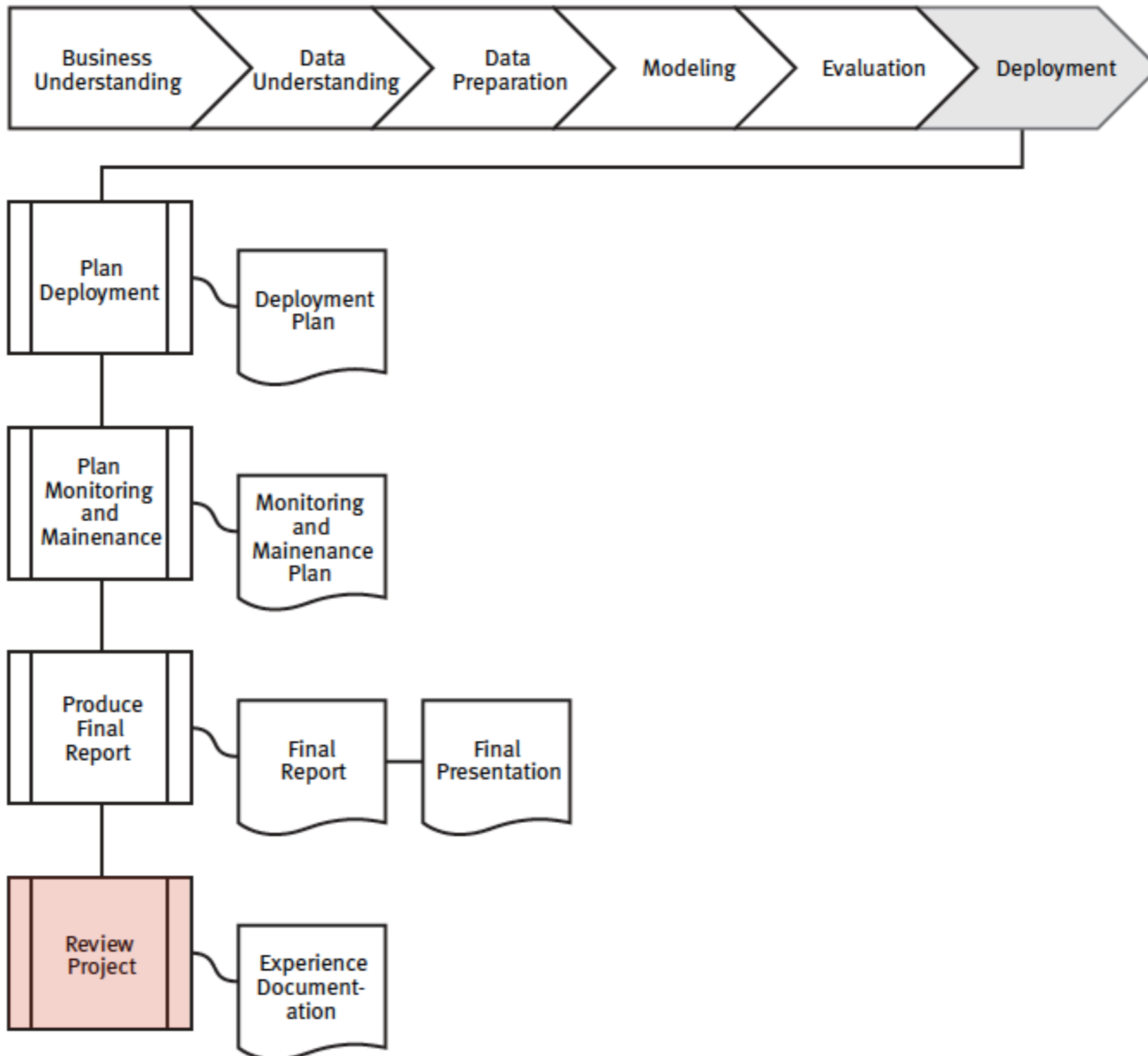
3.1. Final report

- This is the final written report of the data mining engagement
- It includes all of the previous deliverables, summarizing and organizing the results

3.2. Final presentation

- There will also often be a meeting at the conclusion of the project at which the results are presented to the customer

Phase 6: Deployment

4. Review project

- Assess what went right and what went wrong, what was done well and what needs to be improved

- Summarize important experience gained during the project. For example:
  - pitfalls
  - misleading approaches
  - or hints for selecting the best suited data mining techniques in similar situations

- In ideal projects, experience documentation also covers any reports that have been written by individual project members during previous phases of the project