



LetsMT!

Platform for Online Sharing of Training Data and Building User Tailored MT www.letsmt.eu Project No. 250456

> Deliverable D1.7 Elaborated LetsMT! platform deployed

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EXECUTIVE SUMMARY

The LetsMT! platform has been specified, designed, implemented, elaborated and deployed. The released version is available at the following URL: <u>http://letsmt.eu</u>. This document provides a description of the platform, description of the main features from the user perspective and summary conclusions.



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Abbreviations

| Abbreviation | Term/definition |
|--------------|---|
| API | Application programming interface. |
| CAT | Computer aided translation. |
| DoW | LetsMT! Project Description of Work. |
| MT | Machine translation. |
| SMT | Statistical machine translation system. |
| TMX | Translation Memory eXchange format. |
| WP | Work package of LetsMT! project – corresponding to the Description of Work. |
| Corpora | Non-downloadable SMT training data uploaded to the Resource Repository |



Let's MT!

1 General description

The LetsMT! platform is developed according to Task 1.3 and Task 1.4 of the DoW. It provides integration of the key LetsMT! modules:

- Facilities for sharing of SMT training data;
- Facilities for training and running of SMT engines;
- Facilities for use in a news translation scenario;
- Facilities for use in a localization usage scenario.

Supporting software infrastructure has also been developed and deployed providing mechanisms for user registration, authentication and access rights management and control, as well as a Web page is provided for text translation.

Current implementation of the LetsMT! platform is based on the following project deliverables:

- D1.3 Hardware infrastructure;
- D1.6 Revised functional specification;
- D2.1 Specification of data formats allowed;
- D2.2 SMT resource repository and data processing facilities ready for integration;
- D3.3 SMT training facilities ready for integration;
- D3.4 SMT web service ready for integration;
- D3.5 SMT Multi-Model Repository ready for integration.

The LetsMT! platform is deployed on Amazon Cloud Services (AWS) and uses the following AWS services:

- Amazon Elastic Compute Cloud (Amazon EC2) provides environment of virtual computers (instances) with resizable computing capacity and variety of operating systems;
- Amazon Elastic Block Storage (Amazon EBS) provides network-attached persistent storage to Amazon EC2 instances;
- Amazon Simple Storage Service (Amazon S3) provides a highly durable storage designed for mission-critical data storage.

LetsMT! platform is deployed and is available at the following URL: <u>http://letsmt.eu</u>.

Development and deployment of LetsMT! platform was organized in 2 major steps – first publicly available LetsMT! platform beta version was deployed on M17 (see deliverable "D1.4 LetsMT! platform deployed") and second, elaborated version of LetsMT! platform was deployed on M24. Description of latest release of LetsMT! functionality from user perspective is summarized in this deliverable.

The latest version of the LetsMT! platform is ready for users to upload MT training data, train custom SMT systems, and use these systems for translation needs.

2 Main functionality of the LetsMT! platform

This section provides a short description of the main features implemented in the latest version of the LetsMT! platform. This description is provided from the user's perspective to guide the user in trying the respective functionality. More detailed description of the functionality (including technical) can be found in other LetsMT! deliverables – system specification documents



(deliverables D1.6 "Revised functional specification", "D1.3 Hardware infrastructure", "D2.1 Specification of data formats allowed", "D2.2 SMT resource repository and data processing facilities ready for integration", "D3.3 SMT training facilities ready for integration", "D3.4 SMT web service ready for integration", "D3.5 SMT Multi-Model Repository ready for integration").

2.1 User authentication

To log in to the LetsMT! platform, click the Login hyperlink at the top of the LetsMT! webpage. Type user name/password and click Sign In.

| | Sign up | Cancel |
|----------|-----------------|--------|
| User | | |
| Password | | |
| | Sign In | |
| | Figure 1, Login | |

For the details on how to get login credentials and apply for using the current version of the LetsMT! platform, please read <u>https://letsmt.eu/Default.aspx?section=register</u>.

2.2 Work with corpora

2.2.1 Browse corpora

To access the corpora list, click Corpora at the top of the LetsMT! webpage.

| let's MT! | Systems (| Corpora Translate Tools About Welcome, Tildes | lietotājs! | Sign Out |
|--|--|---|------------|-------------|
| | | Work in Tilde | | |
| Corpora This is a list of public and your priv | ate corpora. Uplo | ad corpora here before creating a SMT system. | Upl | oad corpus |
| 🛛 Subject Domain 🛛 🗖 | anguages | - | | |
| - select - | elect - | V - add filter - | | |
| Al Name / Title | Subject Domain | Description | Size | Permissions |
| Andrejs demo corpus | Other | Small Cubes and Cones demo corpus | <1k | Private |
| Assistive Technology Filtered | Biotechnology and health | Assistive domain texts filtered out of other domain corpora | <1k | Private |
| Assistive Technology Terms NEW | Other | Reprocessed | 37.9k | Private |
| • Assistive Technology Terms | Biotechnology and health | Assistive Technology Terms | 37.9k | Private |
| Assistive Technology | Biotechnology and health | Assistive Technology | 8.8k | Private |
| Balanced | Other | ACCURAT balanced evaluation set | 1.5k | Private |
| Balanced | Other | ACCURAT balanced development set | Зk | Private |
| Book MT 2 | Other | | 1.2M | Private |
| Book MT | Other | | 0.7M | Private |
| Croatia Weekly News (1998-2000) | Other | Croatian-English Parallel Corpus is a newspaper corpus collected from texts published in Croatia Weekly between 1998 and 2000. It encompasess different domains such as politics (inner and foreign) - economy and finances - culture - sports - turism - education etc. | 62.4k | Public |
| Cubes and Cones | Other | A small demo corpus in English and Swedish (original). | <1k | Public |
| CZ_EN_Subtitles | Other | Czech and English subtitles | 0.3M | Public |
| CzEng_techdoc | Information technology and data processing | Czech-English technical documentation. Free for non-commercial purposes only | 3.2M | Public |
| DGT-TM (Acquis Communautaire) | Law | The DGT Multilingual Translation Memory of the Acquis Communautaire. From source TMXes. | | Public |
| | | | | |

