

# Requirements Handbook Companion

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## 1. Disclaimer



Work in progress!

Here is a list of warnings:

- This work is in progress and subject to constant improvements, so pay attention to dates and versions.
- If you read the PDF version of this material on a browser, the links might not be clickable. Download it instead in your machine and open it with a PDF viewer. The links should be clickable there.

## 2. Context

This repository constitutes the companion of the book: [Handbook of requirements and business analysis](#). It serves as the basis for the future Handbook's site: <http://requirements-handbook.org/>

## 3. Overview of the method



Work in progress!

This chapter is an overview of **PEGS**. Its aims at making this companion book self-content. We highly recommend, for more details and a full description of the subtleties of **PEGS**, to read the corresponding



Figure 1. The *PEGS* logo

## 3.1. Overall structure

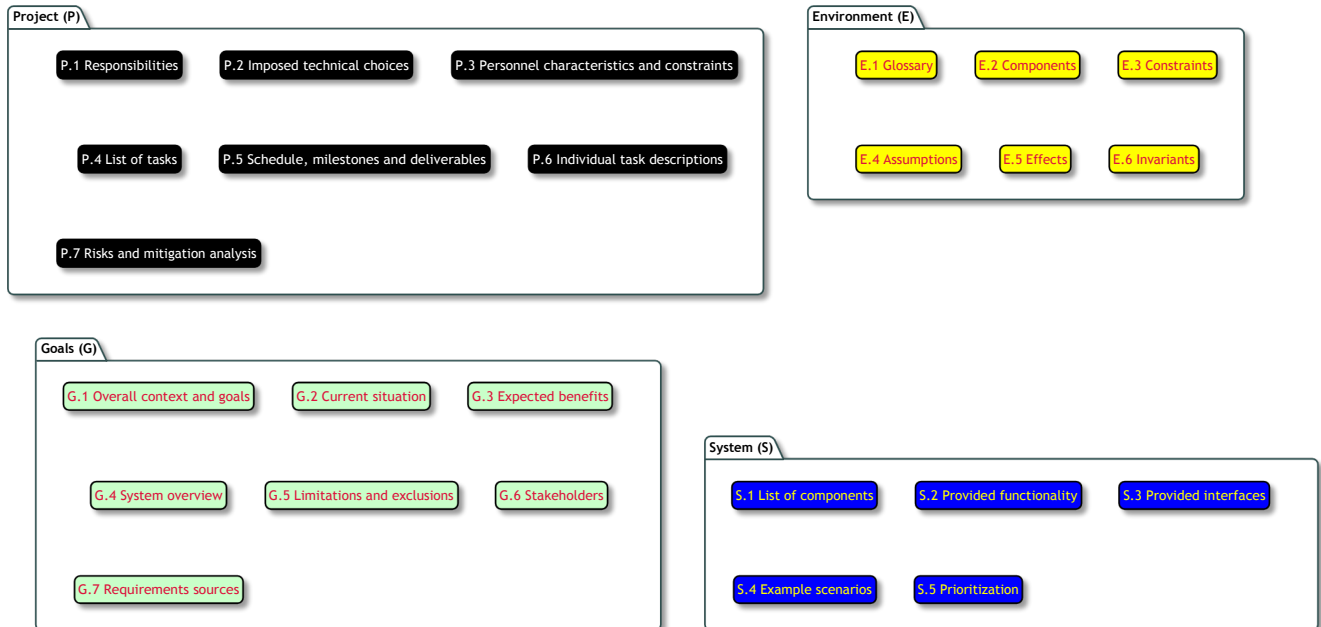


Figure 2. The four books of requirements

## 3.2. Links between the four PEGS

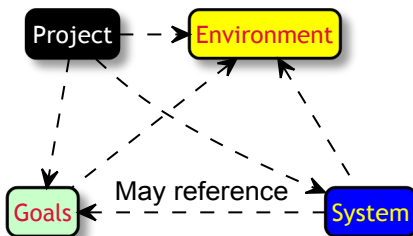


Figure 3. Reference links

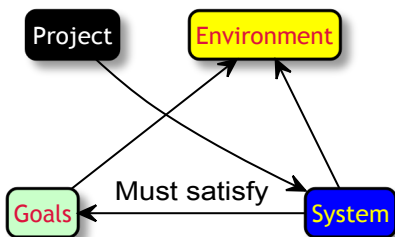


Figure 4. Verification obligations

### 3.3. The lifecycle model

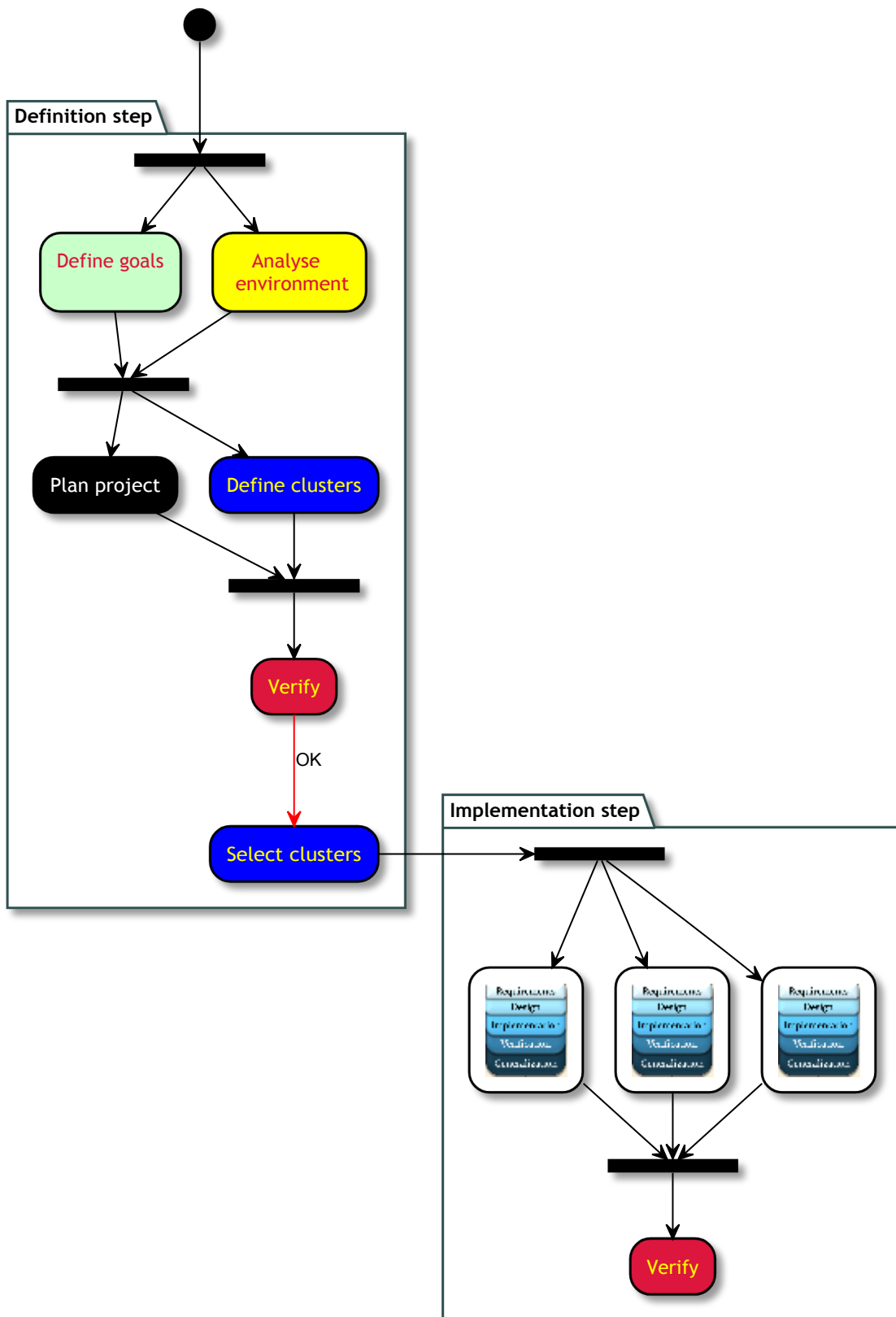


Figure 5. The lifecycle model

## 4. Case studies

We illustrate the use of **PEGS** through the following case studies:



