

Digitizing the Canadian Parliamentary Debates



Kaspar Beelen, Christopher Cochrane, Graeme Hirst,
Nona Naderi, Ludovic Rheault, Tanya Whyte

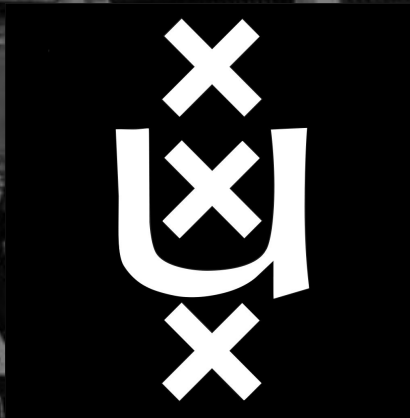
University of Toronto
Department of Computer Science
Department of Political Science

Dilipad Project Background

Digging into Linked Parliamentary Data (Dilipad)
- Tri-National Project



University of Toronto



University of Amsterdam



Institute of Historical Research



Dilipad Project Background

Digging into Linked Parliamentary Data (Dilipad)

- Funded by the Digging into Data Challenge

DIGGING INTO DATA

Dilipad Project Objectives

- Data Creation: Collect, Digitize and Enrich Parliamentary Proceedings in a uniform format

Dilipad Project Objectives

- Data Creation: Collect, Digitize and Enrich Parliamentary Proceedings in a uniform format
 - The Netherlands: *Tweede Kamer* and *Senaat* (1815-present)



Dilipad Project Objectives

- Data Creation: Collect, Digitize and Enrich Parliamentary Proceedings in a uniform format
 - The Netherlands: *Tweede Kamer* and *Senaat* (1815-present)
 - United Kingdom: House of Commons (1803-present)



Dilipad Project Objectives

- Data Creation: Collect, Digitize and Enrich Parliamentary Proceedings in a uniform format
 - The Netherlands: *Tweede Kamer* and *Senaat* (1815-present)
 - United Kingdom: House of Commons (1803-present)
 - Canada: House of Commons (1900-present)

Dilipad Project Objectives

- Outreach: Lipad.ca
- Indexed and searchable version of the corpus (see the following presentation by Tanya Whyte)

Digitization: Overview

5

OFFICIAL REPORT
OF THE
DEBATES
OF THE
HOUSE OF COMMONS
OF THE
DOMINION OF CANADA
SECOND SESSION—NINTH PARLIAMENT
2 EDWARD VII., 1902
VOL. LVI
COMPRISING THE PERIOD FROM THE THIRTEENTH DAY OF FEBRUARY TO THE
NINTH DAY OF APRIL, INCLUSIVE



OTTAWA
PRINTED BY S. E. DAWSON, PRINTER TO THE KING'S MOST
EXCELLENT MAJESTY
1902

gentleman corroborated every word I said. Instead of exaggerating the statement I made it as mild as possible. Here was a case of small-pox, a case coming to our shores where an epidemic might have been spread all over Prince Edward Island and the government of this country, or the local government, let that patient be driven through a part of the hon. gentleman's riding of King's, and a part of the riding of East Queen's from Georgetown to a point near Charlottetown, a distance of thirty miles. That man went in that carriage on which there was placed no flag, without anything being provided to notify the people along the line of the route of the fact that a small-pox case was being carried. The hon. gentleman says that the carriage broke down and that they had to go to a blacksmith's shop to repair it. I am not exaggerating the statement at all, and the hon. gentleman has himself confirmed my statement that this patient having the small-pox was driven thirty miles through the province of Prince Edward Island, liable to spread the disease all over the country, and yet the hon. gentleman makes light of it. The public health of our people is of great importance, and every precaution should be taken to safeguard it. When this gentleman gets up here and says I have exaggerated, he says what is not correct.

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Mr. TAYLOR. In 1895-6, \$35,000 was all that was asked for this service but this year three times that amount is to be voted. How is it possible that there could be such an increase in this item?

The MINISTER OF AGRICULTURE. In the first place, the work in connection

with the frontier was not in existence at all in 1895-6, and in the second place we had not a small-pox outbreak, and we had not the Yukon to look after. All these additions have caused the increase.

Mr. TAYLOR. I think the real explanation is that the minister had a number of doctors that he wanted to give \$100 a month to, in order that they might draw the money and do nothing. I suppose the minister will give us the names of all the doctors that are employed in the department so that we may know where this extra \$70,000 went.

The MINISTER OF AGRICULTURE. I will get that information.

Mr. MONK. Did we spend the entire \$110,000 last year?

The MINISTER OF AGRICULTURE. The \$110,000 is for the current year, and I am afraid we will have to ask for a supplementary vote.

Mr. MONK. What was the amount we spent last year?

The MINISTER OF AGRICULTURE. \$75,000.

Mr. MONK. And you are asking for \$35,000 more.

The MINISTER OF AGRICULTURE. Yes, and we will have to ask for more still. I regret to say that this expenditure by my department is only a small part of what the people of Canada are to-day paying on account of this small-pox outbreak. If the hon. gentleman will refer to the expenditure by the local and municipal authorities, he will find that probably several million dollars are expended in Canada this year on account of this outbreak of small-pox.

Mr. MONK. But the damage small-pox may cause has nothing to do with the inspection along the frontier. The minister tells us that there is no danger from the New England states, and that the only danger is from the Western states. Thirty-five thousand dollars in addition to what we spent last year is a very large amount, when the prospect is that we will not require so much. I think that vote ought to be reduced.

The MINISTER OF AGRICULTURE. The hon. gentleman does not seem to have followed the discussion. The expenditure along the frontier has been intermittent but constantly increasing, and the prospect seems to be that it will go on. If it does not go on the money will not be spent, but I fear that it is necessary to provide for this contingency, and this year not only will I have to spend \$110,000, but I shall have to ask for a considerable amount more to cover the expenditure for the next four months of the current year. A large amount of this money has been spent in the Yukon and in the territories dealing with small-pox

gentleman corroborated every word I said. Instead of exaggerating the statement I made it as mild as possible. Here was a case of small-pox, a case coming to our shores where an epidemic might have been spread all over Prince Edward Island and the government of this country, or the local government, let that patient be driven through a part of the hon. gentleman's riding of King's, and a part of the riding of East Queen's from Georgetown to a point near Charlottetown, a distance of thirty miles. That man went in that carriage on which there was placed no flag, without anything being provided to notify the people along the line of the route of the fact that a small-pox case was being carried. The hon. gentleman says that the carriage broke down and that they had to go to a blacksmith's shop to repair it. I am not exaggerating the statement at all, and the hon. gentleman has himself confirmed my statement that this patient having the small-pox was driven thirty miles through the province of Prince Edward Island, liable to spread the disease all over the country, and yet the hon. gentleman makes light of it. The public health of our people is of great importance, and every precaution should be taken to safeguard it. When this gentleman gets up here and says I have exaggerated, he says what is not correct.

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Mr. TAYLOR. In 1895-6, \$85,000 was all that was asked for this service but this year three times that amount is to be voted. How is it possible that there could be such an increase in this item?

The MINISTER OF AGRICULTURE. In the first place, the work in connection

with the frontier was not in existence at all in 1895-6, and in the second place we had not a small-pox outbreak, and we had not the Yukon to look after. All these additions have caused the increase.

Mr. TAYLOR. I think the real explanation is that the minister had a number of doctors that he wanted to give \$100 a month to, in order that they might draw the money and do nothing. I suppose the minister will give us the names of all the doctors that are employed in the department so that we may know where this extra \$70,000 went.

The MINISTER OF AGRICULTURE. I will get that information.

Mr. MONK. Did we spend the entire \$110,000 last year?

The MINISTER OF AGRICULTURE. The \$110,000 is for the current year, and I am afraid we will have to ask for a supplementary vote.

Mr. MONK. What was the amount we spent last year?

The MINISTER OF AGRICULTURE. \$75,000.

Mr. MONK. And you are asking for \$35,000 more.

The MINISTER OF AGRICULTURE. Yes, and we will have to ask for more still. I regret to say that this expenditure by my department is only a small part of what the people of Canada are to-day paying on account of this small-pox outbreak. If the hon. gentleman will refer to the expenditure by the local and municipal authorities, he will find that probably several million dollars are expended in Canada this year on account of this outbreak of small-pox.

Mr. MONK. But the damage small-pox may cause by nothing to do with the inspection along the frontier. The minister tells us that there is no danger from the New England states, and that the only danger is from the Western states. Thirty-five thousand dollars in addition to what we spent last year is a very large amount, when the prospect is that we will not require so much. I think that vote ought to be reduced.

The MINISTER OF AGRICULTURE. The hon. gentleman does not seem to have followed the discussion. The expenditure along the frontier has been intermittent but constantly increasing, and the prospect seems to be that it will go on. If it does not go on the money will not be spent, but I fear that it is necessary to provide for this contingency, and this year not only will I have to spend \$110,000, but I shall have to ask for a considerable amount more to cover the expenditure for the next four months of the current year. A large amount of this money has been spent in the Yukon and in the territories dealing with small-pox

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Enrichment: Why Semantic Annotation?

gentleman corroborated every word I said. Instead of exaggerating the statement I made it as mild as possible. Here was a case of small-pox, a case coming to our shores where an epidemic might have been spread all over Prince Edward Island and the government of this country, or the local government, let that patient be driven through a part of the hon. gentleman's riding of King's, and a part of the riding of East Queen's from Georgetown to a point near Charlottetown, a distance of thirty miles. That man went in that carriage on which there was placed no flag, without anything being provided to notify the people along the line of the route of the fact that a small-pox case was being carried. The hon. gentleman says that the carriage broke down and that they had to go to a blacksmith's shop to repair it. I am not exaggerating the statement at all, and the hon. gentleman has himself confirmed my statement that this patient having the small-pox was driven thirty miles through the province of Prince Edward Island, liable to spread the disease all over the country, and yet the hon. gentleman makes light of it. The public health of our people is of great importance, and every precaution should be taken to safeguard it. When this gentleman gets up here and says I have exaggerated, he says what is not correct.

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Mr. TAYLOR. In 1895-6, \$35,000 was all that was asked for this service but this year three times that amount is to be voted. How is it possible that there could be such an increase in this item?

The MINISTER OF AGRICULTURE. In the first place, the work in connection

with the frontier was not in existence at all in 1895-6, and in the second place we had not a small-pox outbreak, and we had not the Yukon to look after. All these additions have caused the increase.

Mr. TAYLOR. I think the real explanation is that the minister had a number of doctors that he wanted to give \$100 a month to, in order that they might draw the money and do nothing. I suppose the minister will give us the names of all the doctors that are employed in the department so that we may know where this extra \$70,000 went.

The MINISTER OF AGRICULTURE. I will get that information.

Mr. MONK. Did we spend the entire \$110,000 last year?

The MINISTER OF AGRICULTURE. The \$110,000 is for the current year, and I am afraid we will have to ask for a supplementary vote.

Mr. MONK. What was the amount we spent last year?

The MINISTER OF AGRICULTURE. \$75,000.

Mr. MONK. And you are asking for \$35,000 more.

The MINISTER OF AGRICULTURE. Yes, and we will have to ask for more still. I regret to say that this expenditure by my department is only a small part of what the people of Canada are to-day paying on account of this small-pox outbreak. If the hon. gentleman will refer to the expenditure by the local and municipal authorities, he will find that probably several million dollars are expended in Canada this year on account of this outbreak of small-pox.

Mr. MONK. But the damage small-pox may cause has nothing to do with the inspection along the frontier. The minister tells us that there is no danger from the New England states, and that the only danger is from the Western states. Thirty-five thousand dollars in addition to what we spent last year is a very large amount, when the prospect is that we will not require so much. I think that vote ought to be reduced.

The MINISTER OF AGRICULTURE. The hon. gentleman does not seem to have followed the discussion. The expenditure along the frontier has been intermittent but constantly increasing, and the prospect seems to be that it will go on. If it does not go on the money will not be spent, but I fear that it is necessary to provide for this contingency, and this year not only will I have to spend \$110,000, but I shall have to ask for a considerable amount more to cover the expenditure for the next four months of the current year. A large amount of this money has been spent in the Yukon and in the territories dealing with small-pox

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Enrichment: Why Semantic Annotation?

gentleman corroborated every word I said. Instead of exaggerating the statement I made it as mild as possible. Here was a case of small-pox, a case coming to our shores where an epidemic might have been spread all over Prince Edward Island and the government of this country, or the local government, let that patient be driven through a part of the hon. gentleman's riding of King's, and a part of the riding of East Queen's from Georgetown to a point near Charlottetown, a distance of thirty miles. That man went in that carriage on which there was placed no flag, without anything being provided to notify the people along the line of the route of the fact that a small-pox case was being carried. The hon. gentleman says that the carriage broke down and that they had to go to a blacksmith's shop to repair it. I am not exaggerating the statement at all, and the hon. gentleman has himself confirmed my statement that this patient having the small-pox was driven thirty miles through the province of Prince Edward Island, liable to spread the disease all over the country, and yet the hon. gentleman makes light of it. The public health of our people is of great importance, and every precaution should be taken to safeguard it. When this gentleman gets up here and says I have exaggerated, he says what is not correct.

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Mr. TAYLOR. In 1895-6, \$35,000 was all that was asked for this service but this year three times that amount is to be voted. How is it possible that there could be such an increase in this item?

The MINISTER OF AGRICULTURE. In the first place, the work in connection

with the frontier was not in existence at all in 1895-6, and in the second place we had not a small-pox outbreak, and we had not the Yukon to look after. All these additions have caused the increase.

Mr. TAYLOR. I think the real explanation is that the minister had a number of doctors that he wanted to give \$100 a month to, in order that they might draw the money and do nothing. I suppose the minister will give us the names of all the doctors that are employed in the department so that we may know where this extra \$70,000 went.

The MINISTER OF AGRICULTURE. I will get that information.

Mr. MONK. Did we spend the entire \$110,000 last year?

The MINISTER OF AGRICULTURE. The \$110,000 is for the current year, and I am afraid we will have to ask for a supplementary vote.

Mr. MONK. What was the amount we spent last year?

The MINISTER OF AGRICULTURE. \$75,000.

Mr. MONK. And you are asking for \$35,000 more.

The MINISTER OF AGRICULTURE. Yes, and we will have to ask for more still. I regret to say that this expenditure by my department is only a small part of what the people of Canada are to-day paying on account of this small-pox outbreak. If the hon. gentleman will refer to the expenditure by the local and municipal authorities, he will find that probably several million dollars are expended in Canada this year on account of this outbreak of small-pox.

Mr. MONK. But the damage small-pox may cause has nothing to do with the inspection along the frontier. The minister tells us that there is no danger from the New England states, and that the only danger is from the Western states. Thirty-five thousand dollars in addition to what we spent last year is a very large amount, when the prospect is that we will not require so much. I think that vote ought to be reduced.

The MINISTER OF AGRICULTURE. The hon. gentleman does not seem to have followed the discussion. The expenditure along the frontier has been intermittent but constantly increasing, and the prospect seems to be that it will go on. If it does not go on the money will not be spent, but I fear that it is necessary to provide for this contingency, and this year not only will I have to spend \$110,000, but I shall have to ask for a considerable amount more to cover the expenditure for the next four months of the current year. A large amount of this money has been spent in the Yukon and in the territories dealing with small-pox

Mr. HUGHES (Kings). What would you do with the patient under the circumstances?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Enrichment: Why Semantic Annotation?

Enrichment: Why Semantic Annotation?



Mr. HUGHES (Kings). What would you do with the patient under the circumstances ?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.



Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more ?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Enrichment: Why Semantic Annotation?

Liberal



Mr. HUGHES (Kings). What would you do with the patient under the circumstances ?

Some hon. MEMBERS. Kill him.

Mr. HUGHES (King's). Let me make a further statement. There was some local discussion about this, and the patient stated himself in the newspapers that he was quite comfortable during the drive, that every precaution was taken, that he had no fault to find with the means to bring him to the hospital where he would get the best medical treatment, and the proof of his being well cared for is that he recovered in a short time, and that the disease did not spread.

