
PropGen Documentation

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CONTENTS

1	Why this tool?	3
2	Installation	5
2.1	Quick and dirty	5
2.2	Usage scenarios	5
2.3	Actual installation	6
2.4	Setting up the MoinMoin Wiki included in distribution	7
2.5	Setting up wiki in settings.cfg	8
3	How to use PropGen, what to put on Wiki, building a PDF file	11
3.1	The main project page	11
3.2	A generic text page	13
3.3	A workpackage page	14
3.4	Recognized Wiki markup	18
3.5	Building a PDF file	19
4	How to customize PropGren	21
4.1	Simple customization	21
4.2	Customize LaTeX templates	21
4.3	Complex customization	21
5	Directory layout and major files	23
5.1	Directory structure	23
5.2	Relevant files	24
6	Open Issues	25
6.1	Known bugs	25
6.2	Things still to do (TODO)	25
6.3	Debatable aspects	25
6.4	Ideas for future features	25
7	Source code documentation	27
7.1	pullproject	28
7.2	wikiParser	29
7.3	latexFromWiki	30
7.4	latexFromXML	30
7.5	latexFromXML - key/value pairs used in global variables	30
7.6	settings	36
7.7	ensureSymbolicLinks	36
7.8	utils	37
7.9	settings.cfg	37
7.10	latexTemplates.cfg	44
7.11	Makefile	57
7.12	main.tex	58

8 Indices and tables	67
Python Module Index	69
Index	71

Contents:

WHY THIS TOOL?

Writing an application for a research project is a challenging task: good ideas are needed, background research checks, a research hypothesis and a research program have to be formulated. When applying for a larger project, this is typically done by a group of people, coming from different organizations. A lot of work goes into the creative process - the mere act of writing the proposal, collecting information about the program structure, putting it in Gantt charts and tables of deliverables etc. should get out of the way!

Anybody who has tried to write a proposal for one of the European Union's Framework Programs knows that it can be a cumbersome process. The EU provides a relatively strict template which information to provide: information about work packages, tasks, deliverables, milestones, Gantt charts, etc. Much of this information is repeated at several places in the document, in various forms of presentation (tables, charts, free text). Merely keeping this information in synch can be a formidable challenge, in particular, when several people work on a proposal. To make matters worse, the EU only provides an MS Word template (and not a particularly well done one, either). There is no support to get all the administrative work out of the way.

This was the very situation we were in when we developed a proposal for a reasonably large EU proposal (an integrated project with about 15 partners). Instead of going down the Word-road, we decided to put all the information on a Wiki and to generate the actual proposal from there, using LaTeX to typeset the actual document and generating all the administrative information automatically. This has three main advantages:

- Wikis are easy to use even for novel users who are not used to using version control systems for collaborative work (let alone trying to distribute these files via email). Wikis naturally split up text in separate sections, circumventing the often problematic features of word processors to split up a document in smaller files.
- All the administrative information only needs to be entered ONCE. All possible presentations are automatically generated. They are guaranteed to stay synchronized. There is no time wasted for such work. Even non-trivial operations can be done until late in the proposal preparation without any risk (e.g., we decided to move a deliverable around a few hours before proposal submission - that would have been impossible with conventional tools).
- Wikis allow us to concentrate on the content, on our research ideas. We do not have to waste time fighting with a word processor.

To give one example: a task description for a workpackage looks as described in the figure in a moinmoin wiki. This then gets translated automatically into a Gantt chart for the workpackage (and into a Gantt chart for the project as a whole, and in tables, and in ...).

Tasks

Label	Start	Duration	Name	Lead partner
architectureDesign	1	3	Architecture Design	UE
archImprovement	4	2	Improvement of the Architecture	ABC
archImprovement	8	2	Improvement of the Architecture	ABC
archImprovement	12	2	Improvement of the Architecture	ABC
archFalsify	10	10	Falsification of the proposed Architecture	ISC

Figure 1.1: Example of a Wiki page, specifying several tasks for a workpackage (the architecture improvement task even has three phases).

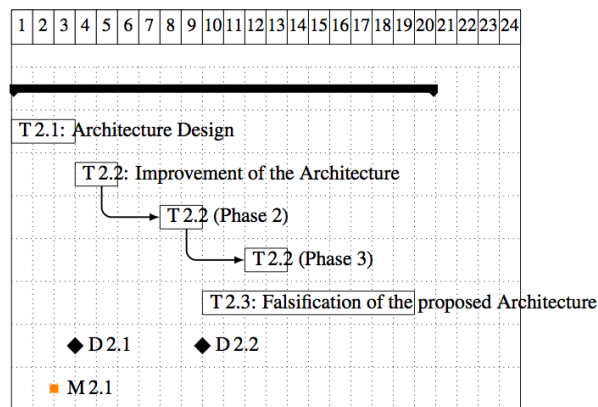


Figure 1.2: Resulting Gantt chart from the example task table (deliverable and milestones shown in this Gantt chart are defined in other Wiki tables)

Hence, the approach to go from a wiki to latex to PDF, and to submit this PDF file, has worked out nicely. It has produced a workflow that was reasonably easy for everybody, with full version control support without less IT-savvy users needing to worry about it.

We felt that such a tool might be beneficial for a wider audience. So here it is - feel free to use it, to modify it, and to write interesting proposals using it. Our hope is that it will free up time from the mundane and boring tasks and enable all of us to concentrate more on the creative aspects of research.

Holger Karl

PS: When I write “we”, I refer to the team of colleagues engaged in the writing of said initial integrated research proposal. In particular, Bengt Ahlgren, Dirk Kutscher and Börje Ohlman deserve my thanks and gratitude for bearing through the rough-shot development of the initial version of this tool. I am indebted to them for constructive criticisms, ideas, and encouragement.

INSTALLATION

2.1 Quick and dirty

The fastest possible way to get everything set up and produce a proposal PDF, assuming you have latex and python set up:

```
$ cd ~/tmp
$ wget --no-check-certificate https://github.com/hkarl/propgen/zipball/master --output-document=p
$ unzip propgen.zip
$ cd hkarl-propgen-7d7fd2d/
$ cd moin
$ python wikiserver.py &
$ cd ..
$ make
```

Note: the directory name of hkarl-propgen-XXXX will depend on the fingerprint of the current version in github. It will vary.

That will leave TestProject.pdf in the current directory. Use your webbrowser to go to <http://127.0.0.1:8080/TestProject>, make some changes to this page or to the Wiki pages linked from there, save the changes. Type make again in the shell. Gives an updated PDF file.

2.2 Usage scenarios

2.2.1 External Wiki

A typical usage scenario of this PropGen tool is the following:

- A proposal is to be prepared by a group of people.
- One of them runs the wiki, or an external Wiki provider is used
- Several people install the PropGen tool (ignoring the built-in Wiki) and can then built the PDF file for the proposal.
- Not everybody needs to install PropGen. Ideally, a version control system like SVN is integrated and whoever generates a new PDF file commits it to this version control system. Then, everybody has access to reasonably up-to-date versions.

This scenario is fairly straightforward to set up. I assume here that you have your external Wiki set up and know how to administer it.

2.2.2 Built-in Wiki

An alternative is to use the MoinMoin Wiki included in the PropGen distribution. Then, one partner has to run this wiki. Ideally and typically, the same machine is then able to run PropGen and to generate the proposal PDF.

This can conveniently be triggered via a crontab (e.g., do an hourly build) and the result can be put into a version control system similar to above.

If other partners want to setup PropGen as well to locally generate the PDF, that is no problem at all.

Advantage of this approach is that the generation scripts can directly talk to the wiki and there is no need to go over the network to pull the wiki files. This is substantially more reliable, faster, and easier to setup (in particular, if there are firewalls or proxies in place, which can be real trouble). The disadvantage is that often, a Wiki is already in place, people have their accounts on it, are accustomed to its syntax and quirks, it can have powerful features not present in the provided MoinMoin installation (e.g, Twiki has a very useful butracker that can be very beneficial during proposal writing). The choice is yours!

2.2.3 Integrating a version control system

As outlined above, it can be extremely useful to integrate a version control system like SVN. I would recommend to limit this to the latex directory, only committing files in this directory.

Nothing is done automatically here since the variety of VCS systems is large. But it should be a simple exercise to integrate corresponding commit commands in the Makefile.

However, some care has to be taken in that symbolic links from the LaTeX directory to the “generated” directory are used. The reason is that it can be convenient, towards the end of a proposal preparation process, to stop pulling some parts of a proposal from the Wiki and to rather work on the LaTeX files directly. This allows better fine-tuning then working via the Wiki. The process is simple: replace the symbolic link by the actual file. Then, this file is used and it is not touched by the generation process.

2.3 Actual installation

2.3.1 Prerequisites

You need the following software installed:

Python You will need Python version 2.7.2 or later. Python 3 is known not to work at this time, Python 2.6 is too old.

Mechanize If you want to pull in Wiki files over the network (e.g., from a remote Twiki), then you need the python mechanize module installed. Details can be found on the [Mechanize webpage](http://wwwsearch.sourceforge.net/mechanize/) (<http://wwwsearch.sourceforge.net/mechanize/>).

Tex An up-to-date LaTeX installation. TexLive 2011 was used for development. Non-standard packages or packages which needed patches are provided in the distribution.

Make There is a simple makefile in place. It is not absolutely needed and could quite easily be replaced by shell scripts or batch files.

Bash The makefile uses some simple loop and test constructs of bash. (See the clean target, e.g.) It should not be difficult to do without or provide a version for another shell.

Operation system Development and testing took place on Mac OSX Snow Leopard. Normal Linux distributions should pose no problems at all. Installation on Window is likely to be problematic because of symbolic links, and makefiles, bash etc. is likely to require at least cygwin - but I have very little clue of Windows and dare not make any statements here. Your mileage might vary.

Sphinx If you should want to generate the documentation for the reStructuredText markup (I have no idea why you would want to do that), you will also need [Sphinx](http://sphinx.pocoo.org/) (<http://sphinx.pocoo.org/>) , at least version 1.1.2. In particular, you will also need the afigure extension (see <http://packages.python.org/sphinxcontrib-afigure/>) to be installed and added to conf.py; afigure also needs a dependency repotlab.

2.3.2 Installation

- Download the PropGen package and unpack to a folder of your choice.
 - From github:
 - * Main page: <https://github.com/hkarl/propgen>
 - * GIT Read-Only: [git://github.com/hkarl/propgen.git](https://github.com/hkarl/propgen.git)
 - * ZIP file: <https://github.com/hkarl/propgen/zipball/master>
 - Other sources still to come (possibly even a virtual machine)
- Decide which Wiki to use and set it up correctly.
 - Internal wiki: See *Setting up the MoinMoin Wiki included in distribution*
 - For both internal and external wiki: simply add information to settings.cfg (see *Setting up wiki in settings.cfg*)
- Add the templates to an external Wiki
 - Example templates for MoinMoin and Twiki are included in the templates folder. Ignore the directories; they are just to group the wiki files a bit. Each file becomes one Wiki page with the corresponding filename.
 - This step is not necessary when using the internal Wiki; it is pre-populated with an example pseudo project which should be easy to modify.
 - It might make sense to rename the “TestProject” page to some more specific for your project. (Then, remember to also rename the corresponding entry in settings.cfg.)
- Once you have setup Wiki access and the Wiki is running, try to generate a PDF file. cd into the main propgen directory and type make.

2.4 Setting up the MoinMoin Wiki included in distribution

If you want to use an external wiki (e.g., an existing Twiki), you can skip this section.

For more details, check the documentation of the MoinMoin Wiki.

2.4.1 Preconfigured account

The distributed version of MoinMoin is setup to support accounts, require login to edit or download material, and to deny anonymous access.

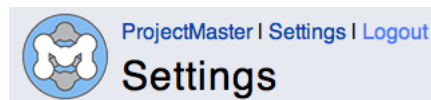
It has a preconfigured account ProjectMaster with password 123abc. This account ProjectMaster is configured as a superuser in MoinMoin. Check the lines

```
acl_rights_default = u"ProjectMaster:read,write,delete,revert,admin Known:read,write,revert,delete"
```

and

```
superuser = [u"ProjectMaster"]
```

in the file moin/wikiconfig.py. It gives admin rights to the ProjectMaster account, and usual read, write, revert, delete rights to all other known accounts.



2.4.2 Change password

Obviously, you really, really want to change the password of this superuser. Log in as the user for which you want to change password, go to “Settings” (link on the very top of the page, to the left), then click “Change password”.

Or go directly to <http://127.0.0.1:8080/ProjectMaster?action=userprefs&sub=changepass> (and replace “Project-Master” by the account name for which you want to change the password, of course).

2.4.3 Adding accounts

You could stick to the preconfigured account and distribute this account name and password to all members of your team. However, then it will not be possible to track who did which changes.

Hence, it is usually preferable to assign a dedicated username/password to each team member.

To add a user, you need to login as the superuser ProjectMaster. Go to the Wiki page NewUser (e.g., if you run it locally on the default port, goto <http://127.0.0.1:8080/NewUser>), and create as many users as you like.

2.4.4 Rename the main project page

In case you want a different main page name, simply use the “Rename page” action of the Wiki. Remember to rename the corresponding setting (projectName) in settings.cfg as well!

2.4.5 Run the MoinMoin Wiki

Simple:

```
$ cd moin
$ python wikiserver.py &
```

You might want to start this as a daemon, possibly start automatically after reboot. Consult your own operating system how to do that.