Figure 2. Corpora list



- The corpora list contains all Public corpora and those Private corpora (by default) with an authenticated user as the owner. If the site visitor does not have authorization, only the list of available public corpora will be displayed;
- To sort the corpora list, please click table headings;

ICTPSP

Z↓Name / Title

Figure 3. Sorting corpora list

• To filter the corpora list, use the dynamic filters provided at the top of the corpora list. First, select a filter and then select a value in the filter box. The use of filters is summarized in the following two screenshots.



| Corpora | |
|---|---|
| This is a list of public and your private corpora | . Upload corpora here before creating a SMT system |
| 🍸 Subject Domain 🛛 📼 | |
| - select - 💌 🍸 - add filter | • |
| - select - Biotechnology and health | main 🖞 Description |
| Business Finance | 500k setntences. First part of MT4/mt-train. |
| Information technology and data processing Law | A collection of documents from http://www |
| Other Other (0105) | A parallel corpus collected from the Europea from OPUS. |



• In the corpora list, a status icon for each corpus is displayed. If the icon is green, the processing of corpus files is successfully completed and the corpus is ready to be used for SMT system training. If the icon is yellow, the processing of files is still in progress, and if the icon is red – an error has occurred during data import.

2.2.2 Upload corpora

Click the Upload corpus button at the right top of the corpora list.



| Let's MT! | Systems Corpora | Translate Tools About Administration Welcome, Tildes lietotājs! Sign Out Work in Tilde |
|-------------------------------------|-----------------|--|
| Corpora \ New corpus Name / Title * | | Upload text data files |
| Corpus Type * -select- | • | Add file |
| Description * | | You may upload files in the following formats: TMX (may include several languages; will be detected automatically) XLIFF (may include several languages; will be detected automatically) |
| Subject Domain * -select- | ¥ | File archive with Moses-format files * (must be compressed as zip or tgz) PDF (only one language per file) |
| Text Type * -select- | ¥ | DOC (only one language per file) TXT (only one language per file) |
| Permissions * -select- | • | You may upload multiple files of the same type and language at once archived (tar) or compressed as zip or tgz. |
| -add field- | • | Files with the same name part but different languages (indicated after upload in uploaded files box) will be automatically aligned to form a parallel corpus. Files may be of different types. |
| Create Cancel | | You may also upload multiple files in multiple languages as a folder structure (except Moses file archive*). Name folders using two-symbol language codes (e.g. "en", "it") and put text files of the same type in them. Archive or compress folder structure as tar, zip or tgz for uploading. |
| | | The upload limit currently is 2GB per file. You may compress source files to reduce the size. If you have larger files, please contact our support team and we'll try to help you. |
| | | * File archive with Moses-format files may not contain folder structure. All files must be placed in root of the archive and named with language code in file extension part (e.g. "IP-00-20.en", "IP-00-20.de"). Files with the same name part but different language codes in extension will be aligned as parallel corpora. |

Figure 6. Upload corpora webpage

In the metadata editor of a new corpus, fill the metadata fields and upload corpus training data files. Additional corpus metadata fields can be added by using the -add field- combo-box. Metadata fields that are already in use will be greyed out and will not be available for selection.

The following considerations are important for uploading the training data file:

- You can upload files in the following formats:
 - TMX (may include several languages; will be detected automatically)
 - XLIFF (may include several languages; will be detected automatically)
 - File archives with Moses-format files * (must be compressed as zip or tgz)
 - PDF (only one language per file)
 - DOC (only one language per file)
 - TXT (only one language per file)
- You can upload multiple files of the same type and language at a time, archived (tar) or compressed as zip or tgz.
- Files with the same name part but different languages (indicated after upload in the uploaded files box) will be automatically aligned to form a parallel corpus. They may be files of different types.
- You can also upload multiple files in multiple languages as a folder structure (except a Moses file archive*). Name the folders using two-character language codes (e.g., "en", "it") and put the files of the same type in the folders. Archive or compress the folder structure as tar, zip or tgz for uploading.
- The upload limit currently is 2 GB per file. You may compress source files to reduce the size. If you have larger files, please contact our support team and we'll try to help you.

When all metadata fields are filled and the training data files have been uploaded, the final step is to click the Create button.

2.2.3 View information about corpora

In the corpora list, click the corpus name. A short summary describing the corpora will be displayed.

| European Parliament Proceedings (v6) | Law | European Parliament Proceedings Parallel Corpus 1996-2009 (version 6) | 0 | Public |
|--|-----|--|---|--------|
| File status: Ready Status: updated Languages: en, et, lt, lv Language Pairs: en-et, en-lt, en-lv Corpus Type: Parallel | | Text Type: Software Strings and documentation (TDA) Provider: tilde Date Created: 2011.08.23 14:06:39 Date Modified: 2011.08.23 14:06:39 Date Accessed: 2011.08.23 14:06:39 Owner (user): tilde | | |
| Details Edit | | | | |
| | | | | |

Figure 7. Corpora details (summary)

More detailed view of corpora information is available by clicking Details.