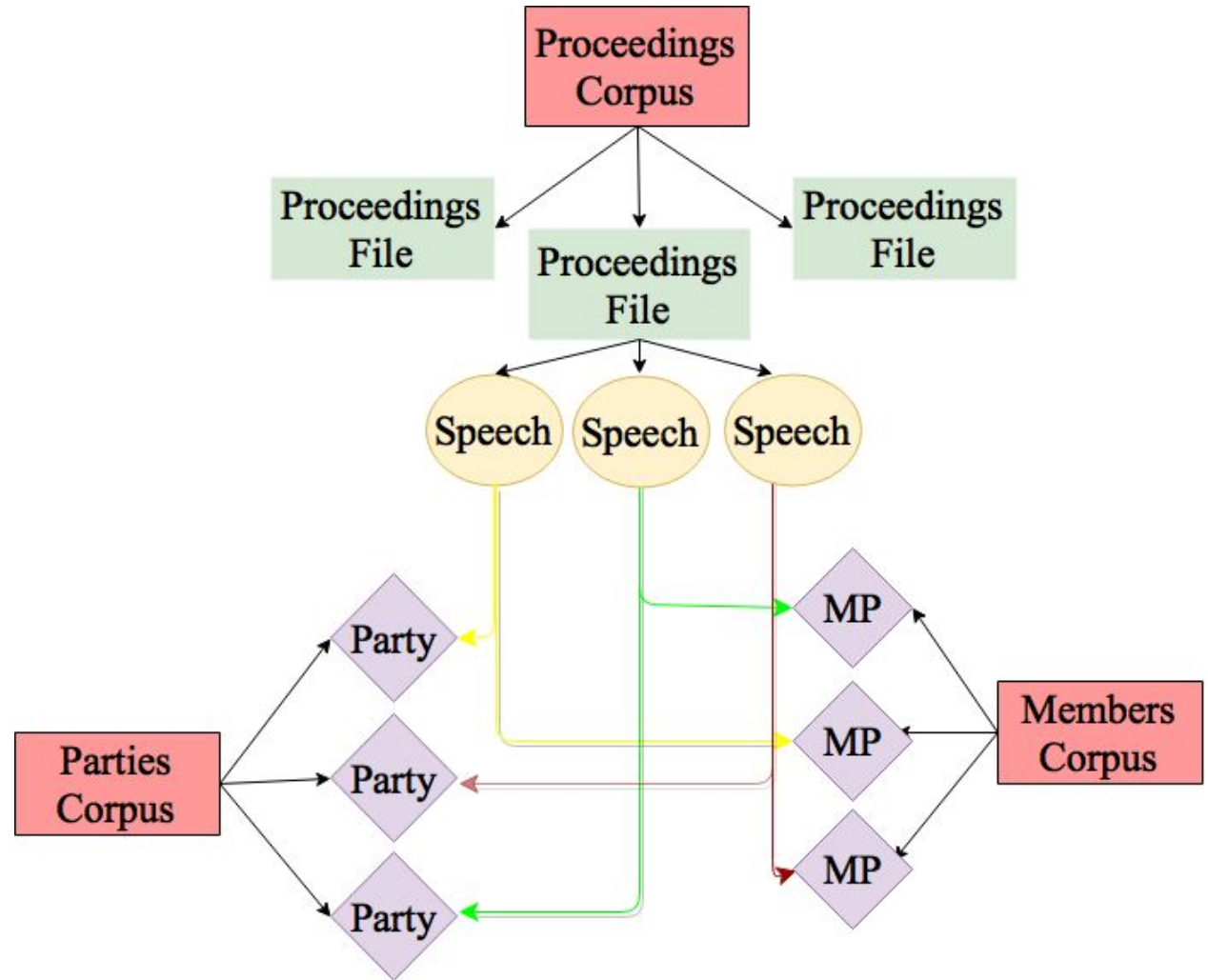
Mr. TAYLOR. Last year this same vote was asked for and also a supplementary vote. Will the \$110,000 cover the whole service this year or will the minister ask for more ?

The MINISTER OF AGRICULTURE. I hope that this will be sufficient, but that will depend entirely on the extent of the outbreak of the disease, which I cannot foretell.

Conservative

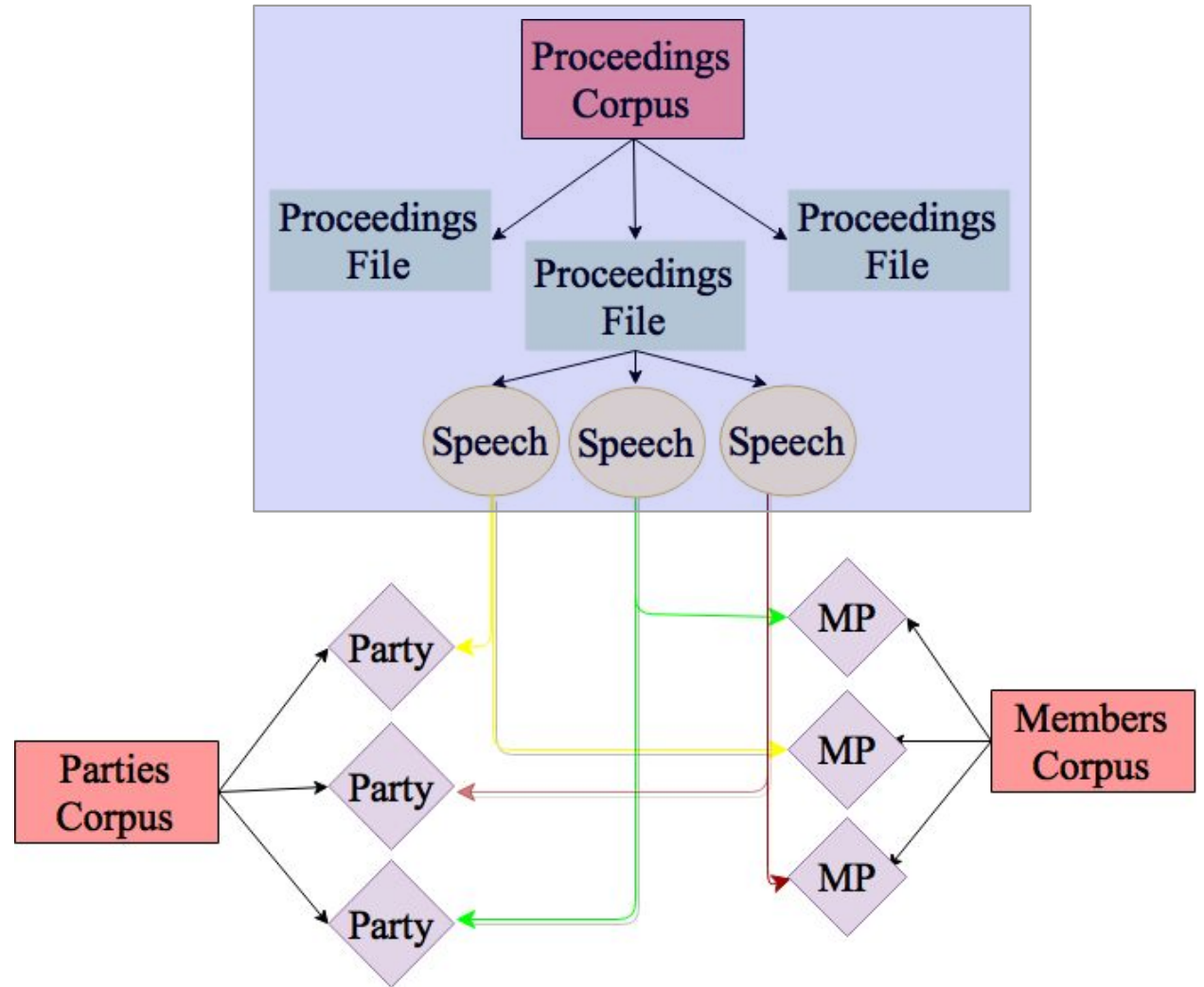


Corpus Structure



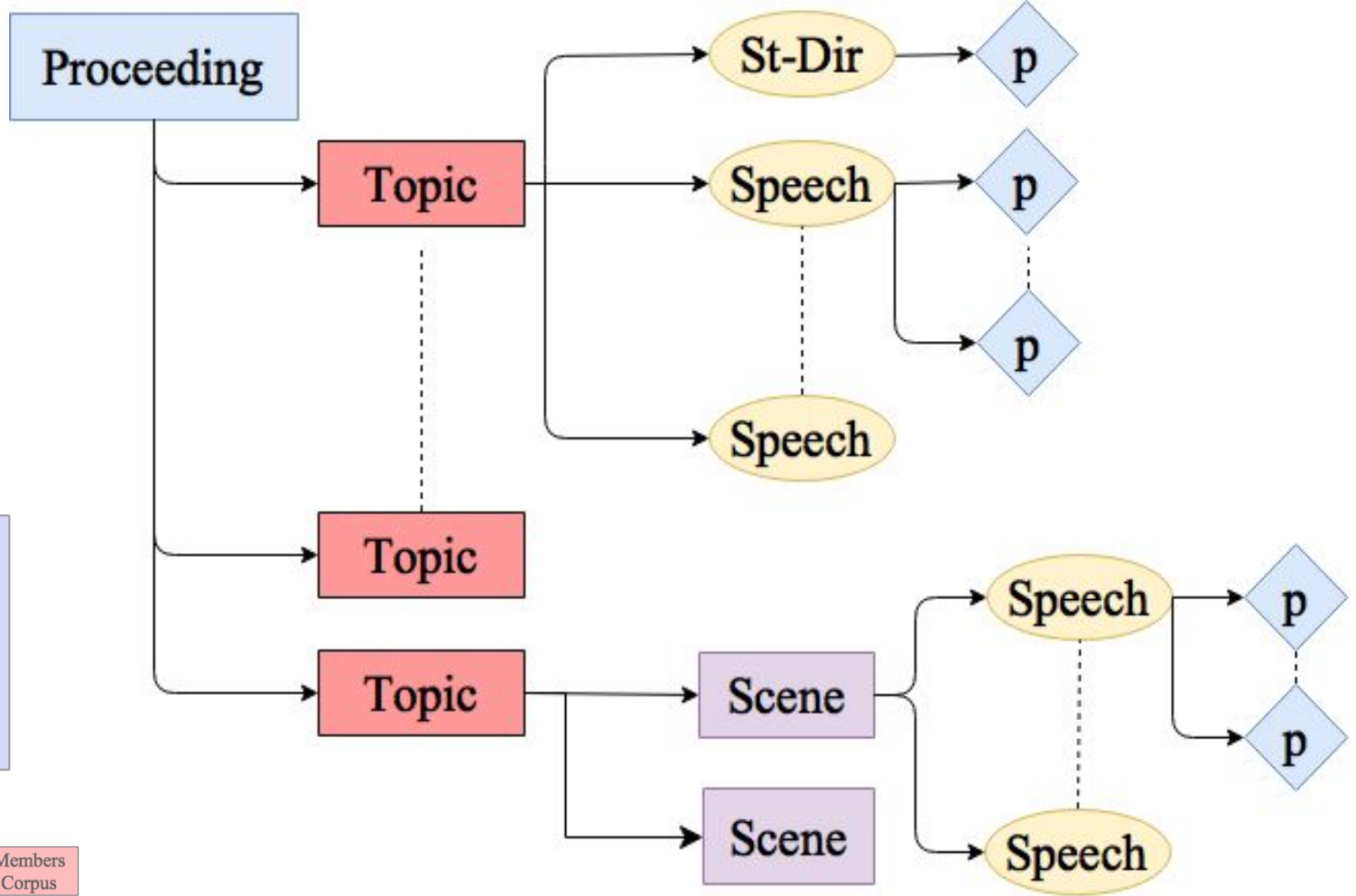
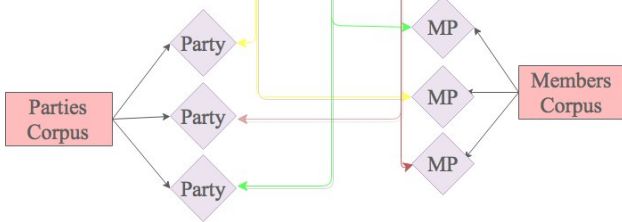
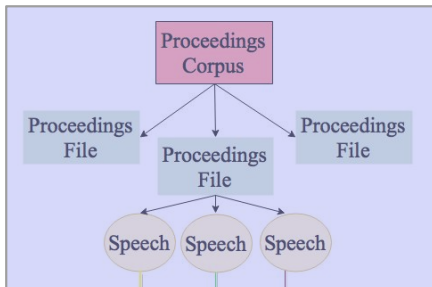
Corpus Structure

Proceedings



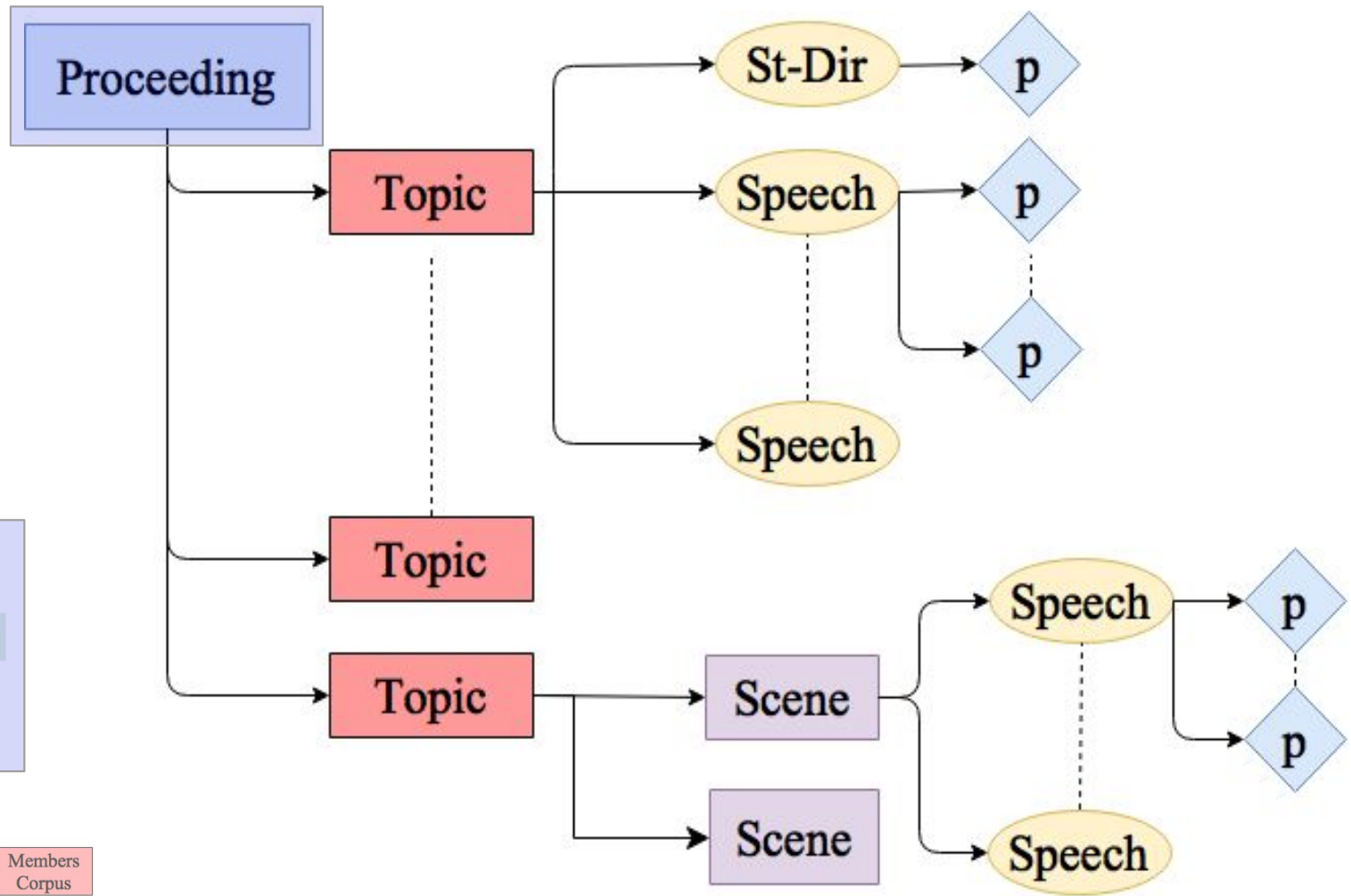
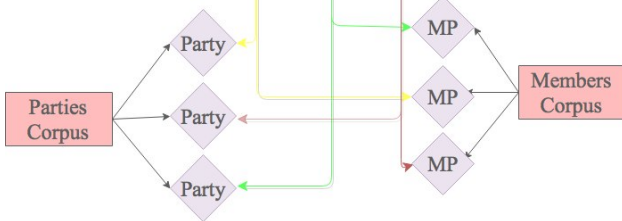
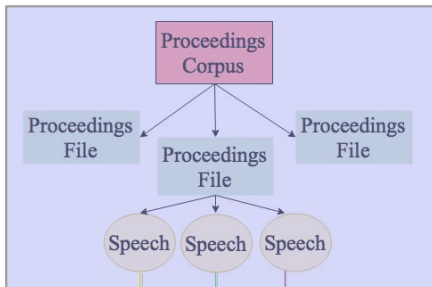
Dilipad Scheme