2.5 Setting up wiki in settings.cfg

The file settings.cfg contains both basic configurations to ensure that the download script talks to the right wiki server as well as basic configuration options about what kind of information to generate. The latter content-customization options are described elsewhere (Section *settings.cfg*). Here, we concentrate on basic connectivity settings.

2.5.1 Wiki

Set up the necessary information to access the wiki: which type, where can it be found, what is the start page, which account and password to use to log in.

projectName

This option specifies the root Wiki page where the main project information can be found. It also serves as the filename of the file pdf file.

Default: TestProject

wikitype

The wikitype setting selects which type of wiki access is to be used. Wikitypes currently supported are: twiki, moinmoin and moinmoin-local

Option 1: wikitype = moinmoin-local This option specifies that the a moinmoin wiki can be accessed in the same file system where the generation system executes. This option requires to specify the moinmoinpath option as well. No user and password need to be given, but the files must be accessible for reading.

Option 2: moinmoin

A moinmoin wiki is used, to be access remotely, using the mechanize library. To this end, both the wikiuser and wikipassword option need to be specified; they are used for login. Also, the baseURL option needs to be specified: it provides a URL where the wiki can be accessed, without any concrete page name. Example:

baseURL = <http://hk-vm.cs.uni-paderborn.de:8080/>

Option 3: twiki

It needs the same options as moinmoin. The difference is that the obtained files are parsed assuming the twiki syntax. The distribution's configuration file assumes a moinmoin-local

Default: moinmoin-local

moinmoinpath

Specify the moinmoin path in the standard PropGen distribution

Default: ../moin/

baseURL

For remote access to a wiki. It is ignored for the moinmoin-local wikitype and only used for other wikitypes.

Default: <http://hk-vm.cs.uni-paderborn.de:8080/>

wikiuser

The wikiuser account name to use to log in. Ignored in the moinmoin-local wikitype. The default corresponds to the account name preset in the distribution's moinmoin wiki. Change this option to reflect your own user name.

Default: ProjectMaster

wikipassword

Password used to log in. The default is the one used in the distribution's example moinmoin wiki. It is ignored in the moinmoin-local wikitype and only needed for remote access.

Default: 123abc

loginURL

Some remote wikis usually need a special login URL, e.g., Twiki wikis. Specify here. This setting is ignored in both the moinmoin-local wikitype (where no login is needed at all) and in the moinmoin wikitype (were the login URL is constructed directly from the baseURL and no separate URL is needed).

Default: <https://twiki.sics.se/bin/login>

httpProxyIP

For remote Wiki access through a proxy: These variables are used by the mechanize module, for access via an HTTP or HTTPS proxy. You can specify the proxy's IP, port number, and user and password, if needed. You can do that separately for HTTP and HTTPS access. But this does not always works out well. Also, this functionality is not well tested. Your mileage WILL vary! All the defaults are just empty.

Default:

httpProxyport

Default:

httpProxyuser

Default:

httpProxypassword

Default:

httpsProxyIP

Default:

httpsProxyport

Default:

httpsProxyuser

Default:

httpsProxypassword

Default:

HOW TO USE PROPGEN, WHAT TO PUT ON WIKI, BUILDING A PDF FILE

This section describes how to work with the Wiki to enter actual project information. There are three main types of pages: the main project page, a generic text page to hold free text, and the structured work package pages that contain specific information about tasks in a work package, effort distribution, deliverables and milestones, as well as text describing the actual work to be done in a work package.

3.1 The main project page

The main project page (the Wiki page which you configured under `projectName` in `settings.cfg`) collects the general information about the project and it links to further details providing detailed information. Only pages linked from this page are considered in building the proposal text.

It has four sections: Proposal structure, main data, workpackages, and partner data, described next. It is **important** to keep the structure of this page fixed, else it will not be possible to find relevant information. Sections are recognized by their headings; feel free to move around such sections on the page but do **not** change heading titles or the structure of the individual sections.

3.1.1 Proposal structure

This section has a bullet list, each just having the name of a Wiki page. Each of these Wiki pages will get downloaded from the Wiki and turned into LaTeX code; each such file is treated as a generic text page (see below for details). The file name of these LaTeX files will be the same as the Wiki name. The `main.tex` file can then include these files.

The order of the bullets in this list does not matter. The example setup has all the usual sections of a typical EU FP7 proposal and the example `main.tex` file is already set up to include these files in the appropriate order.

To add further pages, just add a bullet and put the Wiki name in the line. Add an `include` command in the right place in `main.tex`. To get rid of a file, simply remove it from the bullet list and remove the corresponding `input` command from `main.tex`.

3.1.2 Main data

The main data section specifies basic data about the project as a whole.

Similar to the proposal structure section, it is a bullet list with individual items. Here, however, each line is a key/value combination, with the format “key: value”. Most lines should be self-explanatory. Duration is the duration of the project in months; do not specify a unit, just the number.

Proposal structure

- [ProposalAbstract](#)
- [ConceptAndObjectives](#)
- [ProgressBeyondStateoftheArt](#)
- [MethodologyWorkplan](#)
- [WorkPlanning](#)
- [DeliverableList](#)
- [ManagementStructureAndProcedures](#)
- [ConsortiumAsaWhole](#)
- [SubContracting](#)
- [OtherCountries](#)
- [AdditionalPartners](#)
- [ResourcesToBeCommitted](#)
- [ExpectedImpact](#)
- [DisseminationExploitation](#)
- [AcronymsList](#)

Figure 3.1: Screenshot of the example ProposalStructure section of the main page

Main data

- Projectname: Investigating really important research topics
- Acronym: IRIR
- Duration: 24
- Call: ICT FP7-ICT-2012-8
- Topics: Objective ICT-2011.1.1 Future Networks
- Instrument: Integrated Project
- CoordinatorName: Peter Pan
- CoordinatorEmail: peter.pan@neverland.org
- CoordinatorPhone: +12 345 5678

Figure 3.2: Screenshot of main data section

3.1.3 Workpackages

The third part is a list of Wiki pages where a workpackage is described. Same syntax as in the proposal structure section, but the treatment of these pages is different. Unlike above, files here are not just downloaded and converted to LaTeX. Instead, a workpackage page needs to follow a certain structure to specify semantics of a workpackage. Details described below.

Workpackages

Note: List all the workpackages here, in the itemize list. They will get incorporated automatically, using a wiki page of the corresponding name (it is convenient to use a [WikiName](#) for the workpackages). Change the examples here to your need.

- [WpManagement](#)
- [WpArchitecture](#)

Note: When you create another workpackage, it is ESSENTIAL that you upload the corresponding template file to that wiki page. Else, nothing works.

Note: the names given here are also used as (parts of) filenames. You should not introduce special characters here.

Figure 3.3: Screenshot of workpackage list section

3.1.4 Partner data

The partner data has more semantic structure. The important part is a table with four columns:

Partner data

Number	Shortname	Name	Nation	Type	Wiki
1	ABC	A Broad Company	FR	IN	PartnerAbc
3	UE	University Everywhere	DE	AC	PartnerUe
2	ISC	Important Small Company	FI	SME	PartnerIsc

Note: number must be a positive integer; no sanity checking; number can be used as a sort key (can be configured). The coordinator MUST be number 1! Shortnames are used as indexes internally in hash table; they must be strings of letters. So is type and nation. Name is used as plain string. Type and nation can be used to generate summary graphs and are required in any case. Adding more partners should be obvious. The wiki column must have a wiki name ([CamelCase](#)) where the corresponding partner description can be found.

Figure 3.4: Screenshot of the partner data section

Number Each partner organization needs a number, mostly used for sorting. The lead partner MUST be number 1.

Shortname The acronym to be used for this partner. It shows up in tables, lists, etc.

Name The full, official name of a partner.

Nation Stanard ISO abbreviation of the partner's legal nation.

Type Type of partners: academic, research institute, industry, ...

Wiki The name of the Wiki page where this partner's profile can be found. This wiki page is converted to LaTeX and can be included (put into the partner directory).

The order of the rows is irrelevant.

3.2 A generic text page

A generic text page is converted to LaTeX using the `wikiParser` class (Section [wikiParser](#)). It can convert a couple of the standard Wiki markup syntax into LaTeX code. The source code description provides more details.

In addition, there is a specific form of markup geared towards the generation of EU proposals: Whenever there is a pair of level-5 headings of “Start commission hints” and “End commission hints”, the text between these headings is typeset AFTER the first real heading of the page (the text is moved accordingly). The example MoinMoin Wiki as well as the wiki templates contain the corresponding hints given by the commission in the official template. Whether this text is typeset in the final PDF can be controlled via the control setting “showCommissionHints” in settings.cfg. Obviously, before submitting a proposal, this setting should be set to False.

Any Wiki page may have, at the beginning, a line:

```
## Start of text ##
```

and at the end, a corresponding line:

```
## End of text ##
```

These lines need not be present, but if so, text before the start or after the end is ignored. It is still visible on the wiki, though - so it might be a useful place to put instructions for partners, kept discussions about the content of a page on the very page itself, etc. Note that these markers are available on all kinds of pages, also on the main page and the workpackage pages.

3.3 A workpackage page

A workpackage page is by far the most complex page, it also has a rather rigid structure. It consists of four sections, one for the workpackage’s overview description, one for the task descriptions, one for administrative information about the WP as such, and one last section for administrative information on task level.

A level-1 heading can give the name of the WP; it is not analyzed.

3.3.1 Work package description

There must be a *level-2 heading* “Objectives”. All the text after this headline, up to the following level-2 heading, is used to typeset the objectives of a work package.

Then, another *level-2 heading* “WP Description” is needed. Text after this heading, up to the next level-2 heading, is used to typeset a description of the WP in the WP forms.

3.3.2 Tasks descriptions

After that, the tasks inside a work package are described. The assumption is that a workpackage consists of a reasonable number of tasks (even only one, if so desired); it is not possible to do without tasks and only use workpackages. (Not without considerably reworking a lot of the templates, at least.) This part is started by a *level-2 heading* “Tasks”.

Inside this section, there can be any number of *level-3 headings*, starting with “Task Description: ”, and then the **symbolic label** of each task: Each task is assigned a label, typically a short word or phrase (no spaces!) via which information about this task at various places in this page can be cross-linked.

Then, there should be, per task, *two level-4 headings* “Objectives” and “Description of work”. The purpose is similar to the WP descriptions, but they are specifically linked to the particular task.

3.3.3 Administrative information

The fourth *level-2 heading* is “Administrative information”. It is followed by the formal information about the workpackage. It is formatted as a bullet list with key/value pairs to provide information about the workpackage.

The keys are as follows:

Name Full name of the workpackage, as shown in tables and titles.

Shortname Abbreviation, used in spaced-limited situations.

Administrative information

- Name: Architecture Innovations
- Shortname: Architecture
- Leadership: ABC
- Start: 1
- Duration: 20
- Type: RTD

Figure 3.5: A bullet list of key/value pairs to provide administrative information about the workpackage.

Leadership Shortname of the partner organization which leads this workpackage.

Start Month on which the workpackage starts (on the first day of this month); only put the number there, no “M1” or similar.

Duration Number of months the WP lasts. A WP starting in month 5 and last for 2 months, for example, will start on the first day of the fifth month of the project and ends on the last day of the *sixth* month.

Type Type designation of the WP according to the EU commission classification (e.g., RTD: Research and Development, MGMT: Management, DEMO: Demonstration).

3.3.4 Administrative information about Tasks

The *level-3 heading* “Tasks” (note the different levels for the “Tasks” headlines!) announces a table, immediately after the Tasks heading. It specifies the following information in columns:

Tasks

Label	Start	Duration	Name	Lead partner
architectureDesign	1	3	Architecture Design	UE
archImprovement	4	2	Improvement of the Architecture	ABC
archImprovement	8	2	Improvement of the Architecture	ABC
archImprovement	12	2	Improvement of the Architecture	ABC
archFalsify	10	10	Falsification of the proposed Architecture	ISC

Figure 3.6: A table listing all the tasks for the particular workpackage.

Label The symbolic label of the task (the same as used above)

Start Month of the start of the task. It is assumed to start on the first day of the month.

Duration How long does the task last, in months? For example, a task with Start month 1 and Duration 1 month starts on the very first day of the project and ends at the end of the first month.

Name The full name of the task, e.g., used in tables and Gantt charts

Lead partner Shortname of the partner leading the particular task.

In general, there is a single row per task. A generalization is a task that consists of multiple *phases*: It is the task, but is interrupted and resumed. This can be realized by using one row per phase and using the *same* task Label in each row. In the second, third, ... row of a task, only the Start and Duration fields are considered. (It is currently not possible to specify different names or task leaders for different phases of a task; these should be treated as separate tasks!) Such a multi-phase task shows up in the Gantt charts; see the example of the “Improvement of the Architecture” task.

In this as in all following tables, the first row *MUST* be present and have the right labels. The labels are used to find out which column contains which information; missing labels and incorrectly formatted labels will result in errors.

3.3.5 Task efforts

Next, there is a *level-3* heading Effort. It is also followed by table with the following structure. The first column - Partner - contains partner shortnames for partners active in this task. The following columns have one column per task in this workpackage (multiple phases are not mentioned separately).

Effort

Partner	architectureDesign	archImprovement	archFalsify
ABC	10	5	0
UE	3	7	3
ISC	0	0	8

Figure 3.7: Table to specify effort of partners in each task

Each row shows the participation of a partner in the corresponding tasks. Put person months in a field. No floating point numbers can be used, only integer numbers of months.

