Module 1
Data Warehouse Concepts and Architectures

Lesson 4: Learning effects for data warehouse development

Lesson Objectives

- Discuss challenges in data warehouse projects
- Explain learning effects for maturity and project management
- Reflect on importance of intangible benefits for data warehouse investments

Challenges in Data Warehouse Projects

- Substantial coordination across organizational units

- Uncertain data quality in data sources

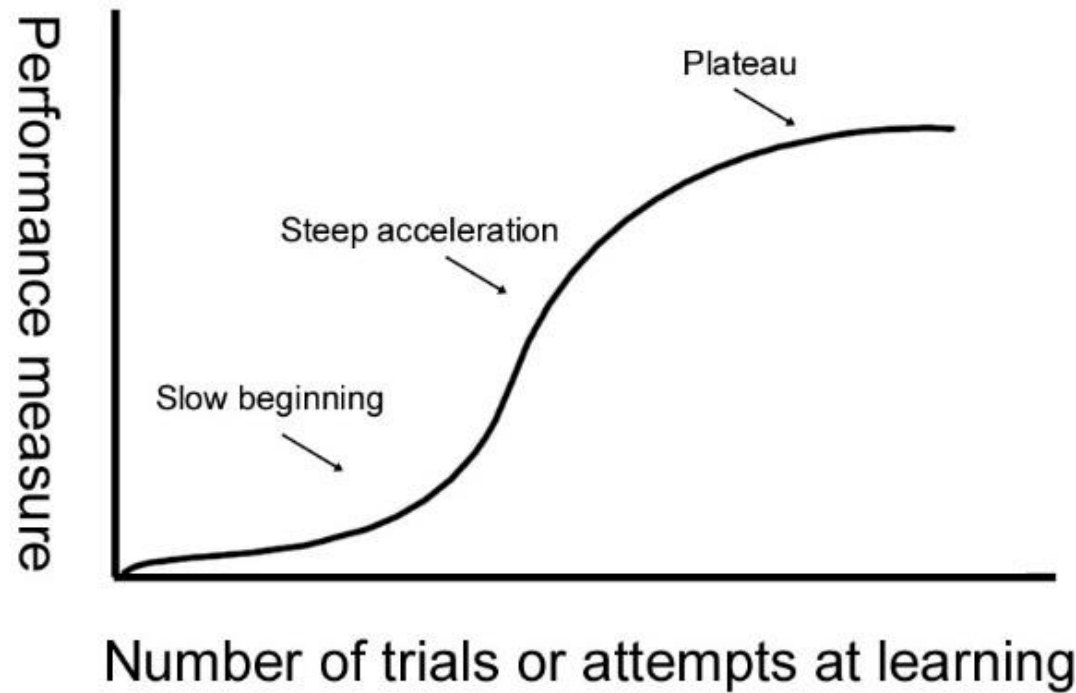- Difficult to scale data warehouse