Proceedings



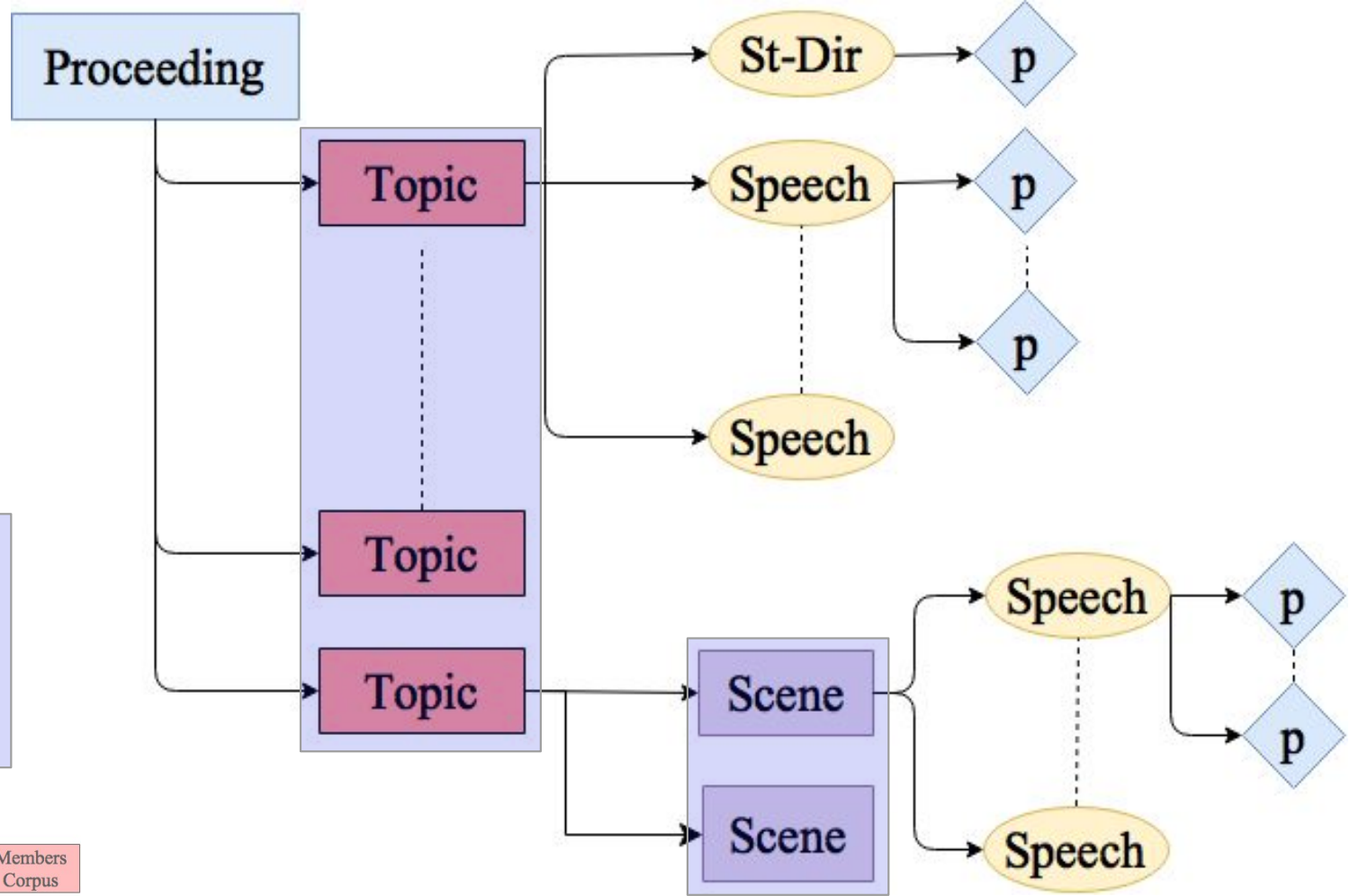
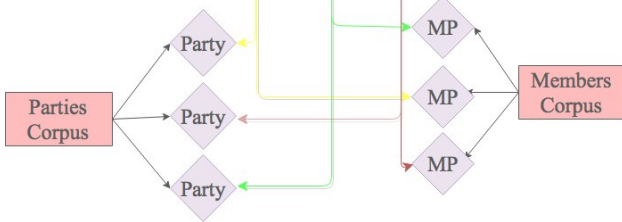
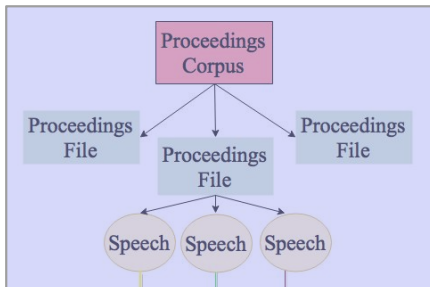
Dilipad Scheme

Proceedings



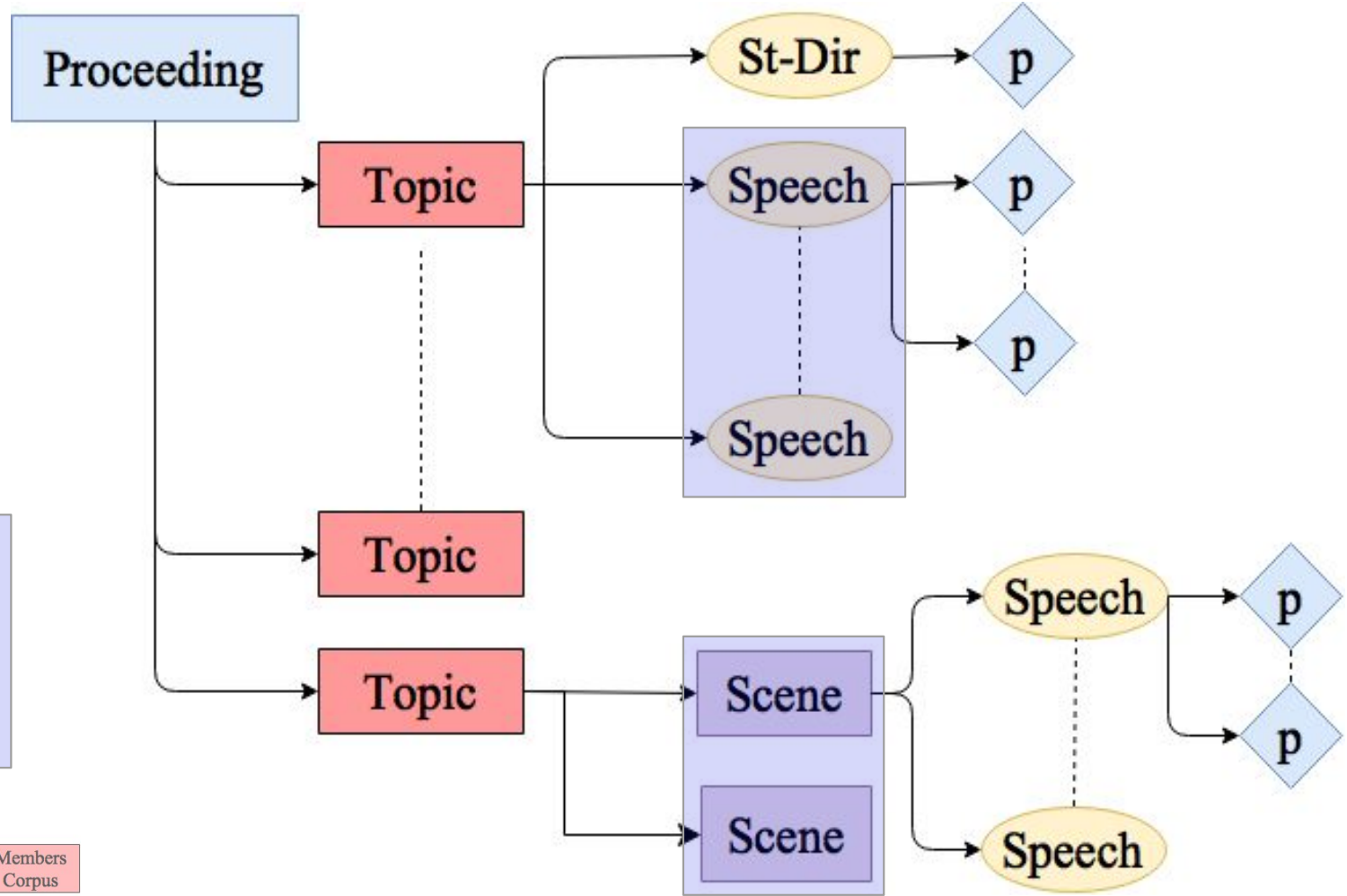
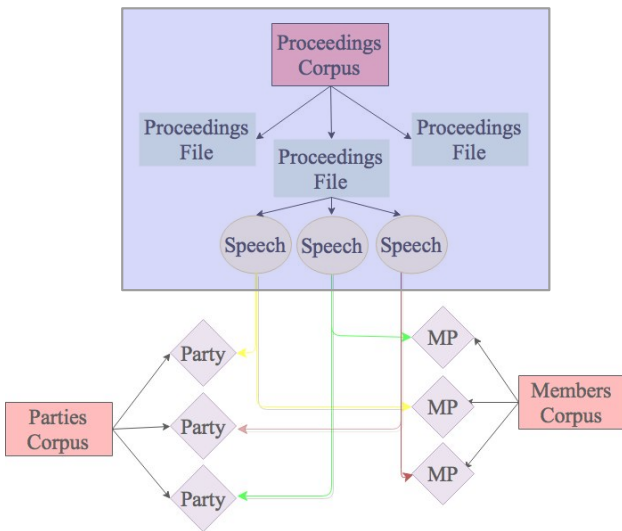
Dilipad Scheme

Proceedings



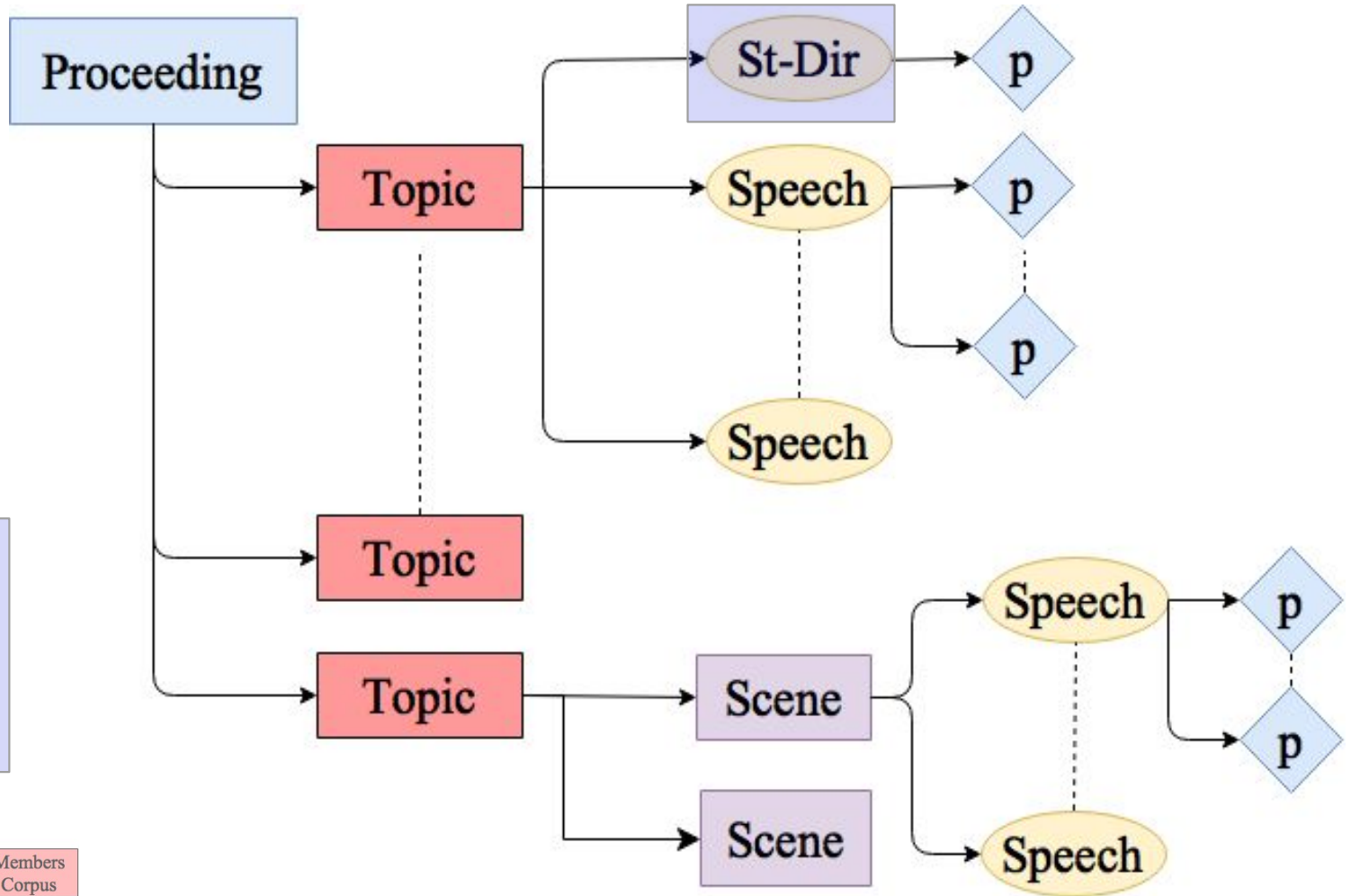
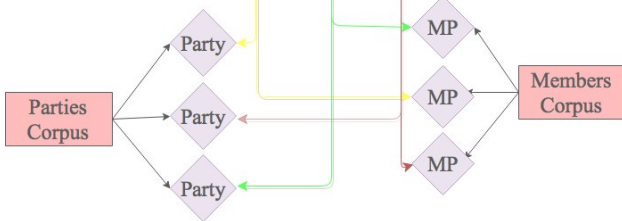
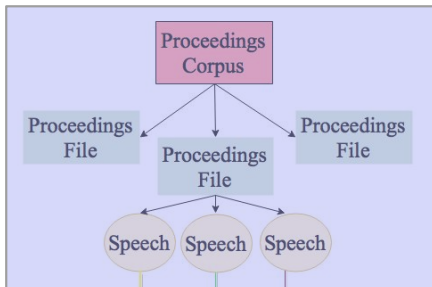
Dilipad Scheme

