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

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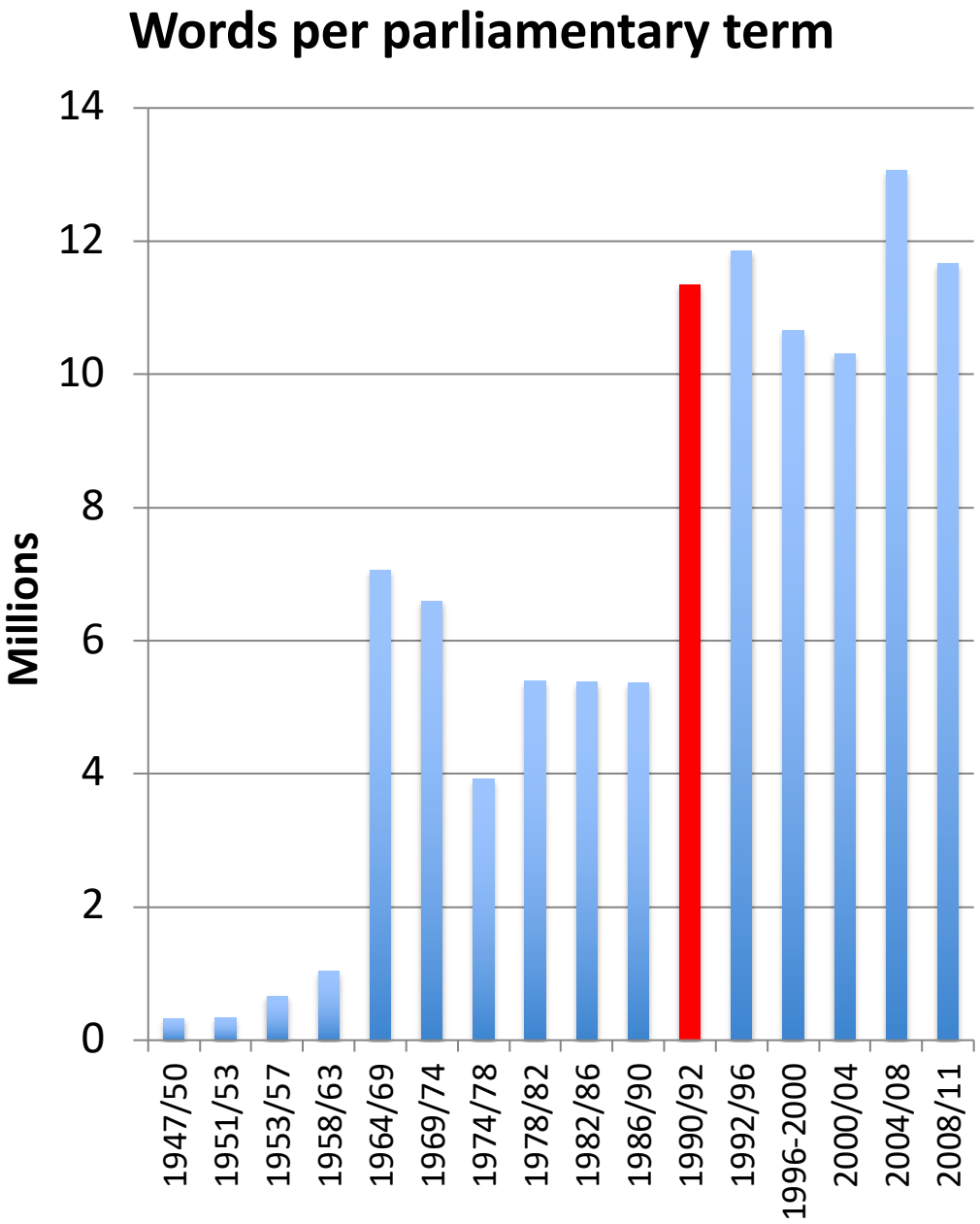
Overview of the talk

