

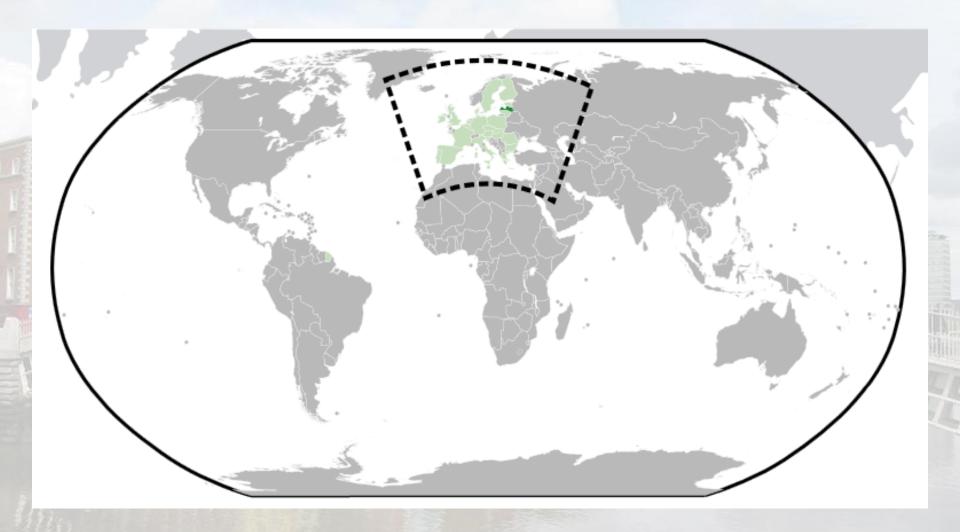
Extending the Use of Web-Based Terminology Services

Tatiana Gornostay
Tilde, Latvia

Multilingual Web Workshop, Dublin, Ireland
June 11, 2012



LATVIA

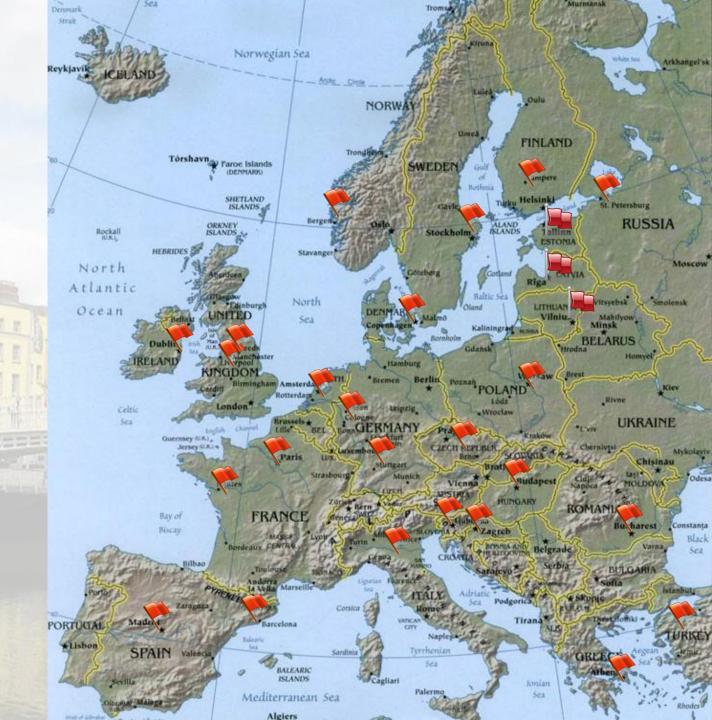




TILDE tilde.com

- Translation and Localization services
 - Latvian, Lithuanian, Estonian
- Terminology development and management
 - EuroTermBank: >2 mil terms, >25 languages
- Language Technologies and Resources
 - Small languages
- 3 offices
 - Riga (Latvia, headquarters)
 - Vilnius (Lithuania)
 - Tallinn (Estonia)
- >100 employees
 - 4 PhDs and 3 PhD candidates

European cooperation





Terminology

- Terminology is everywhere
 - visiting a doctor
 - building a house
 - buying a car, etc.
- We come across with terms every day



Terminology

- Terminology matters
 - efficient and precise communication
 - academia
 - industry
 - government

Society



Terminology

- Terminology is a language
 - Language for Specific (professional) Purposes (LSP)
 - multilingual consolidated and harmonized terminology is already being utilized as data by human users
 - language workers
 - translators, terminologists, technical writers, editors, etc.
 - now it is being developed as a web-based service for machines as users
 - systems
 - machine translation, indexing, search, annotation, etc.

IIII

Challenges

- creation, consistency, extraction
 - according to recent surveys, 84% professionals select terms from documents manually
 - acquisition
 - = term identification in a text
 - recognition
 - = term comparison with existing resources
- consolidation & harmonization
- sharing & interoperability

- MT domain adaptation
 - concept formalization
- data annotation, indexing and search, etc.