Proceedings



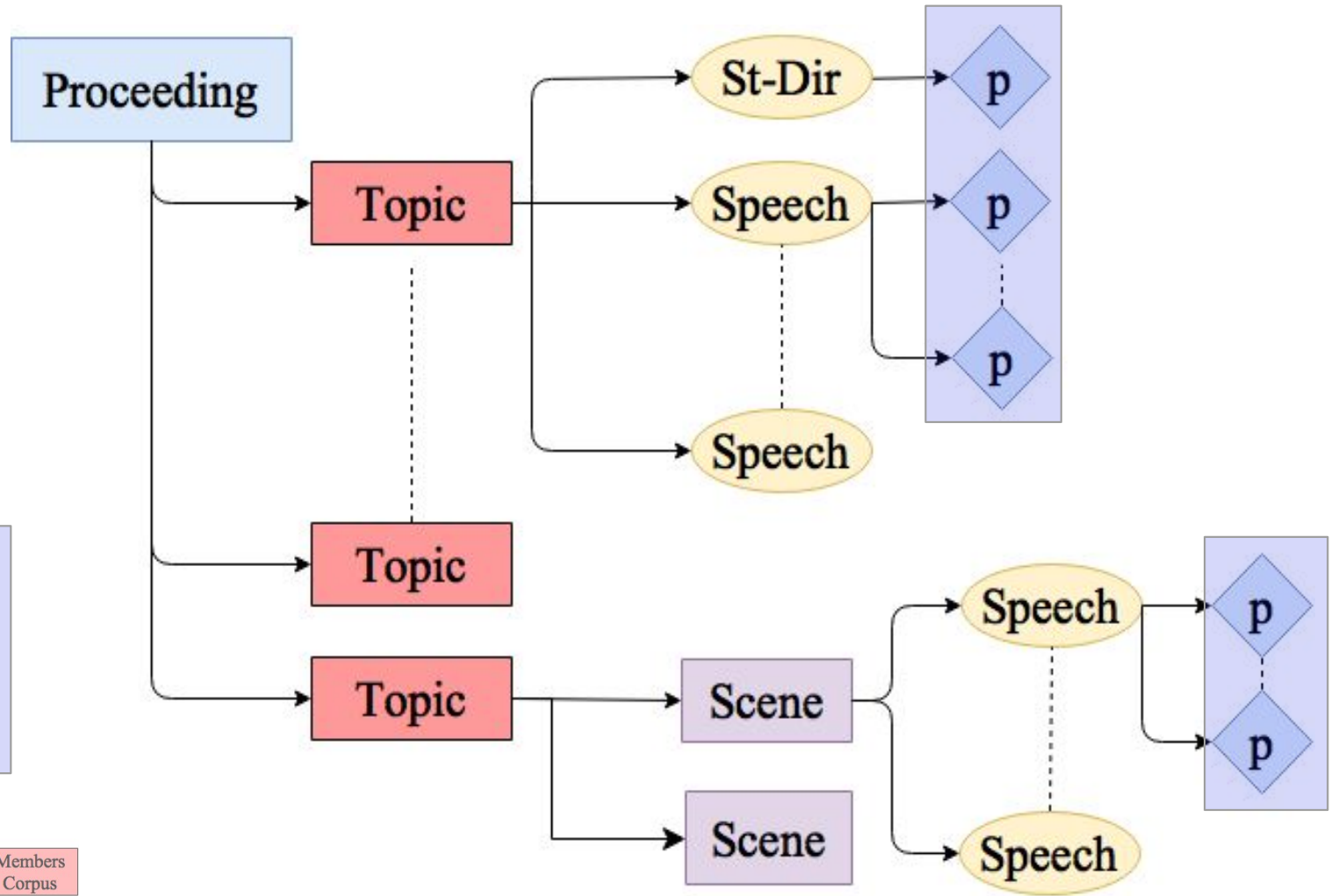
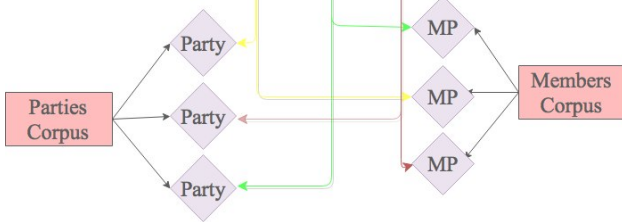
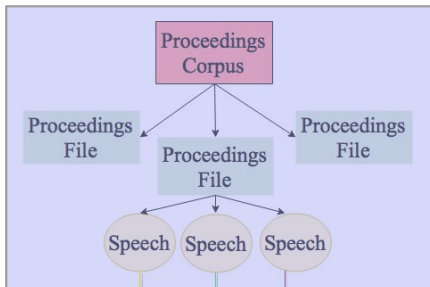
Dilipad Scheme

Proceedings



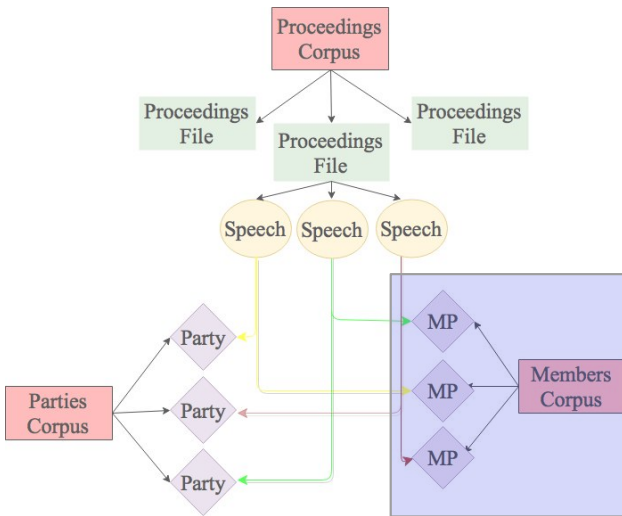
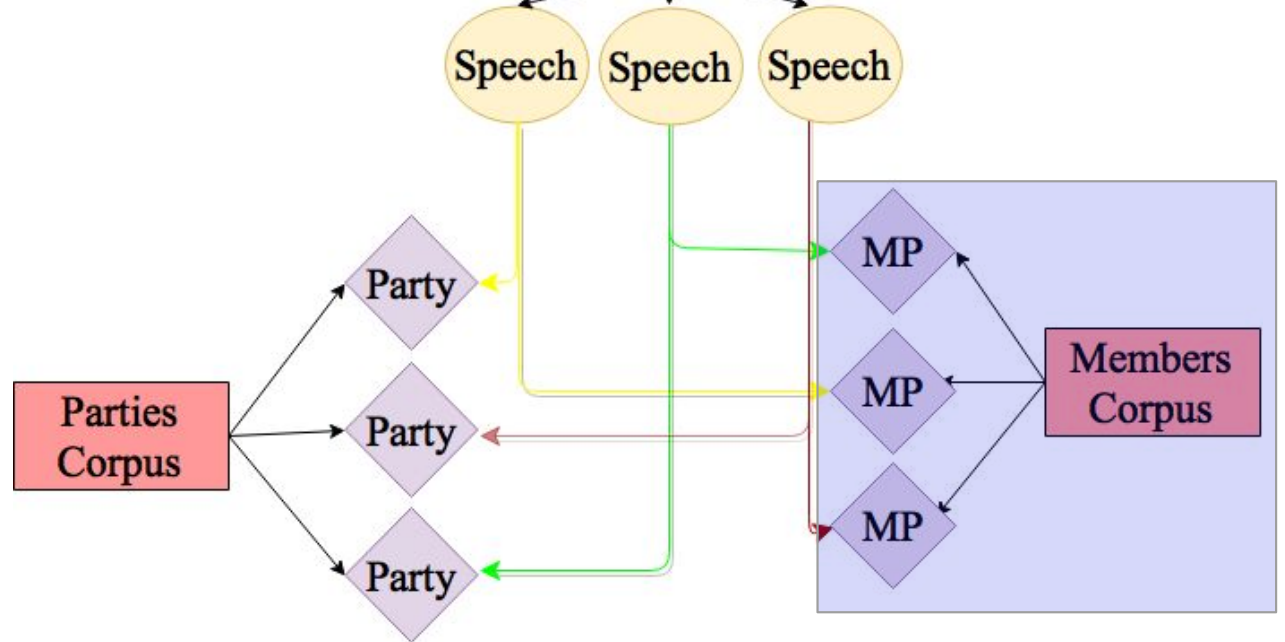
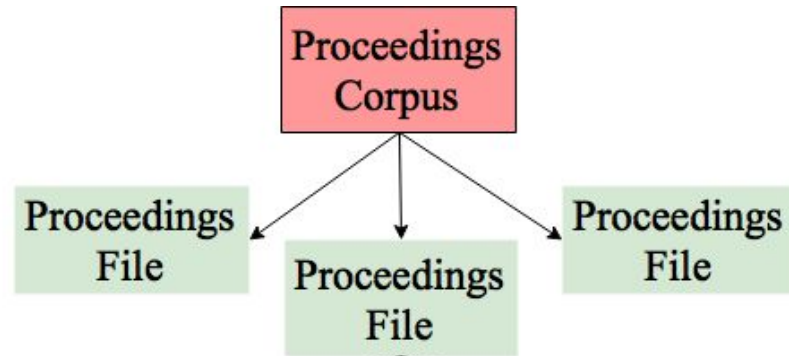
Dilipad Scheme

Proceedings



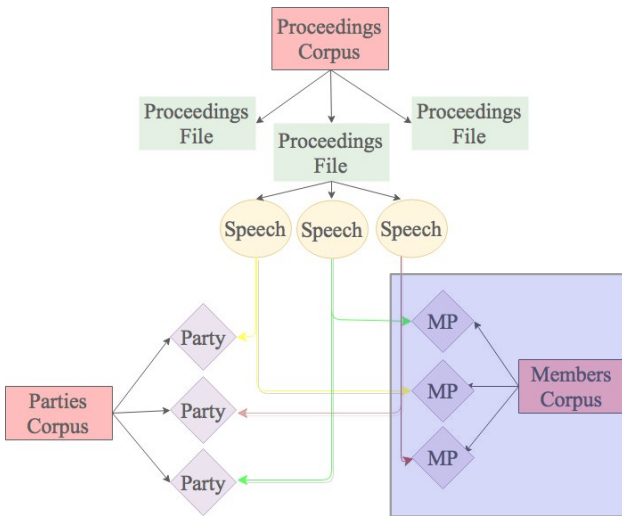
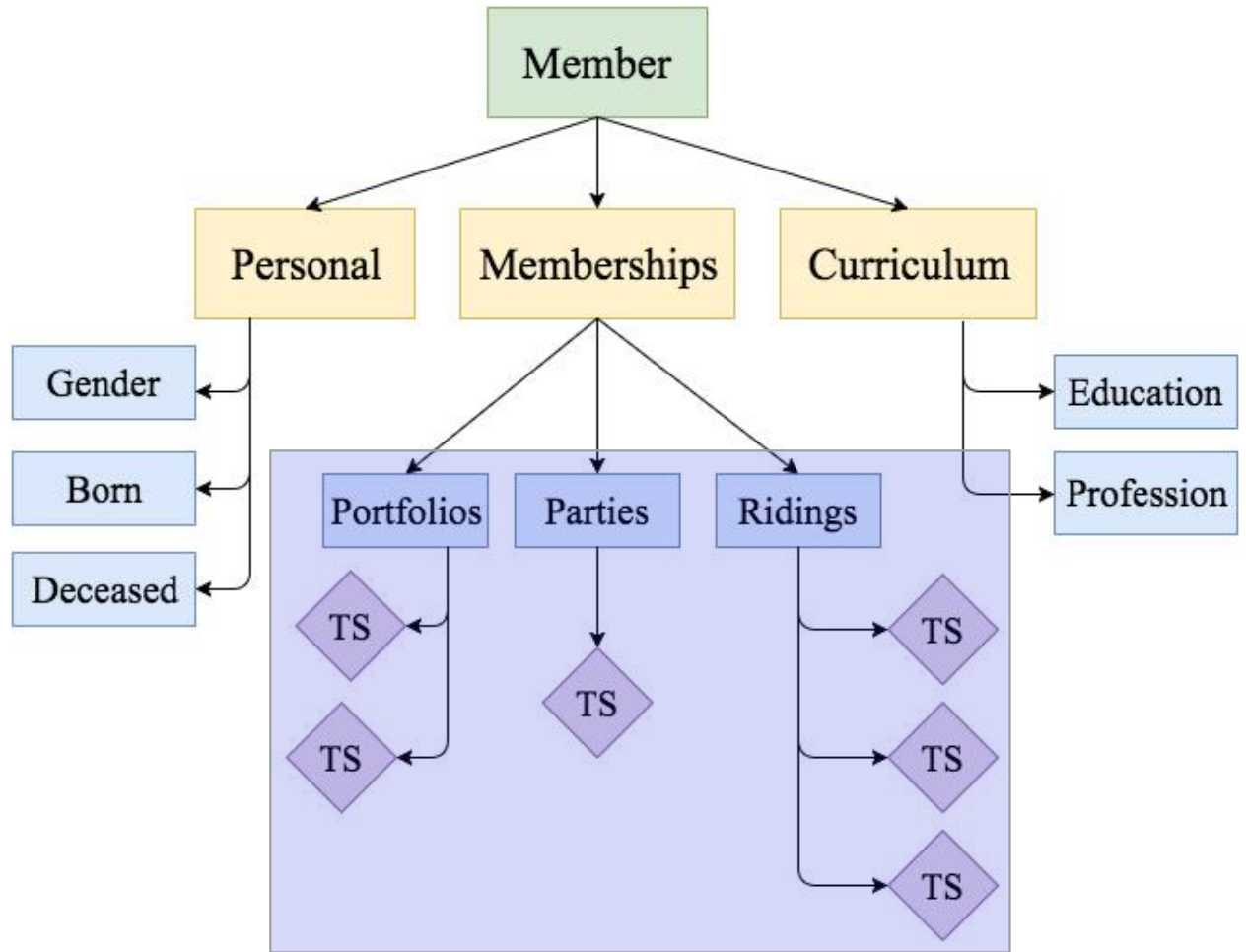
Dilipad Scheme

Members



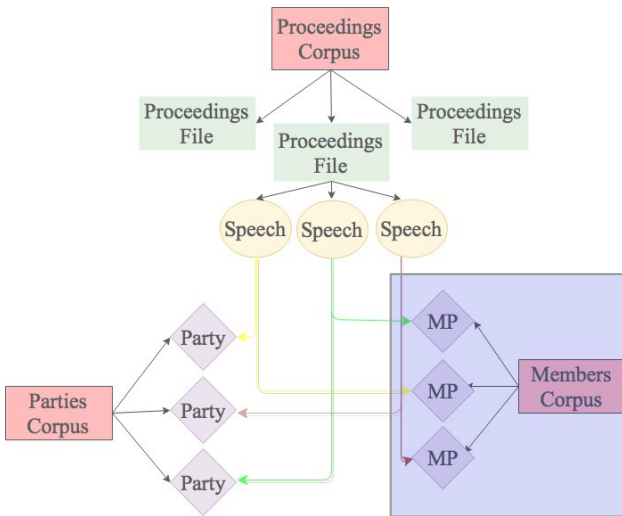
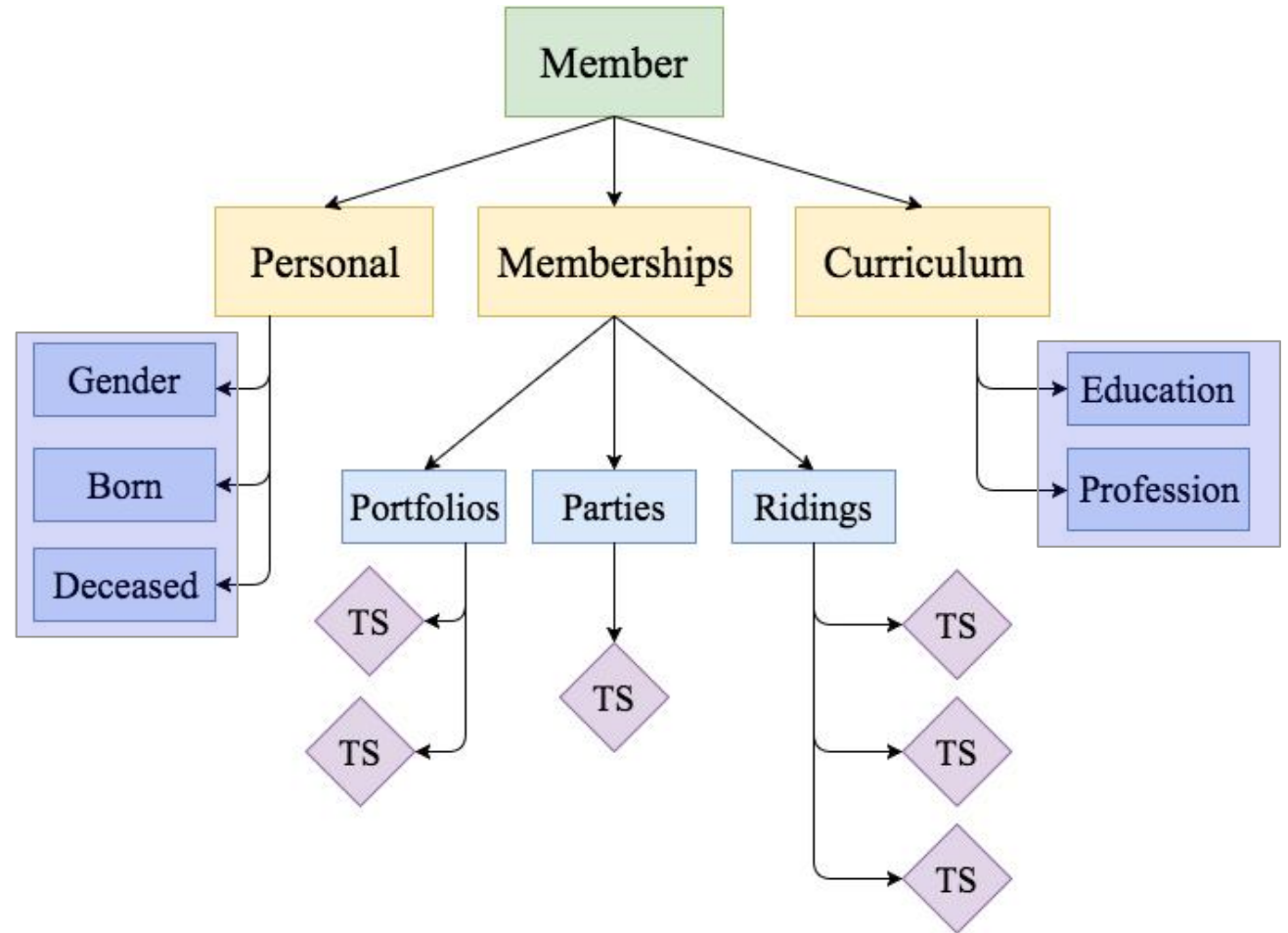
Dilipad Scheme

