# Make vs Buy

Die 10 wichtigsten Faktoren nach [1]:

1. Strategie und Wettbewerbsvorteil
2. Kosten
3. Umfang und Komplexität
4. Entsprechung der Anforderungen
5. Entwicklungszeit
6. Erfahrung in IS (Information Systems)
7. Risiko
8. Betriebliche Faktoren bzw. Produktions-Faktoren
9. Geistiges Eigentum (Ideen, Patente)
10. Altsystem

Often, due to the limitation of technological and other resources, developing a software application in-house may be less beneficial. In such circumstances, development firms opt to either buy software or outsource the development. [1] S.1

“in a typical software development environment, where procedures, standards and team structures are followed, developing software is an expensive activity”[1] S.1

the build versus buy decision is really tough to make, especially when the decision is being taken for the first time [1] S.1

The in-house software development has certain advantages and disadvantages. One of the advantages is the complete control over the application code and development schedule. On the other hand, the cons of the in-house development include: constant staff engagement, lower functionality, and updates are hard to make as a complete iteration of development is required for this purpose which causes expensive time. [1] S. 1-2

a software application may be bought from a vendor when the use of software is critical, the problem is common, the application of software is organization-wide, and a sound software development department is not available. Buying software from a vendor, however, has its own advantages and disadvantages. The pros of buying software from a vendor include the ready- made solution, flexible software, support and training, and enhanced functionality through customer’s feedback. The cons of buying software from a vendor include: the functionality determination by the vendor, vendor’s right on code, and dependency on the vendor for the support of issues and updates.[1] S.2

It is, however, evident that the build versus buy decision is not a straight decision and requires ample consideration of facts, parameters, the economic situation, and the realization of the organizational strengths and weaknesses [1] S.2

## Quellen

[1] B. Shahzad, A. M. Abdullatif, N. Ikram, and A. Mashkoor, “Build Software or Buy: A Study on Developing Large Scale Software,” *IEEE Access*, vol. 5, pp. 24262–24274, 2017.

[2] P. Chatzipetrou, E. Alégroth, E. Papatheocharous, M. Borg, T. Gorschek, and K. Wnuk, “Component selection in Software Engineering - Which attributes are the most important in the decision process ?,” 2018.

[3] C. Miller, “Outsourcing Strategies in Software Engineering,” 2018.