



The CEF eTranslation platform @ work

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eTranslation platform at a glance



eTranslation

MT@EC

- Launched June 2013
- Legalese
- Statistical (Moses)

- Launched July 2017

 (webservice for snippets), Nov. 2017
 (web page for documents)
- Cloud based
- Neural engines

CEF.AT

- More NLPs

 (transliteration,
 named entity
 recognition...)
- Generic services
- Projects (ELRC, market research)



eTranslation platform at a glance



Available for:

- individuals (submit documents / text snippets through a web page)
- machine-to-machine use

Users:

- EU institutions (translators and other staff)
- Digital Service Infrastructures (EESSI, ODR, Open Data Portal, e-Justice Portal etc.)
- System suppliers (EURLex, N-Lex, Internal Market Information system etc.)
- Individuals in public administrations

Benefits:

- Increase speed and productivity
- Reduce costs
- Facilitate information exchange



Translate documents

Translate to My setting Egish Depoit

Translate to My setting Egish Depoit Eg

My settings English

▼ Logout

Translate documents Trans

Translate text

My translation requests

Drop files to upload (or click)

Supported formats:

From*

To*

Domain

Cutting edge (default

Output format

Same as source TMX XLIFF

Delete after download.

Translate document





Submit your document...



EUROPEAN COMMISSION

MEMO

Brussels, 6 May 2013

Smarter rules for safer food: Commission proposes landmark package to modernise, simplify and strengthen the agri-food chain in Europe

1) What is "from farm-to-fork" policy?

The EU "from farm-to-fork" policy covers legislation to **protect health** by ensuring that the food we produce and import that ends up on our plates is safe to eat. This body of legislation is a complex, integrated system of rules which takes care of all the links in the food chain from: the protection of plants from pests, the protection of animals and humans from animal diseases (and from such diseases which are transmissible to humans) and the protection of human health from all the hazards that might arise along the agri-food chain. It also includes all those rules which allow the Single Market to function smoothly in this area and provides rules for the protection of consumers.

Official controls are carried out at various stages in the food production chain by EU Member States to ensure that the legislation is being correctly applied.





Get your translation back by e-mail.



COMMISSION EUROPÉENNE

NOTE

Bruxelles, 6 mai 2013

Règles plus intelligentes pour des de plus sûres»: Paquet décisif Co moderniser, de simplifier et agroalimentaire en Europe

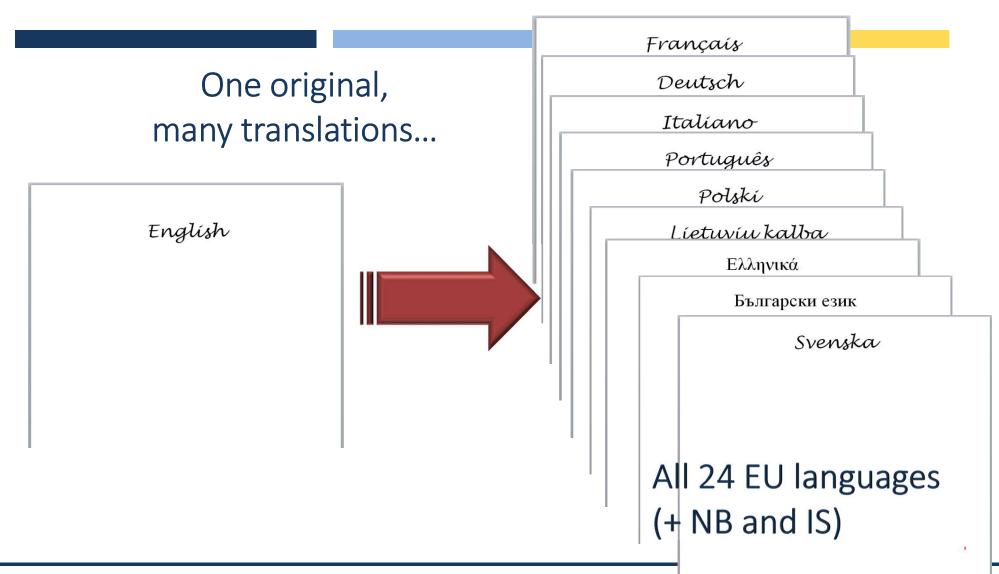
1) Ce qui est «de la four

L'UE «de la fourche à la four santé en faisant en sorte or que finale sur notre as législatif est un systèr maillons de la chaîne nuisibles, la protect partir de ces mala tous les dangers comprend égaler de manière hau consommateurs

Keeps your Keeps your formatting!



