| Business Diagnostic | | Problem How to improve a product or process? | Difficulty Work with an SME |
|--|--|--|--|
| A Business Diagnosis (BD) evaluates a business's current state and identifies the factors causing that state. A BD is a methodical process. A BD results in actions to improve the current state. There are 4 types of analysis (see table below). A BD is one. | | Performing a Business Diagnostic Define Focus Area: Articul concern (e.g., related to er | • |

| A What happened? | Descriptive Analytics |
|----------------------|---|
| B Why did it happen? | Diagnostic Analytics (Business Diagnostic) |
| C What may happen? | Predictive Analytics |
| D What to do? | Prescriptive Analytics |



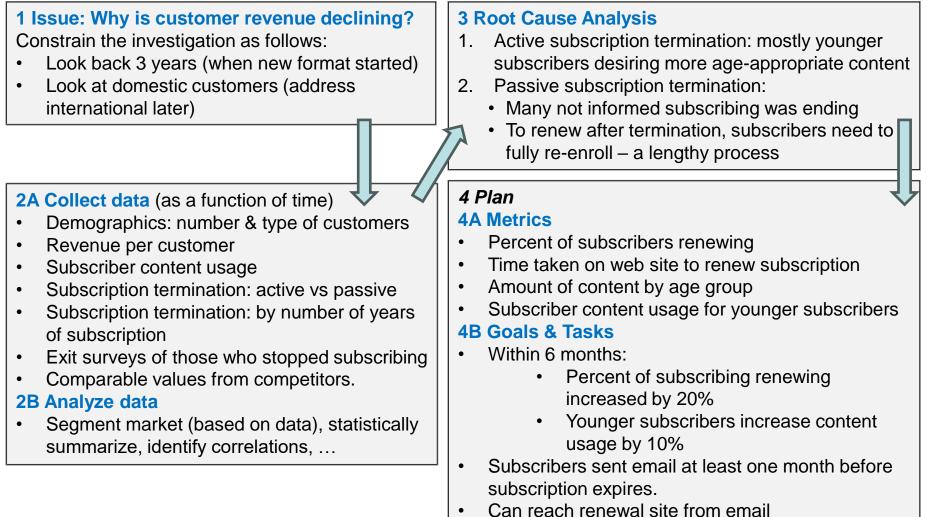
2. What? Collect and Analyze Data: Obtain relevant quantitative and qualitative data (e.g., customer feedback, expert opinions, orders, sales, profits). Analyze with statistical and other tools. Identify trends. Compare to competitors and standards.

bound the effort (e.g., "XX is out of scope").

- 3. Why? Root Cause Analysis: Use data to identify the causes impacting the top priorities.
- Actions? Develop Plan: Define metrics to assess identified causes. Define goals and create tasks. Track progress over time using metrics.

BD – Example – Subscription Service

Imagine you are running a subscription service (e.g., delivering information, entertainment, or monthly product packs) and revenue is down. Why?



Can resubscribe in less than 1 minute

Business Diagnostic – Notes

Slide 1

- 1. Business dashboards are informative, but not insightful. Knowing a key business metric is useful, but it's not actionable.
- 2. A BD answers the question, "Why did this happen?"
- 3. The "why things happen" is typically based on culture, people, processes, and tools.
- 4. The effort for a BD depends on an issue's complexity; it may take 2-10 days or longer.
- 5. For a BD, first obtain high level data. Then, as it is analyzed, obtain more detailed data.
- 6. A BD can be used to
 - A. Identify proactive solutions
 - B. Identify strengths and weaknesses
 - C. Improve customer & employee satisfaction
 - D. Improve operational efficiency
 - E. Support strategic growth
- 7. A BD is best performed by an objective team; insiders may be too close to the issues.

Images

- https://commons.wikimedia.org/wiki/File:Business_presentation_byVectorOpenStock.jpg
- https://commons.wikimedia.org/wiki/File:Demographics_age_groups_over_time_1981-2020_BE-en.svg
- https://commons.wikimedia.org/wiki/File:Ishikawa_Fishbone_Diagram_cz.svg
 https://commons.wikimedia.org/wiki/File:Decentration.html
- https://commons.wikimedia.org/wiki/File:Paperwork_-_by_Tom_Ventura.jpg
 https://commons.wikimedia.org/wiki/File:PACIO_Chart___Responsibility_Assign
- https://commons.wikimedia.org/wiki/File:N/bisker_plots_for_boat_flow_data_from_the_ILEC_data
 https://commons.wikimedia.org/wiki/File:N/bisker_plots_for_boat_flow_data_from_the_ILEC_data
- https://commons.wikimedia.org/wiki/File:Whisker_plots_for_heat_flow_data_from_the_IHFC_database.png
 https://commons.wikimedia.org/wiki/File:Wikipedia_ar_-Page_views_by_country_over_time.png
- https://en.wikipedia.org/wiki/File:Statistics0000.gif

Slide 2

- 1. This is generic example; there are subscriptions for multiple things.
- We start with a focused question (why is customer revenue declining?) and add constraints to limit the scope of the analysis. Scoping is often useful since a smaller study, which is faster, may be adequate to identify issues in a larger area.
- 3. A modest amount of data is collected and analyzed; if more were needed it could be obtained after the initial analysis.
- 4. There are multiple ways to perform a root cause analysis (RCA), there are several 6in6 presentations on RCA techniques.
- 5. It is important to create SMART (Specific, Measurable, Attainable, Relevant, and Timebounded) goals.

Recommended web sites for more information

- https://www.tactyqal.com/blog/business-diagnostictools-for-startups-smes/
- https://towardsdatascience.com/the-diagnosticanalytics-gap-3f9d0a44e8f8