



Dutch-Flemish Research Programme for Dutch Language and Speech Technology
STEVIN (*Spraak- en Taaltechnologische Essentiële Voorzieningen In het Nederlands*)

Call for Tender: Written Dutch Corpus (WDC)

deadline for submitting proposals: Wednesday February 28, 2007, 12:00 h.

General introduction STEVIN Programme

In order to stimulate the technology sector so as to increase its innovative power, and in order to improve or at least secure the position of the Dutch language in the modern information and communication society, the *Nederlandse Taalunie* has launched the 5 year Dutch-Flemish Language and Speech Technology Programme *STEVIN*.

The STEVIN programme aims can be briefly summarized as follows:

- realize an appropriate digital language infrastructure for Dutch, based on the BaTaVo-priorities (see <http://taalunieversum.org/taal/technologie/docs/daelemans-strik.pdf>);
- carry out strategic research in the domains of language and speech technology, in particular in areas for which there is a large demand from specific applications and technologies;
- stimulate the creation of networks and consolidation of language and speech technology activities, educate new experts, promote demand stimulation and knowledge transfer.

More information about the objectives of the programme can be found on the STEVIN website <http://taalunieversum.org/stevin>. You will also find there the electronic versions of STEVIN's programme framework, the guidelines for submitting proposals and the official *STEVIN-subsidieregeling* of the *Nederlandse Taalunie* (the legal Dutch-Flemish basis for STEVIN Calls).

Two calls have already been published. Descriptions of the resulting STEVIN-projects can be found on the STEVIN website.

A Written Corpus of Dutch (WDC)

One specific priority has been selected for this *Call for Tender: A Written Corpus of Dutch (WDC)*. The total budget of this *Call for Tender* is limited to a maximum of € 836.000. Full proposals for projects with a maximum duration of 3 years can be submitted. This call is specifically opened for proposals targeting only the realization of a Written Corpus of Dutch. All other proposals will be considered not eligible. An extensive tender description is given on pages 2-4. Note that only an integrated proposal covering as much of the tender description as possible will be considered eligible. Applicants who are planning to submit a proposal are strongly advised to contact the STEVIN Programme Bureau a.s.a.p. for an eligibility check of their ideas.

Practical details as to a) who can apply, b) the content and length of a proposal, and c) details about the assessment procedure, etc. can be found on pages 5-7. The deadline for submitting full proposals in English for this *Call for Tender* is **Wednesday February 28, 2007, 12:00 h.**

Details about the assessment procedure are given on page 7. Applicants must realize that they may be asked to make revisions as a result of the assessment of their proposal and that the final decision of funding will be conditional pending the proper settlement of IPR issues.

Assessment Criteria WDC *Call for Tender*

Further details about these assessment criteria can be found on page 7.

- availability of the results;
- value for money;
- coverage of the tender description;
- broad support from the HLT field in the Netherlands and Flanders.

STEVIN Call for Tender Written Dutch Corpus (WDC) tender description

Corpus Design and Acquisition

The proposal must specify a detailed plan for the creation and delivery of a large and richly annotated Dutch written text corpus, with a minimum size of 500 million tokens.

The resulting text corpus must be delivered to the NTU, which requires that all IPR-issues related to this as well as issues related to the privacy sensitivity of certain text types (e-mails, chat text, etc) are properly arranged. The TST-board and the STEVIN IPR committee are prepared to assist in this. Before the start of the project, most IPR issues must have been cleared to a significant extent in such a way that the STEVIN board can be reasonably confident that any remaining IPR issues will get solved or will not affect the major project delivery significantly. Without this conviction, a formal commitment will not be given and the project will not be allowed to start.

The project must focus on the creation of this text corpus, using annotation protocols and conventions that already exist or are being produced in the D-COI ([2]) project, based on CGN ([3]). It should focus on the production of this corpus, and minimize research efforts and efforts to create new annotation protocols and guidelines. The latter will only be allowed for aspects/layers where this is explicitly mentioned in the corresponding section of the tender description

The proposal must contain a detailed plan for the composition of the text corpus, taking into account the following constraints:

- Texts must originate from after 1954, with a focus on more recent (since 1990) texts;
- The proportion between texts originating from the Netherlands and texts originating from Flanders must be 2/3 vs. 1/3 respectively;
- There should be a clear focus on prose text, and on non-fiction;
- The original texts must be available in a processable electronic format, since no budget will be made available for digitization of text corpora. Also the PDF format is to be avoided, since it will require manual effort to convert such documents into processable formats;
- The text types represented in the corpus should be varied, and the exact composition is as described in the design definition created in the D-COI project, which is based on actual needs from potential users in the field of linguistics (broadly construed) and language and speech technology (see [11]).