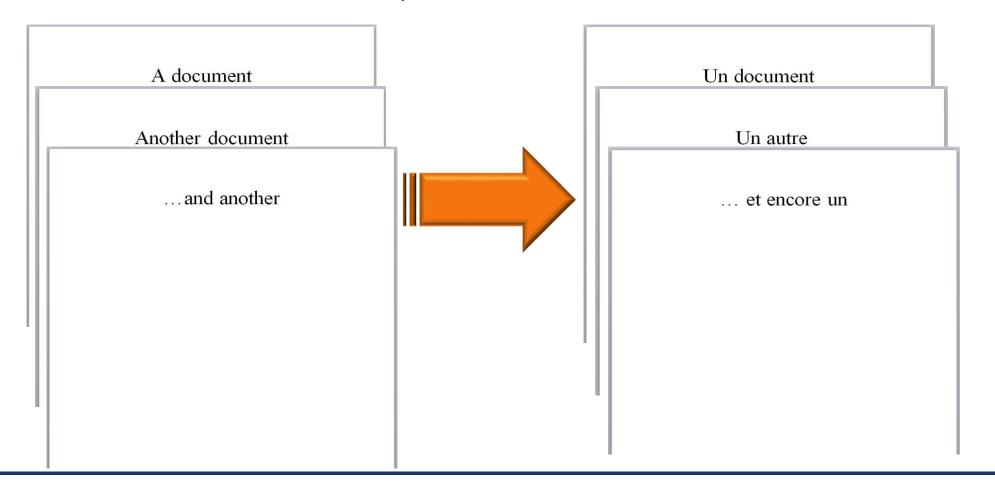








Many documents at once...







eTranslation protects your privacy

- All documents deleted after 24 hours or after delivery (on demand)
- Intellectual property rights transferred (Your translation belongs to YOU!)





No one

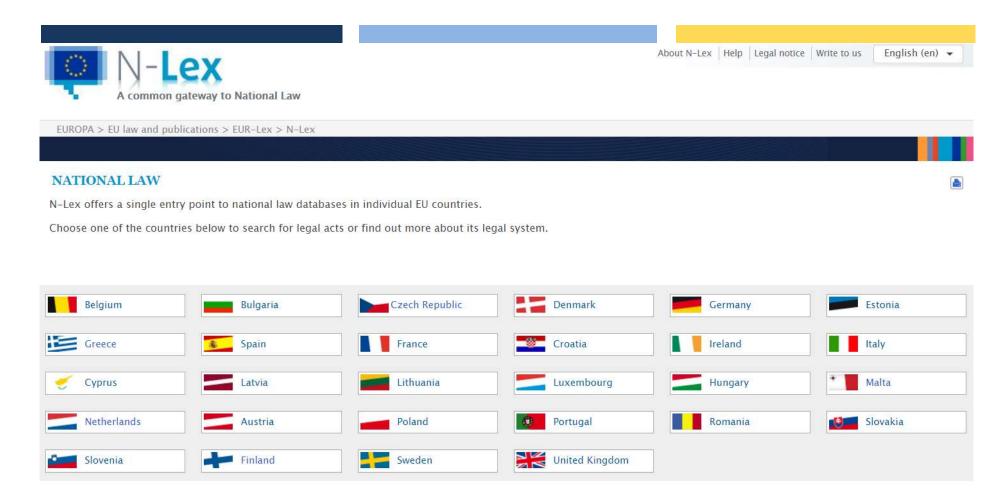
looking

at your translations!