Members



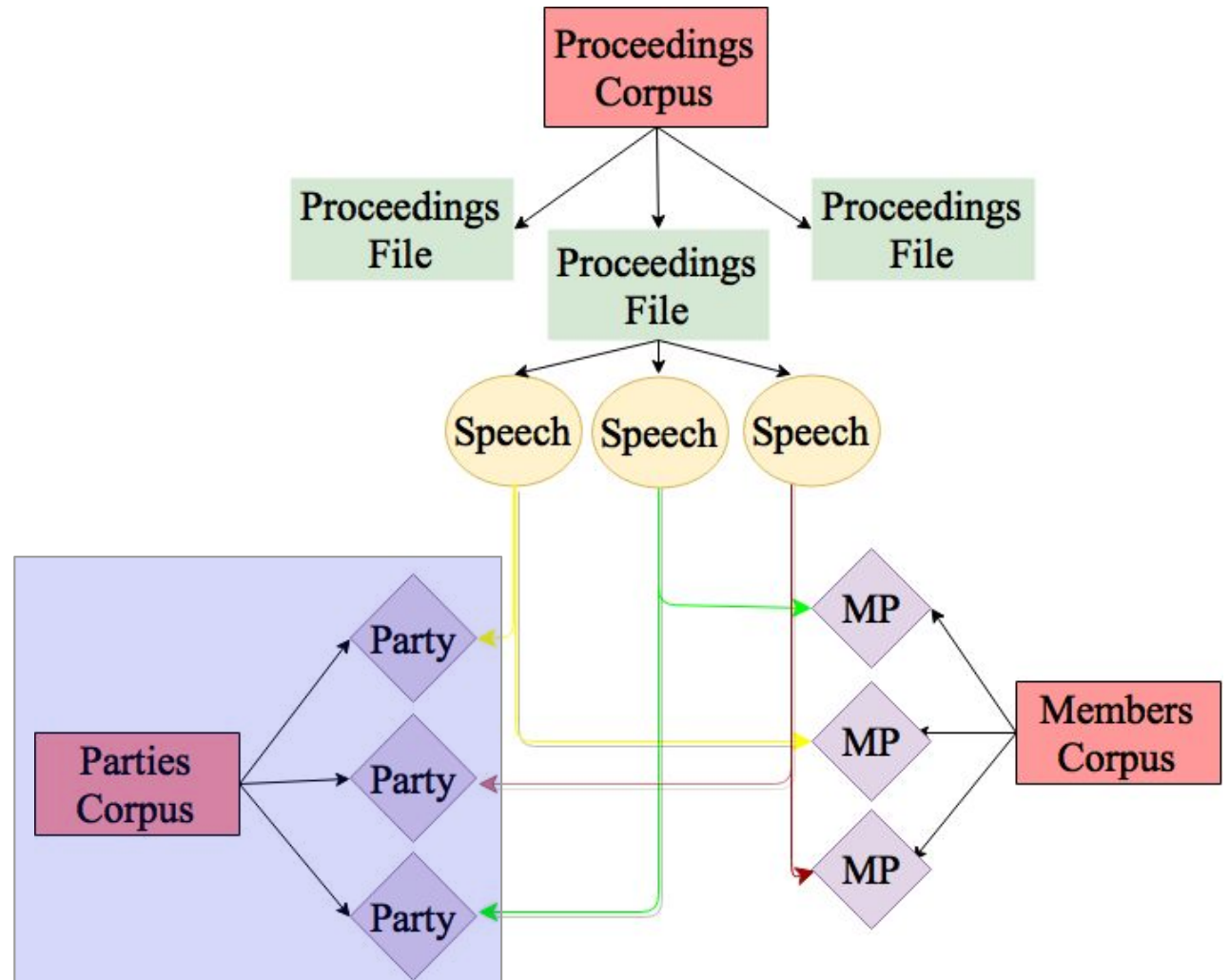
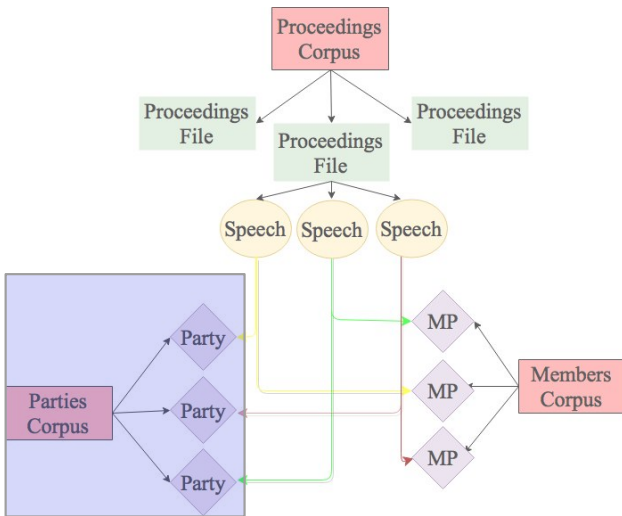
Dilipad Scheme

