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Bottom-Up Approach

The advantages of this approach are:

- Faster and easier implementation of manageable pieces
- Favorable return on investment and proof of concept
- Less risk of failure
- Inherently incremental; can schedule important data marts first
- Allows project team to learn and grow

The disadvantages are:

- Each data mart has its own narrow view of data
- Permeates redundant data in every data mart
- Perpetuates inconsistent and irreconcilable data
- Proliferates unmanageable interfaces

In this bottom-up approach, you build your departmental data marts one by one. You would set a priority scheme to determine which data marts you must build first. The most severe drawback of this approach is data fragmentation. Each independent data mart will be blind to the overall requirements of the entire organization.

Top-Down Versus Bottom-Up Approach

Top-Down Approach

The advantages of this approach are:

- A truly corporate effort, an enterprise view of data
- Inherently architected—not a union of disparate data marts
- Single, central storage of data about the content
- Centralized rules and control
- May see quick results if implemented with iterations

The disadvantages are:

- Takes longer to build even with an iterative method
- High exposure/risk to failure
- Needs high level of cross-functional skills
- High outlay without proof of concept

This is the big-picture approach in which you build the overall, big, enterprise-wide data warehouse. Here you do not have a collection of fragmented islands of information. The data warehouse is large and integrated. This approach, however, would take longer to build and has a high risk of failure. If you do not have experienced professionals on your team, this approach could be dangerous. Also, it will be difficult to sell this approach to senior management and sponsors. They are not likely to see results soon enough.