Machine-to-machine service eTranslation on the N-Lex portal

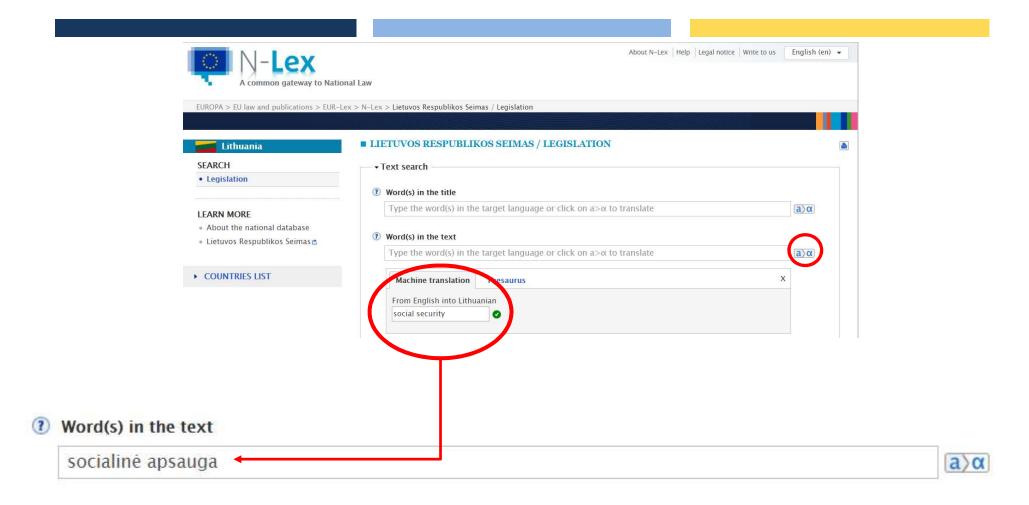






Machine-to-machine service eTranslation on the N-Lex portal

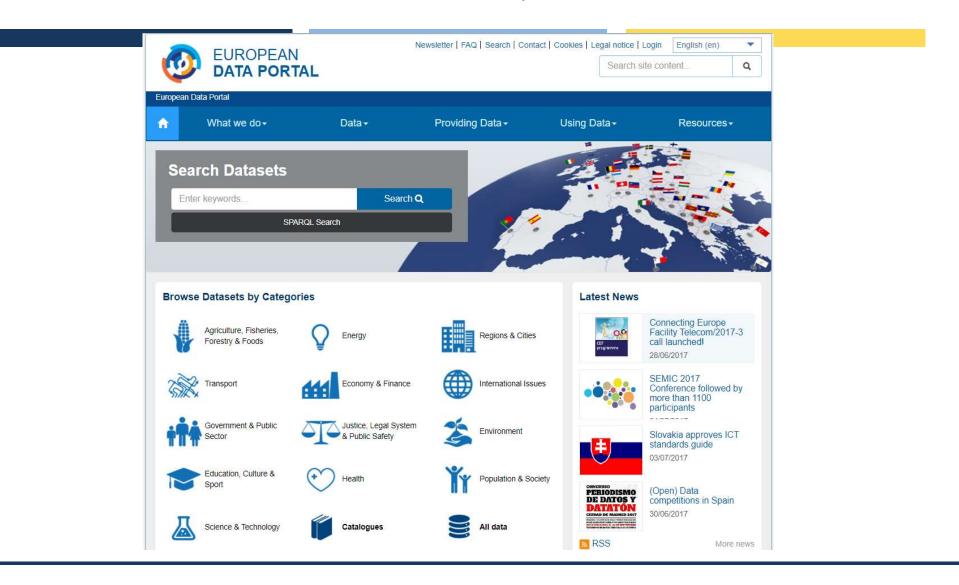






Machine-to-machine service eTranslation on the European Data Portal

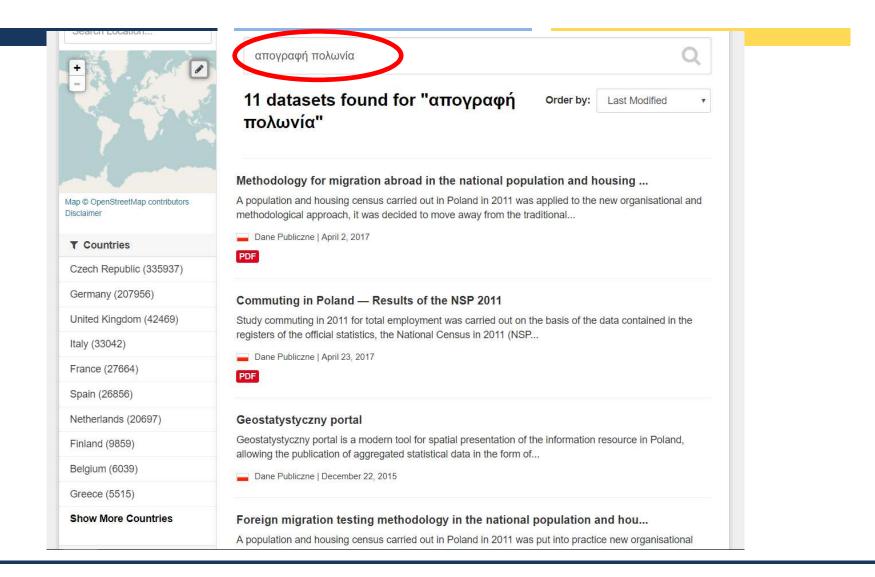






Machine-to-machine service eTranslation on the European Data Portal

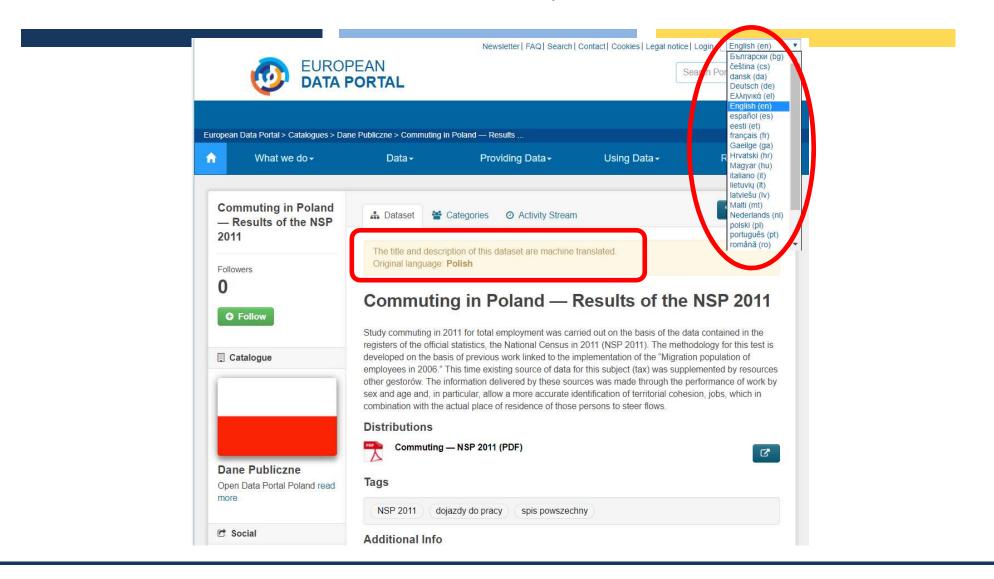






Machine-to-machine service eTranslation on the European Data Portal







How to connect to eTranslation



- Open to DSIs and public administrations
 - Contact <u>CEF-AT@ec.europa.eu</u> with your request and use case
 - We will provide the technical documentation on how to connect
 - SOAP request or RESTful interface
 - Contact us for credentials
 - Adapt your service to multilingual use!



Behind the scenes: how it works



Statistical Machine Translation

- MT@EC built only on "EU translations" (Euramis database)
- Covers all 24 languages
- Euramis (and MT@EC) cover EU policies, subjects and language but limited everyday language
- Moses-based engines
- Performs best when trained on large volumes of text pairs (source-translated) in specific domains



Neural Machine Translation (NMT)



What is NMT?

- Machine learning: artificial neural networks trained on existing translations
- The computer devises its own rules on how to translate
- Radical departure from the phrase-based SMT approaches

Why is it important?

- Translations read better: more fluent and grammatical
- Better able to fill in gaps in data used for training
- Better for highly inflected languages (e.g. German, Hungarian)

This is where the field is headed

— Will SMT become obsolete?





