The emergence of computer-aided systems and especially numerical methods has revolutionized the product development process. Several types of simulations and calculations during the process are nowadays state of the art. In order to manage the mass of resulting data, simulation data management systems have evolved and spread across specific branches dealing with the interaction of design and simulation departments. In this paper, together with workflows from the development process of an industry partner in SIPOC and BPMN, development tasks are separated according to their department – design or simulation – in order to show the interaction along a process. As a result, three different patterns are recognized within the generated depictions: capsuled patterns, integrated patterns, and outside patterns. Specific behaviour towards simulation data management issues and particularly
simulation requests can be stated for each of them. Consequently, this approach can support the implementation process of a simulation data management system by selecting suitable forms of simulation requests according to the workflow.

**Stichworte:** Simulation, Process modelling, Integrated product development, Collaborative design, Simulation data management

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**Kongress- / Buchtitel:** Proceedings of the 21st International Conference on Engineering Design (ICED17)

**Band / Teilband:** Vol. 1: Resource-Sensitive Design

**Ausrichter der Konferenz:** Department of Mechanical Engineering at the University of British Columbia and the Design Society

**Datum der Konferenz:** 21.-25.08.2017

**Verlag / Institution:** The Design Society

**Jahr:** 2017

** Quartal:** 3. Quartal

**Jahr / Monat:** 2017-08

**Monat:** Aug

**Seiten:** 10

**Revied:** ja

**Sprache:** en

**Publikationsform:** WWW

**Hinweise:** Entwicklungsprozesse

**Semester (für SAP-Datenerfassung):** SS 17

**TUM Einrichtung:** Lehrstuhl für Produktentwicklung

**Format:** Text

**Occurences:** Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung, Konstruktionssystematik und Leichtbau (Prof. Zimmermann) > Konferenzbeiträge
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