

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

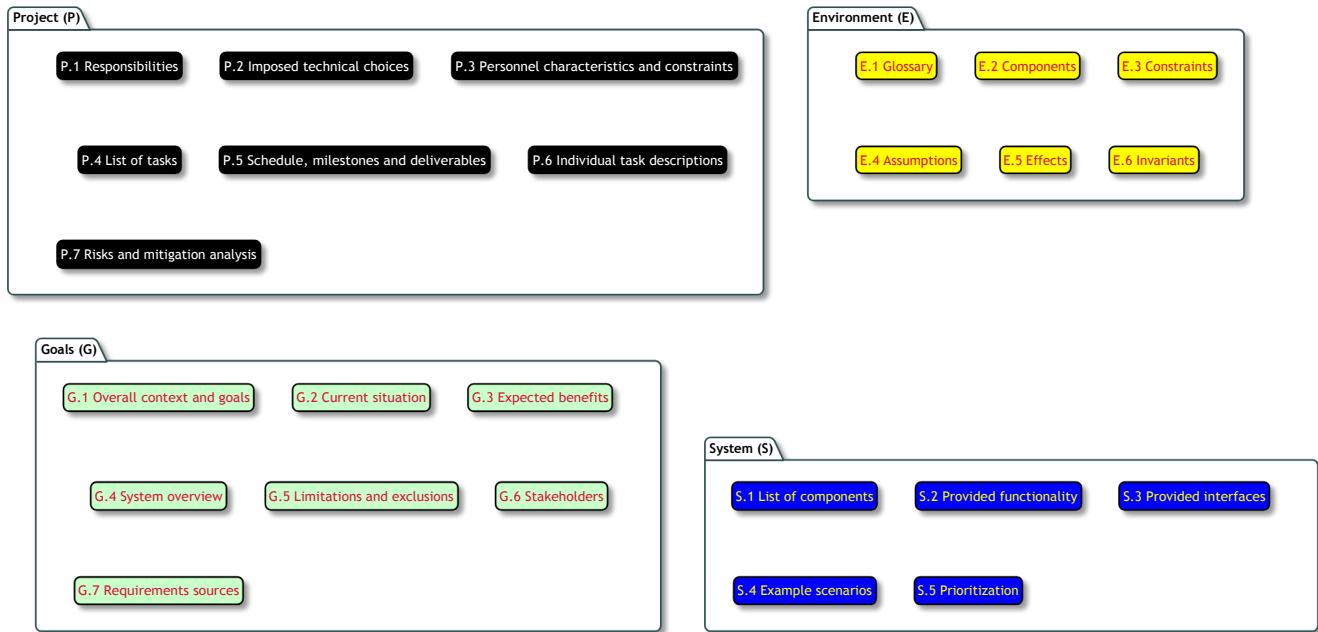


Figure 2. The four books of requirements

3.2. Links between the four PEGS

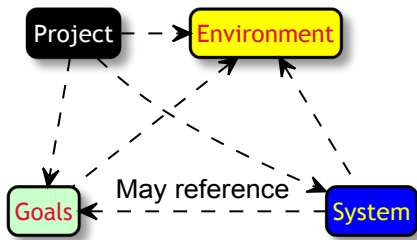


Figure 3. Reference links

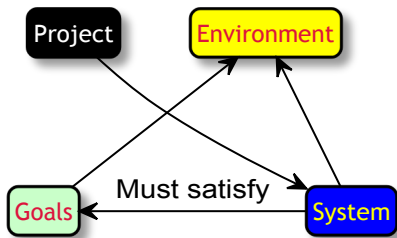


Figure 4. Verification obligations

3.3. The lifecycle model

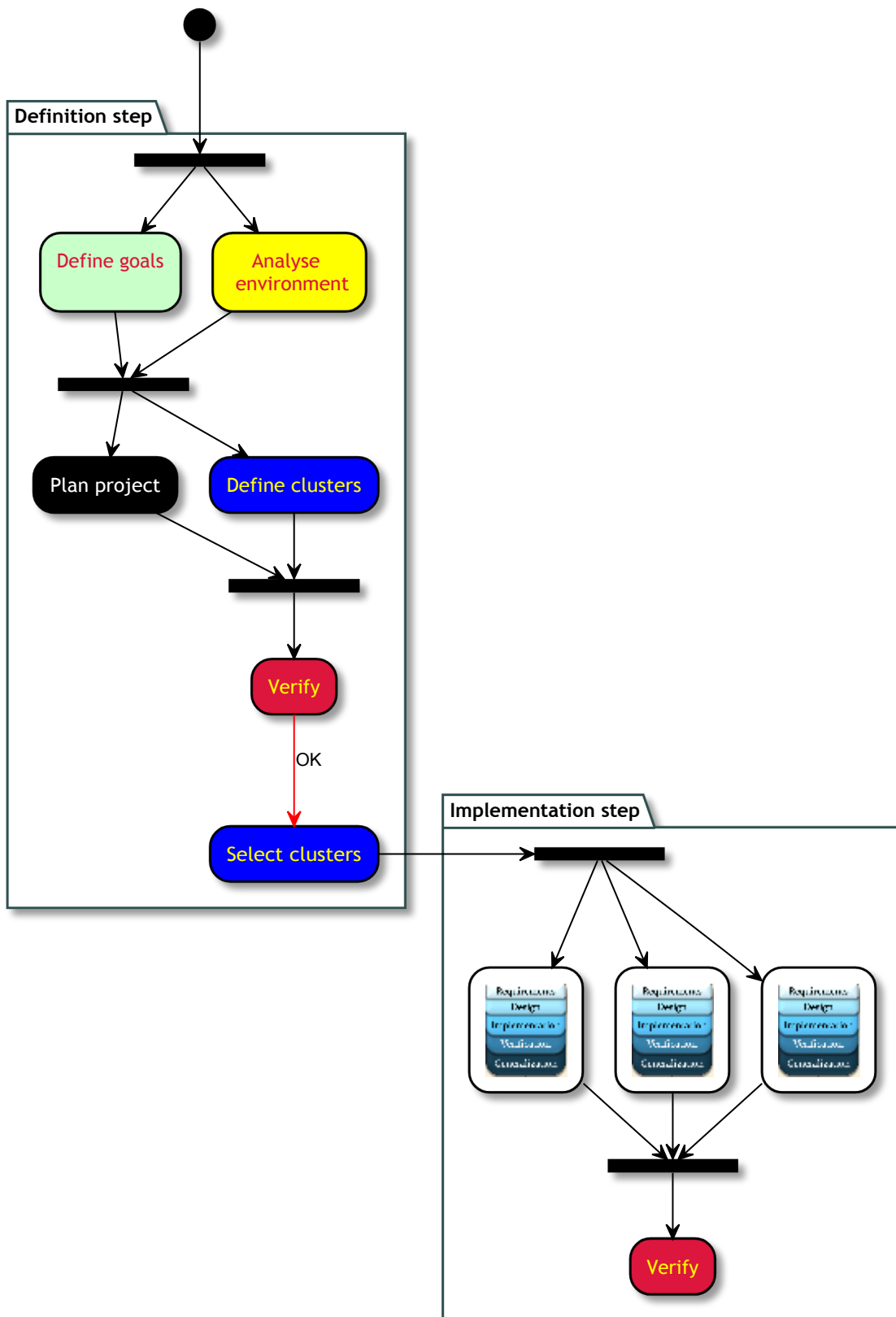


Figure 5. The lifecycle model

4. Case studies

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



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1. The Roborace (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):



Work in progress

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: 2021-02-05):

Ven 5 fév 2021 17:46:15 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://github.com/FormalRequirements/roboraceRequirements
[✓] https://github.com/ddd-by-examples/library?ref=hackernoon.com#domain-description
[✓] https://github.com/FormalRequirements/companionRequirements
[✓] 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
```