Neural Machine Translation Engines

• EN into:

BG	CS	DA	DE	EL	ES	ET	FI	FR
GA	HR	HU	IS	IT	LT	LV	MT	NB
NL	PL	PT	RO	SK	SL	SV		





Neural Machine Translation Engines

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Since 24 June 2018



SMT vs NMT



Original Text (http://europa.eu/rapid/press-release_IP-18-5709_en.htm):

Starting in 1980, the European Union gradually adopted legislation putting an end to the diverging schedules of the national clock changes. In 2018 however, the purpose of clock changes has become much less relevant, with studies suggesting that energy savings are now marginal and citizens increasingly complaining about negative health impacts.

SMT:

Počevši od 1980., Europska unija usvojila zakonodavstvo postupno okončalo različita rasporeda nacionalni satni promjene. U 2018., međutim, odbrojavanje je postala mnogo manje važne promjene, studije upućuju na to da se uštede energije sada marginalne i građani sve više žale na negativne učinke za zdravlje.

NMT:

Počevši od 1980. Europska unija postupno je donijela zakonodavstvo kojim će se okončati različiti rasporedi nacionalnih promjena sata. Međutim, svrha promjena sata u 2018. bila je znatno manje važna, a studije ukazuju na to da su uštede energije sada neznatni i građani se sve više žale na negativne učinke na zdravlje.



SMT vs NMT



Original Text (BBC Travel):

Croatia's coast is speckled with a multitude of islands, each with its own special appeal.

SMT:

Prošarana je hrvatsku obalu s brojnim otocima, od kojih svaki ima svoje posebne žalbe.

NMT:

U Hrvatskoj je obala obilježena mnoštvom otoka, od kojih svaki ima poseban apel.



SMT vs NMT



Original Text (BBC Travel):

Visiting small islands and larger hot spots, a tour of the magnificent islands in the Adriatic along Croatia's Dalmatian Coast is one of the chief delights of a visit to the country.

SMT:

Gostujući malih otoka i većih žarišta, obići veličanstveni otoka u Jadranskom moru i duž hrvatske dalmatinske obale jedan je od glavnih poslastice za posjet zemlji.

NMT:

Pri posjetu malim otocima i većem broju centara za prihvat i registraciju, na Jadranu se duž dalmatinske obale Republike Hrvatske nalazi jedan od glavnih rubova posjeta toj zemlji.



eTranslation EU Legislation



Source: EN

THE EUROPEAN COMMISSION,
Having regard to the Treaty on the Functioning
of the European Union,

[...]

HAS ADOPTED THIS DECISION:

Article 1

The total sum of greenhouse gas emissions covered by Decision No 406/2009/EC for each Member State for the year 2014 arising from the corrected inventory data upon completion of the comprehensive review referred to in Article 19(1) of Regulation (EU) No 525/2013 is set out in the Annex to this Decision.

Target: HR

EUROPSKA KOMISIJA, Uzimajući u obzir Ugovor o funkcioniranju Europske unije,

[...]

DONIJELA JE OVU ODLUKU:

Članak 1.

Ukupna količina emisija stakleničkih plinova obuhvaćenih Odlukom 406/2009/EZ za svaku državu članicu za 2014. koja proizlazi iz inventarskih podataka ispravljenih nakon dovršetka sveobuhvatnog pregleda iz članka 19. stavak 1.. Uredbe (EU) br. 525/2013 utvrđena je u Prilogu ovoj Odluci.



Language resources: the key to success



- More data for all languages
- Better lexical coverage for all languages
- Machine translation adapted to your domain/subject matter



Future Improvements



Requested by users such as EDP, e-Justice, Europeana, EESSI, ODR...

- Speed
- Transliteration
- More formats (PDF output, JSON)
- Named-entity recognition
- New languages (AR, RU, TR, ZH)



CEF.AT brings...



- Reliable and trustworthy translation for EU and National Public Administrations
- Support for languages with fewer speakers
- Opportunities for private sector, through grants and generic services
- A higher profile for language technologies, thus fostering demand
- Public availability of data collected by ELRC



Solve your language problems!