Partners not participating in a WP at all need not be mentioned.

3.3.6 Milestones

The *level-3 heading* Milestones announces the milestone table for the workpackage. Its structure follows the guidelines of the EU proposals. Specify the following columns:

Label A symbolic label for the milestone, used to refer to it.

Month due When must the milestone be achieved? Just the number of the month, no “M” or similar.

Title A full name for the milestone.

Contributors A comma-separated list of partner shortname, showing which partners will make contributions to this milestone. In case you want to specify a lead partner for a milestone (and similarly for a deliverable, see below), simply set it in boldface (using the Wiki’s specific markup syntax).

Description A brief description text. (Leave empty if not desired.) It is (typically) typeset in the milestone list per workpackage.

Producing task(s) Which tasks contribute to this milestone? Put a comma-separated list of *task labels* here. Task labels can also come from different workpackages; not restricted to the current one. Producing tasks can be marked as boldface (similar to contributors); however, this

Verification means Explain how the project will verify that it has achieved the milestone. (Required by standard commission template.)

Obviously, one row per milestone.

Milestones

Label	Month due	Title	Contributors	Description	Producing task(s)	Verification means
archDescrFormat	2	Architecture description format chosen	ABC	To ensure a precise communication of architectures, this milestone will select the proper formal description technique	architectureDesign, otherTask	Formal technique communicated to all partners

Figure 3.8: Table specifying milestones

3.3.7 Deliverables

Finally, the last *level-3 heading* Deliverables announces the table listing all the deliverables of this workpackage. It has a similar structure to the milestone table. The only difference is that “Verification means” is replaced by “Nature” (report, demonstration, software, ... -checkcommissiontemplate) and “Dissemination” (restricted RE, public PU, ... - check commission template for details).

Deliverables

Label	Month due	Title	Contributors	Description	Producing task(s)	Nature	Dissemination
initialArch	3	Initial architecture description	UE, ABC	The initial version of the architecture is described in the chosen formal description technique	architectureDesign, plan	R	PU
improvArch	9	Improved architecture description	UE , ABC	Based on experiences with the initial architecture, an updated and improved version is described.	archImprovement	R	PU

Figure 3.9: Table specifying deliverables

3.4 Recognized Wiki markup

Only a limited set of Wiki markup syntax is actually recognized and translated into LaTeX commands. The following list summarizes the recognized features (see Section [wikiParser](#) for details):

- Headings are recognized. A level 1 heading is turned into a section, level 2 headings become subsections, etc.
- Bullet lists and enumeration lists are recognized and turned into `itemize` and `enumerate` environments. More precisely, `compactitem` and `compactenum` environments are used for compacter layouting. These
- There is some support for figure inclusion. The basic idea is recognize a figure tag of the form ``. The following keys are recognized:

`file`

Its value is assumed to give the filename of a PDF file in the `latex/figure` directory.

`label`

Value will become the label in the LaTeX figure environment, for cross-referencing.

`caption`

The caption text to be used in the figure environment

`latexwidth`

The value is used to scale the figure proportionally to `textwidth`. It should be a value between 0 and 1. The default, if this key is not present, is to scale the figure to 0.8 of `textwidth`.

Obviously, this is inspired by the twiki way of doing figures. In fact, the key/value pairs can be included in the twiki commands for figure inclusion. Moinmoin is much less amenable to extending its own syntax. It is indeed a bit cumbersome to include a figure in moinmoin, necessitating effectively two include commands: one to have the figure appear on the wiki, one to refer to the PDF file and trigger the generation of the LaTeX figure environment. Any goods ideas here are much appreciated.

- Tables are turned into `tabular` commands. Columns are equally wide, spaced to 80% of the `textwidth`. To fine-tuning the looks of these columns, you can specify the column layout: Write e.g.

```
## TABULAR: clp{0.2textwidth}lr #
```

on a separate line, immediately before the actual table in the wiki markup. Anything between `TABULAR:` and the closing `#` will be turned into the argument of the `tabular` environment in the LaTeX markup. No table environment is generated, if you want that, you can simply enclose the Wiki table with the corresponding LaTeX commands, they are passed through unhindered.

- Some attempts are made to maintain special characters. In particular:
 - Boldface markup is recognized
 - Italics markup as well
 - Line breaks specified by `
` turn into newline commands
 - Commands of the form: `#TODO: some text #` are turned into `fxwarning` commands of the `fixme` package (and appear in `warnings.tex`)
 - Some attempts are made to provide correct left and right quotation marks; guessing is based on spaces before or after a quotation mark `”`.
 - Pure hash marks `#` are protected by turning them in `#`.
 - So are ampersand marks `&`.

3.5 Building a PDF file

When everything is setup correctly, doing an actual build is trivial: On a command line, go into the main project directory and type make!

HOW TO CUSTOMIZE PROPGREN

How to customize the project.

4.1 Simple customization

Turn on, off certain parts, set colors.

4.2 Customize LaTeX templates

All the stuff that happens in `template/latexTemplate.cfg`

4.3 Complex customization

When you really have to work with the python code...

DIRECTORY LAYOUT AND MAJOR FILES

This section summarizes the directory layout as used in the standard distribution setup. It is possible to widely reconfigure this (via the PathNames section in settings.cfg); however, unless there are concrete reasons to change it, it seems reasonable not to modify this.

5.1 Directory structure

bin All the Python scripts necessary to generate the proposal PDF are here.

doc The documentation in various formats.

docsources The sources for the documentation, in reStructuredText, based on Sphinx.

generated This directory contains all intermediately downloaded or generated files. It has several subdirectories:

latex All the generated LaTeX files go in here. Files in the directory as such are direct transliterations of the corresponding Wiki files. There are a few subdirectories:

figures All *generated* tables, gantt charts, and pie charts go in here (in respective subdirectories).

partners Files pertaining to the description of partners.

wp Files pertaining to individual workpackages. One file per workpackage, containing all relevant information.

wiki The raw download of the wiki sources. Very useful for error checking, in case some of the download fails, problems with special characters (e.g., Umlaute) appear, etc. Files in here should be verbatim copies of all the Wiki pages pertaining to the project. In particular, there are two further subdirectories:

partners All the partner description files, as linked from the Partner Description part of the main project page.

wp All the workpackage wiki pages, as linked from the workpackage description part of the main page.

xml A directory containing all intermediately generated XML files. Workpackage-specific information goes into the subdirectory wp. One file per workpackage. All the partner descriptions go in one LaTeX file.

The purpose of the intermediate XML representation is to give secondary tools a standard way to hook in (and it is a legacy of an older version of the program).

latex This directory contains all the manually added LaTeX files, as well as the root main.tex file invoked by pdflatex. Feel free to add any files you like in here.

It has a few subdirectories:

figures By convention, all figures necessary for the proposal go in here. In addition, there are subdirectories `gantt`s, `pies`, `tables` pointing to generated material.

partners Same purpose as above.

styles All specific, non-standard, unusual or modified style files are collected here.

wp Same purpose as above.

In addition, there are symbolic links pointing from this directory to the directory generated, to each of the automatically generated files. This is done by the script `ensureSymbolicLinks.py`. The idea is to keep files on the Wiki as long as possible. But if, at some point in time, a file should be maintained only manually, remove the symbolic link, copy the generated file to the this directory, and the generation scripts will no longer overwrite this file; all manual changes are preserved. (Obviously, you should make it clear on the wiki that the wiki version is out of date.)

moin A distribution of the MoinMoin wiki, adapted to the needs of a project proposal. In particular, restricted login and a pre-configured superuser.

template All template files. It contains, for each supported wiki type, an example setup of the example project, separated by subdirectory. Currently, `moinmoin` and `twiki`. See also below for `latexTemplates.cfg`.

5.2 Relevant files

settings.cfg This file contains main configuration options: where to find the Wiki, which information to include, some basic settings about the look of the PDF file. See [settings.cfg](#) for the actual source code and detailed documentation.

template/latexTemplates.cfg In here, all the templates used to produce actual LaTeX code are maintained. Changes here allow a fine-grained customization of the result. See [latexTemplates.cfg](#) for the actual source code and detailed documentation.

latex/main.tex The main LaTeX file; from here, all other LaTeX files are included. You can change a lot of the behavior here, e.g., include other style files. This file is never manipulated automatically, feel free to make manual adjustments here. See [main.tex](#) for details.

latex/warnings.tex All warning generated during the production of XML or LaTeX code are collected here and can be typeset directly. The `showWarnings` flag in `settings.cfg` controls whether these warnings are included in the PDF output.

latex/settings.tex This file is produced from `settings.cfg` by turning all the True/False flags in this file into a corresponding LaTeX variable (which can be queried via the `ifthenelse` command). It also contains the *results* of executing all the commands in the CustomLaTeX section of `settings.cfg`, made accessible via a corresponding LaTeX variable.

latex/partners/partnersIncluder.tex A small file, generated to make sure that all downloaded partner descriptions are included. No need to change anything manually when a new partner is added.

latex/wp/wpIncluder.tex Similarly, a file to include all workpackage description files.

Makefile A standard Makefile guiding the generation process. It is fairly straightforward, simply running the consecutive steps of a build process after each other for the main target *pdf*. See [Makefile](#) for details.

projectname.pdf The ultimate PDF file. “projectname” is replaced by the value you gave in `settings.cfg`’s `projectName` option. In the example setup, it will be called `TestProject.pdf`.

OPEN ISSUES

6.1 Known bugs

None, of course :-). If you find any, let me know!

6.2 Things still to do (TODO)

1. Put the bibtex file onto the Wiki as well. Probably better than to rely on version control to distribute it.

6.3 Debatable aspects

1. The settings files could be put on the Wiki as well. Two-edged sword: Might make it easier for everybody to configure things, but that is a serious downside as well. Technically, this would not be difficult to do. Not made up my mind yet.

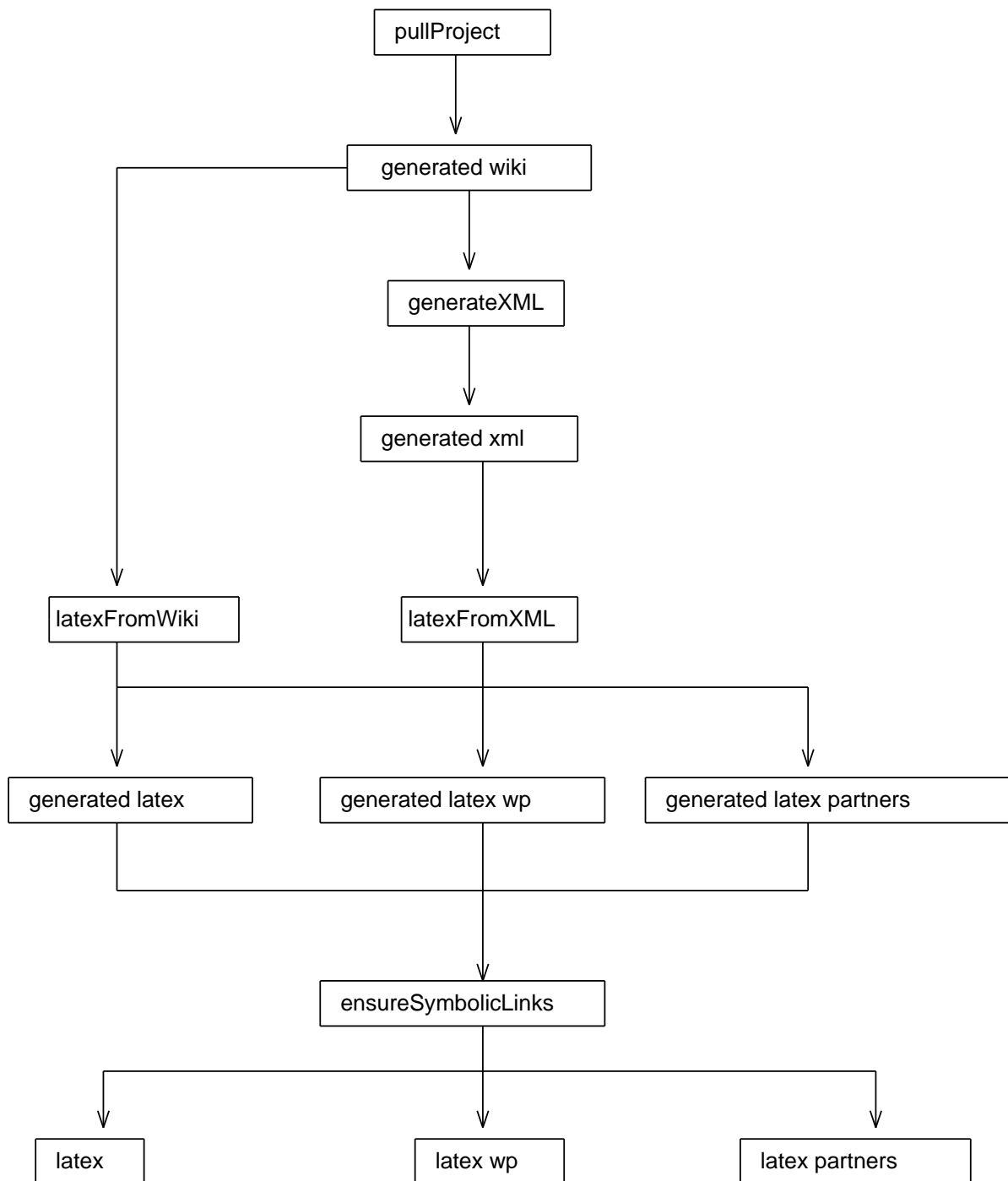
6.4 Ideas for future features

1. Integrate a version control system like SVN for the produced LaTeX files
2. Generate PDF files directly from the Wiki, make it possible to trigger that at least.
3. Integrate Etherpad into Wiki
4. Build a bridge to the financial planning of a project.
 - Either by parsing from/ writing to an Excel (or similar) spreadsheet. Relatively easy, but hard to make this general
 - Or by putting spreadsheet-functionality onto the wiki. Hard to do for different wiki types (a nightmare, probably).
5. Build support for latexdiff. Possibly triggered from wiki as well?
6. Better support for figures in both wiki in latex. One idea might be to upload a PDF to the wiki and have the Wiki convert it to a PNG file. And the pull the PDF file directly from the wiki, without need to manually put it in the LaTeX figure directory.

