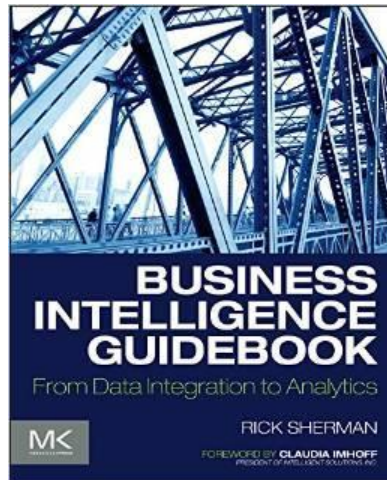

Business Intelligence Guidebook

Templates



Chapter 2:

BI Roadmap Template

BI Roadmap

Final Project

Date: 7/30/23

Author(s): Nathan Nauman

Sponsor(s): Jeffry Babb

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BI ROADMAP - SUMMARY

Table 1: BI Roadmap Highlights

Project Release		N	N + 1	N + 2	N + 3
Timeframe	Final Completion Date: 7/30/23	n/a	n/a	n/a	n/a
Key Deliverables	Interactive Dashboard that will allow users to look at historical housing prices based on city and state and walkability. Another dashboard will be made to highlight walkability indexes.	n/a	n/a	n/a	n/a
Business Sponsor(s)	Jeffrey Babb	n/a	n/a	n/a	n/a
Business Constituency	New Potential Home Buyers.	n/a	n/a	n/a	n/a
Business Processes	Home Buying Process	n/a	n/a	n/a	n/a
Business Applications	n/a	n/a	n/a	n/a	n/a
Data Subjects	U.S. EPA Walkability Index (https://catalog.data.gov/dataset/walkability-index) FHFA House Price Index(https://catalog.data.gov/dataset/fhfa-house-price-index)	n/a	n/a	n/a	n/a

Project Release	N	N + 1	N + 2	N + 3
	se-price-indexes-hpis-948c6)			
Source Systems	Data.Gov, Python Pandas Jupyter	n/a	n/a	n/a
Service Level Agreements (SLAs)	Data will be for the same time period for both housing prices and walkability.	n/a	n/a	n/a
Applications Retired	n/a	n/a	n/a	n/a
Technology Required	Python Pandas Jupyter(Google collab) Visual Studio Code hvPlot	n/a	n/a	n/a
Budget Allocation	n/a	n/a	n/a	n/a
Project Team (IT & Business)	n/a	n/a	n/a	n/a
Participating Resources (outside of direct project team)	n/a	n/a	n/a	n/a

BI RELEASE: [FINAL PROJECT]

Timeframe

Start Date: 7/9/23

End Date: 7/26/23

Key Deliverables

- **Business Deliverables**
 - Country, State, & City interactive dashboard that will allow users to see housing price trends and how walkability correlates with these trends specifically related to cities.
 - Walkability dashboard that will show trends for walkability index in certain cities.
- **Data Deliverables**
 - Data will be cleaned using pandas.
 - Data will be visualized in graph form, both bar and line, for housing prices and walkability.
- **Sourcing Deliverables**
 - 2 or more reliable and broad enough data sources from Data.gov
 - Currently will be using FHFA House Price Index & U.S. EPA Walkability Index

Sponsors

- Jeffrey Babb (Professor)

Business Constituency

- Potential home buyers
- Real Estate Professionals

Business Processes

- Home Buying Research Process

Data Subjects

Our Data comes from two sources, both from Data.go. The first of which is the FHFA Housing Price Index and the second is the EPA Walkability index. Both of these data sources are large views of national trends which will give us enough information to work with and make some decisions based on the data.

Service Level Agreements (SLAs)

- Walkability and housing pricing will only be compared or relationships will only be established in years where there is data under both sources.

Technology Required

- Python
- Pandas
- Jupyter
- hvPlot
- Visual Studio Code

Budget and Staffing

- Staffing
 - Nathan Nauman (Project Team Lead)

Project Team (IT and Business)

- Business Project Leader - Nathan Nauman will be handling the entire project from planning to execution to completion.

APPROVALS

Title	Name	Approval Date