Since the collection of certain text types (esp. e-mail, SMS and chat texts) is not trivial, the proposal should specify how the proposers intend to collect such text types, taking into account IPR and privacy issues, guaranteeing the naturalness of the texts, and also specifying the technical means how esp. SMS-texts will be collected.

Metadata

The metadata should at least contain the information contained in the metadata scheme developed in the D-COI project, see [10]), and follow the scheme defined there. Deviations from this should be properly documented and justified.

Tokenization

Prior to all other annotations, the Written Dutch Corpus (WDC) must be accurately tokenized - i.e. segmented into paragraphs, sentences, words, punctuation -, which at subsequent annotation layers will be enhanced with tags. The quality level of tokenization must be very high, since all subsequent layers will be based on it. Responses to the call must indicate what level of quality will be targeted and how this level of quality will be achieved. This is especially relevant for very informal text types such as e-mail, SMS and chat texts, which may require tokenization strategies that deviate significantly from more formal text types. It will also have to describe how errors found in tokenization by annotation at other layers will be dealt with, both technically and organizationally.

Orthographic Annotation

The WDC must preserve the digital original texts. The orthographic annotation layer supplies minimal correction of obvious typos: non-words (“shcoen” -> “schoen”), confusables (“(hij) word” -> “(hij) wordt”), run-ons (“misverstandbestaan” -> “misverstand bestaan”), splits (“luchtvaartmaat schappijen” -> “luchtvaartmaatschappijen”). Note that these last two corrections have an impact on the tokenization layer.

Responses to the tender need to clarify how these corrections will be achieved (unsupervised, selectively supervised...), including manual effort estimates and lexical sources used.

Ideally, an annotation of the variety of spelling used in the texts should also be provided. This will enable generating spelling-variety-specific frequency lists and selecting variety-specific corpus subsets. Texts do not need to be ‘re-spelled’ as this would be too expensive, the spelling era should however for all texts be specified in the metadata.

Morphological Annotation, Lemmatization and PoS-tagging

The WDC must be tagged and lemmatized according to the annotation schemes that have been developed for the CGN ([3]) and enhanced in D-COI ([2]), and must include reliability information as generated by the tagger.

Additionally, an annotation layer with morphological decomposition is to be provided, with lemmatization information on the compound parts.

On the basis of manually tagged samples for all relevant genres, the reliability of the general tagger can be tested. This material can subsequently be used to retrain the tagger. Semi-automatic correction of suspected problem areas must be part of the work when needed to achieve the targeted quality level. Apart from static lemmatization (based on e-Lex; cf. D-COI ([2])), new lemmas can be derived from the corpus, which results in full(er) lemmatization coverage. These will be included in derived indexes and frequency lists.

Tender respondents are invited to specify how all this is to be carried out in detail, including whether it is a one-time operation or an iterative procedure, and the effort involved.

Ideally, the samples from above are reused in the syntactic annotation layer.

Syntactic Annotation

Creating syntactic annotations is not part of the project. Rather, syntactic annotations of a small part of the eventual corpus will be generated in the companion STEVIN project LASSY ([4]). Therefore, the only requirement that prospective consortia have to meet with respect to syntactic annotation is that the corpus data are delivered in a format that is suitable for further processing in LASSY. Because LASSY will build on the guidelines developed in the Spoken Dutch Corpus (CGN ([3])) project, it is safe to say that corpus data in a format compatible with the CGN guidelines will meet the requirements. Prospective consortia are strongly advised to carefully study the documentation that comes with the CGN ([3]), and to contact the project leader of the LASSY project for further information.