| Cor | | | | | | | | | | | 5) | (uc | can | 5 | | | | | |
|--|---|--|--|--|--|--|---|--|--|--|--|--|---|---|--------------------------|-------------------------|-----------------------|-------------------|-------------------------------|
| Meta | data | | | | | | | | | | | | | | | | | | |
| Brann Date Date Desc Subji File Own impo Date Own Perm Reso Slot / Statu Text Nam Corp User Lang Lang | ch Nar Acces Creat riptior ect Do er (gru- rt_quu Modi ission: ission: t/ Id IS Type e / Titl ID uages uage it | me sed mai oup eue fied er) s ype e e e Pair | d : ain : d : rs : | tilde 2012.: A par Law en-pl public 2012.: tilde 2012.: Create Policie Europ Parall tilde en, es en-es, | 02.09 (02.07 allel cc tmx.g; e x.gz, ei 02.09 (: h 53f52- ed es, Pro bean C el ; en-et | 07:34: 14:42: orpus z,en-it n-nl.tr 07:34: 64cc-4 cess a onstit , en-fi | 36 55 collect mx.gz,o 36 2b5-8 nd Prc ution I a, hu, , en-fr | ed froi iz,en-lt en-fi.tn 1f0-6df ocedure (OPUS) it, lt, h ;, en-ga | m the l .tmx.g: 1x.gz,e 998971 25 7, mt, 1 1, en-h | Europ z,en-s n-sv.1 bea0 nl, pl, u, en | pean sl.tmx. <u>c</u> tmx. <u>c</u> -it, ei | Cons c.gz,e gz,en: sk, sl, n-lt, e | titutii n-mt. lv.tm sv en-lv, | on (2 .tmx.s x.gz,e | 1 lang gz,en en-sk | guagi -hu.t tmx.i | es). lı mx.g gz | mpor z,en- | ted 1 es.tn |
| ing | uage o | colle | lectio | ons | 200 00 | ntone | or tot | | llal cou | unt: 4 | 16 | | | | | | | | |
| Utdl | udidi | el S | SIZE. | 1004 | 200 58 | nteric | es, tot | ar para | | unit. 1 | 10. | | | | | | | | |
| | Mond | | en_ | lt_ | mt | sk | 1 tr_ | l et_ | I II | es | l Iv | nL | ga | fi_ | pt_ | SV_ | pL | s | hu |
| en | Mono 0.2M | | en | It 10.2k | mt 10.1k | sk 10.1 | tr k 10.1 | et k 10.1k | 10.1k | es 10k | 10k | nl 10k | ga 10k | fi 10k | pt 10k | sv 10k | pl 9.9k | sl 8.8k | hu 8.7 |
| en It | Mond 0.2M 10.2k | 10 10 | en 0.2k | lt 10.2k | mt 10.1k | sk 10.1 | tr k 10.1 | et k 10.1k | : 10.1k | es 10k | 10k | nl 10k | ga 10k | fi 10k | pt 10k | sv 10k | pl 9.9k | sl 8.8k | hu 8.7 |
| en It mt sk | Mono 0.2M 10.2k 10.1k | 10 10 10 10 | en 0.2k 0.1k 0.1k | lt 10.2k | mt 10.1k | sk 10.11 | tr k 10.1 | k 10.1k | 10.1k | es 10k | lv 10k | nl 10k | ga 10k | fi 10k | pt 10k | sv 10k | pl 9.9k | sl 8.8k | hu 8.7 |
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| en It mt sk fr et it es Iv nl ga fi pt sv pl sl | Mond 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 10k 10k 1 | 10 10 10 10 10 10 10 10 10 10 11 11 11 11 12 11 13 12 14 12 15 12 16 12 17 12 18 12 19 9 9 9 | en 0.2k 0.1k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 10k 10k 2.9k | lt 10.2k | mt 10.1k | sk 10.11 | tr k 10.11 | et 10.1k | 10.1k | es 10k | | nl 10k | ga 10k | | pt 10k | | 9.9k | sl : 8.8k | hu 8.71 |
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| en It mt sk fr et it es Iv nl ga fi pt sv pl sl hu mpo File • en | Mond 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 8.8k 8.8k 8.8k 8.7k rted f | x.g2 | en 0.2k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 3.8k 3.7k 5. 2 3.2 | | mt 10.1k | sk 10.11 | | | T T T | es 10k | of file | e | ga 10k | tus | | | pl 9.9k | si 8.8k | hu 8.7 ¹ |
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| en It sk fr et it es Iv nl ga fi pt sv pl sl hu mpo File en e en e en | Monc 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 8.8k 8.7k rted f | 2 10 10 10 10 10 10 10 10 10 10 | en 0.2k 0.1k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 10k 10k 3.8k 3.7k 3.7k 2 2 2 2 2 2 2 2 | | mt 10.1k | sk 10.11 | | | | es 10k | of file ile ile | e | ga 10k | tus | | | | si 8.8k | hu 8.71 |
| en It mt sk fr et it lv nl ga fi yt sv pl sl hu mpo File en en en en en en | Monc 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 10k 10k 1 | 2 10 100 100 100 100 100 100 100 | en 0.2k 0.1k 0.1k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 10k 10k 3.8k 3.7k 2 3.7k 2 3.7k 3.7 | It 10.2k | mt 10.1k | sk 10.11 | | | | es 10k | of file ile ile ile | e | ga 10k | tus | | | | si 8.8k | hu 8.71 |
| en It mt sk fr et it es Iv nl ga fi yt sv pl sl hu Impo File en e en e en e en e en e en e en | Mond 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 10k 10k 1 | 2 10 1 10 | en 0.2k 0.1k 0.1k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 10k 10k 10k 3.8k 3.7k 2 2 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | It 10.2k | mt 10.1k | sk 10.11 | | | | ype of MX from X | of file ile ile ile ile | e | ga 10k | tus tus toortee oortee | pt 10k | | | | hu 8.7 |
| en It mt sk fr et it es Iv nl ga fi yt sv pl sl hu Impo File en en en en en en en en en en en en en | Monc 0.2M 10.2k 10.1k 10.1k 10.1k 10.1k 10.1k 10k 10k 10k 10k 10k 10k 10k 10k 10k 1 | 100 100 100 100 100 100 100 100 | en 0.2k 0.1k 0.1k 0.1k 0.1k 0.1k 0.1k 10k 10k 10k 10k 10k 10k 10k 10k 3.8k 3.7k 2 3.7k 2 3.7k 2 3.7k 3.7k | | mt 10.1k | sk 10.11 | | | | ype of MX f | of file ile ile ile ile ile | e | ga 10k | tus tus toortec oortec | | sv 10k | | | hu 8.71 |

