

# 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.

Conventions for this book:

*Table 1. Icons signification*

Icon	Signification
✓	A precisely referenced requirement this section is satisfying
✎	A precisely referenced requirement this section is related to
✗	No corresponding requirement for this section (should be fixed)

## 2. Context

This repository constitutes the companion of the book: [Handbook of requirements and business analysis](http://requirements-handbook.org/). 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

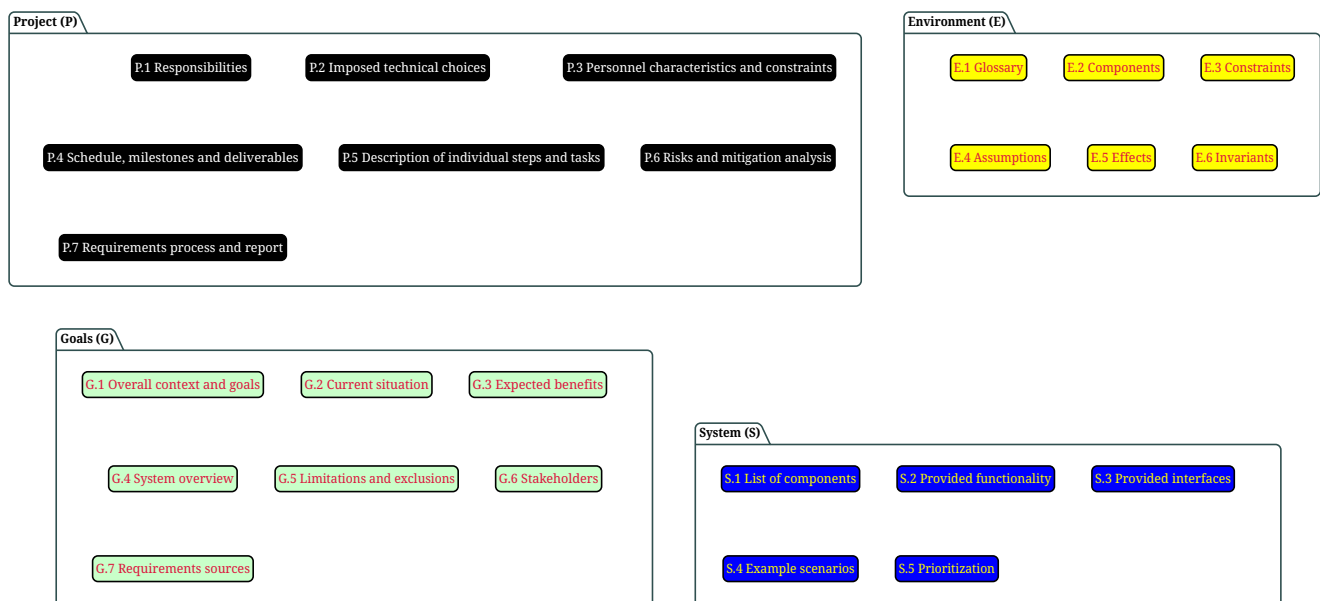


Figure 2. The four books of requirements

### 3.2. Links between the four PEGS

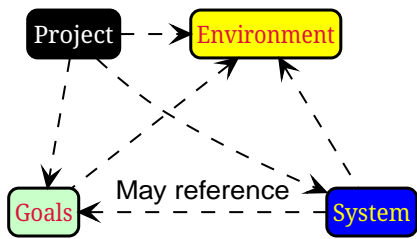


Figure 3. Reference links

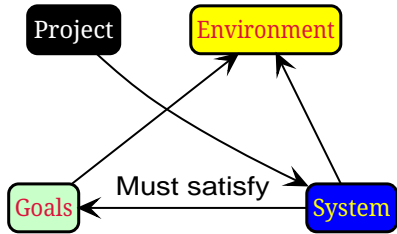


Figure 4. Verification obligations

### 3.3. The lifecycle model

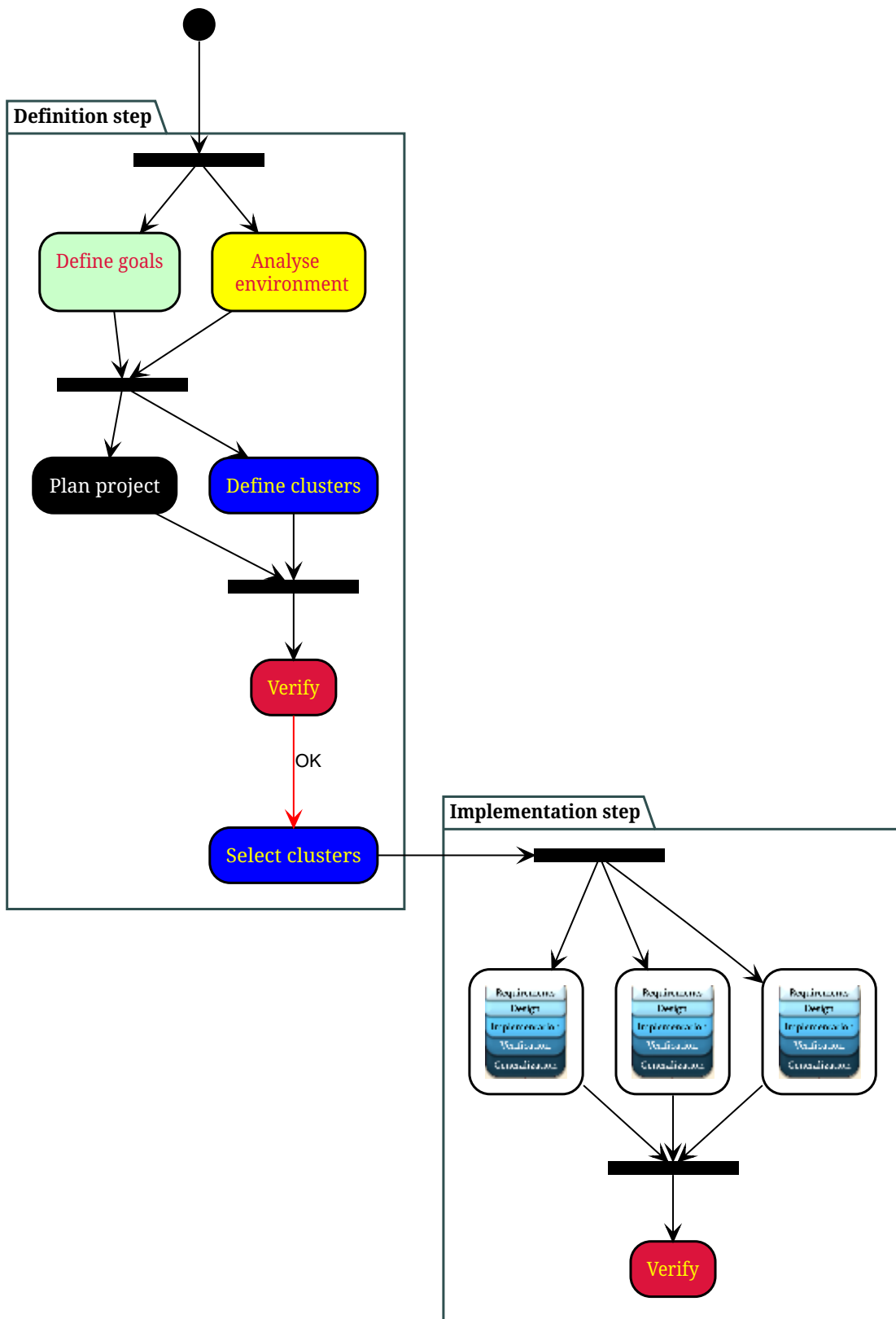


Figure 5. The lifecycle model

## 4. Case studies

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



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1. The Roborace (see the dedicated repo [here](#))
2. A more information-system-oriented example (one option is this [library](#) example)
3. This Companion Book' requirements (see the dedicated repo [here](#))

## 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](#)

☑ *Corresponding Requirement*

This section satisfies [this requirement](#).

## 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**

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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://formalrequirements.github.io/companionRequirements>

[ ] <https://gist.github.com/rxaviers/7360908>

[ ] <https://github.com/FormalRequirements/requirements-handbook/workflows/Check%20URLs/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://github.com/FormalRequirements/roboraceRequirements>

[ ] <https://github.com/ddd-by-examples/library?ref=hackernoon.com#domain-description>

[ ] <https://github.com/FormalRequirements/companionRequirements>

[ ] <https://github.com/jpeisenbarth/SRS-TeX>

19 links checked.

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>

4 links checked.

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)

3 links checked.