SOURCE CODE DOCUMENTATION

The code described here lists in the bin directory. Some general remarks:

- The invocation sequence is `pullproject -> generateXML -> latexFromWiki -> latexFromXML -> ensureSymbolicLinks`
- Details are in the makefile in the main directory
- Many functions get passed a parameter “config”. This is the content of `settings.cfg`, as parsed by the standard python configuration file parser `ConfigParser.SafeConfigParser` (see python library documentation for details).



7.1 pullproject

Pull the raw wiki files from wherever is specified in settings.cfg. Store the raw wiki syntax in the wikipath directory.

`pullProject.ensureDirectories (config)`

A small helper function that makes sure that all the directories that are mentioned in settings.cfg PathNames section actually exist. This can be useful after a make clean or in case directories have been manually and inadvertently removed.

`pullProject.getPartners (masterPage, pullInstance, config, parser, verbose=False)`

get all the partner description files

`pullProject.getProposalStructure (masterPage, pullInstance, config, parser, verbose=False)`

Extract all the relevant files for the actual proposal text from the wiki.

`pullProject.getWorkpackages (masterPage, pullInstance, config, parser, verbose=False)`

Identify all the workpackages and download them

7.2 wikiParser

7.2.1 The wikiParser module as such

We need to parse various wiki formats into useable latex. This module provides an abstract base class `wikiParser` that implements a lot of basic functions e.g., to extract tables, lists, etc.

This base class has to be subclassed to specialize for specific Wiki syntax variants. The subclasses can be fairly slim and mostly specify regular expressions to use (e.g., how to recognize headings).

A factory function is called to obtain an instance of such a parser.

`wikiParser.wikiParserFactory (config)`

Construct an instance of the correct parser class, choice depends on what is selected in settings.cfg.

7.2.2 The wikiParser base class

`class wikiParser.wikiParser`

Base class to get the interface for turning wiki syntax into useful stuff

`constructLabel (t)`

Given a heading, construct a suitable label out of it. Remove whitespaces and obvious strange characters.

`getLaTeX (t)`

turn all of the wiki into LaTeX

`getList (wiki)`

turn the first itemize in the wiki into a list

`getListAsDict (wiki, delimiter=':')`

tmp is an array of strings, assumed to be key/values delimited by delimited split them up, return a proper dictionary for that

`getSection (wiki, title, level)`

extract the section with title at level

`getTable (wiki)`

turn the first table into list of dictionaries, using the first row as keys for the dictionaries. Removing boldfacing from the first row entries.

`moveCommissionHints (t)`

Make sure that commission hints appear after the first heading!

7.2.3 The moinmoin parser

`class wikiParser.wikiParserMoinmoin (config)`

Specialized for Moinmoin

`getSection (wiki, title, level)`

extract the section with title at level

7.2.4 The twiki parser

class `wikiParser.wikiParserTwiki` (*config*)

Specialized for Twiki

getSection (*wiki, title, level*)

extract the section with title at level

localHeading (*title, level*)

How does a heading with the given title, at the given level, look in this wiki style? Describe it as a regular expression.

7.3 latexFromWiki

`latexFromWiki.handleFile` (*f, outdir, parser, config, verbose=False*)

Translate a wiki file with name *f* to the corresponding LaTeX file.

Information where and how to translate are giving in *config*. Parser is a parser object for the correct wiki style.

7.4 latexFromXML

general docu for latexFromXML

class `latexFromXML.recursiveTemplate` (*template*)

try to find recursively occuring patterns and replace them first

`latexFromXML.analyzeTree` (*tree, config, verbose=False*)

Take an XML tree and create all the necessary data structures

`latexFromXML.computeStatistics` (*verbose*)

Embellish the global lists with some additional sums, statistics, cross-referencing to IDs, etc. Add whatever seems useful here, makes it later to generate the LaTeX strings later on.

`latexFromXML.fixProducingTask` (*ll*)

Input is a list of milestones or deliverables. We need to fix the ProducingtaskString; dictFromXMLWithMains is not specific enough for that job. Replace the task label by the task IDs and do proper sorting, keeping in mind the ordering of task ids

`latexFromXML.produceUncompressedGantt` (*l, config*)

produce a Gantt string for the elements in list, without trying to compress that into a compact representation. Each element a separate line.

`latexFromXML.writeTemplateResult` (*expanded, templ, keytouse=None*)

Use the information in *templ* to check whether it should be written out

`latexFromXML.allWPDicts` = []

A list storing one dictionary per workpackage. Filled from XML file.

`latexFromXML.titlepageDict` = {}

Dictionary containing all information about the project in general; mostly it goes on the titlepage.

7.5 latexFromXML - key/value pairs used in global variables

7.5.1 titlepageDict

call <type 'str'>

ICT FP7-ICT-2012-8

coordinatoremail <type 'str'>

peter.pan@neverland.org (peter.pan@neverland.org)

coordinatorname <type 'str'>

Peter Pan

coordinatorphone <type 'str'>

+12 345 5678

duration <type 'str'>

24

instrument <type 'str'>

Integrated Project

projectname <type 'str'>

Investigating really important research topics

projectshort <type 'str'>

IRIR

topics <type 'str'>

Objective ICT-2011.1.1 Future Networks

7.5.2 allWPDicts

Duration <type 'str'>

24

End <type 'int'>

24

Leadernumber <type 'str'>

2

Leadership <type 'str'>

ISC

Name <type 'str'>

Project Management

Number <type 'str'>

1

Shortname <type 'str'>

Management

Start <type 'str'>

1

Type <type 'str'>

MGMT

deliverableGanttLegend <type 'str'>

\item \textbf{D\,1.1}: A research plan description \item \textbf{D\,2.1}: Initial architecture description

taskeffort <type 'dict'>

{ 'otherTask': 12, 'plan': 13 }

wpdescription <type 'str'>

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla urna. Maecenas interdum nunc in augue. Mauris quis massa in ante tincidunt mollis. Proin imperdiet. Donec porttitor pede id est. Sed in ante. Integer id arcu. Nam lectus nisl, posuere sit amet, imperdiet ut, tristique ac, lorem. In erat. In commodo enim. Phasellus libero ipsum, tempor a, pharetra consequat, pellentesque sit amet, sem. Praesent ut augue luctus elit adipiscing ultricies. Vestibulum suscipit cursus leo. Nullam molestie justo.

wpeffort <type 'str'>

25

7.5.3 allTasks

Duration <type 'int'>

24

Label <type 'str'>

plan

Leadpartner <type 'str'>

UE

Main <type 'str'>

True

Name <type 'str'>

Research preparation

Start <type 'int'>

1

contributedDeliverables <type 'list'>

['reserachplan', 'initialArch']

ganttId <type 'str'>

T1-1

taskId <type 'str'>

TV,1.1

taskdescription <type 'str'>

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla urna. Maecenas interdum nunc in augue. Mauris quis massa in ante tincidunt mollis. Proin imperdiet. Donec porttitor pede id est. Sed in ante. Integer id arcu. Nam lectus nisl, posuere sit amet, imperdiet ut, tristique ac, lorem. In erat. In commodo enim. Phasellus libero ipsum, tempor a, pharetra consequat, pellentesque sit amet, sem. Praesent ut augue luctus elit adipiscing ultricies. Vestibulum suscipit cursus leo. Nullam molestie justo.

Morbi dui. Morbi convallis mi sed sem. Nulla convallis lacus vitae risus. Phasellus adipiscing. Nullam tortor. Sed laoreet aliquam ante. Vestibulum diam. Pellentesque nec leo. Pellentesque velit. Praesent congue mi eu ipsum cursus fringilla. Etiam leo erat, tristique et, pharetra eget, mollis vitae, velit. In hac habitasse platea dictumst. In quam nibh, facilisis et, laoreet non, facilisis tempus, justo.

Donec nulla lectus, faucibus sit amet, auctor non, consectetur quis, pede. Nullam dictum. Nullam suscipit, ligula in scelerisque posuere, sapien purus rutrum magna, vitae pharetra leo quam vel tortor. Donec eleifend

condimentum sapien. Etiam sed orci. Aliquam tempor. Pellentesque egestas tortor id eros. Donec mauris justo, commodo id, pellentesque id, eleifend non, mi. Duis venenatis sagittis metus.

tasknumber <type 'int'>

1

taskobjectives <type 'str'>

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla urna. Maecenas interdum nunc in augue. Mauris quis massa in ante tincidunt mollis. Proin imperdiet. Donec porttitor pede id est. Sed in ante. Integer id arcu. Nam lectus nisl, posuere sit amet, imperdiet ut, tristique ac, lorem. In erat. In commodo enim. Phasellus libero ipsum, tempor a, pharetra consequat, pellentesque sit amet, sem. Praesent ut augue luctus elit adipiscing ultricies. Vestibulum suscipit cursus leo. Nullam molestie justo.

\begin{compactitem} \item Objective one for a task \item Objective two for a task \item Objective three for a task \end{compactitem}

wp <type 'str'>

1

7.5.4 allMilestones

Contributor <type 'list'>

['ABC']

ContributorMain <type 'str'>

ABC

ContributorString <type 'str'>

\textbf{ABC}

Description <type 'str'>

Website for the project is ready

Label <type 'str'>

website

Monthdue <type 'int'>

7

Producingtask <type 'list'>

['otherTask']

ProducingtaskString <type 'str'>

T\,1.2

Title <type 'str'>

Website goes public

Verificationmeans <type 'str'>

Website can be accessed

deco <type 'str'>

[milestone={ fill=orange, rounded corners=5pt}]

ganttLegend <type 'str'>

\item \textbf{M\,1.1}: Website goes public

id <type 'str'>

M\,1.1

wp <type 'str'>

1

7.5.5 allDeliverables

Contributor <type 'list'>

['UE', 'ABC', 'ISC']

ContributorMain <type 'str'>

ISC

ContributorString <type 'str'>

ABC, \textbf{ISC}, UE

Description <type 'str'>

A complete research plan to be followed for the remained of the project is described.

Dissemination <type 'str'>

PU

Label <type 'str'>

reserachplan

Monthdue <type 'int'>

12

Nature <type 'str'>

R

Producingtask <type 'list'>

['plan', 'otherTask']

ProducingtaskMain <type 'str'>

otherTask

ProducingtaskString <type 'str'>

T\,1.1, \textbf{T\,1.2}

Title <type 'str'>

A research plan description

gantLegend <type 'str'>

\item \textbf{D\,1.1}: A research plan description

id <type 'str'>

D\,1.1

wp <type 'str'>

1

7.5.6 allEfforts

partner <type 'str'>
ABC

resources <type 'str'>
5

task <type 'str'>
otherTask

wp <type 'str'>
1

7.5.7 partnerList

Name <type 'str'>
A Broad Company

Nation <type 'str'>
FR

Number <type 'str'>
1

Shortname <type 'str'>
ABC

Type <type 'str'>
IN

Wiki <type 'str'>
PartnerAbc

7.6 settings

`settings.getSettings(filename)`
Try to find the settings file, turn it into a configParser object, and do some first preprocessing on it.

7.7 ensureSymbolicLinks

Make sure that the symbolic links from the manual to the generated subtree exist, unless there is already a real file there.

`ensureSymbolicLinks.createLinks(config)`
Look into config, in the Paths section, for any directory with generated as prefix, and has a corresponding manual directory as peer. Put symbolic links there if necessary to all files in generated.

7.8 utils

`utils.dictAsRest (d, fp)`

Given a dictionary, print key/values as a description list in reStructuredText syntax.

`utils.docuDict (s, d, fp)`

For documentation purposes: print a rest header using *s*, and then print the dictionary as a description list.

`utils.roundPie (l)`

round the values to 100%, input: list of (name, value) tuples

`utils.searchListOfDicts (l, key, value, returnkey)`

Search a list *l* which contains dictionaries for an entry where key has value, and return the value of returnkey.

`utils.treeReduce (l, reducefct)`

recursively apply a reduce function to a nested list structure. Atomic elements must be boolean values.

`utils.writefile (t, f)`

Write text *t* into file *f*. If flag `utf8conversion` is set, try to run a conversion into UTF-8.

7.9 settings.cfg

7.9.1 Wiki

Set up the necessary information to access the wiki: which type, where can it be found, what is the start page, which account and password to use to log in.

projectName

This option specifies the root Wiki page where the main project information can be found. It also serves as the filename of the file pdf file.