Members

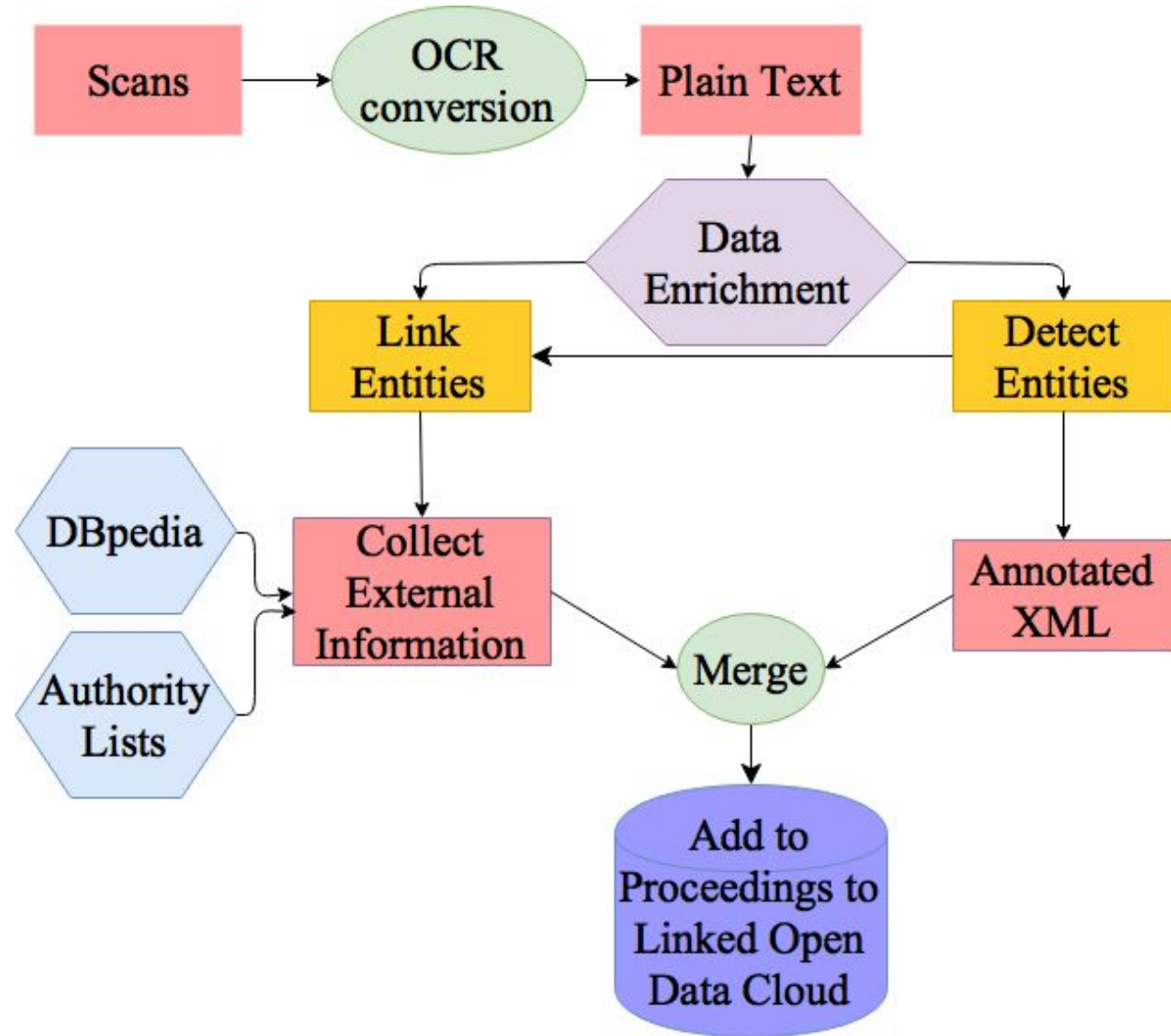


Dilipad Scheme

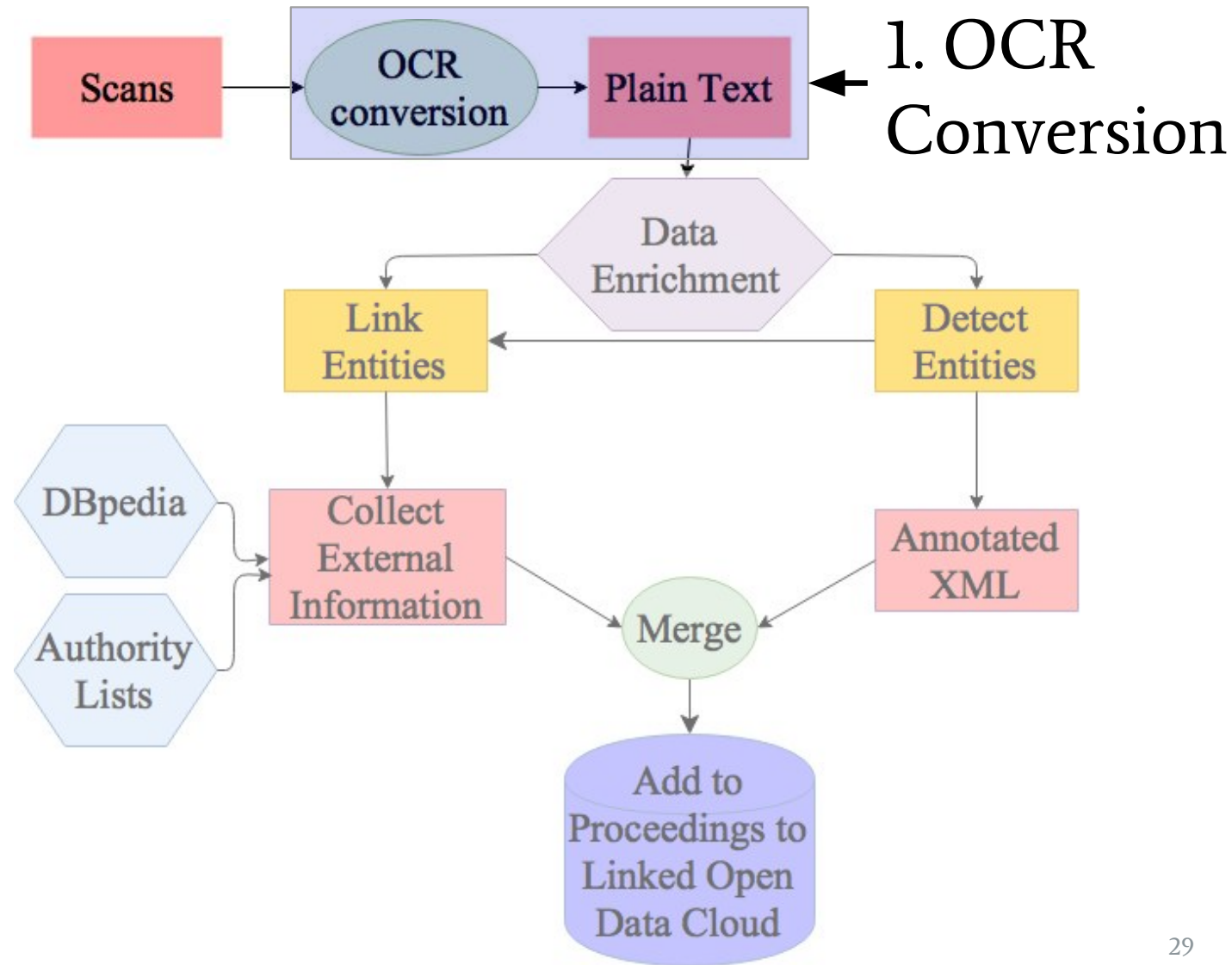
Parties



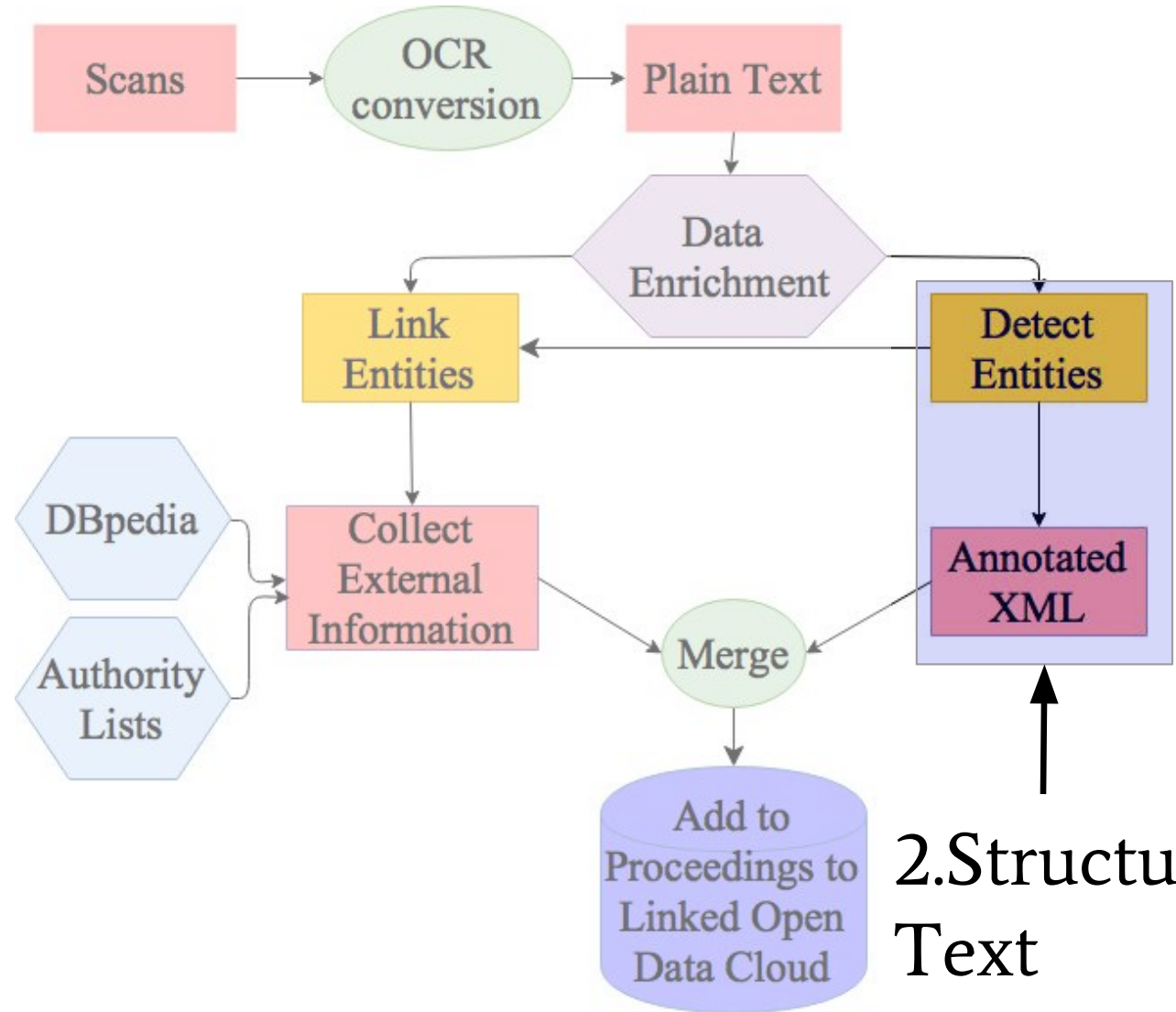
Project Workflow



Project Workflow



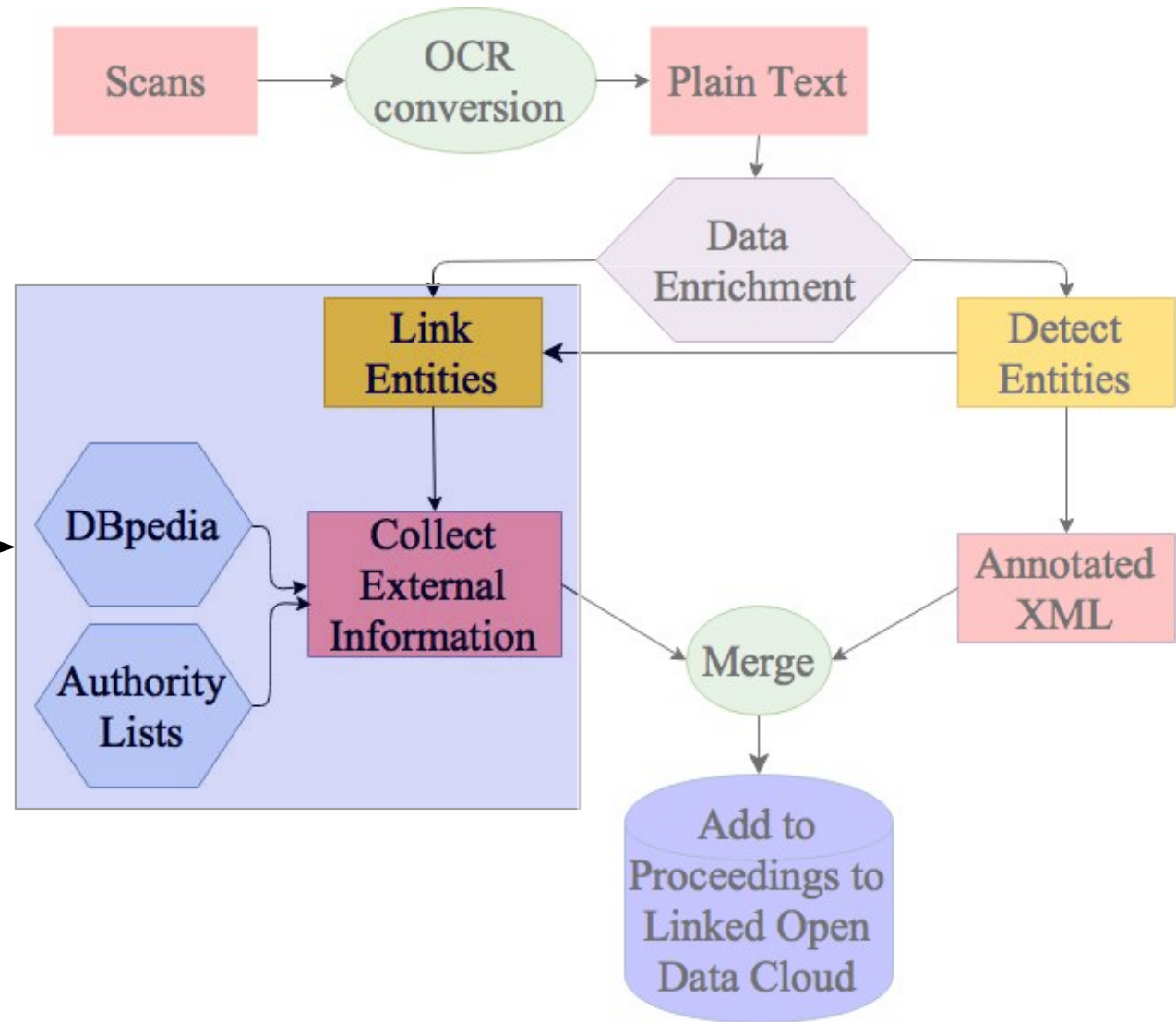
Project Workflow



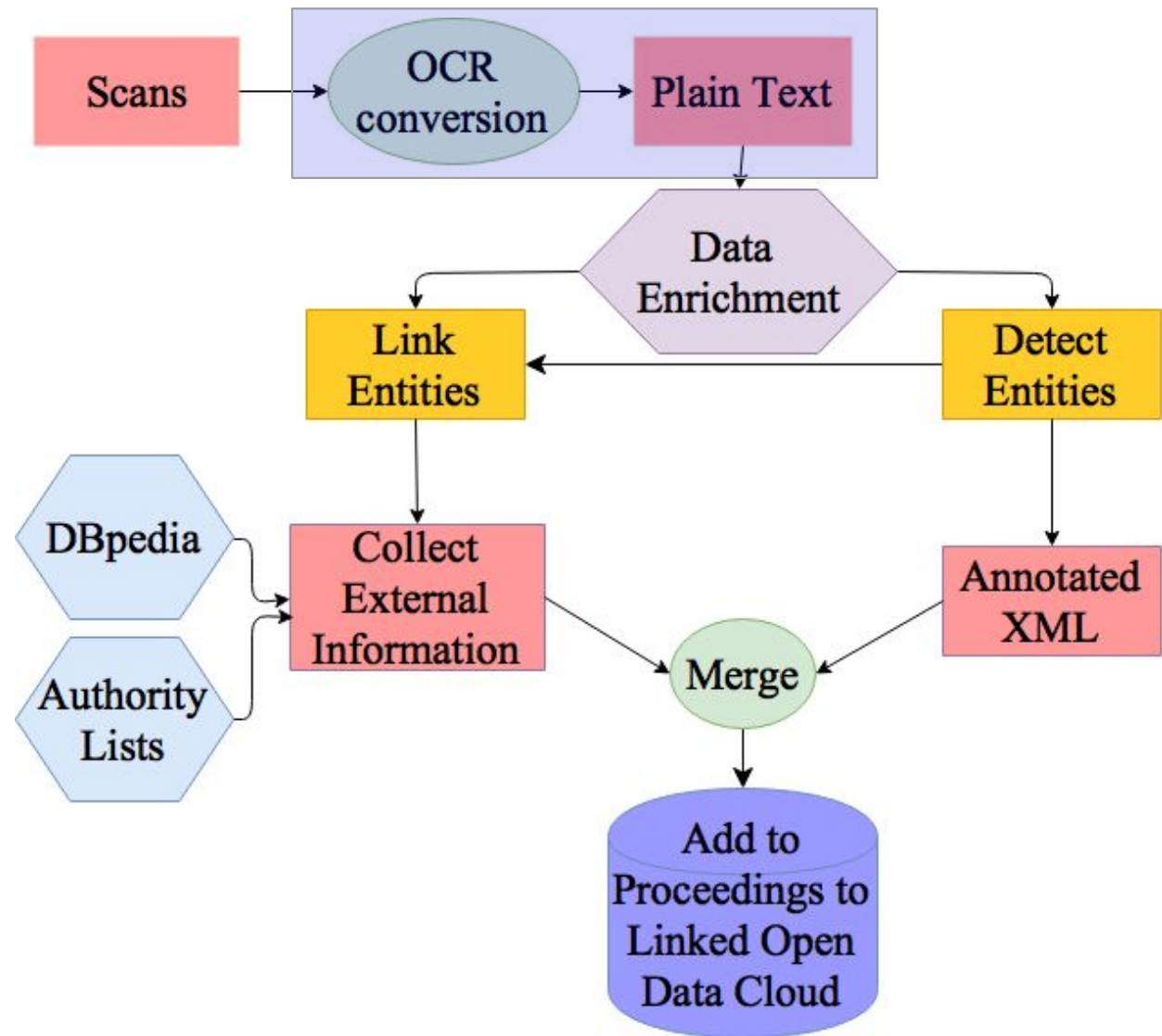
2. Structuring Text

Project Workflow

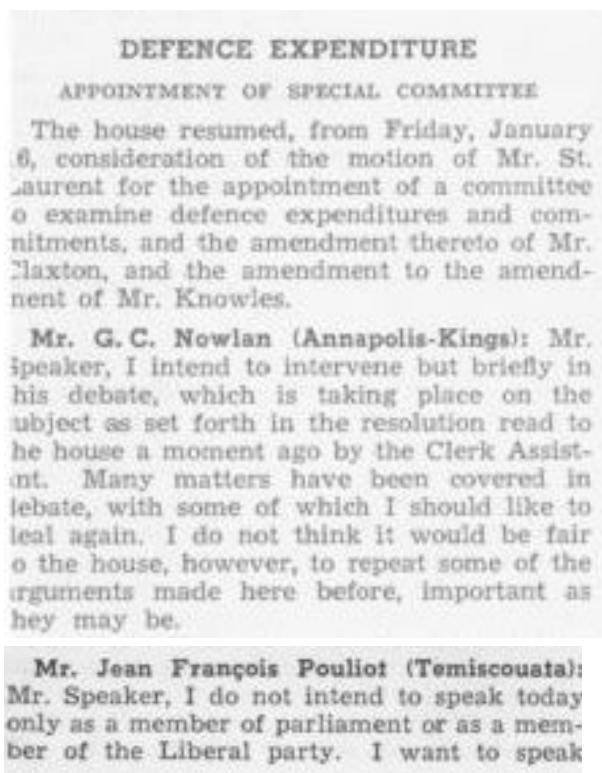
3. Linking Data



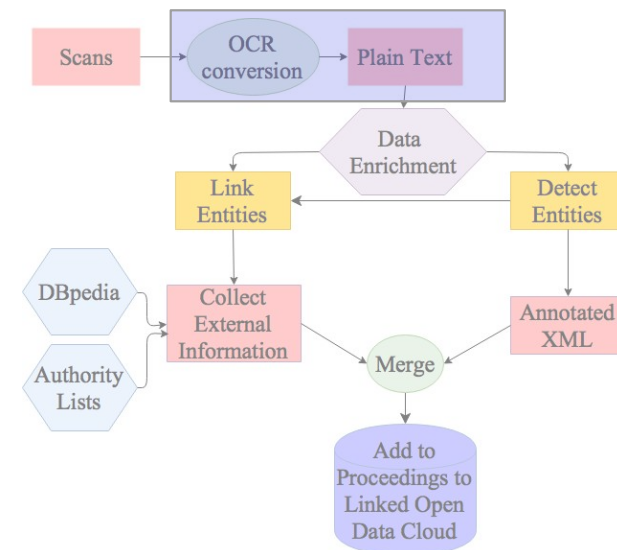
Step 1: OCR Conversion



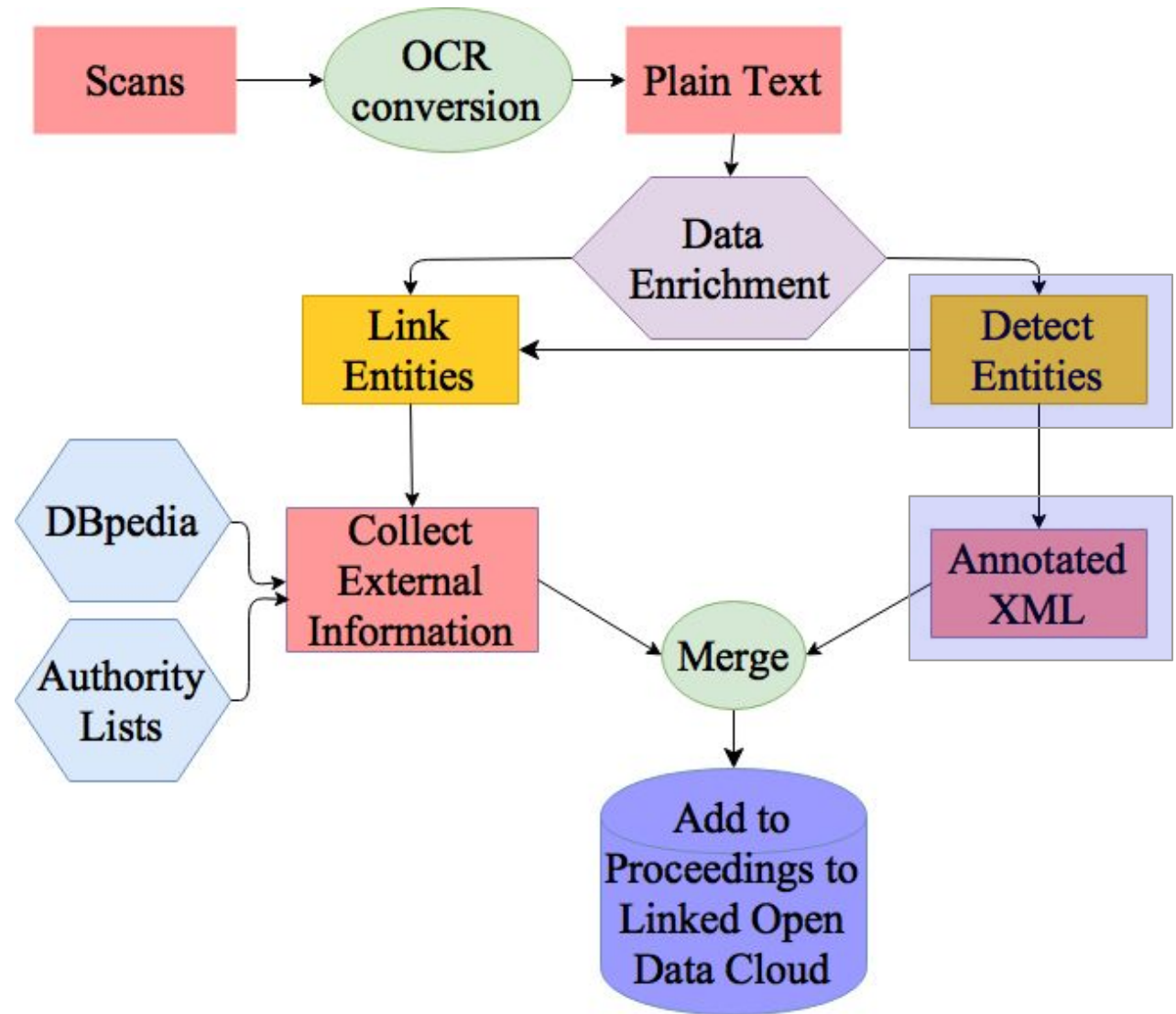
From PDF to Plain Text



DEFENCE EXPENDITURE
APPOINTMENT OF SPECIAL COMMITTEE
The House Resumed [...]
Mr. G. C. Nowlan (Annapolis-Kings):
Mr. Speaker, I intend to intervene but briefly in his debate. [...]
Mr. Jean François Pouliot (Temiscouata):
Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. [...]



Step 2: Structuring Text



Identifying Patterns

DEFENCE EXPENDITURE

APPOINTMENT OF SPECIAL COMMITTEE

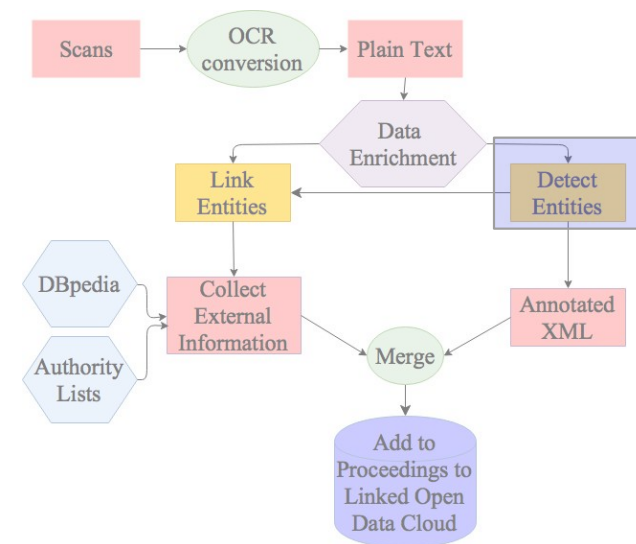
The House Resumed

Mr. G. C. Nowlan (Annapolis-Kings):

Mr. Speaker, I intend to intervene but briefly in his debate. [...]

