Loss and Damage

December 12, 2017

Using TensorFlow backend.

- - 2. The Warsaw International Mechanism for Loss and Damage associated with\
 Climate Change Impacts shall be subject to the authority and guidance of the\
 Conference of the Parties serving as the meeting of the Parties to this Agreement\
 and may be enhanced and strengthened, as determined by the Conference of the\
 Parties serving as the meeting of the Parties to this Agreement.\
 - 3. Parties should enhance understanding, action and support, including through\ the Warsaw International Mechanism, as appropriate, on a cooperative and\ facilitative basis with respect to loss and damage associated with the adverse\ effects of climate change.\
 - 4. Accordingly, areas of cooperation and facilitation to enhance understanding,\action and support may include:\
 - (a) Early warning systems;\
 - (b) Emergency preparedness;\
 - (c) Slow onset events;\
 - (d) Events that may involve irreversible and permanent loss and damage;\
 - (e) Comprehensive risk assessment and management;\
 - (f) Risk insurance facilities, climate risk pooling and other insurance \
 solutions;\
 - (g) Non-economic losses; and \
 - (h) Resilience of communities, livelihoods and ecosystems.

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5. The Warsaw International Mechanism shall collaborate with existing bodies\
        and expert groups under the Agreement, as well as relevant organizations and \
        expert bodies outside the Agreement. """
        loss_damage_final
Out[4]: '1. Parties recognize the importance of averting, minimizing and addressing lossand day
In [5]: words = loss_damage_final.split()
        lost_damage=Table().with_columns('Final Draft',words)
        total_table_final=lost_damage.group('Final Draft').sort('count', descending=True)
        total_table_final
Out[5]: Final Draft | count
                    | 18
        and
        the
                    | 14
                    | 12
        of
                    I 6
                    I 5
        t.o
        Parties
                    1 5
        with
                    14
        risk
                    1 3
                    | 3
        may
                    1 3
        loss
        ... (117 rows omitted)
In [6]: loss_damage_dec5="""Article 5 LOSS AND DAMAGE \
        Option I: The following text to be included as Article 5 Loss and Damage \setminus
        Option II: The following text to be part of Article 4 alongside adaptation provision \
        1. The Warsaw International Mechanism for Loss and Damage associated with Climate Chang
        shall serve this Agreement \
        2. Upon the completion of its review at the twenty-second session of the COP,13 the Wat
        International Mechanism shall be subject to the authority and guidance of the CMA and
        through the Financial Mechanism of the Convention \
        3. A climate change displacement coordination facility shall be established under the
        International Mechanism][CMA] \
        to help coordinate efforts to address climate change induced displacement, migration as
        4. A process to develop \
        approaches to address irreversible and permanent damage resulting from \
        human-induced climate change will be initiated under the [Warsaw International Mechanic
        with a view to completing this process within four years ]"""
In [7]: words_dec5 = loss_damage_dec5.split()
        lost_damage_dec5=Table().with_columns('December 5 Draft',words_dec5)
        total_table_dec5=lost_damage_dec5.group('December 5 Draft').sort('count', descending=T
In [8]: loss_damage_dec9="""Article 58 (LOSS AND DAMAGE)\
        Option I: The following text to be included as Article 5 (Loss and Damage)\
        Option II: The following text to be part of Article 4 alongside adaptation provision\
        1. [The Warsaw International Mechanism for Loss and Damage associated with Climate Char
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shall serve this Agreement.\

- 2. Upon the completion of its review at the twenty-second session of the COP,9 the Warsthrough the Financial Mechanism of the Convention.
- 3. A climate change displacement coordination facility shall be established under the displacement, migration and planned relocation.
- 4. A process to develop approaches to address irreversible and permanent damage result: with a view to completing this process within four years.]"""

total_table_dec9=lost_damage_dec9.group('December 9 Draft').sort('count', descending=T

In [10]: loss_damage_dec10 = """Article 5\

Option 1: 4 Parties recognize the importance of averting, minimizing and addressing 1 associated with the adverse effects of climate change, including extreme events and stand the role of sustainable development in reducing the risk of loss and damage\
Option 2:\

- 1. Parties recognize the importance of averting, minimizing and addressing loss and with the adverse effects of climate change, including extreme events and slow onset role of sustainable development in reducing the risk of loss and damage.\
- 2. Accordingly, Parties, in the context of international cooperation and solidarity[with the principle and provisions of the Convention, including common but differentiate responsibilities and respective capabilities] shall, as appropriate, enhance and, who and implement approaches to address loss and damage associated with the adverse effectionage, including as they relate to: (a) Early warning systems; (b) Slow onset event that may involve irreversible and permanent loss and damage; (c) Comprehensive risk management; (d) Risk insurance facilities, climate risk pooling and other insurance (e) Non-economic losses; (f) Climate change induced displacement, migration and plant
- 3. Parties shall enhance action and support, on a cooperative and facilitative basis and damage associated with the adverse effects of climate change, and in a manner the involve or provide a basis for liability or compensation nor prejudice existing right law.5\
- 4. Option 1: An international mechanism to address loss and damage is hereby defined a Agreement. It shall be bound by the principles and provisions of the Convention. The mechanism on loss and damage shall draw upon, further develop and elaborate on the work Warsaw International Mechanism for Loss and Damage associated with Climate Change Impopursuant to relevant COP decisions, including the development of modalities and procedure mechanisms operation and support. It can involve, as appropriate, existing bodies and under the Convention, as well as relevant organizations and expert bodies outside the be informed by relevant precedents in international law.\
 - Option 2: The Warsaw International Mechanism for Loss and Damage associated with Clim Impacts, established in accordance with the Convention, shall serve this Agreement. It continue to implement the Warsaw International Mechanism for Loss and Damage associated Climate Change Impacts, in accordance with decisions 3/CP.18 and 2/CP. 20. It shall appropriate, in order to avert, minimize and address loss and damage associated with effects of climate change.
- 5. The [Warsaw International Mechanism, as referred to in paragraph 4 above,][international Mechanism, as referred to in paragraph 4 above,]

