Draft 1

December 12, 2017

```
In [1]: import matplotlib.pyplot as plt
        %matplotlib inline
       plt.style.use('ggplot')
        from datascience import *
        import numpy as np
        from scipy.spatial.distance import cosine
        import gensim
        import nltk
        from string import punctuation
Using TensorFlow backend.
In [2]: UN_draft1 = """"DRAFT AGREEMENT\
        [The Parties to this Agreement,\
        Pp1 Being Parties to the United Nations Framework Convention on Climate Change, herein
        Convention,\
        Pp2 Pursuant to the Durban Platform for Enhanced Action established by decision 1/CP.1
        Parties to the Convention at its seventeenth session,\
       Pp3\
        In pursuit of the objective of the Convention, and being guided by its principles, inc
        equity and common but differentiated responsibilities and respective capabilities, in
        national circumstances,\
        Pp4 Also recognizing the need for an effective and progressive response to the urgent
        on the basis of the best available scientific knowledge,\
        Pp5 Recognizing the specific needs and special circumstances and situations of develop
        all those that, as provided for in the Convention, are particularly vulnerable to the
        change,\
        Pp6\
       Taking account of the specific needs of developing country Parties, especially those ti
        vulnerable to climate-related events, and are most capacity constrained,\
        Pp7 Also taking account of the specific needs and special situations of the least deve
        specific circumstances of small island developing States,\
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Pp8 Emphasizing the intrinsic relationship that climate change actions, responses and

Pp9 Recognizing the fundamental priority of safeguarding food security and ending hung vulnerabilities of food production systems to the adverse impacts of climate change,\

access to sustainable development and eradication of poverty,\

Pp10\

Taking into account the imperatives of a just transition of the workforce and the crear quality jobs in accordance with nationally defined development priorities,\

Pp11 Acknowledging that climate change is a common concern to humankind, Parties should policies and taking action to address climate change, promote, respect and take into a obligations on human rights,\

Pp12 Also acknowledging the importance for Parties, when taking action to address clim respect and consider, in accordance with their respective obligations, the right to he peoples, local communities, migrants, children, persons with disabilities and people is the right to development, as well as gender equality, empowerment of women and interget Pp13 Also recognizing the importance of the conservation and enhancement, as appropriate greenhouse gases referred to in the Convention,\

Pp14 Noting the importance of ensuring the integrity of all ecosystems, including ocean biodiversity, recognized by some cultures as Mother Earth, when taking action to address Pp15 Affirming the importance of education, training, public awareness, public participation and cooperation at all levels on the matters addressed in this Agreement, importance of engagements of all levels of government and various actors, in accordance national legislations of Parties, in addressing climate change,\

Pp16 Recognizing that sustainable lifestyles and sustainable patterns of consumption as countries taking the lead, play an important role in addressing climate change, \\
Have agreed as follows:\

Article 1\

For the purpose of this Agreement, the definitions contained in Article 1 of the Converce COP 21 - Draft text agenda item 4 (b) - version $2\$

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- 1. "Convention" means the United Nations Framework Convention on Climate Change, adopted May 1992;
- 2. "Conference of the Parties" means the Conference of the Parties to the Convention; $\$
- 3. Party means a Party to this Agreement.\

Article 2

- 1. The purpose of this Agreement is to further implement the objective of the Convention through enhanced action, cooperation and support, in the context of sustainable developeradicate poverty, so as to:\
- (a) Hold the increase in the global average temperature to well below 2 rC above pre-in pursue efforts to limit the temperature increase to 1.5 rC, recognizing that this would risks and impacts of climate change;
- (b) Increase the ability to adapt to the adverse impacts of climate change and foster greenhouse gas emissions development, in a manner that does not threaten food production (d) Make finance flows consistent with a pathway towards such low greenhouse gas emiss
- (d) Make finance flows consistent with a pathway towards such low greenhouse gas emiss development.\
- 2. This Agreement [will be implemented on the basis of] [reflects] equity and common by responsibilities and respective capabilities, in the light of different national circumstricle 2bis\

Option 1:\

All Parties shall undertake efforts defined in Articles 3, 4, 6, 7, 8 and 9 progressive purpose of this Agreement as set out in Article 2, while recognizing that enhanced support country Parties will allow for higher ambition in their actions. Over time efforts of progression taking into account Parties different national circumstances and stages of Option 2:\

- 1. All Parties shall regularly prepare and communicate their nationally determined conthe purpose of this Agreement as set out in its Article 2, recognizing that the ambitive Parties in relation to their contributions will depend on the extent of support they re-
- 2. Subsequent nationally determined contributions should be informed by the results of defined in Article 10, and represent a progression taking into account Parties common responsibilities and respective capabilities, in light of different national circumstated Article 3\
- 1. In order to achieve the long-term global temperature goal set in Article 2 of this the peaking of greenhouse house gas emissions as soon as possible, recognizing that pedeveloping country Parties, and to undertake rapid reductions thereafter towards reach emissions neutrality in the second half of the century on the basis of equity and guid of sustainable development and poverty eradication.\
- 2. Each Party shall prepare, communicate and maintain successive nationally determined that it intends to achieve and shall pursue domestic measures to do so.\
- 3. Developed country Parties should continue to take the lead. Each Party that has preabsolute economy-wide emission reduction or limitation targets should continue to do so aim to do so over time in light of different national circumstances and stages of devel
- 4. Support shall be provided to developing country Parties for the implementation of the paragraph 3, in accordance with Articles 6, 7 and 8 of this Agreement, recognizing that developing country Parties will allow for higher ambition in their actions.\
- 5. The least developed countries [and small island developing States] [and African State ### at their discretion, including information on strategies, plans and actions for local formation of the partys successive ### should represent a progression beyond the Partys previous

highest possible ambition.

