**Lifecycle DoE**

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During the development of biopharmaceutical processes there are often several work packages to investigate the influence of input parameters on quality attributes as well as process performance. These experiments are often planned as individual DoEs (design of experiments) and OFATs (one-factor-at-a-time experiments).

The idea of a lifecycle DoE is to augment a primary DoE over a whole project life cycle. It enables to shift the design space towards optimal settings based on intermediate analysis during development. One can add new factors and easily compensate lost runs. In the end one resulting model using the combined data during the whole project life cycle is achieved.