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climate change in particularly vulnerable developing countries."""
                        loss_damage_dec10
Out[10]: 'Article 50ption 1: 4 Parties recognize the importance of averting, minimizing and ad-
In [11]: words_dec10 = loss_damage_dec10.split()
                        lost_damage_dec10=Table().with_columns('December 10 Draft',words_dec10)
                        total_table_dec10=lost_damage_dec10.group('December 10 Draft').sort('count', descendi:
                        total_table_dec10
Out[11]: December 10 Draft | count
                        and
                        the
                                                                          1 23
                        of
                                                                          | 18
                                                                          | 12
                        with
                                                                          | 12
                        in
                                                                          | 11
                        loss
                        to
                                                                          1 8
                        damage
                                                                          1 8
                        associated
                                                                          18
                        climate
                                                                          | 7
                         ... (203 rows omitted)
In [12]: total_table_dec10.show(203)
<IPython.core.display.HTML object>
In [13]: important_words=" Change Climate Damage International Loss Mechanism Option address a
                        associated change climate damage develop displacement established induced irreversible
                        permanent planned serve shall "
                        important_words
Out[13]: 'Change Climate Damage International Loss Mechanism Option address approaches associated the control of the control o
In [14]: words_legal_terms = important_words.split()
                        legal_terms_table=Table().with_column('Legal Words',words_legal_terms)
                        legal_terms_table
Out[14]: Legal Words
                        Change
                        Climate
                        Damage
                        International
                        Loss
```

mechanism, as referred to in paragraph 4 above,] shall promote and support the developmentation of approaches to address loss and damage associated with the adverse experience.

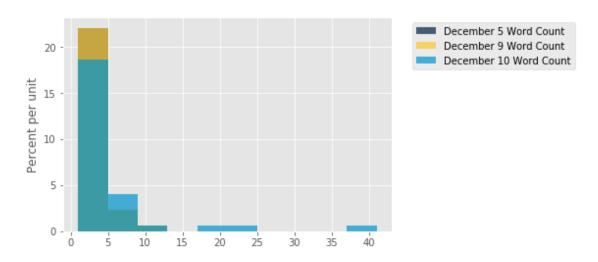
Mechanism

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approaches
          associated
          ... (12 rows omitted)
In [15]: table=legal_terms_table.join('Legal Words',total_table_dec10,'December 10 Draft').rel
          table2=legal_terms_table.join('Legal Words',total_table_dec9,'December 9 Draft')
          table3=legal_terms_table.join('Legal Words',total_table_dec5,'December 5 Draft')
          table2
Out[15]: Legal Words
                          | count
          Change
                          | 1
          Climate
                          | 1
          Damage
                          | 2
          International | 4
                          1 2
          Loss
          Mechanism
                          1 3
                          1 2
          Option
          address
                          1 2
          approaches
                          1 1
          associated
                          1 1
          ... (11 rows omitted)
In [16]: new_table=total_table_dec5.join('December 5 Draft',total_table_dec9,'December 9 Draft'
          new_table
Out[16]: December 5 Draft | count | December 9 Word Count
          1.
                              | 1
                                       | 1
          2.
                              | 1
                                       | 1
          3.
                              | 1
                                       | 1
          4
                              | 1
                                       1
          4.
                              1
                                       1
                              1 2
          5
                                       | 2
                              1 2
          Α
                                       1 2
                                       | 1
          AND
                              1 1
                              | 1
                                       | 1
          Agreement
          Article
                              | 3
                                       | 3
          ... (86 rows omitted)
In [17]: table_paris=new_table.join('December 5 Draft',total_table_dec10,'December 10 Draft').:
          Updated_table=table_paris.relabeled('count', 'December 5 Word Count')
          loss_damage_table_updated=Updated_table.join('December 5 Draft',legal_terms_table,'Legal_terms_table,'Legal_terms_table,'Legal_terms_table.join('December 5 Draft',legal_terms_table,'Legal_terms_table,'Legal_terms_table.
          loss_damage_table_updated
Out[17]: Important Words | December 5 Word Count | December 9 Word Count | December 10 Word Co
          Change
                             | 1
                                                        | 1
                                                                                    | 2
          Climate
                             | 1
                                                        1
                                                                                    | 4
```

Option address

Damage	2	2	3
International	4	4	4
Loss	1 2	2	3
Mechanism	3	3	3
Option	1 2	2	3
address	1 2	2	4
approaches	1	1	2
associated	1	1	8
(10 rows omitted)			

In [18]: Updated_table.hist('December 5 Word Count', 'December 9 Word Count', 'December 10 Word



In [19]: loss_damage_table_updated.barh('Important Words')

