

# ISEStEP

## INVENSITY Systems Engineering Standard Evolution Process

### Summary

Companies are crippled by inefficient development processes. Often the rough process in a company is defined but contains missing links between the particular processes and the transition from rough to fine process. Consequently mistakes will pop up or even be completely ignored in the implementation. This results in poor quality and high cost due to inefficiency.

The INVENSITY Systems Engineering Standard Development Process (ISEStEP) is a tool for companies to improve their development process in regards to efficiency. ISEStEP including it's connection is a highly application oriented development process. Through those connection it is possible for a company to define a process solution in a timely manner. The main advantage of ISEStEP is the highly application oriented approach and the used expertise gained from various process consulting projects in various major enterprises.

### 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

Enterprises define processes based on requirements dictated by various norms which have to be implemented in said processes. In general it is not possible to directly implement those requirements into process descriptions since it is mandatory to respect the internal enterprise processes. Furthermore the requirements are defined coarsely making the result clear but the way for the solution (the process) unclear. For those situation ISEStEP is used. The generic development process can be used as a basis for a discussion to define a process for the enterprise. Using ISEStEP it is possible to analyze the connection / interfaces between the different process areas. Moreover it includes references to the most important norms and standards, e.g. ISO/IEC 15504/5, CMMI, IEC 61508, V-Model XT, etc. This causes the development process for an enterprise tailored process to be more simple since the norm dependencies are already clearly shown. Combined with the extensive amount of example documents and specific templates the generation of results can be achieved in a timely manner. Due to basing ISEStEP on the most common norms and standards the follow up analysis concerning the compliance is easily achieved.

Through year long in field experience in different fields ISEStEP evolved into a generic, practical model.

The result is a comprehensible and fast way to define a process and therefore a development process which has the ability to be tailored for enterprise specific requirements as well as required norms.

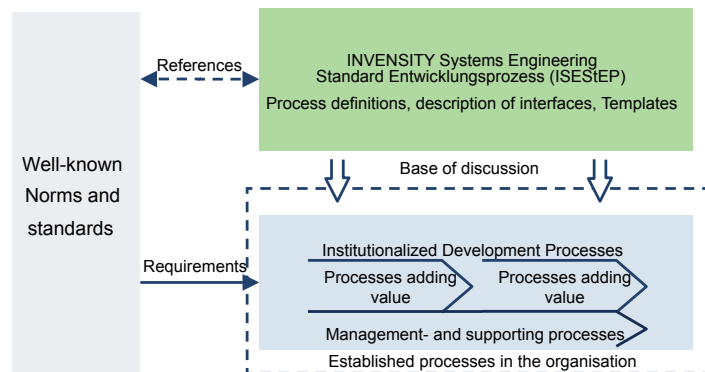
*innovation made by talents*

# ISEStEP

## INVENSITY Systems Engineering Standard dEvelopment Process

### Results

- ISEStEP covers all process areas in a product lifecycle
- Generic processes based on practical long lasting consultant experience
- Processes descriptions defined with the help of ISEStEP are tailored to the needs of the enterprise
- Through continuously referencing norms it is possible to cover the different requirements posed by process areas. Therefore the cost for development sinks and the quality increases



### 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 Standard Development Process 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 (based on ISEPAK)  
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 discusses with you in order to tailor it to your priorities
- Optimizing processes (based on ISEStEP)  
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

#### Contact

Jan Zutter  
Head of Center of Excellence Systems Engineering  
jan.zutter@invensity.com

*Innovation made by talents*