Applying consumer and market research methods to support the introduction of new library and other central services

Prof. Dr. Reinhold Decker

Department of Economics and Business Administration University of Bielefeld

7th International Bielefeld Conference, February 3 – 5, 2004

Introduction

The crucial question:

What is a new (library) service?

Modifications of existent services

"Revolutionary inventions"

Introduction

Why do so many new products and services fail?

- Introduction of a "non-superior" p/s
- Overestimation of the future demand
- Cannibalization by multi-new p/s strategies
- Provider- instead of user-driven p/s development
- Focusing on feasibility instead of utility

Introduction

5 steps in new service development:





Environmental scanning (ES)

ES in librarianship:

Aim: Attaining enduring early-mover advantages by early detecting future challenges to new service development from weak signals in education, science, technology, politics, and society

In brief: Detecting changing user requests and needs as soon as possible









TRIZ = "Theory of inventive problem solving"Basis: analysis of more than 40.000 patentsApplications: mainly in engineering

2. Idea generation and screening

Industry:



Service sector:



TRIZ:

Technological trends

♦ Ideality

This approach:

- Environmental scanning
- b Conjoint analysis
- Analysis of contradictions
 Quality function deployment

2. Idea generation and screening

The pre-selection of ideas:

by means of screening techniques

(Scoring methods, Check lists, Kano model, ...)



Four step procedure:

- 1. Develop the ideas into concrete concepts ("stimuli").
- 2. Test these concepts with groups of target users.
- 3. Choose the one that best matches user preferences.
- 4. Check its organizational/technical implications.

by means of

Two step conjoint analysis and Quality function deployment

Conjoint analysis – the search space:

Attributes	Relevant attribute levels	
Output	Stylistic correction (of a rough translation) [A1] Full text translation ("deluxe") [A2] Rough translation [A3]	
Translation direction	$ \begin{array}{c} \text{German} \rightarrow \text{English} \ [\text{B1}] \\ \text{English} \rightarrow \text{German} \ [\text{B2}] \\ \text{German} \rightarrow \text{French} \ [\text{B3}] \end{array} $	3
Service provider	Licensed translator [C1] Native speaker (in the target language) [C2] "Intelligent" translation tool [C3]	
Terms of payment	Charge per hour [D1] Charge per page [D2]	
Price	1€[E1] 25€[E2] 50€[E3]	

Conjoint analysis – the stimuli:



Conjoint analysis – the utility values:



Conjoint analysis – the basis of decision making:

Service A:

Service Z:

Full text translation	0.40	Rough translation	0.32
German → English	0.37	German → English	0.37
Licensed translator	0.40	Translation tool	0.15
Charge per hour	0.06	Charge per page	0.10
50€	0.03	1€	0.31
Total	1.26	Total	1.25

Minimum = $0.60 \leftrightarrow 1.62$ = Maximum

Conjoint analysis – the choice simulation:

Real world simulations often require ...

- the inclusion of a "None" option
- the consideration of service-specific attribute levels
- the consideration of interactions

Choice-based conjoint analysis

Optimal new service regarding user utility

Do user requirements match with realization criteria?

Quality function deployment



4. Implementation

Starting with the blueprint:

Briefing - Contract - Service Contact -**Delivery** Line of visibility Task **Definition of Encashment Translation** Forwarding specification deadlines **Fixing terms** Listing of Discussion of **Depiction of** Return activities crucial points of payment services Clarification **Reception of** Invoicing of liabilities user request Line of interaction Manager **Translator** Manager Translator -Manager

Outlook: a current DFG project

Relevant topics:

- Conditions of media use
- Information retrieval
- > Advisory services
- User training

Analysis of library services **Development of concepts** Preference measurement Simulation study Generalization Validation

Target users:

- > Students
- > Sc. assistants



- Professors
 - > Administrative staff
 - Residents of **Bielefeld & OWL**

Economically and organizationally justifiable services with a high probability of utilization

A general framework for systematically developing new services

Background

Commercial applications of conjoint analysis:



"There is always a way to do it better ... find it!"

Thomas A. Edison