Multi-word Expressions and Named Entity Identification and Classification

For POS tagging and lemmatization, a word-for-word annotation, as in the Spoken Dutch Corpus (CGN ([3])), has to be provided for the complete 500 million word corpus. On top of this, however, separable verbs should be annotated as such. Annotation of other types of multi-word expressions is optional.

However, given their importance in applications like Question Answering and Information Extraction, an annotation layer should be provided for named entity recognition and labelling. A feasibility study should be carried out determining the named entity class system to be used, but at least the following types of named entities are expected to be annotated: persons, organisations, geographical locations, geopolitical entities, time expressions, currency expressions, percentages, dates. If possible, annotation of more challenging types like titles (of books, movies, etc.) should be attempted. Applicants must plan to deliver a one million token subcorpus annotated with high accuracy. Proposals that also include the automatic annotation of the full corpus with the tool will be preferred. The project should deliver annotation guidelines and a tool including documentation that aims at usage by experts in the field.

Semantic Annotation

A subset of the corpus has to be enriched with semantic annotations. The subset will be selected from the subset of the corpus that will be annotated with syntactic structures in the LASSY project. More specifically, the following types of semantic annotation should be provided as a minimum:

- Annotation of sentences in accordance with specifications based on PropBank ([8]) as adapted to Dutch in the D-COI ([2]) project, and at least including verbal predicates. This type of annotation establishes a relation between a verbal predicate, its arguments and their subtypes, and its adverbial modifiers.
- Annotation of spatial and temporal expressions in accordance with specifications developed in TimeBank (Time ML [7]) as adapted to Dutch in the D-COI ([2]) project.
- Coreference relations, in accordance with the specification as developed in the STEVIN COREA project ([5]).

The one million token subcorpus, as selected already for named entity recognition and labelling must be enriched with these semantic annotations.

The proposal should specify in detail how the relation between PropBank-like and spatio-temporal annotation on the one hand, and the Cornetto project ([9]) and its results will be established. In the ideal case, the sense distinctions used in this project are derived from the Cornetto semantic lexical database.

Frequency Lists

Experience has shown that frequency lists are by far the most frequently requested derivative of large language corpora. Although the generation of frequency lists may seem trivial, it is not: many seemingly minor problems must be solved, and many decisions must be made – and properly documented. These include the way in which spelling is made homogeneous (or not), the degree to which lemmatization has been performed, whether lists are provided for individual parts of the corpus (or not), etc.

Proposers are invited to clearly describe what frequency lists they intend to derive from the corpus, and how they will present and document these frequency lists. In addition, proposers are invited to develop tools that can be used by experts in the field of corpus development and maintenance for generating frequency lists according to the requests and specifications of future users. One frequency list to be provided is a list of types with frequencies fully covering the whole corpus. Each type in this list containing a spelling deviating from the official spelling valid for Dutch in 2006 (the so-called “Groene Spelling”) should be associated with a normalized orthography in “Groene Spelling”. (e.g. *pannekoek* has to be associated with *pannenkoek*).

Documentation

Responses to the tender for the Written Dutch Corpus must include detailed proposals for the manner in which appropriate documentation will be provided. First, a detailed description of the format of the documentation must be provided. Second, the proposal should clearly set out the planning for producing the documentation. Third, proposals should clearly demonstrate that sufficient resources are allocated to the task of producing proper documentation.

Format and Corpus Exploitation

The corpus must be delivered in the format developed in the D-COI project (see [10]) and be validated against this format. The format must also allow corpus exploitation by the existing COREX tools ([3]) and its extensions (e.g. for viewing syntactic trees). Though COREX has some known limitations, the current project will not extend or improve the corpus exploitation tools.

Quality

The proposal should contain a detailed description of the quality measures that will be adopted for each aspect of the corpus. This description should contain a target quality level, and specify a method to measure this quality level.

Validation

- ✓ Internal validation: Responses to the tender should contain a detailed plan for internal validation for all aspects of the corpus.
- ✓ External Validation: A limited part of the budget (max: 15,000€) should be reserved for external validation, i.e. validation by an external party. This budget or part of it is not intended for developing methodologies or tools to carry out such a validation. Such costs should be avoided (several candidate external validators have developed such methodologies and/or tools already) or they should be borne by the validation centre.