- 7. In communicating their ###, all Parties shall provide the information necessary for understanding in accordance with decision X/CP.21 and any decisions of the Conference the meeting of the Parties to the Agreement.
- 8. Parties shall communicate an ### every five years in accordance with decision X/CP. Conference of the Parties serving as the meeting of the Parties to the Agreement being of the global stock take referred to in Article 10.\
- 9. The Conference of the Parties serving as the meeting of the Parties to the Agreement timeframes for ### no later than at its first session.
- 10. A Party may at any time adjust its existing ### with a view to enhancing its level
- 11. The ### communicated by Parties shall be recorded in a public registry maintained
- 12. Parties shall account for their ###. In accounting for their ###, Parties shall protransparency, accuracy, completeness, comparability and consistency, and ensure the avecounting, in accordance with guidance adopted by the Conference of the Parties serving Parties to the Agreement.\
- 13. In the context of their ###, when recognizing and implementing mitigation actions emissions and removals, Parties should take into account, as appropriate, existing met the Convention in light of the provisions of paragraph 12 of this Article.\
- 14. Parties shall take into consideration in the implementation of this Agreement the economies most affected by the impacts of response measures, particularly developing of 15. Parties agree to enhance actions under this Agreement, including by strengthening and to adopt modalities and procedures for enhancing those arrangements. To this end to Parties serving as the meeting of the Parties to the Agreement shall establish a cooper the adverse impacts of the implementation of response measures on developing country Padecision -/CP.21.\

- 16. Parties, including regional economic integration organizations and their member Stagreement to act under Article 3, paragraph 2, jointly, shall notify the secretariat of including the emission level allocated to each Party within the relevant time period, their ###s. The secretariat shall in turn inform the Parties and signatories to the Coagreement.\
- 17. In the event of failure by the Parties to such an agreement, each party to that agreement emission level as set out in that agreement in accordance with paragraph 14 of this 11.
- 18. If Parties acting jointly do so within the framework of, and together with, a regiorganization that is itself a Party to this Agreement, each member State of that region organization individually, and together with the regional economic integration organization failure to achieve the common ###s, be responsible for its emission level set out in the paragraph 16 in accordance with paragraph 14 of this Article and Articles 9 and 11. 19. If Parties acting jointly do so within the framework of, and together with, a regiorganization, any alteration in the composition of that organization shall not affect apply for the purpose of those ###s that are communicated subsequent to the alteration 20. [Cooperation between Parties in the implementation of ### includes approaches that adaptation ambition, promote sustainable development and environmental integrity and a nature, consistent with guidance adopted by the Conference of the Parties serving as the the Agreement. Parties shall, where engaging on a voluntary basis in cooperative approx of internationally transferred emission reductions towards ###, promote sustainable de environmental integrity, and apply robust accounting to ensure, inter alia, the avoidate consistent with guidance adopted by the Conference of the Parties serving as the meeti: Agreement, and ensure transparency in the governance of the approaches.\
- 21. The use of internationally transferred emission reductions to achieve ### under the voluntary and authorized by participating Parties.]
- 22. All Parties should strive to formulate and communicate long-term low-greenhouse gas strategies mindful of Article 2 of this Agreement taking into account Parties different development stages.

Article 3 bis

- 1. Parties should take action to conserve and enhance, as appropriate, sinks and reserveferred to in Article 4, paragraph 1(d), of the Convention.