Figure 8. Corpora details (detailed view)



It takes time to process data files in the Resource Repository. The platform user can use corpora for SMT systems training only when all uploaded data files are processed and stored in internal Resource Repository data format. LetsMT! platform user can view the status summary of the processed corpora files in the corpora details view – the Imported files section. In this section, all corpora files are listed in a table; the processed files are marked with green icon, the files under processing are marked with yellow icon. If an error has occurred during data processing, a red icon is displayed.

| Imported files | | |
|-------------------------|--------------|------------|
| File | Type of file | Status |
| • 2lt-lt.tmx | TMX file | Error |
| ⊖ tiny.tmx | TMX file | Importing. |
| tiny-cubecone-en-sv.tmx | TMX file | Imported |
| | | |

Figure 9 List of corpora files with status summary

2.2.4 Edit corpus metadata/Delete corpus

In the corpora list, click the corpus name and then click Edit.

| • DGT-TM (Acquis Communautaire) Legislation The DGT Multilingual Translation Memory of the Acquis Communautaire. From source TMXes. 0 Private File status: Ready Status: updated Source language: English Provider. tilde Source language: English Provider. tilde Date Created: 2011.10.03 11:12:56 Date Modified: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Owner (user): tilde Date Created: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Date Created: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Details Edit Edit Edit Edit | | | - | |
|--|---|---|---|---------|
| File status: Ready Source language: English Status: updated Provider: tilde Languages: bg, cs, da, de, el, en, es, et, fi, fr, hu, it, lv, mit, nl, pl, pt, ro, sk, sl, sv Date Greated: 2011.10.03 11:12:56 Language Pairs: Dg-en, cs-en, da-en, de-en, el-en, en-e, en-e, en-e, en-e, en-e, en-ni, en-rp, en-ni, en-rp, en-sk, en-sl, en-sv Date Modified: 2011.10.03 11:12:56 Corpus Type: Parallel Details | DGT-TM (Acquis Communautaire) Legislation | The DGT Multilingual Translation Memory of the Acquis Communautaire. From source TMXes. | 0 | Private |
| | File status: Ready Status: updated Languages: bg, cs, da, de, el, en, es, et, fi, fr, hu, it, lt, ly, mt, nl, pl, pt, ro, sk, sl, sv Language Pairs: bg-en, cs-en, da-en, de-en, el-en, en- es, en-et, en-fi, en-fr, en-hu, en-it, en-lt, en-lv, en-mt, en-nl, en-pl, en-pt, en-ro, en-sk, en-sl, en-sv Corpus Type: Parallel Details Edit | Source language: English Provider: tilde Date Created: 2011.10.03 11:12:56 Date Modified: 2011.10.03 11:12:56 Date Accessed: 2011.10.03 11:12:56 Owner (user): tilde | | |

Figure 10. Editing of corpora metadata

This will open the corpora metadata editor.



| Corpora \ European Constituti | on (OPUS) \ edit | | |
|---|---|--|---|
| Name / Title * | Upload text data files | | |
| European Constitution (OPUS) | | | |
| Corpus Type * | - Imported filer | | |
| Parallel | | Turne of file | Status |
| Description * | File | Type of file | Status |
| A parallel corpus collected from the European | cs-pl.tmx.gz | TMX file | Imported |
| Constitution (21 languages). Imported from | e cs-it.tmx.gz | TMX file | Imported |
| Subject Domain * | cs-da.tmx.gz | I MX file | Imported |
| Other | cs-de.tmx.gz | TMX file | Imported |
| Tevt Type * | cs-lv.tmx.gz | TMX file | Imported |
| Other | da-pl.tmx.gz | TMX file | Imported |
| Dermissions * | cs-el.tmx.gz | TMX file | Imported |
| Public | e cs-en.tmx.gz | TMX file | Imported |
| | hu-it.tmx.gz | TMX file | Imported |
| Source language remo | /e • hu-lt.tmx.gz | TMX file | Imported |
| Save Delete Cancel | Add file You may upload files in the foll TMX (may include several la XLIFF (may include several l File archive with Moses-for PDF (only one language per DOC (only one language per TXT (only one language per Xtx (only one language per TXT (only one language per Files with the same name part i files box) will be automatically types. You may also upload multiple files text files of the same type in th uploading. The upload limit currently is 26 If you have larger files, please of | owing formats: inguages; will be detected automa anguages; will be detected autom mat files * (must be compressed of file) of the same type and language at but different languages (indicated r aligned to form a parallel corpus files in multiple languages as a fol- ders using two-symbol language co item. Archive or compress folder stu- sib per file. You may compress sour contact our support team and we'll former the transformer team and we'll | atically) (atically) as zip or tgz) once archived (tar) or after upload in upload Files may be of different der structure (except odes (e.g. "en", "it") and ucture as tar, zip or tgz ce files to reduce the si try to help you. |
| | * File archive with Moses-format f in root of the archive and named v "IP-00-20.de"). Files with the same aligned as parallel corpora. | files may not contain folder structu with language code in file extens e name part but different languag | ire. All files must be pl ion part (e.g. "IP-00-20 e codes in extension w |

Figure 11. Corpora editing page

In the metadata editor, you can add and/or update corpus metadata fields and upload additional training data files.