Default: TestProject

wikitype

The wikitype setting selects which type of wiki access is to be used. Wikitypes currently supported are: twiki, moinmoin and moinmoin-local

Option 1: `wikitype = moinmoin-local` This option specifies that the a moinmoin wiki can be accessed in the same file system where the generation system executes. This option requires to specify the `moinmoinpath` option as well. No user and password need to be given, but the files must be accessible for reading.

Option 2: `moinmoin`

A moinmoin wiki is used, to be access remotely, using the mechanize library. To this end, both the `wikiuser` and `wikipassword` option need to be specified; they are used for login. Also, the `baseURL` option needs to be specified: it provides a URL where the wiki can be accessed, without any concrete page name. Example:

`baseURL = http://hk-vm.cs.uni-paderborn.de:8080/`

Option 3: `twiki`

It needs the same options as moinmoin. The difference is that the obtained files are parsed assuming the twiki syntax. The distribution's configuration file assumes a moinmoin-local

Default: `moinmoin-local`

moinmoinpath

Specify the moinmoin path in the standard PropGen distribution

Default: `../moin/`

baseURL

For remote access to a wiki. It is ignored for the moinmoin-local wikitype and only used for other wikitypes.

Default: `http://hk-vm.cs.uni-paderborn.de:8080/`

wikiuser

The wikiuser account name to use to log in. Ignored in the moinmoin-local wikitype. The default corresponds to the account name preset in the distribution's moinmoin wiki. Change this option to reflect your own user name.

Default: ProjectMaster

wikipassword

Password used to log in. The default is the one used in the distribution's example moinmoin wiki. It is ignored in the moinmoin-local wikitype and only needed for remote access.

Default: 123abc

loginURL

Some remote wikis usually need a special login URL, e.g., Twiki wikis. Specify here. This setting is ignored in both the moinmoin-local wikitype (where no login is needed at all) and in the moinmoin wikitype (where the login URL is constructed directly from the baseURL and no separate URL is needed).

Default: <https://twiki.sics.se/bin/login>

httpProxyIP

For remote Wiki access through a proxy: These variables are used by the mechanize module, for access via an HTTP or HTTPS proxy. You can specify the proxy's IP, port number, and user and password, if needed. You can do that separately for HTTP and HTTPS access. But this does not always work out well. Also, this functionality is not well tested. Your mileage WILL vary! All the defaults are just empty.

Default:

httpProxyport

Default:

httpProxyuser

Default:

httpProxypassword

Default:

httpsProxyIP

Default:

httpsProxyport

Default:

httpsProxyuser

Default:

httpsProxypassword

Default:

7.9.2 PathNames

binpath

Caution: best not to touch these paths!!! You should know what you are doing here! note: these paths are relative to the main directory where are all the scripts?

Default: bin

wikipath

where should downloaded wiki files be stored?

Default: generated/wiki

wikiwppath

Default: generated/wiki/wp

wikipartnerpath

Default: generated/wiki/partners

xmlpath

where do generated xml files go?

Default: generated/xml

xmlwppath

Default: generated/xml/wp

latexTemplates

where is the LaTeX templates file?

Default: template/latexTemplates.cfg

genlatexpath

where do generated LaTeX files, wp paths, partner files go?

Default: generated/latex

genlatexfigurespath

Default: generated/latex/figures

genlatexganttpath

Default: generated/latex/gantts

genlatextablespath

Default: generated/latex/tables

genlatexpiespath

Default: generated/latex/pies

genlatexwppath

Default: generated/latex/wp

genlatexpartnerspath

Default: generated/latex/partners

manuallatexpath

where are the MANUAL latex files? usage: in that directory, no files are EVER overwritten however, it is ensured that for all generated files, there is either a regular file of the same name in the manual directory (then nothing happens), or a symbolic link is created in the manual directory. NOTE: no good idea how to replicate that behavior

Default: latex

manuallatexfigurespath

Default: latex/figures

manuallatexganttpath

Default: latex/figures/gantts

manuallatextablespath

Default: latex/figures/tables

manuallatexpiespath

Default: latex/figures/pies

manuallatexwppath

Default: latex/wp

manuallatexpartnerspath

Default: latex/partners

7.9.3 Gantts

TODO: excel interface! excelFile = ../Administration/Steam-resources.xls control which and how Gantt charts are typeset

WpMilestonesUncompressedShow

toggle to turn on/off various figures: some simple examples - generate various WP-specific Gantt charts for milestones, deliverables

Default: True

WpMilestonesShow

Default: True

WpDeliverablesUncompressedShow

Default: True

ShowWPBar

for the full-project milestones/deliverable gantt charts: build a WP bar to separate WPs ?

Default: True

gantttPerWPShowsLegend

should the WP-specific Gantt charts show a legend?

Default: True

gantttLegendTwoColumn

should a Gantt legend be one or two columns?

Default: True

gantttTaskbarsShowTaskname

task bars show task names in the gantt chart? easier to read, but risk of text extending to the right if not, maybe center the task identifier in the bar? (difficult!)

Default: True

gantttDistanceBetweenMS

More detailed control about looks of Gantt charts: number of months that a deliverable/milestone marker text occupies (horizontally)

Default: 4

milestoneDecoration = fill=orange, rounded corners

how should a milestone look like? Put a “decoration string” according to the pdfgant package here

Default: 5pt

milestonesShowCrossWP

show cross-WP milestones?

Default: True

deliverablesShowCrossWP

show cross-WP milestones?

Default: True

milestoneLegendTemplate

template to format the milestone captions in the Gantt charts

Default: item textbf{\${id}}: \${Title}

deliverableLegendTemplate

Default: item textbf{\${id}}: \${Title}

7.9.4 Summaries

a plausible alternative for the legend strings is to use a description environment instead. That requires then a corresponding change in latexTemplates.cfg. Not difficult to do, look for compactitem there. which summary tables, figures should appear in the document

showEffortPartnerWPs

one table showing efforts only per partner and workpackage, over all workpackages

Default: True

showEffortPartnerTasks

one table showing effort per partner and task, over all tasks

Default: True

piePMsWPs

a pie chart, showing person month summaries for WPs

Default: True

piePMsPartners

a pie chart, showing person month summaries for each partner

Default: True

piePMsPartnerTypes

a pie chart, showing person month summaries for each partner type (industry, SME, academic)

Default: True

piePMsNations

a pie chart, showing person month summaries for each nation

Default: True

7.9.5 WPTables

the following pie charts are budget-related; makes only sense once the spreadsheet coupling is implemented a pie chart, showing total/contributed budget, per partner `pieTotalPerPartner = True` `pieContribPerPartner = False` a pie chart, showing total/contributed budget, per partner TYPE `pieTotalPerPartnerType = False` `pieContribPerPartnerType = False` a pie chart, showing total/contributed budget, per NATION `pieTotalPerNation = False` `pieContribPerNation = False` all information that is relevant for workpackage tables

maxPartnersPerRow

how many partners should be typeset in one row of the WP tables? choice depends mostly on how long the partner shortnames are

Default: 8

firstColumnWidth

how wide should the first column be? give it as percent of textwidth!

Default: 15

wptablespaceing

how to influence the spacing of the wp tables? `wptablespaceing = @{\hskip 2.8ex}`

Default: `@{\hskip 0ex}`

tabularCorrection

correction factor to eadjust total width of the WP tabular (Note: I'd much appreciate help from a LaTeX wizard to ensure a tabular environment is at most textwidth wide)

Default: 0.95

tasklistShowsDuration

what information should the task list include (in the WP table):

Default: True

tasklistShowsPartners

Default: True

tasklistShowsDeliverables

Default: True

tasklistShowsMilestones

Default: True

wpdescriptionShowsLeader

how much details should the workpackage description box report?

Default: True

taskboxShowsLeader

how much details should the individual task boxes report? (the boxes containing the description of each task) (this is used in latex-templates.cfg in the WpTasksDescriptions section)

Default: True

taskboxShowsObjectives

showsLeader: refers to the head of the taskbox, not to the list at the end

Default: True

taskboxShowsDescription

Default: True

taskboxShowsDeliverables

Default: True

taskboxShowsMilestones

Default: True

taskboxShowsPartners

Default: True

deliverablesWPshowDue

how much details in the deliverables list per WP? similar to tasklist options

Default: True

deliverablesWPshowTasks

Default: True

deliverablesWPshowPartners

Default: True

deliverablesWPshowDescription

Default: True

milestonesWPshowTasks

how much details in the milestones list per WP? similar to tasklist options

Default: True

milestonesWPshowPartners

Default: True

milestonesWPshowDue

Default: True

milestonesWPshowDescription

Default: True

colorInactivePartner

color highlight for inactive partners? (color names as defined by the LaTeX xcolor package) (no highlight: simply use black)

Default: gray

7.9.6 Participants

Options to control the individual participant descriptions in Section 2.2

newpageAfterEachPartner

Default: True

7.9.7 LaTeX

Options controlling LaTeX processing produces file settings.tex, included by frame.tex NOTE: these settings are only processed in the makefile; changing them and directly running pdflatx will have no effect

showCommissionHints

should the PDF file include the commission hints text?

Default: True

useShowkeys

should the showkey package be used, highlighting the label, ref and cite commands?

Default: False

showWarnings

should warnings and fixmes be printed?

Default: True

showListOfTables

should the file show list of tables?

Default: True

showListOfFigures

should the file show list of figures?

Default: True

showAcronymList

should there be a list of acronyms?

Default: False

useMultipageDeliverableTable

multipage deliverables/milestone Table? (defaults False / True only for demonstration of the options, pick what you prefer...)

Default: False

useMultipageMilestoneTable

Default: True

useMultipageEffortTable

should the effort table for the entire project be typesetting across multiple pages?

Default: True

effortTableLandscape

turn the effort table sideways? Can be useful for large consortia

Default: True

7.9.8 CustomLaTeX

custom LaTeX commands Rationale: there might be some things you'd like to include in your proposal that are not fit for making in general, but can be computed based on the numbers contained in files pulled from the wiki E.g., the total number of person months to this end, this section allows you to write python code that is executed

once every thing else is done and assign the result to a LaTeX command. The defining command will end up in settings.tex the command is the option name CAUTION: you can really screw up everything here. It can delete your disk and kill your pet. You are WARNED! To make use of this feature, you have to understand the Python code!

totalPM

e.g.: total person months should be defined like this:

Default: `sum([int(e['resources']) for e in allEfforts])`

tocLevel

and it will turn into a LaTeX command in settings.tex like this (where 999 is of course replaced by the result of computing based on actual data): `newcommand{totalPM}{999} toc level`

Default: 3

secNumDepth

how deeply should headings be numbered?

Default: 3

7.10 latexTemplates.cfg

To get this right: First line must be on the same line as the

Default: ;

7.10.1 titleheader

we build the titlepage in three steps: the header, the table rows for the partners, and then the titlepage complete out of these two parts. This third part is then written to file

template

Default: `begin{center} {LARGE ${instrument} } \[.2cm] {large ${call} } \[.4cm] {LARGE textbf{ ${projectname} }} \[.3cm] {LARGE Acronym: textbf{ ${projectshort} }} \[.3cm] end{center} {large Date of Preparation: today } \[1em] begin{large} begin{description} item[Work program topics addressed:] ${topics} item[Coordinator:] ${coordinatorname} item[e-mail:] {url{${coordinatoremail}}} item[tel/fax:] ${coordinatorphone} end{description} end{large} noindent`

dict

Default: titlepageDict

7.10.2 partnerTableRow

rows for partner table on titlepage:

template

Default: `${Number} & ${Name} & ${Shortname} & ${Nation}`

list

Default: partnerList

joiner

Default: \n

sorter

to demonstrate how to sort such a list, let's sort if by number Note: sorter is optional, but only available in conjunction with joiner attribute

Default: `lambda x: int(x['Number'])`

7.10.3 titlepage

some alternative examples (which make no sense here, just to demonstrate): `sorter = lambda x: x['Shortname']`
`sorter = lambda x: x['Nation']` and the actual titlepage:

template

Default: `${titleheader} { begin{tabular}{cp{8cm}ll} toprule Participant no. & Participant organisation &
Short name & Country \ midrule ${partnerTableRow} \ bottomrule end{tabular} }`

dict

Default: expanded

file

Default: True

7.10.4 wpSummaryRows

the wp summary list

template

Default: `WP ${Number} & ${Name} & ${Type} & ${Leadernumber} & ${Leadership} & ${wpeffort} &
${Start} & ${End}`

list

Default: allWPDicts

joiner

Default: `\n`

7.10.5 wpsummarytable

template

Default: `begin{table}[bhtp] caption{Summary table of all work packages} label{tab:wpsummary} be-
gin{tabular}{cp{0.25textwidth}cccrcc} toprule WP No. & WP name & Type of & Lead & Lead & Person-
& Start & End \ & & activity & part. no. & short name & months & month & month \ midrule ${wp-
SummaryRows} \ midrule multicolumn{2}{1}{Total:} & & & totalPM & & \ bottomrule end{tabular}
end{table}`

dict

Default: expanded

file

Default: True

dir

Default: tables

7.10.6 ganttPrefix

Gantt charts! First, some building blocks for various Gantt charts

template

Default: `begin{tikzpicture} begin{ganttchart}[vgrid,hgrid, x unit=0.371cm, y unit chart = 0.75cm,
title label font={footnotesize}, bar height = 0.55, bar top shift = 0.225, inline, milestone
label font=color{black}small, milestone label inline anchor={right=.1cm}, bar label inline an-
chor={anchor=west}, bar label font=small, link={-latex, rounded corners=1ex, thick}]{ ${duration} } gantt-
titlelist{ 1,..., ${duration} } { 1 }`

dict

Default: titlepageDict

7.10.7 ganttPostfix

template

Default: end{ganttchart} end{tikzpicture}

7.10.8 WpMilestonesUncompressedShow

and the actual gantts: first, the wp-specific gantts

template

Default: begin{figure}[htbp] \${ganttPrefix} \ \${milestoneUncompressedGanttString} \${ganttPostfix} caption{Gantt chart of all milestones of Work package \${Number}} end{figure}

list

Default: allWPDicts

dict

Default: expanded

file

Default: True

numerator

Default: value['Shortname']

dir

Default: gantts

7.10.9 WpMilestonesShow

template

Default: begin{figure}[htbp] \${ganttPrefix} \ \${milestoneGanttString} \${ganttPostfix} caption{Gantt chart of all milestones of Work package \${Number}} end{figure}

list

Default: allWPDicts

dict

Default: expanded

file

Default: True

numerator

Default: value['Shortname']

dir

Default: gantts

7.10.10 WpDeliverablesUncompressedShow

template

Default: begin{figure}[htbp] \${ganttPrefix} \ \${deliverableUncompressedGanttString} \${ganttPostfix} caption{Gantt chart of all deliverables of Work package \${Number}} end{figure}

list

Default: allWPDicts

dict

Default: expanded

file

Default: True

numerator

Default: value['Shortname']

dir

Default: gantts

7.10.11 WpDeliverablesShow

templateDefault: `begin{figure}[htbp] $\{\text{ganttprefix}\} \setminus \{\text{deliverableGanttString}\} \{\text{ganttpostfix}\} \text{caption}\{\text{Gantt chart of all deliverables of Work package } \{\text{Number}\}\} \text{end}\{\text{figure}\}$` **list**

