

BMW 7-Series Project A Harvard Case Solution &

Analysis

Low quality launch as compared to

Decisions over the Cockpit Design

(i.e.: Hand Crafted vs. Automated Ways to improve operation objectives (quality, flexibility)

competitors => customer complaints

2 a. Recommendations concerning the 7-Series prototypes



2b. Recommendation Regarding Future Development Projects

Strategic Objective Enhancement

- SO 1: considering and applying lean production/manufacturing
- · SO 2: decreasing the development lead time
- S0 3: competitive benchmarking (lower customers' complaints per car)

- · Expanding the relationship with the third party logistic.
- · Promoting the interaction, communication among departments and suppliers · Having specialists and experts participate in the production process.
- · Manufacturing capacity extension
- Corporating with potential vendors, suppliers and universities.

Limitations for recommendations

THANK YOU!!





Ouestion 2 Ouestion 1

- What are the causes and consequences of BMW's quality problems with newly launched
- · What should be done to improve "launch quality"?

- · What are your recommendations to Carl Peter Forster concerning the 7-series prototypes?
- What should he do regarding future development

- What changes would you recommend i the way BMW develops new models? What attributes of newly launched products would you expect to
- recommendations?













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1b. Ways to improve its launch quality ???

- Make sure: Performance >/ = Customers expectations in such of critical
- · Durability (life-span)
- · Reliability
- · Defects per unit Scrap level



Case Problems

- Low quality launch as compared to competitors => customer complaints
- Decisions over the Cockpit Design (i.e.: Hand Crafted vs. Automated Production)
- Ways to improve operation objectives (quality, flexibility)

Question 1

- What are the causes and consequences of BMW's quality problems with newly launched products?
- What should be done to improve "launch quality"?

1a. Causes and consequences of BMW's quality problems with newly launched products









Cause 1: using different tools and materials in the prototyping process as compared to the production models

Consequences:

 Current results obtained from materials used in prototype testing may not conform with desired results in final production models

Cause 2: used part designer's drawings and clay models rather than pre-production tools in the first prototyping stage for all parts Consequences:

- Masked many design and manufacturing problems
- Lowers their opportunity to discover and fix quality problems
- Require more highly skilled craftsmen to take care of the handbuilt prototype => labour cost and more time taken

1a. Causes and consequences of BMW's quality problems with newly launched products









Limitations for recommendations



- . The initial investments: high costly
- · Constrain company's flexibility and creativity to introduce a
- completely new design

2b. Objective 1: limitation (for individual customization strat-

- Costs and wastes can increase if lean manufacturing is not successful
- Productivity would be lower
- · Possibly losing their position and customer
- bjective 2: Limitation (Decrease the development lea

 Hard to keep the quality of product perfectly right
- Difficult to make bold and attractive changes in design



- Taking Longer procurement time to purchase the right
- seterials to do prototypes and production.
- sing in company's expenditure for other materials

- Itation for question 4 Requiring utilimate changes in organization More time and heavy investment to enter and build a presence in a well-established market. Negative customer's perception on BNW branded cars



