

# ISEPAK

## INVENSITY Systems Engineering Process Assessment Kit

### Summary

The INVENSITY Systems Engineering Process Assessment Kit (ISEPAK) describes a tool used for process analysis, -assessment and optimization concerning R&D. Based on the process analysis ISEPAK can be used to discover room for potential improvement and create recommendation for actions. Furthermore ISEPAK can prioritize the recommendation based on the individual case of the company. ISEPAK is characteristic for a praxis oriented approach as a tool for audits. It's purpose is to optimize R&D process for the daily work and not only for audits.

### Background

A High quality development process can be a powerful tool for a company to be used on a challenge posed in the current market and furthermore to gain an advantage against competitors. To fully make use of the process it is necessary to not only possess a process but also integrate into the company with it's specific requirements.

The methods provided by the INVENSITY Center of Excellence Systems Engineering focus on the improvement of processes used by companies. Those methods are based on several years of experience in the field combining different companies and industrial sectors

### Approach

Usually the development process consists of several sub-processes which can be separated into the following parts: lifecycle dependent part, lifecycle independent part and organization specific part. ISEPAK deals with all process areas concerning the whole product lifecycle – starting with the concept through delivery up until maintenance.

Evaluation is done based on particular process areas which give a more detailed view on a development process. As an example a process area could be: requirements management, SW/HW implementation, verification & validation, configuration management, project risk management, etc. It contains every requirement of a particular topic, described as a collection of questions. Those questions are designed in a way that makes it possible to evaluate if a relevant practice is fulfilled. The check lists created in this process used to analyze processes show a strong connection to practical work and the long lasting experience of INVENSITY Consultants.

The final product is an easily understandable evaluation for every individual process and therefore a well thought out tool to control the following improvement activities.

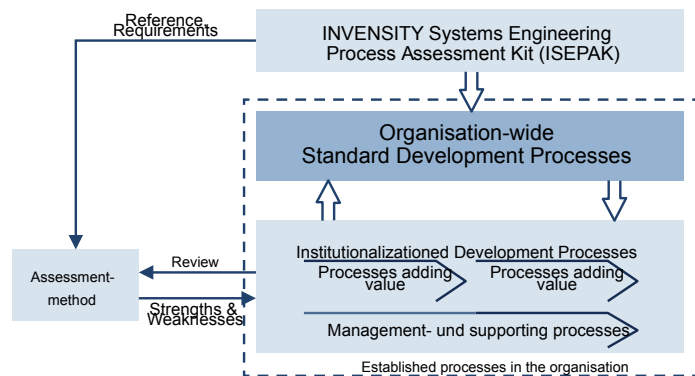
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### Results

- ISEPAK considers all process areas which cover the whole product lifecycle
- Checklists created for the analysis of processes are highly practical and based on long lasting INVENSITY Consultant experience
- Developed course of actions are tailored to the individual requirements of your company
- Through reapplying the checklist on the process after the improvement activities it is possible to track the actual progress done



### References

The INVENSITY Center of Excellence Systems Engineering is an active member in “Gesellschaft für Systems Engineering” (GfSE) and International Council of Systems Engineering (INCOSE) and therefore always up to date concerning interdisciplinary developments, current approach and methods. INVENSITY Systems Engineering Process Assessment Kit was developed through our experienced consultants. It is based on long lasting field experience and it was successful implemented for customers.

### INVENSITYs Range of Products

- Executing a process analysis and –assessment  
Together with you we will conduct an analysis of your currently used processes and assess those. Using those information a recommended set of actions is created and discussed with you in order to tailor it to your priorities
- Optimizing processes  
Based on the analysis, developed course of action and the follow up prioritizing our employees together with your employees will optimize current processes
- Training of employees concerning development processes  
Our internal INVENSITY Academy offers a broad spectrum of trainings for specific process areas but also basic process management

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