

ParlaCLARIN Workshop: Creating and Using Parliamentary Corpora

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SlovParl 2.0: The Collection of Slovene Parliamentary Debates from the Period of Secession

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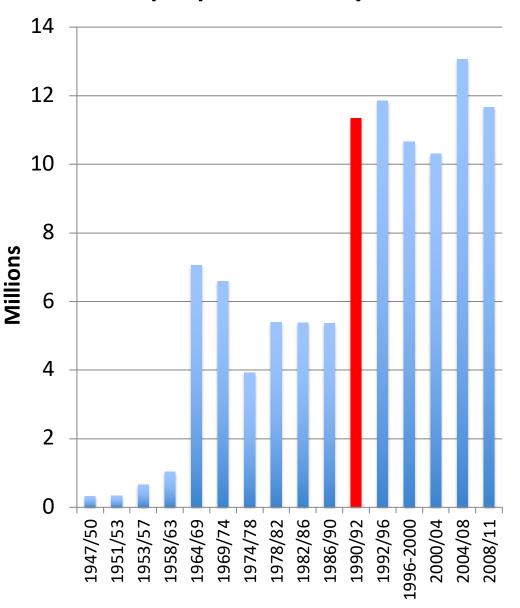
Overview of the talk

- 1. Introduction
- 2. Building the corpus
- 3. Annotation: TEI drama, speech, analysis
- 4. Availability and maintenance

Introduction

- Parliamentary debates as historical sources
- Large amounts of text:> 1945 = 170 mil. words
- Capturing as much contextual information as possible
- So far 1990 1992: before, during, and after Slovenia became an independent country

Words per parliamentary term



Building the Corpus

- 1990-05-05 to 1992-12-23: 3 chambers, 231 sessions, 58,813 speeches, 10.8 million words, and 121,055 non-verbal descriptions
- Basic principles:
 - **1. Multidisciplinary**: not only for historians: DARIAH-SI and CLARIN.SI cooperation
 - 2. All-inclusive: in addition to parliamentary debates, other types of parliamentary papers will be included
 - **3. Long-term**: not a short-term research project, but a long-term research infrastructure
 - 4. Open science: complete corpus openly available

Transcription of source files

- Source HTML files from the Web pages of the Slovenian parliament
- Digitized analogue publications
 - some OCR errors;
 - document structure in HTML files is not clearly marked
- HTML to XML semi-automatic conversion, transcription and annotation
- Several steps, each contains:
 - XSLT for automatic annotation;
 - XPath and RE search for annotation errors;
 - additional manual annotation.

HTML pages of the Slovenian parliament, https://www.dz-rs.si/wps/portal/Home/



Structure of parliamentary proceedings

• Document (1 .. *n*) Table of contents (0 .. 1) List of speakers (0 .. 1) Index (0 .. 1) – Annex (0 .. n) - Meeting (1 .. *n*) • Non-verbal content (0 .. n) • Topic (1 .. *n*) Non-verbal content (0 .. n) Speech (1 .. n) » Non-verbal content (0 .. n) » Paragraph (1 .. n) Non-verbal content (0 .. n)

Annotation: Text Encoding Initiative Guidelines 1. TEI module for Performance text (TEI drama)

```
<teiHeader>
   <!-- Metadata -->
</teiHeader>
<text>
  <front>
     <div type="contents">
                                                        <body>
        -> Table of contents -->
                                                           <div><!-- Meeting -->
           <item></item>
                                                              <stage>Non-verbal content</stage>
        </list>
                                                              <timeline>
     </div>
                                                              <!-- Set of ordered point in time which
     <div>
                                                                   are linked to the <stage type="time"> -->
        <castList><!-- List of speakers -->
                                                                 <when/><!-- from -->
           <castItem><actor></actor></castItem>
                                                                 <when/><!-- to -->
                                                              </timeline>
        </castList>
                                                              <div><!-- Topic -->
     </div>
                                                                 <stage>Non-verbal content</stage>
  </front>
                                                                 <sp who="#reference_to_the_actor">
  <body>
                                                                    <speaker>Speaker's name, affiliation</speaker>
     <div>
                                                                    <stage>Non-verbal content</stage>
        <!-- Meeting -->
                                                                    Speech <stage>Non-verbal content</stage>,
     </div>
                                                                       speech, speech.
  </body>
                                                                 </sp>
  <back>
     <div type="appendix">
        <!-- Annex -->
     </div>
     <!-- Posible Table of contents,
```

List of speakers -->

</back>

</text>

TEI documents included in <teiCorpus>: additional list of speakers and the index of topic

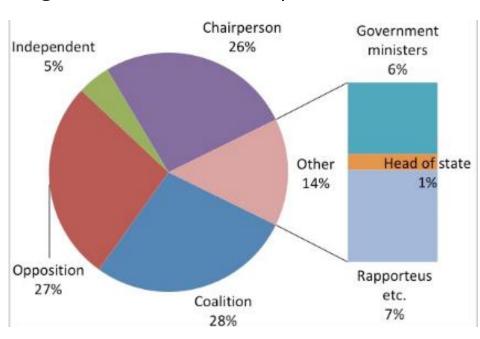
List of speakers: 523 persons with personal data:

- personal name, gender
- date and place of birth & death
- education, profession, residence
- organization membership:
 - political party
 - parliamentary chamber
 - government membership
 - employer

Topic index:

- 5,147 original topics classified in
 - 491 classified topic
 - 364 nested categories of <a href="tax

Example: Number of words spoken in the Assembly of the Republic of Slovenia (May 1990 – May 1992) by organization membership:



Conversion from source TEI drama to target TEI speech (XSLT stylesheet)