- To save changes, click Save;
- To discard changes, click Cancel;
- To delete a corpus, click Delete.

2.3 Work with SMT systems

2.3.1 Browse SMT systems

To access the SMT systems list, click SMT systems at the top of the LetsMT! webpage.

Let's MT



| Let's | MT! Systems | Corpora Tran | slate Tools | About | W | elcome, Tildes lietotājs! Sign Out |
|-------------|---------------------------------------|-----------------|-----------------|--|--------------|--|
| | | | | | W | ork in Tilde 💌 |
| Systems | aa 🗖 🔽 Taraat laaguaga | _ | | Cr | reate system | |
| - select - | select - | bbe V v | filter - | 1 | | |
| - select - | - Select - | | inter - | _ | 1 | This is a list of public and private statistical machine |
| Status | A Name / Title | Source language | Target language | Subject Domain | Permissions | translation (SMT) systems. |
| Not Started | ACCURAT baseline | English | Estonian | Other | Private | |
| Not Started | ACCURAT baseline | English | Lithuanian | Other | Private | An SMT system is an automatic |
| Running (1) | ACCURAT baseline | | Latvian | Information technology and data processing | Public | and train to translate texts in general or specific subjects |
| Not Started | Biuras | English | Lithuanian | Other | Private | (domains). |
| Not Started | Biuras | Lithuanian | English | Other | Private | |
| Not Started | cubes - tagging | English | Swedish | Other | Public | |
| Not Started | Cubes and Cones (English- Swedish) | English | Swedish | Other | Public | |
| Not Started | Cz_En_Tech_Engine | English | Czech | Information technology and data processing | Public | |
| Not Started | Czech - English Legislative | Czech | English | Law | Public | |
| Not Started | Czech - English Medicine | Czech | English | Biotechnology and health | Public | |
| Not Started | Eastin-cl ET small domain test 2 | English | Estonian | Other | Private | |
| Not Started | Eastin-CL | English | Lithuanian | Other | Private | |
| Not Started | Eastin-CL | English | Estonian | Other | Private | |
| Not Started | Eastin-CL | English | Latvian | Other | Private | |
| Running (1) | English - Croatian Finance | English | Croatian | Finance | Public | |
| Not Started | English - Czech Finance | English | Czech | Finance | Public | |
| Running (1) | English - Danish Finance | English | Danish | Finance | Public | |
| | | | | | | |



- Like the corpora list, the SMT systems list contains all Public systems and those Private SMT systems with an authenticated user as the owner. If the user is not authenticated, only public SMT systems will be displayed;
- Data sorting in a SMT systems list. It is identical to the sorting of a corpora list (see paragraph Browse corpora) click table headings;
- Data filtering in a SMT systems list. Again, it is identical as in the corpora list (2.2.1) first select a filter and then select the filter value.
- Status attributes of SMT systems explained:
 - "Not Started" the SMT system is trained, but it is not started. It is not possible to use it for translation. In order to start translation, you must start the system;
 - "Running" the SMT system is trained, started and running. It is possible to use it for training tasks;
 - "Error" the SMT system is not trained. An error occurred in training process;
 - "Not trained" the SMT system definition is created but not trained. It is not possible to use it for translation;
 - "Training" the SMT system training process is in progress;
 - "Starting" the SMT system starting process is in progress.

2.3.2 Create a new SMT system

Click Create system in the upper right corner of the SMT system list page.



| Let's | lcome, Tildes lietotājs! Sign Out | | | | | |
|------------------------------|-----------------------------------|-----------------|-----------------|--|---------------|--|
| Systems | | | | | Create system | |
| ▼ Source langu - select - | age | e 🗖 🗸 - add | filter - | • | | This is a list of public and |
| Status | A Name / Title | Source language | Target language | Subject Domain | Permissions | private statistical machine translation (SMT) systems |
| Not Started | ACCURAT baseline | English | Estonian | Other | Private | |
| Not Started | ACCURAT baseline | English | Lithuanian | Other | Private | An SMT system is an automatic |
| Running (1) | ACCURAT baseline | English | Latvian | Information technology and data processing | Public | text translator you can build and train to translate texts in general or specific subjects |
| Not Started | Not Started Biuras | | Lithuanian | Other | Private | (domains). |
| Not Started | Biuras | Lithuanian | English | Other | Private | |
| Not Started | cubes - tagging | English | Swedish | Other | Public | |
| Not Started | Cubes and Cones (English- | English | Swedish | Other | Public | |

Figure 13. Create new SMT system

The creation of LetsMT! SMT system has been simplified to few easy steps. User must complete the following steps (the minimum required to create a SMT system):

- 1. Select target and source languages, provide a SMT system name. Step: System properties,
- 2. Select parallel corpora,
- 3. Select monolingual corpora,
- 4. Provide advanced SMT system training options, if needed.

In the next few paragraphs, each step is described in more detail (with screenshots).

System properties

- Fill the required metadata fields and, optionally, add some more metadata fields. In this step, source and target languages and the name of the SMT system must be specified;
- Additional metadata fields can be added by clicking the -add field- combo-box. In this combo-box, all available SMT system metadata fields will be available for selection;
- Manually added metadata fields can be removed by clicking the Remove hyperlink at the upper right corner of the metadata field.

| 5MT systems \ New system | |
|--|--|
| If you have corpora (translation memories) that you would like to use you must UPLOAD HERE first and only then continue | with system creation |
| 1 System properties | |
| Start creating your machine translation system by giving it a name and choosing source and target languages. The corpora (text data for training) which you will choose in the next steps will be filtered by the languages you have selected. | Check <i>Public</i> to make system available for translating to other LetSMT! users. They will not be able to modify anything, just use the system for translation. |

Figure 14. Step "System properties"