Mr. Jean Francois Pouliot (Temiscouata):

Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. [...]



Identifying Patterns

DEFENCE EXPENDITURE
APPOINTMENT OF SPECIAL COMMITTEE

The House Resumed

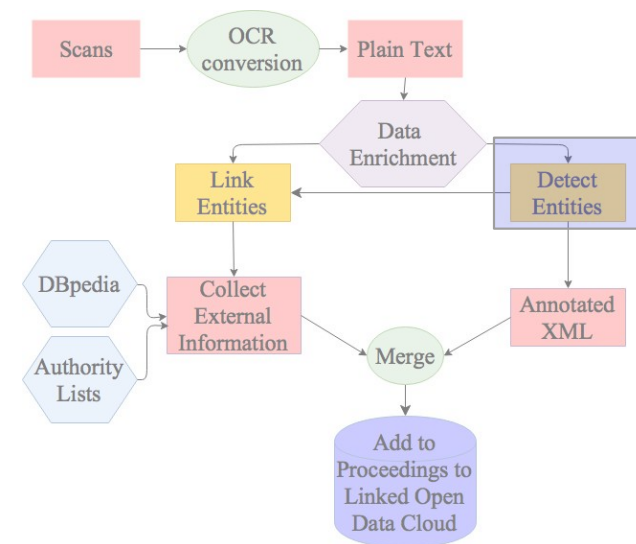
Mr. G. C. Nowlan (Annapolis-Kings):

Mr. Speaker, I intend to intervene but briefly in his debate. [...]

Mr. Jean Francois Pouliot (Temiscouata):

Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. [...]

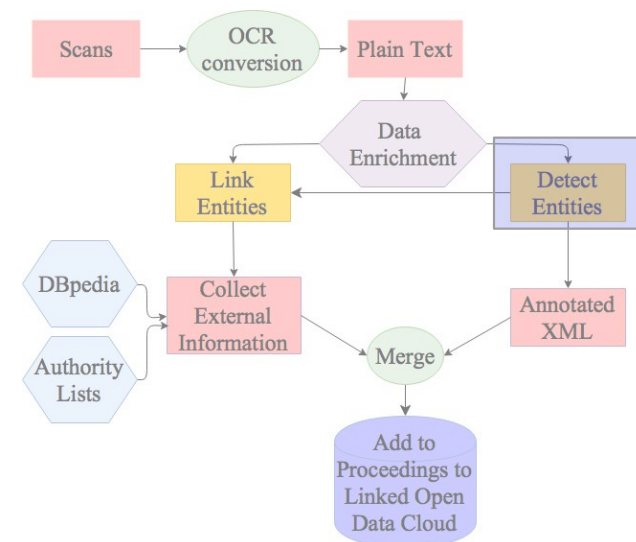
Matching Patterns with **Regular Expressions**
E.g. Wildcards, Canad^* = Canada, Canadian,



Identifying Patterns

(\n[A-Z]{3,}\n)

DEFENCE EXPENDITURE
APPOINTMENT OF SPECIAL COMMITTEE
The House Resumed
Mr. G. C. Nowlan (Annapolis-Kings):
Mr. Speaker, I intend to intervene but briefly in
his debate. [...]
Mr. Jean Francois Pouliot (Temiscouata):
Mr. Speaker, I do not intend to speak today only
as a member of parliament or as a member of
the Liberal party. [...]



Identifying Patterns

DEFENCE EXPENDITURE

APPOINTMENT OF SPECIAL COMMITTEE

The House Resumed

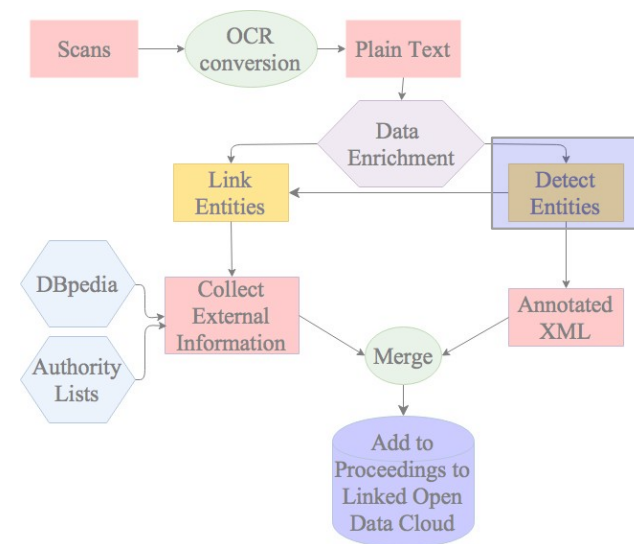
Mr. G. C. Nowlan (Annapolis-Kings):

Mr. Speaker, I intend to intervene but briefly in his debate. [...]

Mr. Jean Francois Pouliot (Temiscouata):

Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. [...]

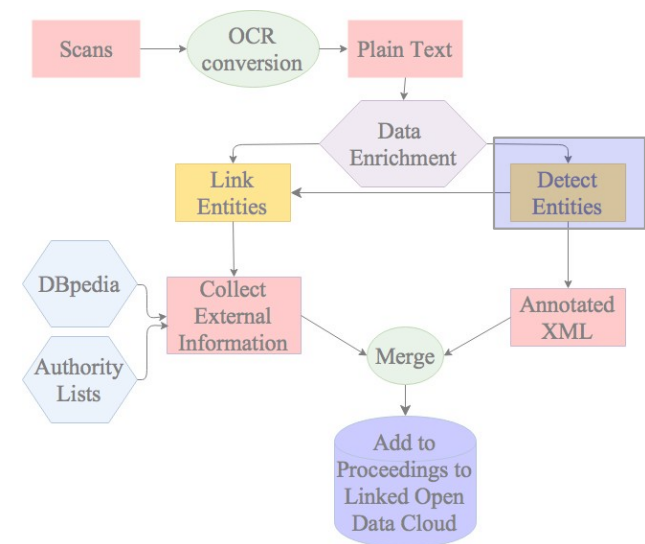
(\nMr\.\s[A-Za-z]+\s(.\+?):)



Issues: Variation

Hon. Jean J. Charest (Minister of State (Youth) and Minister of State (Fitness and Amateur Sport and Deputy Leader of the government in the House of Commons)):

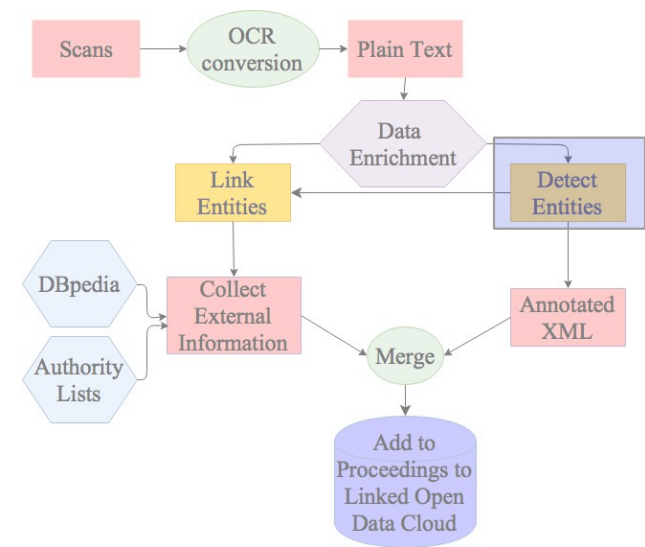
Mr. Rompkey:



Issues: Variation

^((?:Sir|M\.|Mr\.|Mr\,|Hon\.|The\sHon\.|
Right\sHon\.|The\sRight\sHon\.|Miss|Mrs\
|Ms\.)\s(?:[A-Zdv][\-\w\.']{1,25}\s{0,1})
{1,4}\s{0,1}(?:\.(.+?\))\s{0,1}
(?:(?:moved:)|(?:moved)|:|;))

Etcetera...



Issues: Changes over time

Mr. JAMIESON. If the hon. gentleman will excuse me,—

Mr. MILLS (Bothwell). I do not intend that the hon. gentleman shall interrupt me. If he wishes to make any more incorrect statements, he can take some other occasion to make them. There was a local election in the hon. gentleman's constituency, and the president of the prohibition committee, and a member of the Temperance Alliance, was a candidate.

1888

Issues: Changes over time

yesterday and I did not see the report of what Premier Manning said—

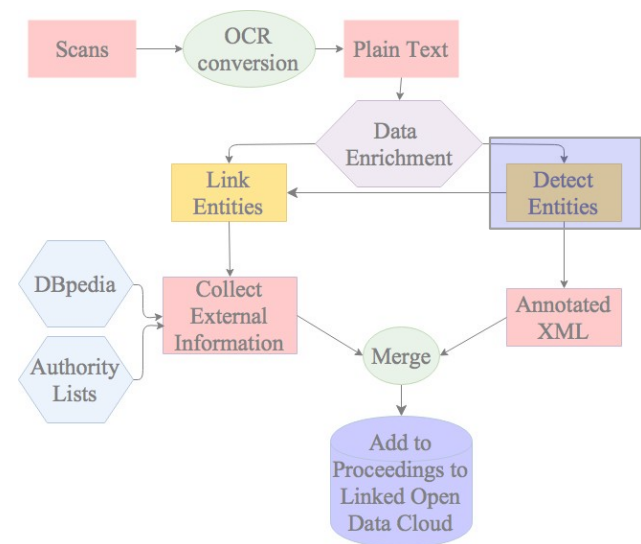
Mr. Diefenbaker: Did it happen?

Mr. St. Laurent: —but I told him that I would be very glad to sit in with the representatives that he mentioned as being those he was going to invite. I told him I was sure

1955

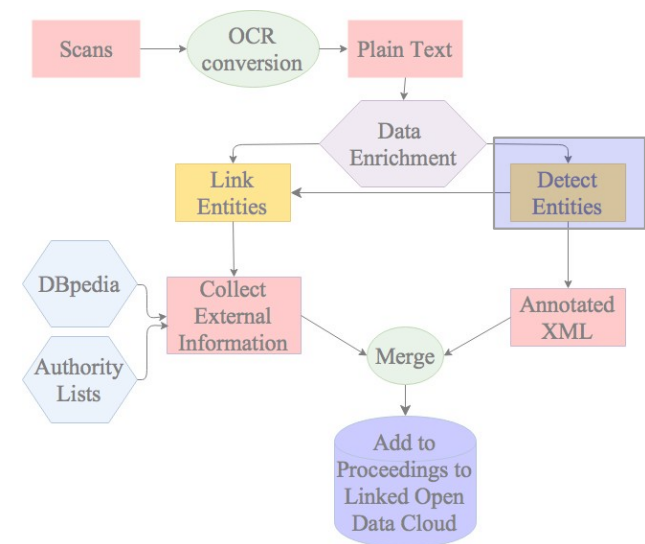
Issues: OCR Errors

BAILLANiTYNE
BALLAiNTYNE
BALLANTiNE
BALLAiNTYNE
iBALiLANTYNE



Issues: OCR Errors

BAI|LLANiTYNE
BALLA|INTYNE
BALLANT|INE = BALLANTYNE
BALLA|iNTYNE
iBAL|iLANTYNE



Identifying Patterns

DEFENCE EXPENDITURE
APPOINTMENT OF SPECIAL COMMITTEE

The House Resumed

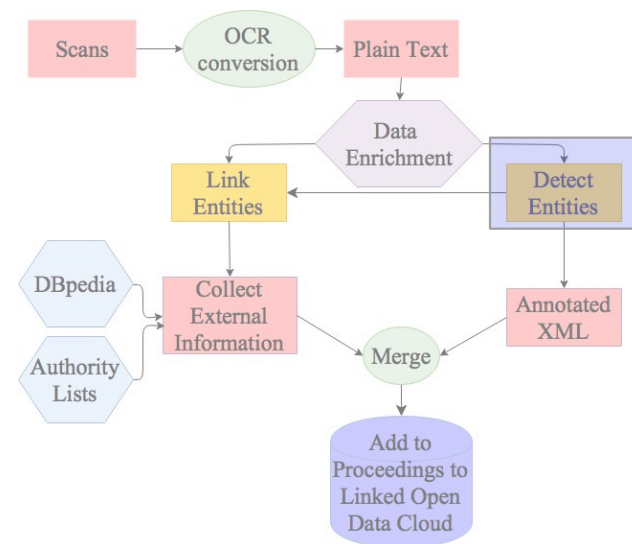
Mr. G. C. Nowlan (Annapolis-Kings):

Mr. Speaker, I intend to intervene but briefly in his debate. [...]

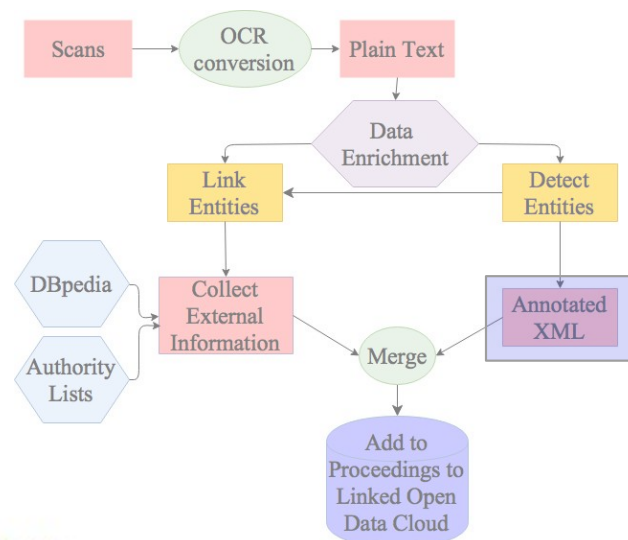
Mr. Jean Francois Pouliot (Temiscouata):

Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. [...]

```
for line in document:  
    if preceding line == topic title:  
        if next line == speech:  
            code line as procedural text45
```



Annotating the Proceedings



DEFENCE EXPENDITURE
APPOINTMENT OF SPECIAL COMMITTEE

The house resumed, from Friday, January 6, consideration of the motion of Mr. St. Laurent for the appointment of a committee to examine defence expenditures and commitments, and the amendment thereto of Mr. Claxton, and the amendment to the amendment of Mr. Knowles.

Mr. G. C. Nowlan (Annapolis-Kings): Mr. Speaker, I intend to intervene but briefly in his debate, which is taking place on the subject as set forth in the resolution read to the house a moment ago by the Clerk Assistant. Many matters have been covered in debate, with some of which I should like to deal again. I do not think it would be fair to the house, however, to repeat some of the arguments made here before, important as they may be.