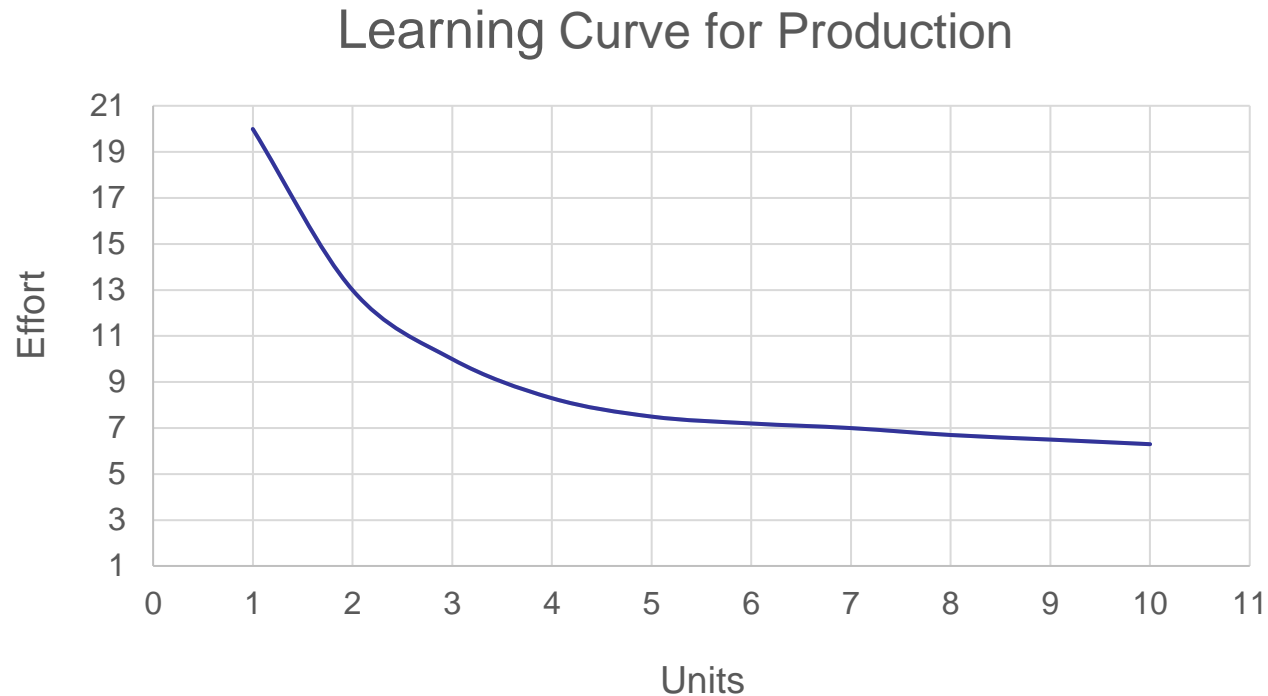# Intangible Benefits

- Not easily quantified but important for an organization's success

- Increased data quality
    - Fewer missing values
    - More matched entities
    - More data availability
    - Higher levels of compliance with data standards

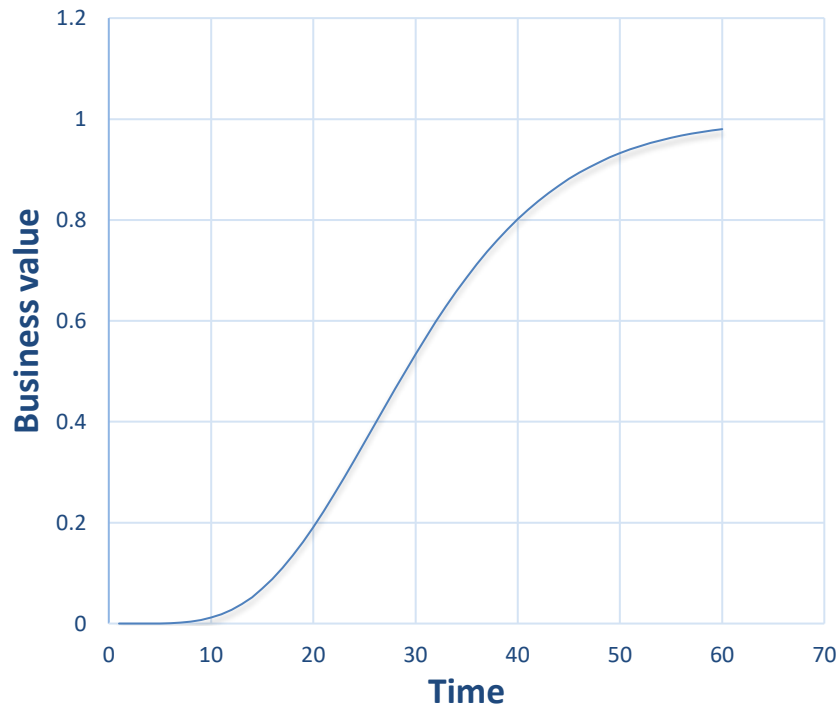- May become tangible over time

Learning Curve for Skills

Performance measure vs. Number of trials or attempts at learning. The curve shows a slow beginning, followed by steep acceleration, and finally a plateau.