Default: allWPDicts

dict

Default: expanded

file

Default: True

numerator

Default: value['Shortname']

dir

Default: gantts

7.10.12 ganttWP

templateDefault: `begin{figure}[htbp] centering $\{\{\text{ganttprefix}\} \setminus \text{ifthenelse}\{\text{boolean}\{\text{Gantts-ShowWPBar}\}\}\{\{\text{groupbar}\}\}\} \{\{\text{taskGantt}\} \{\{\text{deliverableGanttString}\} \setminus \{\{\text{milestoneGanttString}\} \{\{\text{ganttpostfix}\}\} \text{ifthenelse}\{\text{boolean}\{\text{Gantts-ganttPerWPSHowsLegend}\}\}\} \text{ifthenelse}\{\text{boolean}\{\text{Gantts-ganttLegendTwoColumn}\}\} \{\begin{\text{multicols}\}\{2\} \begin{\text{compactitem}\} \{\{\text{deliverableGanttLegend}\} \{\{\text{milestoneGanttLegend}\} \text{end}\{\text{compactitem}\} \text{end}\{\text{multicols}\} \} \{ \% \text{single-column legends: } \begin{\text{compactitem}\} \{\{\text{deliverableGanttLegend}\} \{\{\text{milestoneGanttLegend}\} \text{end}\{\text{compactitem}\} \} \}\} \text{caption}\{\text{Gantt chart for Work package } \{\{\text{Number}\}\}: \{\{\text{Shortname}\}\} \text{label}\{\text{fig:gantt-WP}\{\{\text{Number}\}\}\} \text{end}\{\text{figure}\}$` **list**

Default: allWPDicts

dict

Default: expanded

numerator

do not change the numerator; else, wpInclude.tex will look for the wrong files

Default: value['Shortname']

dir

Default: gantts

7.10.13 ganttWPLegend

template

separate legends per WP gantts only make sense if they are not already included in the

```
Default: begin{figure}[htbp] ifthenelse{boolean{Gantts-ganttLegendTwoColumn}} {begin{multicols}{2}
begin{compactitem}   ${deliverableGanttLegend}   ${milestoneGanttLegend}   end{compactitem}
end{multicols} } {% single-column legends: begin{compactitem} ${deliverableGanttLegend} ${mile-
stoneGanttLegend} end{compactitem} } caption{Gantt chart of Work package ${Number}: ${Short-
name}} label{fig:gantt-Legend-WP${Number}} end{figure}
```

list

Default: allWPDicts

dict

Default: expanded

file

Default: False

numerator

do not change the numerator; else, wPInclude.tex will look for the wrong files

Default: value['Shortname']

dir

Default: gantts

7.10.14 allTaskDelMSList

and prepare the complete Gantt chart for the entire project this happens in several steps

template

Default: ifthenelse{boolean{Gantts-ShowWPBar}}{ \${groupbar}}{ } \${taskGantt} \${deliverable-
GanttString} \ \${milestoneGanttString}

list

Default: allWPDicts

dir

Default: gantts

7.10.15 allTaskDelMS

the next one is an example with an empty template: it is only used to turn a list into a string

template

Default:

list

Default: expanded['allTaskDelMSList']

joiner

Default: \n

7.10.16 allDelLegend

template

Default: \${ganttLegend}

list

Default: allDeliverables

joiner

Default: n

7.10.17 allMSLegend

template
Default: `${ganttLegend}`

list
Default: `allMilestones`

joiner
Default: `n`

7.10.18 CompleteGantt

template
Default: `begin{figure}[htbp] centeringmaxsizebox{0.95textwidth}{0.95textheight}{ ${ganttPrefix} \ ${allTaskDelMS} ${ganttPostfix} } % closes adjustbox caption[Overall Gantt chart for the entire project, showing all tasks, deliverables, and milestones]{Overall Gantt chart for the entire project, showing all tasks, deliverables, and milestones (legend in Table~ref{fig:allDelMSLegend})} label{fig:completeGantt} end{figure}`

dict
Default: `expanded`

file
Default: `True`

dir
Default: `gantts`

7.10.19 allLegend

template
Default: `begin{table} caption[List of all deliverables and milestones]{List of all deliverables and milestones shown in Figure~ref{fig:completeGantt}} label{fig:allDelMSLegend} begin{multicols}{2} begin{compactitem} ${allDelLegend} ${allMSLegend} end{compactitem} end{multicols} end{table}`

dict
Default: `expanded`

file
Default: `True`

dir
Default: `gantts`

7.10.20 CompleteGanttFacingLegend

template
this is particularly useful for a double-sided printing layout chart is on a left page, Legend on a right page
Default: `cleardoubleevenstandardpage centeringmaxsizebox{0.95textwidth}{0.95textheight}{ ${ganttPrefix} \ ${allTaskDelMS} ${ganttPostfix} } % closes adjustbox captionof{figure}[Overall Gantt chart for the entire project, showing all tasks, deliverables, and milestones]{Overall Gantt chart for the entire project, showing all tasks, deliverables, and milestones (legend in Table~ref{fig:allDelMSLegend})} label{fig:completeGantt} clearpage captionof{table}[List of all deliverables and milestones]{List of all deliverables and milestones shown in Figure~ref{fig:completeGantt}} label{fig:allDelMSLegend} begin{multicols}{2} begin{compactitem} ${allDelLegend} ${allMSLegend} end{compactitem} end{multicols}`

file
Default: `True`

groupby

Default: wp

joiner

Default: n

7.10.23 WpDeliverables

the deliverable and milestone list per WP, along with more detailed description

template

Default: item textbf{\${id}}: \${Title} ifthenelse{boolean{WPTables-deliverablesWPshowDue}}{ hfill (M,\${Monthdue})}{} ifthenelse{boolean{WPTables-deliverablesWPshowTasks}}{ \ Contributing tasks: \${ProducingtaskString}}{} ifthenelse{boolean{WPTables-deliverablesWPshowPartners}}{ \ Contributing partners: \${ContributorString}}{} ifthenelse{boolean{WPTables-deliverablesWPshowDescription}}{ \ Brief description: \${Description}}{} }

list

Default: allDeliverables

groupby

Default: wp

joiner

Default: n

7.10.24 WpMilestones

template

Default: item textbf{\${id}}: \${Title} ifthenelse{boolean{WPTables-milestonesWPshowDue}}{ hfill (M,\${Monthdue})}{} ifthenelse{boolean{WPTables-milestonesWPshowTasks}}{ \ Contributing tasks: \${ProducingtaskString}}{} ifthenelse{boolean{WPTables-milestonesWPshowPartners}}{ \ Contributing partners: \${ContributorString}}{} ifthenelse{boolean{WPTables-milestonesWPshowDescription}}{ \ Brief description: \${Description}}{} }

list

Default: allMilestones

groupby

Default: wp

joiner

Default: n

7.10.25 Wp

template

Default: newpage noindent addcontentsline{toc}{subsubsection}{WP \${Number}: \${Shortname}}
 } \${tableheader} begin{framed} noindent textbf{Objectives of Workpackage \${Number}:} \${ob-
 jectives} end{framed} begin{framed} noindent textbf{Tasks of Workpackage \${Number}:} be-
 gin{compactdesc} \${WpTasks_\${Number}} end{compactdesc} {footnotesize emph{Lead partners are
 shown in bold.}} end{framed} begin{framed} noindent textbf{Description of Workpackage \${Num-
 ber}:} ifthenelse{boolean{WPTables-wpdescriptionShowsLeader}}{(workpackage leader: \${Leader-
 ship}}){} \${wpdescription} end{framed} \${WpTasksDescriptions_\${Number}} begin{framed} noindent
 textbf{Deliverables for Workpackage \${Number}:} begin{compactdesc} \${WpDeliverables_\${Number}}
 end{compactdesc} noindent textbf{Milestones for Workpackage \${Number}:} begin{compactdesc}
 \${WpMilestones_\${Number}} end{compactdesc} end{framed} % let us pull in the gantt chart for this
 WP directly here, % no need to use a separate file: \${ganttWP_\${Shortname}} }

list

Default: allWPDicts

dict

Default: expanded

numerator

Default: value['Shortname']

file

Default: True

dir

Default: wp

7.10.26 DeliverableTableRows

a table to summarize all the deliverables again: two steps: build the rows, and then the table

templateDefault: `#{id} & #{Title} & #{Monthdue} & #{Nature} & #{Dissemination} & #{ProducingtaskString}`**list**

Default: allDeliverables

joinerDefault: `\n`**sorter**

this sorts according to due date, and where the due date is the same, use deliverable id:

Default: `lambda x: '%03d' % x['Monthdue'] + x['id']`

7.10.27 DeliverableTableShort

if you just want to sort by id, then simply use: `sorter = lambda x: x['id']`

templateDefault: `begin{table}[hbt] caption{Summary of all deliverables (Nature: O=Other, P=Prototype, R=Report; Dissemination: PU=Public, RE=Restricted, CO=Confidential)} label{tab:deliverablessummary} begin{center} begin{tabular}{llp{0.4textwidth}lclclp{0.1textwidth}} toprule Number & Title & Due date & Nature & Diss. & Contributing task(s)\ midrule #{DeliverableTableRows} \ bottomrule end{tabular} end{center} end{table}`**dict**

Default: expanded

7.10.28 DeliverableTableLong

templateDefault: `topcaption{Summary of all deliverables} label{tab:deliverablessummary} tablefirsthead{ toprule Number & Title & Due date & Nature & Diss. & Contributing task(s)\ midrule } tablehead{toprule multicolumn{6}{r}{emph{Table~ref{tab:deliverablessummary} continues from previous page}} \ toprule Number & Title & Due date & Nature & Diss. & Contributing task(s)\ midrule } table-tail{bottomrule multicolumn{6}{r}{emph{Table~ref{tab:deliverablessummary} continues on next page}} \ bottomrule} tablelasttail{multicolumn{6}{r}{Table~ref{tab:deliverablessummary} ends} \ bottomrule} begin{center} begin{mpxtable}{llp{0.4textwidth}lclclp{0.1textwidth}} {#{DeliverableTableRows}} \ bottomrule end{mpxtable} end{center}`**dict**