The external validation should include, at least:

- A check on the availability and suitability of documentation of the corpus;
- A formal check on presence and location of folders and files, their legibility, their formats (compliance with the documentation);
- A formal check on used formats (e.g. XML-validation), formal check on legality of the used attributes and associated values;
- A short contents check on a small (carefully selected) sample of the corpus, for its major aspects (e.g. its various annotation layers).

Project Management

Responses to the tender for the Written Dutch Corpus should include a clearly described plan for project management. This plan should include a description of the consortium structure, as well as the specific duties and responsibilities of the project coordinator and all partners. Note that according to the STEVIN funding principles, the coordinator carries the overall scientific, practical and responsibilities for the project. Project management tools and means that the project manager and the work package managers will use to enforce the project work plan must be properly specified. Finally, the management plan should provide a clear description of the reporting within the consortium and from the consortium to the STEVIN Programme Bureau.

The project's budget should include sufficient resources for project management tasks. The part of the budget dedicated to project management tasks and activities must be clearly justified.

References: Note that some of the information on these pages may be in Dutch.

- [1] EAGLES Preliminary Recommendations on Text Typology. EAGLES Document EAG--TCWG--TTYP/P . Version of June, 1996, <http://www.ilc.cnr.it/EAGLES96/browse.html#wg1>
- [2] D-COI (Dutch Language Corpus Initiative) homepage <http://lands.let.ru.nl/projects/d-coi/>
- [3] CGN (Corpus of Spoken Dutch) homepage <http://lands.let.kun.nl/cgn/ehome.htm>
- [4] LASSY (Large Scale Syntactic Annotation of written Dutch) homepage <http://www.let.rug.nl/~vannoord/Lassy/>
- [5] COREA (Coreference Resolution for Extracting Answers) homepage <http://www.cnts.ua.ac.be/~hoste/corea.html>
- [6] IMDI (ISLE Meta Data Initiative) homepage <http://www.mpi.nl/IMDI/>
- [7] TimeBank <http://www.cs.brandeis.edu/~jamesp/arda/time/timebank.html> (in English)
- [8] PropBank <http://www.cs.rochester.edu/~gildea/PropBank/Sort/> and http://www.cis.upenn.edu/~mpalmer/project_pages/ACE.htm (in English)
- [9] CORNETTO <http://www.let.vu.nl/onderzoek/projectsites/cornetto/introduction.html>.
- [10] D-COI Basic Format http://lands.let.ru.nl/projects/d-coi/basic_format.htm
- [11] D-COI Corpus design <http://lands.let.ru.nl/projects/d-coi/design.htm>

Other STEVIN funding opportunities

- A final Open Call for a set of specific priorities - maximum budget 2.3 M€ - is planned for 2007. The deadline for submitting pre-proposals in this call is expected to be in the spring of 2007.
- For accompanying measures, the STEVIN supporting programme for funding different types of networking events is continuously opened and in 2007 a final call for demonstration projects is planned.

More information on both these funding instruments can be found on the STEVIN website:

<http://taaluniversum.org/stevin>.

Practical details on the submission and evaluation procedure regarding the STEVIN *Call for Tender* for a Written Dutch Corpus

Call for Proposals

The STEVIN *Call for Tender* is open from December 1, 2006. The total budget this *Call for Tender* is limited to a maximum of € 836.000. This *Call for Tender* is specifically opened for proposals targeting the realization of the Written Dutch Corpus. Only those proposals that specifically target this priority will be eligible. A 3rd more open Call for the STEVIN programme is envisaged for 2007.

Full proposals targeting only the Written Dutch Corpus as described in the *Call for Tender* must be submitted in English to the NWO electronic proposal submission system Iris. The deadline for submitting full proposals in this *Call for Tender* is set for Wednesday February 28 2007, 12:00 h. The NWO electronic proposal submission system IRIS can be accessed as of February 1 2007 via <http://taalunieversum.org/STEVIN> and <http://www.nwo.nl/stevin> . Please read carefully the "Richtlijnen bij indienen voorstellen tender derde STEVIN-Oproep.doc" which is also available from the website.

Who can apply?

