

# 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 [handbook](#).



Figure 1. The *PEGS* logo

### 3.1. Overall structure

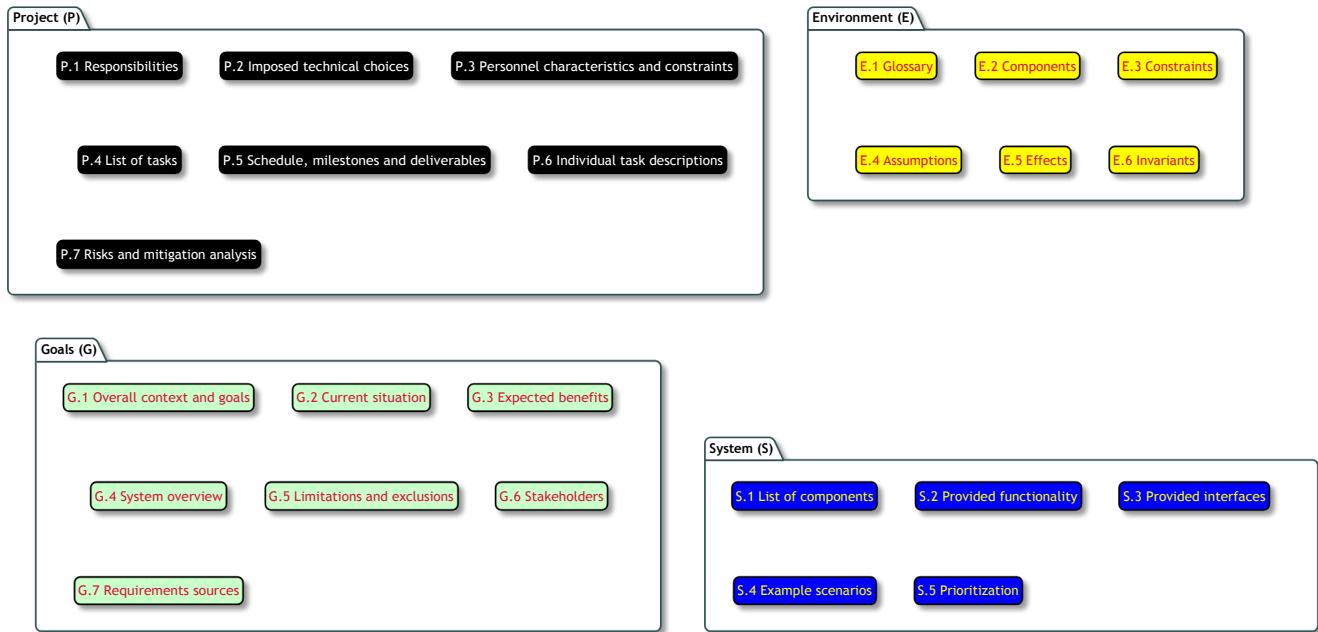


Figure 2. The four books of requirements

### 3.2. Links between the four PEGS

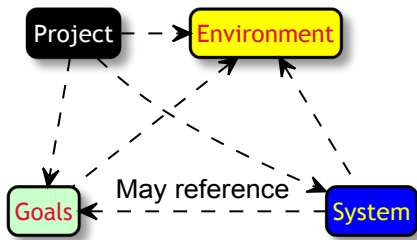


Figure 3. Reference links

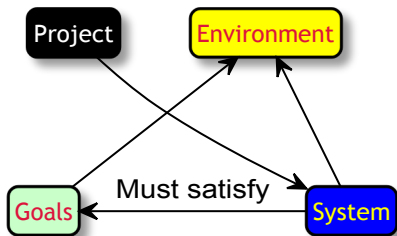


Figure 4. Verification obligations

### 3.3. The lifecycle model

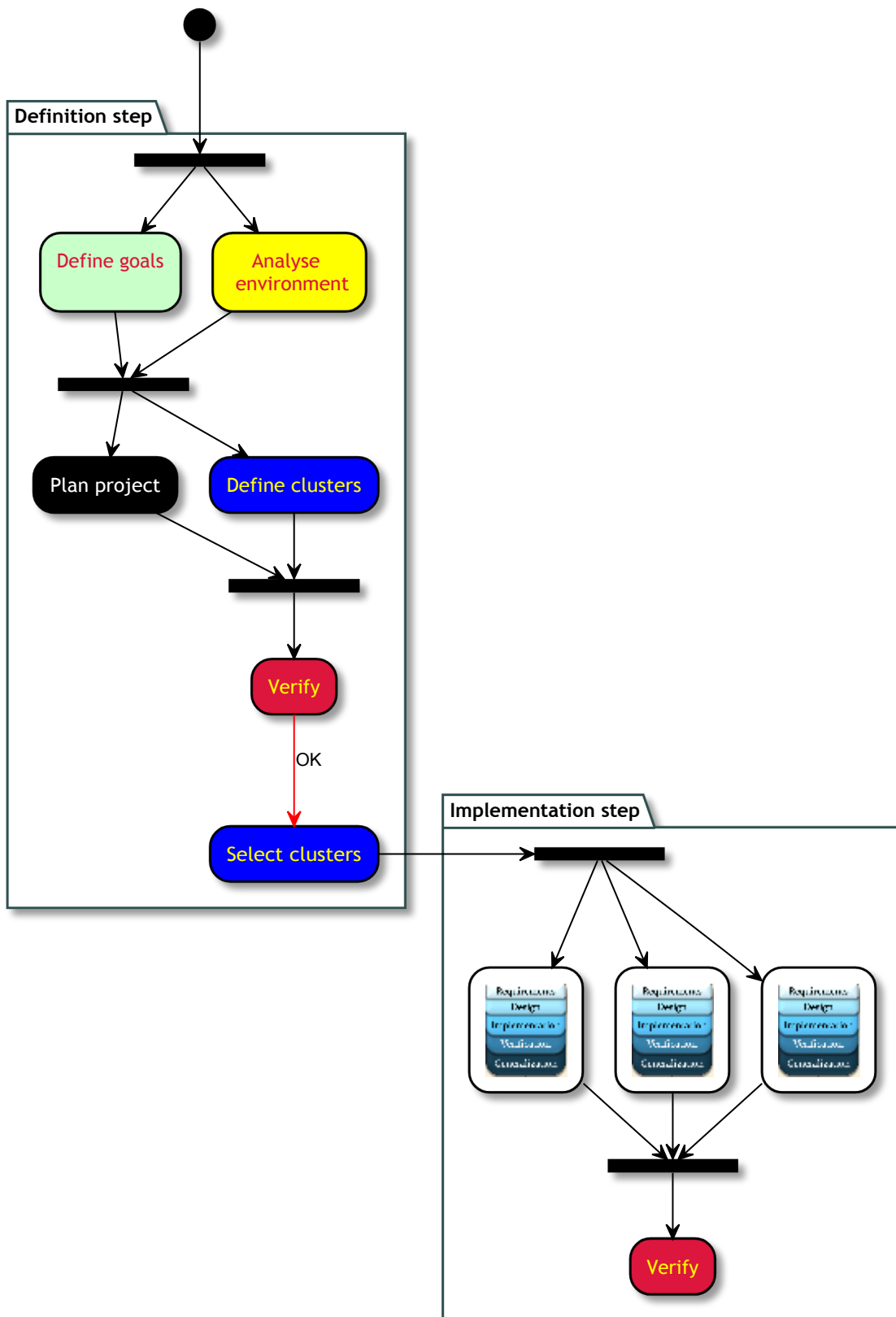


Figure 5. The lifecycle model

## 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. Google Doc (see [this example](#) for now)
3. LaTeX (see [IEEE example](#))
4. [GitHub](#)

## References

- Sommerville & Sawyer
- Axel van Lamsweerde
- Klaus Pohl

## 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: 2021-01-27):*

Mer 27 jan 2021 18:19:12 CET

FILE: README.adoc

```
[✓] 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://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
[✓] https://laptrinhx.com/a-latex-template-for-a-software-requirements-specification-that-respects-the-ieee-standards-3457260700/
```

FILE: githubImpl.adoc

```
[✓] 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://github.com
```

FILE: overview.adoc

```
[✓] 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
```