Default: expanded

7.10.29 DeliverableTable

template

Default: `ifthenelse{boolean{LaTeX-useMultipageDeliverableTable}}{${DeliverableTableLong}}{${DeliverableTableShort}}`

dict

Default: `expanded`

file

Default: `True`

dir

Default: `tables`

7.10.30 MilestoneTableRows

and a table for the milestones - same structure as for the deliverable table

template

Default: `${id} & ${Title} & ${Monthdue} & ${Verificationmeans} & ${ProducingtaskString}`

list

Default: `allMilestones`

joiner

Default: `\n`

sorter

Default: `lambda x: '%03d' % x['Monthdue'] + x['id']`

7.10.31 MilestoneTableShort

template

Default: `begin{table}[hbt] caption{Summary of all milestones} label{tab:milestonessummary} begin{center} begin{tabular}{llp{0.3textwidth}lclp{0.3textwidth}lp{0.1textwidth}} toprule Number & Title & Due date & Means of verification & Contributing task(s) \midrule ${MilestoneTableRows} \bottomrule end{tabular} end{center} end{table}`

dict

Default: `expanded`

7.10.32 MilestoneTableLong

template

Default: `topcaption{Summary of all milestones} label{tab:milestonessummary} tablefirsthead{ toprule Number & Title & Due date & Means of verification & Contributing task(s) \midrule } tablehead{toprule multicolumn{5}{r}{\emph{Table~ref{tab:milestonessummary} continues from previous page}} \toprule Number & Title & Due date & Means of verification & Contributing task(s) \midrule } tabletail{\bottomrule multicolumn{5}{r}{\emph{Table~ref{tab:milestonessummary} continues on next page}} \bottomrule} tablelasttail{multicolumn{5}{r}{\emph{Table~ref{tab:milestonessummary} ends} \bottomrule} begin{center} begin{mpxatabular}{llp{0.3textwidth}lclp{0.3textwidth}lp{0.1textwidth}} ${MilestoneTableRows} \bottomrule end{mpxatabular} end{center}`

dict

Default: `expanded`

7.10.33 MilestoneTable

template

Default: `ifthenelse{boolean{LaTeX-useMultipageMilestoneTable}}{${MilestoneTableLong}}{${MilestoneTableShort}}`

dict

Default: `expanded`

file

Default: `True`

dir

Default: `tables`

7.10.34 summaryEffortRows

template

Default: `${Shortname} & %{\ ' & '.join([str(x['partnereffort'])['${Shortname}']) for x in allWPDicts]) %}
& %{\ str(sum([x['partnereffort'])['${Shortname}']) for x in allWPDicts])) %}`

list

Default: `partnerList`

joiner

Default: `\n`

7.10.35 summaryEffort

template

Default: `ifthenelse{boolean{Summaries-showEffortPartnerWPs}}{begin{table} caption{Summary of
all effort over all partners and workpackages} label{tab:summaryEffortperWP} begin{center} be-
gin{tabular}{1%{'c'*len(allWPDicts)%}r} toprule Partner & %{\ ' & '.join(['WP,%s' % x['Number']
for x in allWPDicts]) %} & Total \ midrule ${summaryEffortRows} \ midrule Total & %{\ ' & '
'join([x['wpeffort'] for x in allWPDicts]) %} & %{\ str(sum([int(x['wpeffort']) for x in allWPDicts]))
%} \ bottomrule end{tabular} end{center} end{table} }{ }`

dict

Default: `expanded`

file

Default: `True`

dir

Default: `tables`

7.10.36 effortPerTaskRows

template

Default: `${taskId} & ${Name} & {cellcolor[gray]{0.9} %{\ str(sum([int(e['resources']) for e in allEfforts
if e['task'] == '${Label}']) %} } & %{\ ' & '.join([((r'textbf{%s}' % e['resources']) if '${Leadpart-
ner}' == p['Shortname'] else (e['resources'] if int(e['resources']) > 0 else (r'{textcolor{%s}0}' % con-
fig.get('WPTables','colorInactivePartner')))) for p in partnerList for e in [ee for ee in allEfforts if ee['task']
== '${Label}' and ee['partner'] == p['Shortname']]) %}`

list = [t for t in allTasks if t['Main'] =

Default: `'True']`

groupby

Default: `wp`

joiner

Default: \hline n

7.10.37 effortPerTaskRowsWP**template**

Default: `\hline rowcolor[gray]{0.9} multicolumn{2}{ll}{cellcolor[gray]{0.9} textbf{WP ${Number}:}} & {% str(sum(${partnereffort}.values())) %} & {% ' & ' .join([r'textbf{%s}' % str(${partnereffort}[p['Shortname']]) if p['Shortname']=='${Leadership}' else str(${partnereffort}[p['Shortname']]) for p in partnerList]) %}`

list

Default: allWPDicts

joiner

Default: \hline hline n

dict

Default: expanded

7.10.38 effortHeader**template**

Default: `hline Task & Task name & Total PM & {% ' & ' .join([p['Shortname'] for p in partnerList]) %} \hline`

dict

Default: expanded

7.10.39 effortSum**template**

Default: `rowcolor[gray]{0.8} multicolumn{2}{ll}{cellcolor[gray]{0.8} textbf{Project total: }} & textbf{totalPM} & {% ' & ' .join([r'textbf{%s}' % str(sum([int(e['resources']) for e in allEfforts if e['partner']=='p['Shortname']])) for p in partnerList]) %}`

dict

Default: expanded

7.10.40 effortPerTaskTableShort**template**

Default: `ifthenelse{boolean{LaTeX-effortTableLandscape}}{begin{landscape}}{begin{table} caption{Effort per tasks and partners for entire project (in personmonths)} label{tab:effortPerTasks} begin{center} small begin{tabular}{clp{0.15textwidth}lc{% 'lc' * len(partnerList)%}} ${effortHeader} ${effortPerTaskRowsWP} \hline hline ${effortSum} \hline hline end{tabular} end{center} end{table} ifthenelse{boolean{LaTeX-effortTableLandscape}}{end{landscape}}{end{table}}}`

dict

Default: expanded

7.10.41 effortPerTaskTableMultipage**template**

Default: `ifthenelse{boolean{LaTeX-effortTableLandscape}}{begin{landscape}}{topcaption{Effort per tasks and partners for entire project (in personmonths)} la-`

```
bel{tab:effortPerTasks} tablefirsthead{ ${effortHeader} } tablehead{ toprule mul-
ticolumn{ ${str(3+len(partnerList))}% } {r} {emph{Table~ref{tab:effortPerTasks} con-
tinues from previous page}} \ ${effortHeader}} tabletail{bottomrule multicol-
umn{ ${str(3+len(partnerList))}% } {r} {emph{Table~ref{tab:effortPerTasks} continues on next page}} \
bottomrule} tablelasttail{ multicolumn{ ${str(3+len(partnerList))}% } {r} {emph{Table~ref{tab:effortPerTasks}
ends}} \ bottomrule} begin{center} begin{mpxtabular}{clp{0.15textwidth}|c%{' 'c' * len(partnerList)%}}
${effortPerTaskRowsWP} \ hline hline ${effortSum} \ hline hline end{mpxtabular} end{center}
ifthenelse{boolean{LaTeX-effortTableLandscape}}{end{landscape}}{}}
```

dict

Default: expanded

7.10.42 effortPerTaskTable

template

Default: ifthenelse{boolean{Summaries-showEffortPartnerTasks}} {ifthenelse{boolean{LaTeX-
useMultipageEffortTable}} {\${effortPerTaskTableMultipage}} {\${effortPerTaskTableShort}} {} }

dict

Default: expanded

file

Default: True

dir

Default: tables

7.10.43 piePMsPartners

pie charts a pie chart showing person months distributed over partners

template

Default: ifthenelse{boolean{Summaries-piePMsPartners}}{ begin{figure}[htbp] centering be-
gin{tikzpicture} pie[scale font]{ \${ utils.roundPie ([(x['Shortname'], sum([int(e['resources']) for
e in allEfforts if e['partner']==x['Shortname']])) for x in partnerList]) } } } end{tikzpicture} cap-
tion{Distribution of person months over partners (in percent)} label{fig:pie:pm:partner} end{figure}
} {} }

dict

Default: expanded

file

Default: True

dir

Default: pies

7.10.44 piePMsWPs

template

Default: ifthenelse{boolean{Summaries-piePMsWPs}}{ begin{figure}[htbp] centering be-
gin{tikzpicture} pie[scale font]{ \${ utils.roundPie ([('WP,%s: %s'%(x['Number'], x['Shortname']),
sum(x['partnereffort'].values())) for x in allWPDicts]) } } } end{tikzpicture} caption{Distribution of
person months over work packages (in percent)} label{fig:pie:pm:wp} end{figure} {} }

dict

Default: expanded

file

Default: True

dir

Default: pies

7.10.45 piePMsNations

pie chart over person months assigned to different nations a little bit more complicated: we need to pull out the (Nation/Effort) pairs. those we get from allEfforts, where we look up the nation in the partnerList that leaves us with many entries in the list with the same nation we add up those efforts by a mapReduce operation to which we pass a suitable reduce function: adding up two values

template

```
Default:  ifthenelse{boolean{Summaries-piePMsNations}}{ begin{figure}[htbp] centering be-
gin{tikzpicture} pie[scale font]{ %{ utils.roundPie(utils.mapReduce ([ (utils.searchListOfDicts(partnerList,
'Shortname', e['partner'], 'Nation'), int(e['resources']))) for e in allEfforts], lambda a,b: a+b)) %{ }
end{tikzpicture} caption{Distribution of person months over nations (in percent)} label{fig:pie:pm:nations}
end{figure} }{ }
```

dict

Default: expanded

file

Default: True

dir

Default: pies

7.10.46 piePMsPartnerTypes

same thing that worked for the nation pie charts works for the partner type pie charts as well

template

```
Default:  ifthenelse{boolean{Summaries-piePMsPartnerTypes}}{ begin{figure}[htbp] centering be-
gin{tikzpicture} pie[scale font]{ %{ utils.roundPie(utils.mapReduce ([ (utils.searchListOfDicts(partnerList,
'Shortname', e['partner'], 'Type'), int(e['resources']))) for e in allEfforts], lambda a,b: a+b))
%} } end{tikzpicture} caption{Distribution of partner types over nations (in percent)} la-
bel{fig:pie:pm:partnertype} end{figure} }{ }
```

dict

Default: expanded

file

Default: True

dir

Default: pies

7.11 Makefile

```
# .. code-block:: make
```

```
# where is the settings file?
```

```
SETTINGS = settings.cfg
```

```
# which flags to use? -v is verbose for all scripts
```

```
FLAGS = -v
```

```
### extract relevant path names from settings.cfg
```

```
PROJECTNAME = $(strip $(shell grep "projectName " ${SETTINGS} | cut -f 2 -d = ))
```

```
BINPATH = $(shell grep "binpath " ${SETTINGS} | cut -f 2 -d = )
WIKIPATH = $(shell grep "wikipath " ${SETTINGS} | cut -f 2 -d = )
XMLPATH = $(shell grep "xmlpath " ${SETTINGS} | cut -f 2 -d = )
LATEXPATH = $(strip $(shell grep "manuallatexpath " ${SETTINGS} | cut -f 2 -d = ))
GENERATEDLATEXPATH = $(shell grep "genlatexpath " ${SETTINGS} | cut -f 2 -d = )
LATEXLINKS = $(shell find ${LATEXPATH} -type l)

#####
.PHONY: proposal pdf clean pullproject xml latexFromWiki latexFromXML ensureSymbolicLinks fullcommit
#####

proposal:
    make pullproject
    make xml
    make latexFromWiki
    make latexFromXML
    make ensureSymbolicLinks
    make pdf

pullproject:
    cd ${BINPATH} ; python pullProject.py -s ../${SETTINGS} ${FLAGS}

xml:
    cd ${BINPATH} ; python generateXML.py -s ../${SETTINGS} ${FLAGS}

latexFromWiki:
    cd ${BINPATH} ; python latexFromWiki.py -s ../${SETTINGS} ${FLAGS}

latexFromXML:
    cd ${BINPATH} ; python latexFromXML.py -s ../${SETTINGS} ${FLAGS}

ensureSymbolicLinks:
    cd ${BINPATH} ; python ensureSymbolicLinks.py -s ../${SETTINGS} ${FLAGS}

pdf:
    cd ${LATEXPATH}; pdflatex main; bibtex main; pdflatex main; pdflatex main
    cp ${LATEXPATH}/main.pdf ${PROJECTNAME}.pdf

clean:
    find ${WIKIPATH} -type f -print | grep -v README | xargs rm
    find ${XMLPATH} -type f -print | grep -v README | xargs rm
    find ${GENERATEDLATEXPATH} -type f -print | grep -v README | xargs rm
    # remove empty symbolic links from latex path - this is debatable!
    cd ${LATEXPATH} ; rm -f main.aux main.lof main.log main.lot main.lox main.out main.toc ma
    for d in ${LATEXLINKS}; do test ! -e $$d && rm $$d ; done

fullcommit:
    make clean
    make proposal
    make clean
    cd docsources ; make install
    git commit -a -m "a full commit triggered by the makefile"
```