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



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">
         <list><!-- Table of contents -->
            <item></item>
         </list>
      </div>
      <div>
         <castList><!-- List of speakers -->
            <castItem><actor></actor></castItem>
         </castList>
      </div>
   </front>
   <body>
      <div>
         <!-- Meeting -->
      </div>
   </body>
   <back>
      <div type="appendix">
         <!-- Annex -->
      </div>
      <!-- Posible Table of contents,
           List of speakers -->
   </back>
</text>
```

```
<body>
   <div><!-- Meeting -->
      <stage>Non-verbal content</stage>
      <timeline>
      <!-- Set of ordered point in time which
           are linked to the <stage type="time"> -->
         <when/><!-- from -->
         <when/><!-- to -->
      </timeline>
      <div><!-- Topic -->
         <stage>Non-verbal content</stage>
         <sp who="#reference_to_the_actor">
            <speaker>Speaker's name, affiliation</speaker>
            <stage>Non-verbal content</stage>
            <p>Speech <stage>Non-verbal content</stage>,
               speech, speech.</p>
         </sp>
```

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

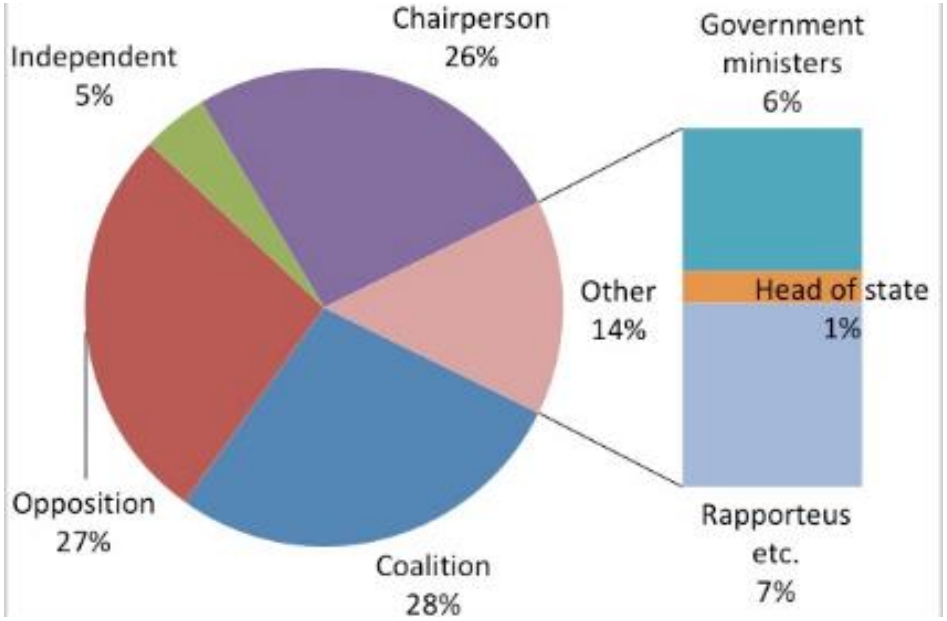
List of speakers:
523 persons with personal data:

- 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 <taxonomy> element

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 xml:id="DZ-1990-DruzPolZb-1.div.1.1.2.2"
   corresp="#DZ-1990-DruzPolZb-1.toc.2.2">
   <sp who="sp:BucarFrance1923"
      corresp="#DZ-1990-DruzPolZb-1.sp.BučarFrance">
      <speaker>PREDSEDUJOČI DR. FRANCE BUČAR:</speaker>
      <p>Lahko pričnemo sejo. <stage type="quorum">(68
         prisotnih.)</stage> Zbor je sklepčen.</p>
      <p>Prosim poročevalca skupine, ki je delala pri
         <title>USKLAJEVANJU PREDLOGA POSLOVNIKA, DA
            ZBORU POROČA O DELU</title> oziroma o uspehu
         pri tem delu.</p>
   </sp>
```

TEI speech

```
   <note xml:id="DruzPolZb.1990-05-07.s001-01.sp-101.5"
      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"
      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"
      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="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