Applications can be submitted only by senior researchers of Dutch or Flemish knowledge institutes. If a research proposal is submitted by a consortium of knowledge institutes and/or companies, the main applicant and coordinator of the project must be employed by a Dutch or Flemish knowledge institute. Eligible knowledge institutes are defined in the official *STEVIN-subsidieregeling*. In principle, it concerns those institutes recognized as such a) in "de Nederlandse Wet op het hoger onderwijs en wetenschappelijk onderzoek" or b) in "het Decreet van 4 april 2003 betreffende de herstructurering van het hoger onderwijs in Vlaanderen" or c) by the Board of the STEVIN programme. Applicants who are planning to submit a proposal are strongly advised to contact the STEVIN Programme Bureau for an eligibility check of their plans.

Format full proposals specific priorities submitted in the *Call for Tender*

Full proposals must be written in English and submitted electronically to NWO via the Iris-system (accessible via <http://taalunieversum.org/stevin>). Before submitting a proposal, first read the "Richtlijnen indienen STEVIN *Call for Tender* Written Dutch Corpus" which can be downloaded from <http://taalunieversum.org/stevin> and which contain specific directions as to the format in which tender proposals must be submitted.

Eligible costs

- Personnel costs (100%) directly related to the project to which a maximum of 25% can be added for overhead costs.
- A bench fee of 11.000 € per FTE for computers, material costs and conference visits. This amount will be raised by 50% if the project consortium contains at least one Dutch and one Flemish partner.
- Costs related to realising databases.

Evaluation procedure full proposals *Call for Tender*

All eligible full proposals submitted in this call will be presented to a panel of international experts in language and speech technology. For this call the same experts will be asked to serve in the International Assessment Panel as those that acted as such in the second STEVIN Call. Some other experts may be added. The composition of the International Assessment Panel can be found on the STEVIN website. This international panel will assess and rank the eligible applications based on the assessment criteria mentioned earlier and may formulate a set of recommendations for improving the individual proposals. The panel's assessment and recommendations will be presented to the applicants for comments. Based on the applications, the panel's recommendations and the applicant's response to the Panel assessment, the members of the Programme Committee who are not directly involved in the submitted proposals will assess the applications and determine the order of priority of the eligible proposals. On the basis of the IAP's advice, the applicant's response and the Programme Committee's advice, the Board of the STEVIN programme will finally determine which project will be funded. Applicants must realize that they may be asked to make revisions as a result of the assessment of their proposal and that the final decision of funding will be conditional pending the proper settlement of IPR issues.

Assessment Criteria WDC *Call for Tender*

- *availability of the results*

All results and its IPR must be transferred to the Dutch Language Union. The consortium must be able to prove that IPR issues especially with respect to the texts to be included in the corpus have been cleared to a significant extent before the start of the project, in such a way that the STEVIN board can be reasonably confident that any remaining IPR issues will get solved or will not affect the major project delivery significantly. This criterion entails an absolute go/no-go point of formally committing and starting the project. If this criterion is not satisfactorily met, the TST-Board may decide to add the budget of this *Call for Tender* to that of the final *Open Call* of the STEVIN Programme which will be published in 2007.
- *value for money*

The maximum budget that can be requested is € 836.000. The assessment panel and the independent STEVIN programme committee members will specifically assess i) the quality of the proposal, ii) the quality of the results that will be delivered and iii) the justification of the project budget. Substantial project budget details must be provided in the application. Further instructions and a standard excel table can be found in the "Richtlijnen indienen voorstellen voor de STEVIN *Call for Tender* corpus geschreven Nederlands". Applicants must realize that they may be asked to revise their proposal as a result of the expert assessments.
- *coverage of the tender description*

The IAP and PC will check whether or not the complete wish list as described in the tender description on page 2-4 is covered. Note that it is not possible to submit a proposal for just one or a small selection of specific type(s) of annotation layers. Only an integrated proposal covering as much of the tender description as possible will be considered eligible.
- *broad support from the HLT field in the Netherlands and Flanders*

The amount of support from the Dutch and Flemish HLT community will be assessed on the basis of the size and quality of the consortium's development team and the composition and deployment of the user group. The user group should consist of both academic and industrial representatives that are not part of the development team. Membership should be motivated. The programme bureau will check whether the people mentioned in the user group have been informed about their presence on the list of user group members.