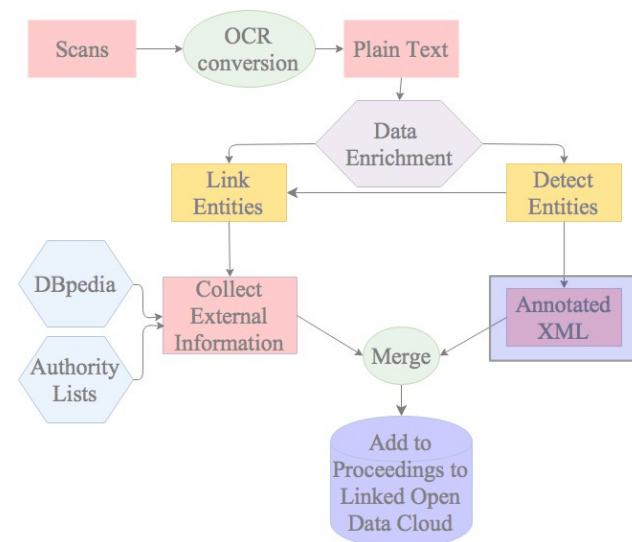
Mr. Jean François Pouliot (Temiscouata): Mr. Speaker, I do not intend to speak today only as a member of parliament or as a member of the Liberal party. I want to speak

```

<proceedings>
<topic_start>DEFENCE EXPENDITURE</topic_start>
<topic_start>APPOINTMENT OF SPECIAL COMMITTEE</topic_start>
<stage-direction>The House Resumed [...]</stage-direction>
<speech_start>Mr. G. C. Nowlan (Annapolis-Kings):</speech_start>
<p>Mr. Speaker, I intend to intervene but briefly in his debate. [...]</p>
<speech_start>Mr. Jean Francois Pouliot (Temiscouata):</speech_start>
<p>Mr. Speaker, I do not intend to speak today only as a member of
parliament or as a member of the Liberal party. [...]</p>
</proceedings>
  
```

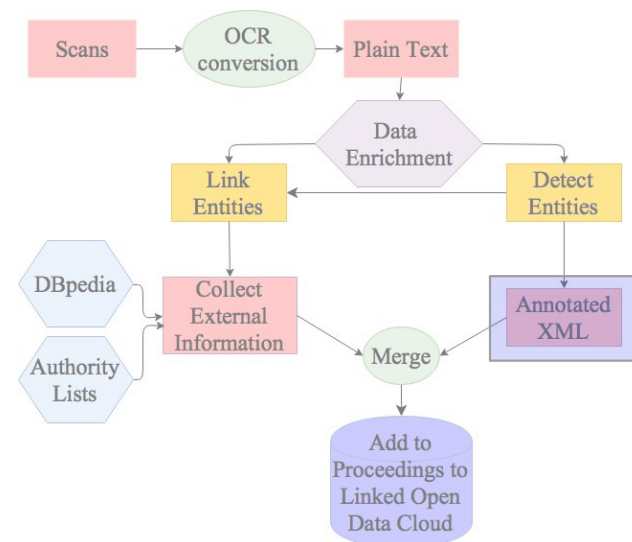
Annotating the Proceedings

```
<pm:proceedings pm:id="ca.proc.d.1953-01-20">
  <pm:topic pm:id="ca.proc.d.1953-01-20.1"
    pm:title="DEFENCE EXPENDITURE">
    <pm:scene pm:id="ca.proc.d.1953-01-20.1"
      pm:title="APPOINTMENT OF SPECIAL COMMITTEE"
      pm:type="topic">
      <pm:speech pm:id="ca.proc.d.1953-01-20.1.1"
        pm:speaker="Mr. G. C. Nowlan (Annapolis-Kings):">
        <pm:p pm:id="ca.proc.d.1953-01-20.1.1.1">
          Mr. Speaker, I intend to intervene but briefly in his debate.
        </pm:p>
      </pm:speech>
      <pm:speech pm:id="ca.proc.d.1953-01-20.1.2"
        pm:speaker="Mr. Jean Francois Pouliot (Temiscouata):">
        <pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">
          I do not intend to speak today only as a member of parliament
          or as a member of the Liberal party.
        </pm:p>
      </pm:speech>
    </pm:scene>
  </pm:topic>
</pm:proceedings>
```

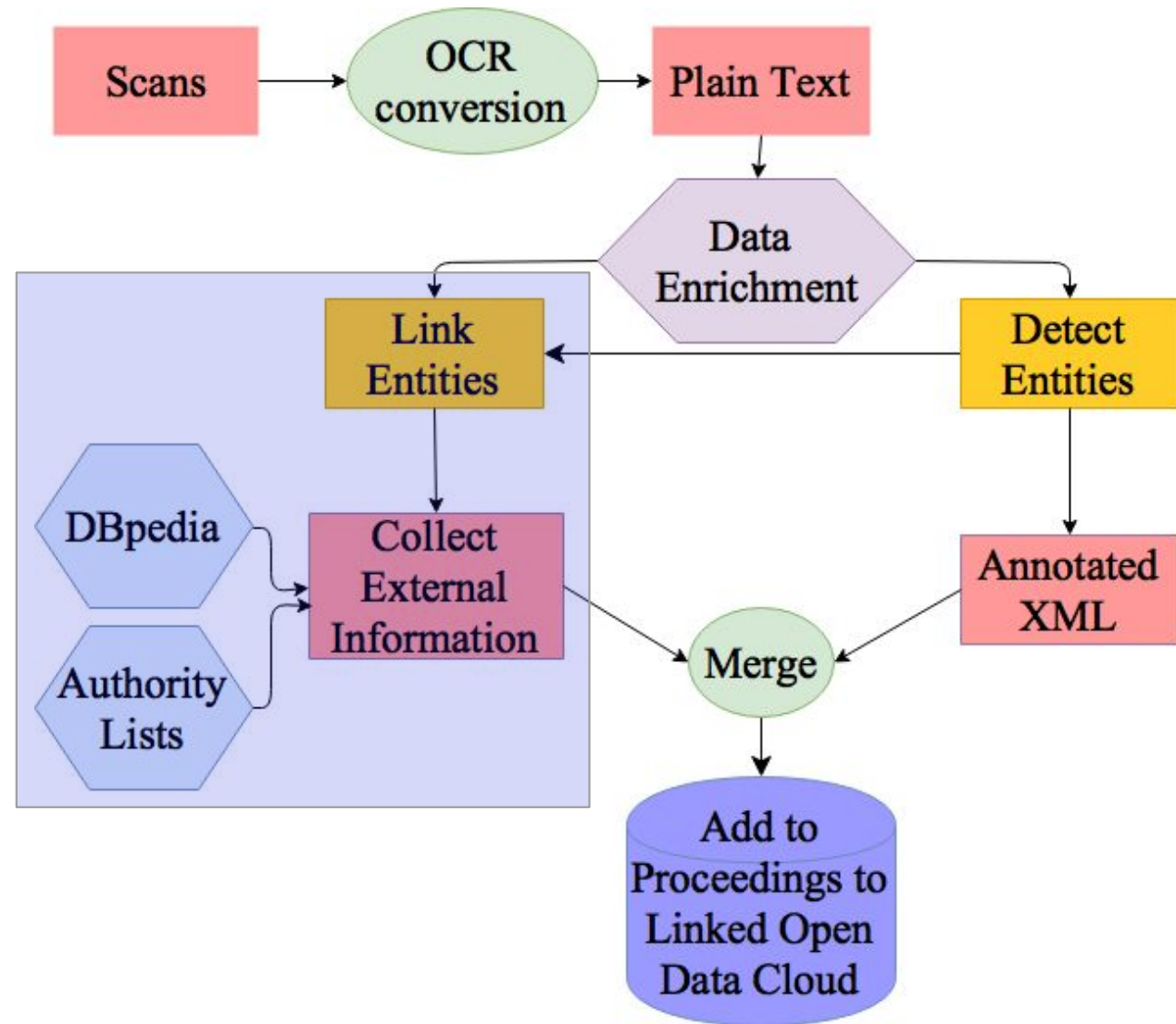


Annotating the Proceedings

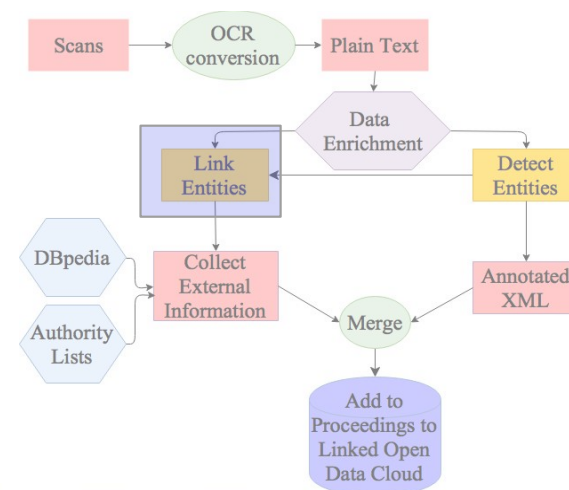
```
<pm:proceedings pm:id="ca.proc.d.1953-01-20">
  <pm:topic pm:id="ca.proc.d.1953-01-20.1"
    pm:title="DEFENCE EXPENDITURE">
    <pm:scene pm:id="ca.proc.d.1953-01-20.1"
      pm:title="APPOINTMENT OF SPECIAL COMMITTEE"
      pm:type="topic">
        <pm:speech pm:id="ca.proc.d.1953-01-20.1.1"
          pm:speaker="Mr. G. C. Nowlan (Annapolis-Kings):">
          <pm:p pm:id="ca.proc.d.1953-01-20.1.1.1">
            Mr. Speaker, I intend to intervene but briefly in his debate.
          </pm:p>
        </pm:speech>
        <pm:speech pm:id="ca.proc.d.1953-01-20.1.2"
          pm:speaker="Mr. Jean Francois Pouliot (Temiscouata):">
          <pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">
            I do not intend to speak today only as a member of parliament
            or as a member of the Liberal party.
          </pm:p>
        </pm:speech>
      </pm:scene>
    </pm:topic>
  </pm:proceedings>
```



Step 3: Linking Data



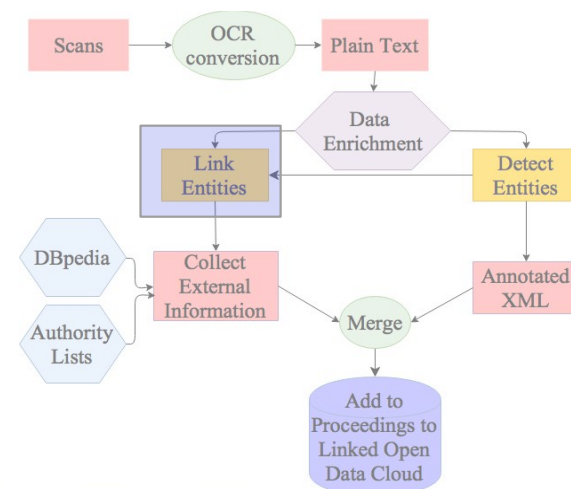
Disambiguating Entities



Mr. Jean Francois
Pouliot (Temiscouata)

```
<pm:speech pm:id="ca.proc.d.1953-01-20.1.2"  
  pm:speaker="Jean Francois Pouliot (Temiscouata)"  
  pm:member-ref=  
  pm:party:  
  pm:party-ref=  
  pm:role=  
  dp:speaker-link-confidence="1">  
<pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">  
  I do not intend to speak today only as a member of  
  parliament or as a member of the Liberal party.  
</pm:p>  
</pm:speech>
```

Disambiguating Entities



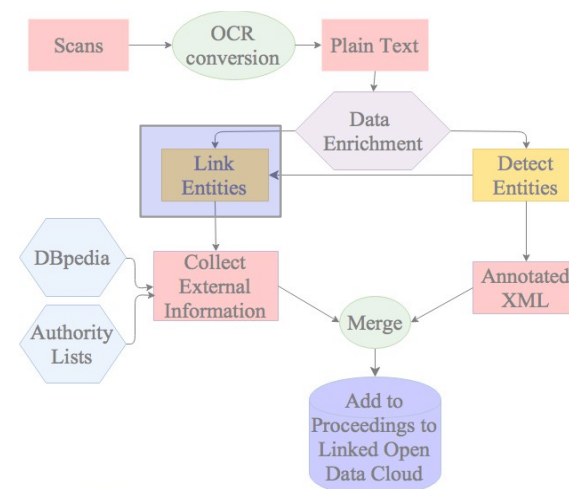
Title First Name

Mr. Jean Francois
Pouliot (Temiscouata)

```
<pm:speech pm:id="ca.proc.d.1953-01-20.1.2"  
  pm:speaker="Jean Francois Pouliot (Temiscouata)"  
  pm:member-ref=  
  pm:party:  
  pm:party-ref=  
  pm:role=  
  dp:speaker-link-confidence="1">  
<pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">  
  I do not intend to speak today only as a member of  
  parliament or as a member of the Liberal party.  
</pm:p>  
</pm:speech>
```

Last Name Constituency

Disambiguating Entities



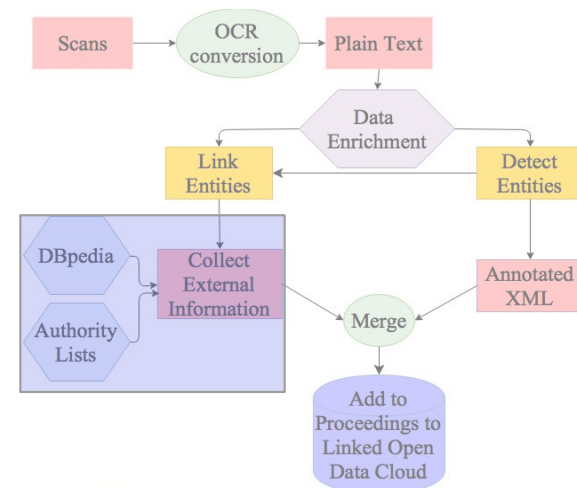
Mr. Jean Francois
Pouliot (Temiscouata)

=



```
<pm:speech pm:id="ca.proc.d.1953-01-20.1.2"  
  pm:speaker="Jean Francois Pouliot (Temiscouata)"  
  pm:member-ref="ca.m.9510"  
  pm:party=  
  pm:party-ref=  
  pm:role=  
  dp:speaker-link-confidence="1">  
  <pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">  
    I do not intend to speak today only as a member of  
    parliament or as a member of the Liberal party.  
  </pm:p>  
</pm:speech>
```

Adding Information



Mr. Jean Francois
Pouliot (Temiscouata)

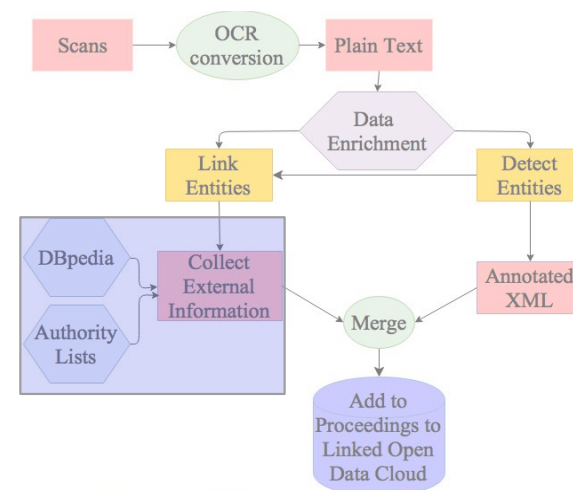
=



```

<pm:speech pm:id="ca.proc.d.1953-01-20.1.2"
  pm:speaker="Jean Francois Pouliot (Temiscouata)"
  pm:member-ref="ca.m.9510"
  pm:party="Liberal"
  pm:party-ref="ca.p.liberal"
  pm:role="mp"
  dp:speaker-link-confidence="1">
  <pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">
  I do not intend to speak today only as a member of
  parliament or as a member of the Liberal party.
  </pm:p>
</pm:speech>
  
```

Adding Information



Mr. Jean Francois
Pouliot (Temiscouata)

=



```
<pm:speech pm:id="ca.proc.d.1953-01-20.1.2"  
  pm:speaker="Jean Francois Pouliot (Temiscouata)"  
  pm:member-ref="ca.m.9510"  
  pm:party="Liberal"  
  pm:party-ref="ca.p.liberal"  
  pm:role="mp"  
  dp:speaker-link-confidence="0.75">  
<pm:p pm:id="ca.proc.d.1953-01-20.1.2.1">  
  I do not intend to speak today only as a member of  
  parliament or as a member of the Liberal party.  
</pm:p>  
</pm:speech>
```

Project Summary

Project Output:

- Structured and enriched parliamentary corpus. Includes all House of Commons debates from 1900 to present.
- Linked to ParInfo and other knowledge sources such as Wikipedia.
- Easy-to-use and flexible search engine (Lipad.ca).



Dilipad Team

Canada

- Team: Kaspar Beelen, Chris Cochrane, Graeme Hirst, Nona Naderi, Ludovic Rheault, Tanya Whyte
- Interns: Tim Alberdingk-Thijm, Mike Kimmins, Roman Polyanovsky

Netherlands

- Team: Jaap Kamps, Maarten Marx
- Other Contributors: Hosein Azarbonyad, Mostafa Denghani, Alex Olieman
- Interns: Kees Halvemaan, Sander Lijbrink

United Kingdom

- Team: Jonathan Blaney, Luke Blaxill, Richard Gartner, Paul Seaward, Martin Steer, Jane Winters

Funding Agencies



- Social Sciences and Humanities Research Council (CAN)
- National Sciences and Engineering Research Council (CAN)
- Canada Foundation for Innovation (CAN)
- Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NED)
- Arts and Humanities Research Council (UK)
- Economic and Social Research Council (UK)
- National Endowment for the Humanities (USA)
- National Science Foundation (USA)
- Institute of Museum and Library Services (USA)
- Joint Information Systems Committee (UK)

Questions?