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1. The Roborace
2. A more information-system-oriented example
3. This Companion Book

## 5. Book templates

We provide a set of Book templates in this companion web site to help you apply **PEGS** and organize your requirements. Here is the list of the available templates (feel free to [contribute](#) by submitting additional templates):



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1. DOCX
2. LaTeX
3. [GitHub](#)

## Appendices

### Appendix A: Useful links

- The draft of the Method Book: [PDF](#)
- The draft of the Companion Book: [Google Doc](#)

### Appendix B: Specific implementations

Here is a list of potential mappings between the **PEGS**:

#### SysML

- Each **PEGS** could be a package
- Requirements could be stereotyped (e.g., [\[Goals\]](#) or [\[System\]](#))

#### FORM-L

- M. Thuy could be interested in providing a template for the **PEGS** in Form-L

#### RSML

- Florian could integrate the **PEGS** in the editor

### Appendix C: Checks results and issues

# URLs

Checking URLs result (last update: 2021-01-22):

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FILE: README.adoc

[✓] [http://se.ethz.ch/~meyer/down/requirements\\_handbook/REQUIREMENTS.pdf](http://se.ethz.ch/~meyer/down/requirements_handbook/REQUIREMENTS.pdf)  
[~] <http://requirements-handbook.org/>  
[✓] [https://docs.google.com/document/d/1HrWCRzyW\\_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing](https://docs.google.com/document/d/1HrWCRzyW_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing)  
[✓] <https://github.com/FormalRequirements/requirements-handbook>  
[✓] <https://FormalRequirements.github.io/requirements-handbook>  
[~] <https://github.com/FormalRequirements/requirements-handbook/workflows/Check%20Markdown%20links/badge.svg>  
[✓] <https://github.com/FormalRequirements/requirements-handbook/actions>  
[✓] <https://img.shields.io/badge/License-MIT-yellow.svg>  
[✓] <https://opensource.org/licenses/MIT>  
[✓] <https://img.shields.io/badge/Gitpod-ready--to--code-blue?logo=gitpod>  
[✓] <https://gitpod.io/#https://github.com/FormalRequirements/requirements-handbook>  
[✓] <https://img.shields.io/badge/PDF-Download-blue>  
[✓] <https://github.com/FormalRequirements/requirements-handbook/blob/main/README.pdf>

FILE: githubImpl.adoc

[✓] [http://se.ethz.ch/~meyer/down/requirements\\_handbook/REQUIREMENTS.pdf](http://se.ethz.ch/~meyer/down/requirements_handbook/REQUIREMENTS.pdf)  
[~] <http://requirements-handbook.org/>  
[✓] [https://docs.google.com/document/d/1HrWCRzyW\\_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing](https://docs.google.com/document/d/1HrWCRzyW_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing)  
[✓] <https://github.com>

FILE: overview.adoc

[✓] [http://se.ethz.ch/~meyer/down/requirements\\_handbook/REQUIREMENTS.pdf](http://se.ethz.ch/~meyer/down/requirements_handbook/REQUIREMENTS.pdf)  
[~] <http://requirements-handbook.org/>  
[✓] [https://docs.google.com/document/d/1HrWCRzyW\\_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing](https://docs.google.com/document/d/1HrWCRzyW_iTf1QXFFzEoDvvc66IzMCDb3uXGS5GRWz8/edit?usp=sharing)