

The s.w.an-methodology

Medical process analyses require special methods

Medical processes are characterised by their high complexity and variability. The reasons for this include: patient individuality, the treating staff, the devices and systems employed as well as the differing treatment strategies.



In order to be able to describe, analyze and optimize such complex processes clearly and unambiguously, new methods needed to be developed that would adequately address the extremely specialised requirements of medicine. Conventional methods used up to the present for process mapping and process standardisation fail however in such unstructured and individualised environments.

Precise process documentation - to the second

For the first time ever, the innovative methodology developed by SWAN – Scientific Workflow Analysis GmbH enables the precise depiction of the highly complex, unstructured and diverse processes of medicine. Aided by software, we observe and protocol your processes, for example, clinical treatment workflows or deployment of medical technological instruments.

The recordings are made live on-site by our s.w.an-trained personnel and aided by our (**s.w.an-Suite**) software, which was especially developed for the medical field. Moreover, it is possible to acquire process data automatically by means of sensors. For process data acquisition and process data analysis purposes, the s.w.an Suite is always adapted to our clients' processes or systems to be analyzed. The exactness of our recordings is variable and depends on the task definition provided by the client. If required, recordings can correspond exactly to the second.

Detailed analysis and comprehensible modelling

The work process recordings (workflows) are then prepared, formalised and analysed by us. It is thereby possible for us to compare the most varied of processes in terms of temporal, spatial or other criteria as well as being able to isolate influences irrelevant to the process. This enables our clients to understand complex interrelationships and cross connections of their processes, respectively, the usage context of their products. In combination with our extensive medical and process-relevant expertise, these detailed process models are critical in order to reveal optimisation potential to us and the client and thereafter to convert it into tangible results.