Learning Curve for Production
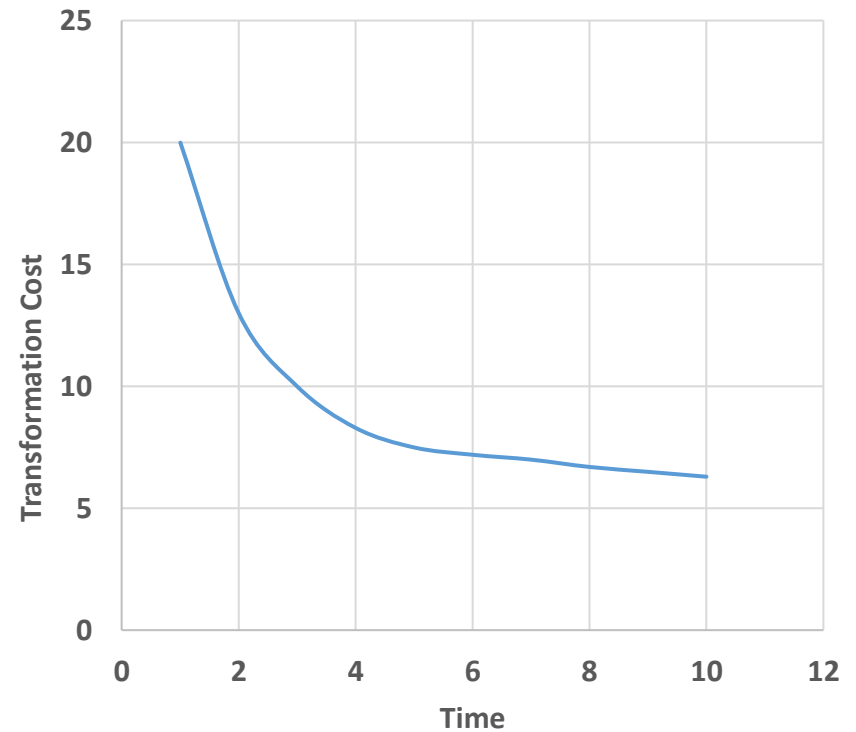

Learning Curve for Production

Maturity Relationships

Business Value Learning Curve

Data Transformation Learning Curve

Project Relationships
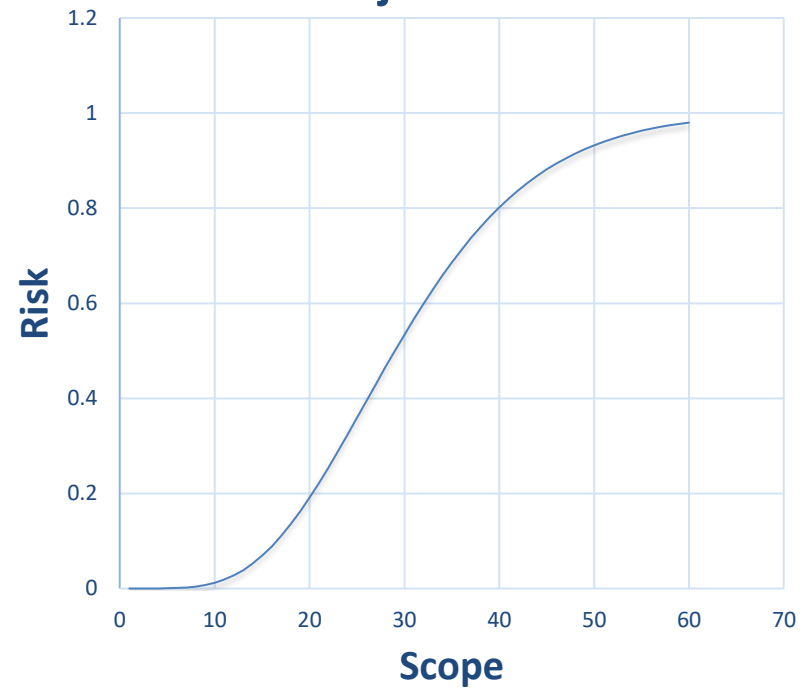
Potential Value

Project Risk

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Information Systems Program
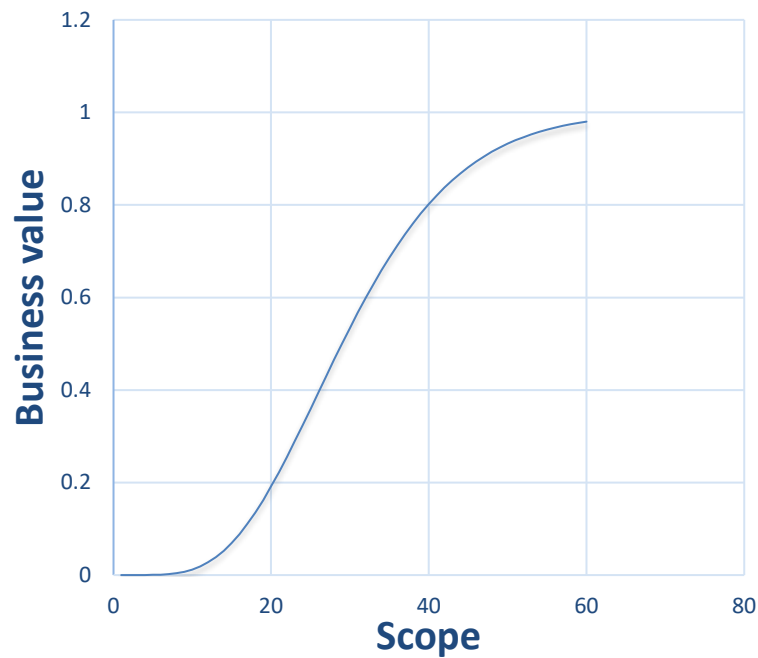
Summary

- Project difficulties and intangible business value
- Learning curves for skills and production
- Learning curves for maturity and project scope