7.12 main.tex

TODO

```
\documentclass[a4paper,11pt,twoside]{scrreprt}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% packages were the user might want to configure a few things:

% should there be space for page headings in the page layout?
\usepackage{fullpage}
% \usepackage[headings]{fullpage}

%% KOMA Options (for details and further options, look into the KOMA
%% documentation)
% should there be horizontal lines in header and footer?
% \KOMAOptions{headsepline=true,footsepline=true}

% should there be standard headings?
%\KOMAOptions{headings=normal}

% how should fixme's be displayed?
\usepackage[inline,nomargin,draft]{fixme}

% to display the commission hints:
\newcommand{\commissionhints}[1]{\small \textit{#1}}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% packages that are needed or highly advisable,
% but which should not needed any configuration

\usepackage[utf8]{inputenc}

\usepackage{checkend}
\usepackage{varioref}
\usepackage{subfigure}
\usepackage{hyperref}
\usepackage{booktabs}
\usepackage{xtab}
\usepackage{tabularx}
\usepackage{adjustbox}
\usepackage{capt-of}
\usepackage{acronym}

\usepackage{pdflscape}
\newlength\landscapewidth
\newlength\landscapeheight

\usepackage{multicol}

\usepackage[table]{xcolor}
\usepackage[alwaysadjust]{paralist}
\usepackage{url}
\usepackage{calc}
\usepackage{ifthen}
\usepackage{tikz}
\usepackage{styles/pgf-pie}

\usepackage{framed}
\usepackage{comment}
```

```
\usepackage{mathptmx}
\usepackage[scaled=.90]{helvet}
\usepackage{courier}

\usepackage{textcomp}           %for euro symbol

\usepackage{graphicx}
\graphicspath{{Figures/}{figures/}}

%% make sure to use the pgfgantt file from the SVN!
\usepackage{styles/pgfgantt}

%% Needed to redefine bibliography environment to get rid of the
%% chapter heading
\usepackage{styles/bibhack}

%% to get references to WPs and tasks
\newcounter{wpcounter}
\newcounter{taskcounter}[wpcounter]

%% to get references to the deliverables
\makeatletter
\newcommand{\labitem}[2]{%
\def\@itemlabel{\textbf{#1}:}
\item
\def\@currentlabel{#1}\label{#2}}
\makeatother

% compact bibliography:
\let\oldbibliography\thebibliography
\renewcommand{\thebibliography}[1]{%
\oldbibliography{#1}%
\setlength{\itemsep}{0pt}%
}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% import all the settings that result from switches in settings.cfg
\input{settings}

% how deeply should headings be numbered?
\setcounter{secnumdepth}{\secNumDepth}

% to what level should the table of content display sections?
\setcounter{tocdepth}{\tocLevel}

%%
% compact lists options
% TODO: check whether this works before loading the package?
\setlength{\pltopsep}{0.5ex}
\setlength{\plitemsep}{0.25ex}

\begin{document}

\setlength\landscapewidth{\textheight}
\setlength\landscapeheight{\textwidth+2\headsep}
```

```

\pagenumbering{roman}
\thispagestyle{empty}
\input{titlepage}

\newpage
\noindent \textbf{Proposal Abstract}
\addcontentsline{toc}{chapter}{\numberline{}Abstract}
\par\medskip\noindent
\input{../generated/latex/ProposalAbstract}

{\small\tableofcontents
\ifthenelse{\boolean{LaTeX-showListOfTables}}{
  \listoftables
  \addcontentsline{toc}{chapter}{\numberline{}List of Tables}
}{}
\ifthenelse{\boolean{LaTeX-showListOfFigures}}{
  \listoffigures
  \addcontentsline{toc}{chapter}{\numberline{}List of Figures}
}{}
\ifthenelse{\boolean{LaTeX-showAcronymList}}{
  \input{AcronymsList}}{}
}

\ifthenelse{\boolean{LaTeX-showWarnings}}{
\listoffixmes
\IfFileExists{warnings.tex}{
  \begin{compactitem}
    \input{warnings}
  \end{compactitem}}{No warnings found!}
}{\renewcommand{\fxnote}[1]{}
\renewcommand{\fxwarning}[1]{}
\renewcommand{\fxerror}[1]{}
\renewcommand{\fxfatal}[1]{}
}

\cleardoublepage
\setcounter{part}{2}% part B

\chapter{Scientific and Technical Quality}
\label{chap:quality}
\pagenumbering{arabic}
\commissionhints{Maximum length for the whole of Section 1
-- twenty pages, not including the tables in Section 1.3}

\input{ConceptAndObjectives}

\input{ProgressBeyondStateoftheArt}

\input{MethodologyWorkplan}

\input{WorkPlanning}

```

```

\input{figures/tables/wpsummarytable}

%% a little demo to include all gantt charts, likely not useful!
% \input{figures/gantts/demoGantts}

% long Gantt charts might be best put on two pages, left the chart,
% right the legend:
%\input{figures/gantts/CompleteGanttFacingLegend}

% smaller Gantt chart and legend might be nicely put in
% standard floating environments
\input{figures/gantts/CompleteGantt}
\input{figures/gantts/allLegend}

% %%%

\input{DeliverableList}

% \input{tables/alldeliverableTable}

\subsection{Work Packages}
\label{sec:workpackages}
\input{wp/wpIncluder}

\clearpage
\input{figures/tables/summaryEffort}
\input{figures/tables/effortPerTaskTable}


\chapter{Implementation}
\label{chap:implementation}


\input{ManagementStructureAndProcedures}


\section{Individual Participants}
\label{sec:partners}
\commissionhints{ For each participant in the proposed project, provide a brief description of the
organisation, the main tasks they have been attributed, and the previous experience
relevant to those tasks. Provide also a short profile of the staff members who will be
undertaking the work.
\\
Maximum length for Section 2.2: one page per participant. However, where two or more departments v
The maximum length applying to a legal entity composed of several members, each of which is a sep
}

\input{partners/partnersIncluder}

\input{ConsortiumAsaWhole}

\input{SubContracting}

```

```

\input{OtherCountries}

\input{AdditionalPartners}

\input{ResourcesToBeCommitted}

%%%%%%%%

\input{figures/pies/piePMsWPs}
\input{figures/pies/piePMsPartners}
\input{figures/pies/piePMsNations}
\input{figures/pies/piePMsPartnerTypes}

% can't do contribs yet, needs spreadsheet input
% \ifthenelse{\boolean{Summaries-pieContribPerPartner}}{
% \begin{figure}[htbp]
% \centering
% \input{wp/contribPartner}
% \caption{Distribution of EU contribution over partners (in percent)}
% \label{fig:contrib:pie:partner}
% \end{figure}
% }{}

% \ifthenelse{\boolean{Summaries-pieContribPerPartnerType}}{
% \begin{figure}[htbp]
% \centering
% \input{wp/contribType}
% \caption{Distribution of EU contribution over partner kinds (in percent)}
% \label{fig:contrib:pie:kind}
% \end{figure}
% }{}

% \ifthenelse{\boolean{Summaries-pieContribPerNation}}{
% \begin{figure}[htbp]
% \centering
% \input{wp/contribNation}
% \caption{Distribution of EU contribution over partner nations (in percent)}
% \label{fig:contrib:pie:nation}
% \end{figure}
% }{}

\chapter{Impact}\label{chap:impact}
\commissionhints{Recommended length for the whole of Section 3 --- ten
pages}

\input{ExpectedImpact}

\input{DisseminationExploitation}

\chapter{Ethical Issues}\label{chap:ethical}
\commissionhints{ %
Describe any ethical issues that may arise in the project. In particular, you should
explain the benefit and burden of the experiments and the effects it may have on the
research subject. Identify the countries where research will be undertaken and which
ethical committees and regulatory organisations will need to be approached during the
life of the project.

```

\\

Include the Ethical issues table below. If you indicate YES to any issue, please identify the pages in the proposal where this ethical issue is described. Answering 'YES' to some of these boxes does not automatically lead to an ethical review¹. It enables the independent experts to decide if an ethical review is required. If you are sure that none of the issues apply to your proposal, simply tick the YES box in the last row.

\\

In particular: Data protection issues: Avoid the unnecessary collection and use of personal data. Identify the source of the data, describing whether it is collected as part of the research or is previously collected data being used. Consider issues of informed consent for any data being used. Describe how personal identify of the data is protected. Data protection issues require authorisation from the national data protection authorities.

}

\begin{small}

\begin{tabular}{|p{1em}p{11cm}|l|l|}\hline

% \multicolumn{2}{|l|}{\cellcolor{lightgray}{\strut}} &

\multicolumn{2}{|l|}{\strut} &

{YES} &

% \cellcolor{lightgray}{PAGE}\\\hline

{PAGE}\\\hline

\multicolumn{2}{|l|}{\bf{Informed Consent}} & & \\\hline

& Does the proposal involve children? & & \\\hline

& Does the proposal involve patients or persons not able to give consent? & & \\\hline

& Does the proposal involve adult healthy volunteers? & & \\\hline

& Does the proposal involve Human Genetic Material? & & \\\hline

& Does the proposal involve Human biological samples? & & \\\hline

& Does the proposal involve Human data collection? & & \\\hline

\multicolumn{2}{|l|}{\bf{Research on Human embryo/foetus}} & & \\\hline

& Does the proposal involve Human Embryos? & & \\\hline

& Does the proposal involve Human Foetal Tissue / Cells? & & \\\hline

& Does the proposal involve Human Embryonic Stem Cells? & & \\\hline

\multicolumn{2}{|l|}{\bf{Privacy}} & & \\\hline

& Does the proposal involve processing of genetic information
or personal data (eg. health, sexual lifestyle, ethnicity,
political opinion, religious or philosophical conviction) & & \\\hline

& Does the proposal involve tracking the location or observation
of people? & & \\\hline

\multicolumn{2}{|l|}{\bf{Research on Animals}} & & \\\hline

& Does the proposal involve research on animals? & & \\\hline

& Are those animals transgenic small laboratory animals? & & \\\hline

& Are those animals transgenic farm animals? & & \\\hline

& Are those animals cloned farm animals? & & \\\hline

& Are those animals non-human primates? & & \\\hline

\multicolumn{2}{|l|}{\bf{Research Involving Developing Countries}} & & \\\hline

& Use of local resources (genetic, animal, plant etc) & & \\\hline

& Benefit to local community (capacity building
i.e. access to healthcare, education etc) & & \\\hline

\multicolumn{2}{|l|}{\bf{Dual Use}} & & \\\hline

& Research having direct military application & & \\\hline

& Research having the potential for terrorist abuse & & \\\hline

\multicolumn{2}{|l|}{\bf{ICT Implants}} & & \\\hline

& Does the proposal involve clinical trials of ICT implants? & & \\\hline

\multicolumn{2}{|l|}{\bf{footnotesize{I CONFIRM THAT NONE OF THE ABOVE ISSUES APPLY TO MY PROPOSAL}} & & \\\hline

& \textbf{X} & & \\\hline

\end{tabular}

\end{small}

\appendix

\chapter{References}

```
\begin{footnotesize}  
  \bibliographystyle{savetrees}  
  \bibliography{bibinfo}  
\end{footnotesize}  
  
\end{document}
```


INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

PYTHON MODULE INDEX

e

`ensureSymbolicLinks`, 36

l

`latexFromWiki`, 30

`latexFromXML`, 30

p

`pullProject`, 28

s

`settings`, 36

u

`utils`, 37

w

`wikiParser`, 29

INDEX

A

allWPDicts (in module latexFromXML), 30
analyzeTree() (in module latexFromXML), 30

C

computeStatistics() (in module latexFromXML), 30
constructLabel() (wikiParser.wikiParser method), 29
createLinks() (in module ensureSymbolicLinks), 36

D

dictAsRest() (in module utils), 37
docuDict() (in module utils), 37

E

ensureDirectories() (in module pullProject), 28
ensureSymbolicLinks (module), 36

F

fixProducingTask() (in module latexFromXML), 30

G

getLaTeX() (wikiParser.wikiParser method), 29
getList() (wikiParser.wikiParser method), 29
getListAsDict() (wikiParser.wikiParser method), 29
getPartners() (in module pullProject), 28
getProposalStructure() (in module pullProject), 28
getSection() (wikiParser.wikiParser method), 29
getSection() (wikiParser.wikiParserMoinmoin method), 29
getSection() (wikiParser.wikiParserTwiki method), 30
getSettings() (in module settings), 36
getTable() (wikiParser.wikiParser method), 29
getWorkpackages() (in module pullProject), 29

H

handleFile() (in module latexFromWiki), 30

L

latexFromWiki (module), 30
latexFromXML (module), 30
latexTemplates.cfg
 allDelLegend, 48
 allLegend, 49
 allMSLegend, 48
 allTaskDelMS, 48

allTaskDelMSList, 48
CompleteGantt, 49
CompleteGanttFacingLegend, 49
DeliverableTable, 52
DeliverableTableLong, 52
DeliverableTableRows, 52
DeliverableTableShort, 52
effortHeader, 55
effortPerTaskRows, 54
effortPerTaskRowsWP, 55
effortPerTaskTable, 56
effortPerTaskTableMultipage, 55
effortPerTaskTableShort, 55
effortSum, 55
ganttPostfix, 45
ganttPrefix, 45
ganttWP, 47
ganttWPLegend, 47
MilestoneTable, 53
MilestoneTableLong, 53
MilestoneTableRows, 53
MilestoneTableShort, 53
partnerTableRow, 44
piePMsNations, 57
piePMsPartners, 56
piePMsPartnerTypes, 57
piePMsWPs, 56
summaryEffort, 54
summaryEffortRows, 54
titleheader, 44
titlepage, 44
Wp, 51
WpDeliverables, 51
WpDeliverablesShow, 47
WpDeliverablesUncompressedShow, 46
WpMilestones, 51
WpMilestonesShow, 46
WpMilestonesUncompressedShow, 46
wpSummaryRows, 45
wpsummarytable, 45
WpTasks, 50
WpTasksDescriptions, 50

localHeading() (wikiParser.wikiParserTwiki method), 30

M

`moveCommissionHints()` (wikiParser.wikiParser method), 29

P

`produceUncompressedGantt()` (in module `latexFromXML`), 30

`pullProject` (module), 28

R

`recursiveTemplate` (class in `latexFromXML`), 30

`roundPie()` (in module `utils`), 37

S

`searchListOfDicts()` (in module `utils`), 37

`settings` (module), 36

`settings.cfg`, 10

`CustomLaTeX`, 43

`Gantt`s, 39

`LaTeX`, 43

`Participants`, 42

`PathNames`, 38

`Summaries`, 40

`Wiki`, 8, 37

`WPTables`, 41

T

`titlepageDict` (in module `latexFromXML`), 30

`treeReduce()` (in module `utils`), 37

U

`utils` (module), 37

W

`wikiParser` (class in `wikiParser`), 29

`wikiParser` (module), 29

`wikiParserFactory()` (in module `wikiParser`), 29

`wikiParserMoinmoin` (class in `wikiParser`), 29

`wikiParserTwiki` (class in `wikiParser`), 30

`writefile()` (in module `utils`), 37

`writeTemplateResult()` (in module `latexFromXML`), 30