
Preface

Ever since I learned to fly airplanes, I am passionate about long-distance gliding in the Alps. Every time I take off in the early morning, I never know exactly which challenges I will have to overcome during the day. Especially the weather conditions are constantly changing, making it impossible to forecast even the thermal behind the next mountain range with certainty. Despite this lack of information, I have to decide whether it is worthwhile to "jump" over the ridge into the next valley towards my target. To obtain the experience how to instantly study the new conditions, reassess the previous plan, and adjust the route accordingly was a tough process, ending several times in an acre instead of my home airport. But most other times, when it worked out, I was rewarded with great moments and majestic impressions.

New product development projects resemble long-distance flights in many aspects. They are also exposed to numerous uncertainties and require continuous adjustments of the development efforts in order to successfully launch the product. While decision making during a flight is relatively straightforward and can be based on experience, it is far more complex for development projects. The basic principle, however, remains the same. Additional information obtained during the process has to be considered in the decisions for the remaining periods. Although this process is intuitive and follows the natural way of making decisions, it has hardly been formalized for development projects so far. It became the goal of this work to develop a decision model that explicitly takes information updates into account in order to better manage uncertainty. I hope it will be instrumental to managers and academics alike when facing difficult decisions in complex new product development projects. This work was submitted in fulfillment of the requirements for the doctoral degree at WHU, Otto-Beisheim School of Management, in the department of Production Management, chaired by Professor Dr. Arnd Huchzermeier.

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