TEI drama

```
<stage type="time">(Seja je bila <time
     to="1990-05-07T17:30:00"-
     xml:id="DZ-1990-DruzPolZb-1.stage.t.4"
     >prekinjena ob 17.30 uri</time> in se je <time
        from="1990-05-07T21:15:00"-
        xml:id="DZ-1990-DruzPolZb-1.stage.t.5"
        >nadaljevala ob 21.15 uri</time>.)</stage>
</div>
<div_vml id="DZ-1990-DruzPotzb-1.div.1.1.2.2"</p>
    corresp="#DZ-1990-DruzPotZb-1.toc.2.2"
  <sp who="sp:BucarFrance1923"-
     corresp="#DZ-1990-DruzPolZb-1.sp.BučarFrance">
     <speaker>PREDSEDUJOČI DR. FRANCE BUČAR: 
     Lahko pričnemo sejo. <stage **pe="quorum">(68)
        prisotnih.)</stage> Zbor je sklepčen.
     Prosim poročevalca skupine, ki je delala pri
        <title>USKLAJEVANJU PREDLOGA POSLOVNIKA, DA
           ZBORU POROČA O DELU</title> oziroma o uspehu
        pri tem delu.
  </sp>
```

TEI speech

```
<note xml:id="DruzPolZb.1990-05-07.s001-01.sp-101.5"</pre>
      type="time">Seja je bila prekinjena ob 17.30 uri
     in se je nadaljevala ob 21.15 uri.</note>
  <anchor xml:id="DZ-1990-DruzPolZb-1.stage.t.4"/>
</div>
<div type="sp">
  <anchor xml:id="DZ-1990-DruzPolZb-1.stage.t.5"/>
  <note xml:id="DruzPolZb.1990-05-07.s001-01.sp-102.1"</pre>
      type="speaker">PREDSEDUJOČI DR. FRANCE BUČAR:</note>
  <u xml:id="DruzPolZb.1990-05-07.s001-01.sp-102.2"
    who="#BucarFrance1923"
     ana="#taxonomy.root #topic.1">Lahko pričnemo sejo.</u>
   <note xml:id="DruzPolZb.1990-05-07.s001-01.sp-102.3"</pre>
     type="quorum">68 prisotnih.</note>
  <u xml:id="DruzPolZb.1990-05-07.s001-01.sp-102.4"
     who="#BucarFrance1923"
     ana="#taxonomy.root #topic.1">Zbor je sklepčen.</u>
  <u xml:id="DruzPolZb.1990-05-07.s001-01.sp-102.5"
      who="#BucarFrance1923"
      ana="#taxonomy.root #topic.1">Prosim poročevalca skupine,
     ki je delala pri USKLAJEVANJU PREDLOGA POSLOVNIKA, DA
     ZBORU POROČA O DELU oziroma o uspehu pri tem delu.</u>
</div>
```

Linguistic annotation of the corpus

 MSD tagged and lemmatised with ReLDI tagger https://github.com/clarinsi/reldi-tagger Output formatted in TEI, using the "Basic linguistic analysis" (TEI analysis) module

```
<s>
  <w lemma="2." ana="msd:Mdo">2.</w><c> </c>
  <w lemma="verifikacija" ana="msd:Ncfsn">Verifikacija</w>
  <c> </c>
  <w lemma="mandat" ana="msd:Ncmsg">mandata</w>
  <c> </c>
  <w lemma="v" ana="msd:Sl">v</w><c> </c>
  <w lemma="v" ana="msd:Sl">v</w><c> </c>
  <w lemma="zbor" ana="msd:Ncmsl">zboru</w>
  <pc ana="msd:Z">.</pc>
</s>
```

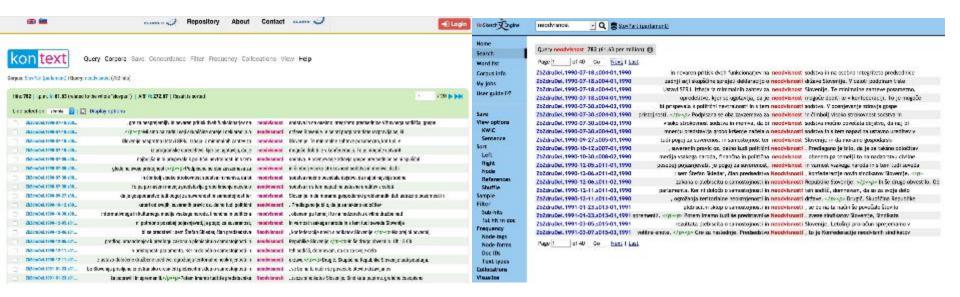
Availability and maintenance: open data in

- GitHub repositories:
 - DOCX to TEI drama conversion and annotation,
 Phase 1, https://github.com/SIstory/Sejni_zapiski
 - HTML to TEI drama conversion and annotation,
 Phase 1, https://github.com/SIstory/Seje_DZ
 - TEI drama additional annotation,
 Phase 2, https://github.com/SIstory/SlovParl
 - TEI speech, https://github.com/DARIAH-SI/CLARIN.SI
- CLARIN.SI repository
 (TEI speech + ling. annotated files)
 http://hdl.handle.net/11356/1167

Linguistically annotated version of the corpus @ CLARIN.SI concordancers

KonText

noSketch Engine



Conclusions

- Presented SlovParl, a corpus of Slovene Parliamentary Debates from the period of secession (1990 – 1992)
- Comprehensive, clean transcriptions, rich metadata on speakers, linguistically annotated
- Freely available for download and searching via powerful concordancers
- Nice example of DARIAH-SI and CLARIN.SI cooperation
- Future work: other time periods, accessible also as "digital library", undertake research based on this corpus