Parallel corpora

• Select parallel corpora to use for system training. By default, a list of corpora filtered to match the selected (in the previous step) source and target languages is shown.

| ΥS | ubjec | t Domain 📼 | | | | | More parallel texts will be |
|--------------|----------------|---|---|-----------|------------------|-------------|--|
| - se | lect - | 💌 🍸 - add fi | lter - 💌 | | | | selected - better translatio |
| * che | ck D o | olumn if corpus is domain-specific a | nd complies with current SMT system' | s domain. | You can also ine | clude non | |
| doma | D* | A Name / Title | Subject Domain | Size | Permissions | Corpus Type | Recommended size of parallel corpora for traini |
| | | European Constitution (OPUS) | Law | 10k | Public | Parallel | is at least 1 million |
| | | Regeringsförklaringen (OPUS) | Other | <1k | Public | Parallel | |
| | | • TST: UP | Law | <1k | Private | Parallel | |
| | | Moravia Localization (en- sven-pl) | Information technology and data processing | 0.7M | Private | Parallel | |
| | | European Parliament Proceedings (v6) | Law | 1.7M | Public | Parallel | |
| | | Andrejs demo corpus | Other | <1k | Private | Parallel | |
| | | DGT-TM (Acquis Communautaire) | Law | | Public | Parallel | |
| | | EU Book Shop | Other | 1.9M | Public | Parallel | |
| | | European Parliament Proceedings (OPUS) | Law | <1k | Public | Parallel | |
| | | Cubes and Cones | Other | <1k | Public | Parallel | |
| | | • ttc:s2 | Business | <1k | Private | Parallel | |
| | | European Medicines Agency (OPUS) | Biotechnology and health | 1.1M | Public | Parallel | |
| | | rs:test2 | Other | <1k | Private | Parallel | |
| | | OpenOffice.org documentation (OPUS) | Information technology and data processing | 38.4k | Public | Parallel | |
| | | Semlab Business News 1 v2 | Finance | 0.5M | Public | Parallel | |
| | | Semlab Business News 2 | Finance | 0.6M | Public | Parallel | |
| To a Save | dd yo the (| our own corpora, upload them, i changes in this step if you made | return here and select the uploade any. | ed corpoi | a from the lis | t above. | |

Figure 15 Step "Parallel corpora"

Monolingual corpora

• Select monolingual corpora to use for system training.

| * check D column if corpus is domain-specific and complies with current SMT system's domain. You can also include non domain-specific corpora to enrich the training set. D* 21 Name / Title Subject Domain Subject Domain Information technology and 0.7M Private Parallel Selected par sentences. Selected par | elect n Y Su Info | nonolingual corpora for training here. Jbject Domain = rmation technology • • • - add filter | For advanced options like selecting custom tuning and evaluation corpora please proceed to the nex step "Set Advanced Options". | |
|--|-------------------------|--|--|-------------------------------|
| D* 24 Name / Title Subject Domain Size Permissions Corpus Type Image: Display to the state of the state | * chec domai | ck D column if corpus is domain-specific and in-specific corpora to enrich the training set. | Recommended size of | |
| Moravia Localization (en- sver-pl) Moravia Localization (en- data processing O.7M Private Parallel sentences. Selected par | | D* 🛃 Name / Title | Corpus Type | training is at least 5 millio |
| Corpora in cton / aro | | Moravia Localization (en- sven-pl) | sentences. Selected paralle | |
| OpenOffice.org documentation (OPUS) Information technology and data processing OzM Public Parallel Parallel Corporation step 2 are automatically selected. | | OpenOffice.org documentation (OPUS) | automatically selected. | |

Figure 16 Step "Monolingual corpora"



Advanced options (optional)

• In this step, you can specify advanced training options. The following advanced options are available for selection: *Tune SMT system*, *Add custom content set* and *Use custom evaluation step*. Each option is explicitly explained in the UI (see Figure 17. Step "Advanced options").

| 📄 Tu | ne SMT system |
|------------------|---|
| Select reflec | this option to automatically tune this system after it has been trained. Tuning is a process by which the trained system is further adjusted t the dominant domain. Tuning will be done using the Minimal Error Rate Training (MERT). |
| | Add custom tuning set |
| Re | commended size of tuning set is about 2000 sentences. |
| m U | e custom evaluation set |
| Evolu | control control of the control of a control of the |
| calcul | nuon corpus can be used of evaluate a trained instatutor system against a "numan-quanty" translation, me evaluation or pus win be used at BLEU and other scores. Recommended size of evaluation set is about 1000 sentences. If you have not selected an evaluation set, it will b |
| | tod from the parallel data automatically |

Figure 17. Step "Advanced options"

2.3.3 Train SMT system

In the SMT systems list, click the system name and then click Details.

| Not Trained | University administration, KU 3 - m EP | Danish | English | Education | Private |
|---|---|---|--|---|---------|
| Monolingual corp Parallel corpus: 1, Evaluation set: 83 Tuning set: 1,831 In-domain monol Date Created: 201 Date Modified: 20 | pus: 2,433,763 sentences 976,507 sentences 98 sentences sentences lingual corpus: 19,069 sentences 12-02-06 13:27:39 912-02-06 13:27:39 | Date Accessed Training starter Owner (user): I Parallel corpora Proceedings Monolingual c Parliament Pr Corpora evalua In-domain para In-domain mo | 2012-02-06 13:27: d: 2012.02.06 13:39 ucph a: Rapid 1 da-en,Eu (v6),Rapid 2 da-en orpora: Rapid 1 da- roceedings (v6),Rap tion: KU2b - evalua allel corpora: KU-dat nolingual corpora: KI | 39):12 Irropean Parliament en,European oid 2 da-en ition corpus ia U-data | |
| Details | | | | | |

Figure 18. Short summary about SMT system

In system details view, click the Training step.