STEVIN *subsidieregeling*

More information as to which legal rules apply for this specific Dutch-Flemish granting scheme are laid down in the *Subsidieregeling van de Nederlandse Taalunie tot subsidieverstrekking in het kader van Nederlandse taal- en spraaktechnologie "STEVIN" (STEVIN-subsidieregeling)*, which can be found on the STEVIN website.

STEVIN Timetable

Activity	Date
Deadline Full proposals <i>Call for Tender</i> Written Dutch Corpus	February 28, 2007
Assessment <i>Call for Tender</i> WDC proposals by IAP	March 2007
Reply applicants on Assessments IAP	April 2007
Assessment <i>Call for Tender</i> WDC proposals by Programme Committee	April 2007
If required: revision of the proposal and reassessment	May 2007
Decision on Funding by Programme Board <i>Call for Tender</i> WDC	May 2007 (if no revisions)
WDC Project start (if IPR is cleared)	June 2007
STEVIN Supporting Programme: call for Networking events	open continuously
3rd Open Call for Proposals	Spring 2007
STEVIN Supporting Programme: call for Demonstration Proposals	Autumn 2007

The Dutch-Flemish STEVIN programme which is funded by the Flemish (Department of Economics, Science and Innovation) and Dutch government (Ministry of Education, Culture and Science, Ministry of Economic Affairs, NWO Humanities and NWO Physical Sciences), is carried out under the auspices of the Dutch Language Union (NTU). More information can be found on the STEVIN website:

<http://taalunieversum.org/stevin>.

STEVIN Organisation

The STEVIN programme for Dutch language and speech technology is a coordinated effort of:

- o de Nederlandse Taalunie;
- o het departement Economie, Wetenschap en Innovatie van de Vlaamse Overheid (EWI);
- o het Instituut voor de aanmoediging van Innovatie door Wetenschap en Technologie in Vlaanderen (IWT-Vlaanderen);
- o het Fonds voor Wetenschappelijk Onderzoek - Vlaanderen (FWO-Vlaanderen);
- o het Nederlandse Ministerie van Onderwijs, Cultuur en Wetenschap (OCW);
- o het Nederlandse Ministerie van Economische Zaken (EZ);
- o het Nederlandse EZ-agentschap SenterNovem;
- o de Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO);
- o het NWO-gebied Exacte Wetenschappen (EW);
- o het NWO-gebied Geesteswetenschappen (GW).

Programme Board

The Board of the STEVIN programme will be responsible for the final funding decision. The Board is also responsible for supervising two activities that are related to the STEVIN programme, i.e. the *TST-centrale* and the *Makel en Schakel* activities carried out by the *Nederlandse Taalunie*.

In the Board representatives of all funding parties are represented and are complemented with some senior experts from the field.

Programme Committee

- o prof. dr. J. Odijk (Scansoft/Universiteit Utrecht) - chair;
- o prof. dr. J.P. Martens (Universiteit Gent);
- o prof. dr. F. Van Eynde (Katholieke Universiteit Leuven);
- o prof. dr. W. Daelemans (Universiteit Antwerpen/Universiteit van Tilburg);
- o mrs. D. Kenyon-Jackson (Polderland Language & Speech Technology BV);
- o dr. P. Vossen (Irion Technologies);
- o dr. A. van Hessen (Telecats BV/Universiteit Twente);
- o prof. dr. L. Boves (Katholieke Universiteit Nijmegen);
- o dr. J. van Sas (Van Sas-Van Dyck VOF en Karel de Grote-hogeschool te Antwerpen);
- o mrs. dr. J. Beeken (INL/TST-centrale);
- o dr. K. Van Bruwaene (VRT);
- o vacancy.

Programme Bureau

Together the Dutch organisations NWO and SenterNovem have been selected by the *Nederlandse Taalunie* to form STEVIN's Programme Bureau that coordinate the STEVIN activities, including the handling of applications from both Dutch and Flemish applicants.

For further information, please contact the Programme Bureau or the *Nederlandse Taalunie*:

<i>NWO-Geesteswetenschappen</i>	<i>SenterNovem</i>	<i>Nederlandse Taalunie</i>
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STEVIN website: <http://taalunieversum.org/stevin>.