Terminology is on the cusp between semantic and language technologies

Terminology is bridging the three communities

Linked Open Data

Multilingual Web

Multilingual Language Technologies, i.e. NLP



Tilde's best practices & use cases



EuroTermBank

www.eurotermbank.eu



Home Resources Downloads News Help About

From English (en)

▼ To DA NL DE LV RU

Search

Show Advanced Options



Enter a term and choose one or several target languages

Currently in EuroTermBank

101 local resources 4 externally linked databases 2.3M terms 625 345 entries

200 000 definitions

27 languages

More

Search and Explore Terminology with the New EuroTermBank

Welcome to the new EuroTermBank – the largest free online terminology resource.

EuroTermBank portal has new features:

- · Search and explore terms in several target languages at once
- The new search and term display returns easier to use information
- · Set search preferences and filter settings
- Filter and explore terms by domain and language
- · Translation view and Entries view
- · Multiple levels of data detail

Try and see for yourself! Enjoy!

Term of the Day

EN sick leave

FR congé de maladie

Learn About Best Practices in Multilingual Terminology

Download a FREE publication

Towards Consolidation of European Terminology Resources





EuroTermBank

- www.eurotermbank.eu
 - MS Word
 - memoQ
 - Microsoft multilingual terminology
 - IATE
 - Open Terminology Platform
 - sharing & exchange terminology in META-SHARE



 will be used in terminology services both for human & machines as users





ACCURAT & TTC

Analysis and Evaluation of Comparable Corpora



for Under-Resourced Areas
of Machine Translation

Terminology Extraction

Translation Tools



Comparable Corpora



ACCURAT & TTC

- Comparable corpora
- Reference term lists and annotated texts
- Rule sets for term variant recognition and mapping
- Toolkit for multi-level alignment and information extraction from comparable
- Neo-classical multi-word term detection program
- TTC TermSuite



TaaS

Terminology as a service

a cloud-based platform

for acquiring, cleaning up, sharing, and reusing

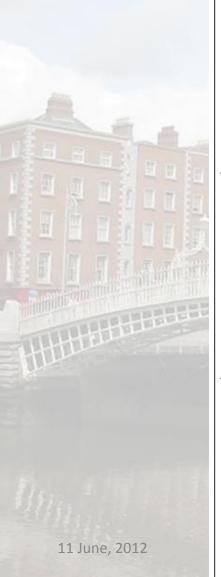
multilingual terminological data

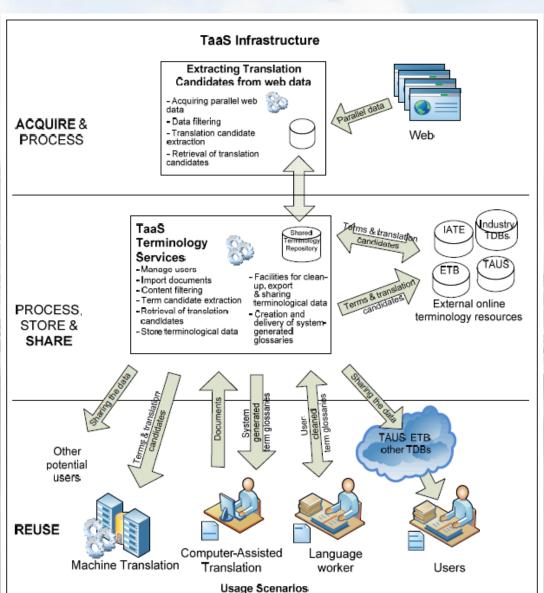














LetsMT!



Systems Corpora Translate Tools About

Sign up Login

Build your own machine translation system!

With LetsMT you can easily build and run your own custom machine translation systems. Simply upload your own corpora and/or choose to use any of the publicly available corpora. Train your systems and use them for all your translation needs.

EASY

- Frees you from hardware and software infrastructure
- ✓ Store corpora and engines in one place
- Access to many free public texts and translation engines
- Instantly increase productivity with CAT plug-in for localization process and web browser widget

IS LETS MT FOR YOU?

- ✓ Localization & translation service providers
- ✓ Holders of linguistic resources
- Companies with a need to translate large amounts of information
- Those who don't want to trust their resources to public systems

THE BASICS





Translate now using available systems



Build your own machine translation system



Store and Share

Upload, organize, store, and share your corpora



SMT adaptation use case

SMT system adaptation to narrow domain

automotive manufacturing

We had:

- limited amount of in-domain parallel texts from a client
- no in-domain texts in the target language
- extracted terms from parallel texts
- additional comparable texts collected from the web
- bilingual in-domain terms tagged and mapped automatically in the collected texts

We got:

32% increase in BLEU against a broad domain system



Terminology is on the cusp between semantic and language technologies

Terminology bridges the three communities LOD, MW & NLP

Terminology has the potential to vastly enhance the degree of automation for LOD

Terminology facilitates the creation of multilingual ontologies, taxonomies, etc.

Terminology helps to automate the creation of multilingual & cross-lingual metadata



Thank you for your attention and time!

www.tilde.com

tatiana.gornostay@tilde.lv

The research within the projects LetsMT!, ACCURAT, META-NORD, TTC, TaaS leading to these results has received funding from the European Commission ICT Policy Support Programme and FP7 Programme