Figure 19 Training step of system details view

Then click the Start training button.





Figure 20 Start training of SMT system

System training is a time- and resources-consuming task. The process can take from some hours to several days. Once training has started, the status of training, completed and remaining steps can be tracked by clicking the View chart.



Figure 21. SMT system training steps

2.3.4 View information about SMT system

In the SMT systems list, click the system name. A short summary view of the SMT system is displayed.





| Running (1) | English-Danish Finance II | English | Danish | Finance | Public | | | |
|---|--|---|---|---------|--------|--|--|--|
| Translators Runn BLEU Score: 0.52 NIST Score: 8.663 | ing: 1 02 86 | Date Created: 2 Date Modified: Date Accessed | Date Created: 2012-01-06 15:04:55 Date Modified: 2012-01-06 15:04:55 Date Accessed: 2012-01-06 15:04:55 | | | | | |
| BLEU Score (CS): NIST Score (CS): 8 Monolingual cor | 0.5165 8.6004 pur: 558 220 contoncos | Training started: 2012.01.06 15:11:57 Training finished: 2012.01.07 13:12:51 | | | | | | |
| Parallel corpus: 4 Evaluation set: 1, | 20,897 sentences 000 sentences | Parallel corpora Monolingual c | Parallel corpora: Rapid 1 da-en, Rapid 2 da-en Monolingual corpora: Rapid 1 da-en, DGT-TM (Acquis Communautaire) Rapid 2 da-en | | | | | |
| In-domain mono | lingual corpus: 176,731 sentences | In-domain para 2,Semlab Bus In-domain mo | In-domain parallel corpora: Semlab Business News 2, Semlab Business News 1 v2 In-domain monolingual corpora: Semlab Business News | | | | | |
| Details | Start instance Stop instance | 2,Semlab Bus e Translate | iness News 1 v2 | j chart | | | | |

Figure 22. SMT system details - summary

In order to get a more detailed overview about the SMT system, click Details.

SMT systems \ Eastin-CL

| • Ri | unning (1) | | | | | | | | | |
|------|--|----------------|------------|-----------|--------------|--|---|--|--|--|
| Sto | p instance | itart instance | Transla | te | | | Delete system | | | |
| 1 | System prop | erties | | | | | Edit | | | |
| | Senglish-Lithua | nian 🖆 P | ublic | | | | | | | |
| 2 | Parallel corpora 🛇 To edit this step, stop all running insta | | | | | | | | | |
| | General corpora: DGT-TM (Acquis Communautaire),European Central Bank (OPUS),European Constitution (OPUS),European Parliament Proceedings (v6),European Medicines Agency (OPUS),Euro Term Bank,Tilde Localization TMs EN-LT,Tilde Dictionary,JRC-Acquis (v.3.0) NEW,Assistive Technology Terms NEW Total size: 6 184 440 sentences | | | | | | | | | |
| 3 | Monolingual corpora 🛇 To edit this step, stop all running instan | | | | | | | | | |
| | Domain specific corpora: Assistive Technology Terms NEW General corpora: DGT-TM (Acquis Communautaire), European Central Bank (OPUS), European Parliament Proceedings (v6), European Constitution (OPUS), European Medicines Agency (OPUS), Euro Term Bank, Tilde Localization TMs EN-LT, Tilde Dictionary, JRC-Acquis (v.3.0) NEW Total size: 35 273 100 sentences | | | | | | | | | |
| 4 | Advanced op | otions (op | tional) | | | | To edit this step, stop all running instances | | | |
| | Tuning set: Eastin-CL development set (1 000 sentences in total) Evaluation set: Eastin-CL evaluation set (541 sentences in total) | | | | | | | | | |
| 5 | Training 🥝 | | | | | | Details | | | |
| | System successfully trained | | | | | | | | | |
| | Training started: 2012.01.21 08:56:54 Training finished: | | | | | | | | | |
| 6 | Evaluation | | | | | | Details | | | |
| | | BLEU Score | NIST Score | TER Score | METEOR Score | | | | | |
| | Case insensitive | 10,56 | 3,7982 | 8703,31 | 0,1711 | | | | | |
| | Case sensitive | 10,4 | 3,7467 | 8724,4 | 0,1389 | | | | | |

Figure 23. SMT system details

2.3.5 Edit/Delete SMT system

In the SMT systems list, click the system name and then click Details. This will display the system overview page.



Let's MT!

SMT systems \ Eastin-CL

| • R | unning (1) | | | | | | | | | |
|-----|---|---|---|---|--|--|--|--|--|--|
| Sto | op instance | tart instance | Transla | ate | | Delete system | | | | |
| 1 | System prop | erties | | | | Edit | | | | |
| | Eastin-CL Senglish-Lithua | inian 🔋 F | ublic | | | | | | | |
| 2 | Parallel corp | ora 🥝 | To edit this step, stop all running instances | | | | | | | |
| | General corpora: DGT-TM (Acquis Communautaire),European Central Bank (OPUS),European Constitution (OPUS),European Parliament Proceedings (v6),European Medicines Agency (OPUS),Euro Term Bank,Tilde Localization TMs EN-LT,Tilde Dictionary,JRC-Acquis (v.3.0) NEW,Assistive Technology Terms NEW Total size: 6 184 440 sentences | | | | | | | | | |
| 3 | 3 Monolingual corpora 2 To edit this step, stop all running instar | | | | | | | | | |
| | Domain specific con General corpora: DO Medicines Agency (Total size: 35 273 1 | rpora: Assistive GT-TM (Acquis OPUS), Euro Te 00 sentences | Technology Te Communautair rm Bank, Tilde | rms NEW e), European (Localization T | Central Bank (OPUS), Ms EN-LT, Tilde Dict |), European Parliament Proceedings (v6), European Constitution (OPUS), European tionary, JRC-Acquis (v.3.0) NEW | | | | |
| 4 | Advanced op | otions (op | tional) | | | To edit this step, stop all running instances | | | | |
| | Tuning set: Eastin-CL development set (1 000 sentences in total) Evaluation set: Eastin-CL evaluation set (541 sentences in total) | | | | | | | | | |
| 5 | Training 🛛 Details | | | | | | | | | |
| | System succes | sfully traine | d | | | | | | | |
| | Training started: 20 Training finished: | 12.01.21 08:56 | :54 | | | | | | | |
| 6 | Evaluation | | | | | Details | | | | |
| | | BLEU Score | NIST Score | TER Score | METEOR Score | | | | | |
| | Case insensitive | 10,56 | 3,7982 | 8703,31 | 0,1711 | | | | | |
| | Case sensitive | 10,4 | 3,7467 | 8724,4 | 0,1389 | | | | | |

