The Collaborative Research Center IMPROVE has started and is going to transfer most of its results to industrial practice over a period from 2006 to 2009. The majority of IMPROVE subprojects has started a transfer phase. The subprojects are reorganized into transfer projects. Most of these transfer projects are financed by German Research Foundation (DFG) in the framework of the transfer center TC 61 “New Concepts and Tools for Process Engineering Practice”. This transfer center can be regarded as the fourth phase of IMPROVE.

The individual transfer projects cooperate with different industrial partners from various industrial sectors, including chemical industry, plastics processing, plant engineering, software industry, and even an insurance company. Due to the dissimilar research interests of these partners, the transfer projects are only loosely connected. Bilateral cooperation will take place where appropriate. But other than the CRC subprojects, the transfer projects do not share a common overall research objective.

It should be pointed out that the transfer projects are the result of a consistent industry-oriented research strategy, which the CRC followed right from the beginning. Thus, the transfer phase does not constitute an abrupt transition from fundamental research to applied development, but continues the already existing research cooperation between CRC and industry in a different way.

This chapter is organized along the transfer projects. Each section states the goals of the respective transfer project, the problems to be solved, and the methods to be applied. Moreover, the industrial requirements influencing the direction of research will be discussed.

This chapter deals with another integration aspect, extending the technical aspects given in Chaps. 2, 3, 4, and 5, namely the integration between academia and industry. This aspect is more of a political or economical nature.