Figure 24. SMT system overview page

In order to edit a SMT system, click the Edit link in any section of the system overview, for example, System properties. Edit data and click Save.

| System properties | |
|--|--|
| Start creating your machine translation system by giving it a name and choosing source and target languages. The corpora (text data for training) which you will choose in the next steps will be filtered by the languages you have selected. | Check <i>Public</i> to make system available for translating to other LetsMTI users. They will not be able to modify anything, just use the system for translation. |
| Date Created: 2011.09.27 07:15:08 Date Accessed: 2011.09.27 07:15:08 | |
| Date Modified: 2011.09.27 07:15:08 Owner (user): tilde | |
| | |

Figure 25. Edit SMT system

In order to delete a SMT system, click the Delete system link and confirm the delete action.



| art instance | Delete syste |
|--|---|
| System properties | |
| Start creating your machine translation system by giving it a name and choosing source and target languages. The corpora (text data for training) which you will choose in the next steps will be filtered by the languages you have selected. Name / Title * | Check <i>Public</i> to make system available for translating to other LetsMT! users. They will not be able |
| Sample of SMT system definition Source language * | to modify anything, just use the system for translation. |
| English | |
| Target language * | |
| Latvian | |
| Permissions * | |
| Private 💌 | |

Figure 26. Delete SMT system

2.4 Translate on the public LetsMT! website

Click Translate at the top of the LetsMT! webpage. In the System combo-box, select one of the running SMT systems, enter your text and click Translate.

| Let's MT! Systems Corpora Transl | ate Tools About | Sign up Login |
|---|---|---|
| Machine translator To use this online translation tool select one of the available SMT system Sign up for LetsMT! access to build your systems! | is from the list. | |
| System : LetsMT! IT Trans | Automatic translation results hel Source text, but are not a substit | lp to understand the meaning of the ute for a human translator |

Figure 27. LetsMT! translation webpage

2.5 Translate using a widget, browser and CAT plug-ins

To access the LetsMT! platform widgets, plug-ins, API descriptions, click Tools at the top of the LetsMT! webpage.



| Let's MT! Systems Corpora Translate Tools About Sign up | Login | | |
|--|-----------|--|--|
| Tools (add-ons, plug-ins, widgets, API's) | | | |
| You may use the LetSMT! machine translation provider in SDL Trados Studio 2009 to use LetSMT! translation systems. Instructions for use: | | | |
| • Download and install the SDL Trados Studio LetsMT! plug-in and select a translation system from the list for each language direction on the project's translation memory screen. | | | |
| Machine-translation suggestions from the selected LetsMT! system will appear on screen during the translation of the document or can be used to pre- documents in the batch process. | translate | | |
| Usage is very similar to Google Translate TM machine-translation, but you have to specify a SMT system manually for each language direction. | | | |
| To download the plug-in, please contact us | | | |
| LetsMT! browser extension Use the browser plug-ins to translate selected text or an entire page by using LetsMT! platform | | | |
| Instructions for use: | | | |
| Download and install the plug-in Bestart browner | | | |
| Right-click on the page (or selection) you want to translate | | | |
| Choose "LetsMT! translate page/selection" from the shortcut menu and select one of the running LetsMT! translation systems | | | |
| Translation will start instantly and the results will appear on the web page Please note that translation is a resource intensive task and delay for translation may be 10 or more seconds. | | | |
| To download the plug-in, please contact us | | | |
| Open Translation API Use LetsMT! open translation API for requesting translations from started SMT systems and integrate LetsMT! platform in your solution. | | | |
| Figure 28. Integration webpage | | | |

On the displayed webpage, you can find plug-ins, widgets, API descriptions as well as short operation instructions.

2.6 Functionality for System Administrators

LetsMT! users with a System Administrator role have additional functionality available from the LetsMT! user interface (UI) (see Figure 29. Administrators menu).



The main features for System Administrators are:

- Users and User Group Management. System administrators can: 1) create new LetsMT! users and user groups, 2) edit information about existing users and user groups, 3) delete users or groups, 4) change user roles and user groups.
- LetsMT! infrastructure management. System administrators can: 1) view information about running tasks and resource usage on LetsMT! infrastructure, 2) scale up or scale down LetsMT! infrastructure by adding new or removing High Performance Cluster (HPC) grid nodes.



3 Conclusions and next steps

The LetsMT! platform has been specified, designed, developed and deployed according to the DoW. The current version of the platform is available at the following URL: <u>http://letsmt.eu</u>. The LetsMT! platform supports all key user tasks: upload of SMT training data, building of custom SMT systems, and use of systems for the translation.

The LetsMT! platform has been improved significantly compared with the first publicly available beta version (released on M17). The main areas of improvements are the following: 1) usability, 2) SMT system training performance and stability, 3) training data upload and sharing. As the result, the latest version of LetsMT! platform is a fully functional and globally available software service.