- 2. Parties may take action to implement and support, including by scaling up resources positive incentives for reducing emissions from deforestation and forest degradation, conservation, sustainable management of forests and enhancement of forest carbon stock countries; as well as alternative policy approaches, such as joint mitigation and adaptintegral and sustainable management of forests; while reaffirming the importance of not associated with such approaches; as set out in related guidance and decisions already Convention.\

Article 3 ter\

- 1. [A mechanism to contribute to the mitigation of greenhouse gas emissions and support [in developing country Parties] is hereby established under the authority and guidance Parties serving as the meeting of the Parties to the Agreement, shall be supervised by Conference of the Parties serving as the meeting of the Parties to the Agreement, and (a) Promote the mitigation of greenhouse gas emissions [in developing country Parties]
- (a) Promote the mitigation of greenhouse gas emissions [in developing country Parties] sustainable development;
- (b) Incentivise and facilitate participation in the mitigation of greenhouse gas emiss entities authorized by a Party;\

- (c) Contribute to the reduction of emission levels in the [developing country] host Parfrom mitigation activities resulting in emission reductions that can also be used by a its ###:\
- (d) Promote a net contribution to the mitigation of greenhouse gas emissions;\
- 2. Emission reductions resulting from this mechanism shall not be used to demonstrate a Partys ###, if used by another Party to demonstrate achievement of its ###.\
- 3. The Conference of the Parties serving as the meeting of the Parties to the Agreement the proceeds from activities under the mechanism are used to cover administrative expendeveloping country Parties that are particularly vulnerable to the adverse effects of costs of adaptation.\
- 4. The Conference of the Parties serving as the meeting of the Parties to the Agreemen procedures for this mechanism at its first session.]\
- 5. [A mechanism is hereby established to support holistic and integrated approaches to harmony with nature, to be available to assist [developing country] Parties in fulfill balanced manner, mitigation, adaptation, provision of finance, technology transfer and mechanism shall be under the authority and guidance of the Conference of the Parties so the Parties to the Agreement, shall be supervised by a body designated by the Conference as the meeting of the Parties to the Agreement, and shall aim to:\
- (a) Enhance mitigation and adaptation ambition and the provision or mobilization of pultechnology transfer and capacity building, in an integrated manner for climate action;
- (b) Enhance non-market-based approaches and enable participation in joint cost-effective adaptation actions by public and private entities acting authorized by a Party;
- (c) Support implementation of the joint mitigation and adaptation approach for the internal management of forests as an alternative policy approach to results-based payments;
- (d) Fully respect mitigation contributions of participating Parties to ensure that the not undermined. \backslash
- 6. The Conference of the Parties serving as the meeting of the Parties to the Agreement procedures for the mechanism at its first session.] $\$ Article 4 $\$
- 1. Parties hereby establish the global goal of enhancing adaptive capacity, strengthen vulnerability to climate change, with a view to contributing to sustainable development in the context of the temperature goal referred to in Article 2.
- 2. Parties recognize that adaptation is a global challenge faced by all with local, suinternational dimensions, and that it is a key component of and makes a contribution to response to climate change to protect people, livelihoods and ecosystems, taking into immediate needs of those developing country Parties that are particularly vulnerable.
- 3. Adaptation efforts of developing country Parties shall be recognized, in accordance adopted by the Conference of the Parties serving as the meeting of the Parties to the session.
- 4. Parties recognize the need for adaptation regardless of the level of mitigation reamitigation can reduce the need for additional adaptation efforts, and that greater adaptation costs and that greater rates and magnitude of climate change increase the ladaptation limits.\

Parties acknowledge that adaptation action should follow a country-driven, gender-responding transparent approach, taking into consideration vulnerable groups, communities as should be based on and guided by the best available science and, as appropriate, tradification peoples and local knowledge systems, with a view to integrating adaptation socioeconomic and environmental policies and actions, where appropriate.

- 6. Parties recognize the importance of support for and international cooperation on adimportance of taking into account the needs of those developing country Parties that a recognizing the particular vulnerabilities of the least developed countries and small
- 7. Parties should strengthen their cooperation on enhancing action on adaptation, taki: Adaptation Framework, including with regard to:\
- (a) Sharing information, good practices, experiences and lessons learned, including, a relate to science, planning, policies and implementation in relation to adaptation act
- (b) Strengthening institutional arrangements, including those under the Convention, to of relevant information and knowledge and the provision of technical support and guidant
- (c) Strengthening scientific knowledge on climate, including research, systematic observations and early warning systems, in a manner that informs climate services and support
- (d) Assisting developing country Parties in identifying effective adaptation practices priorities, support provided and received for adaptation actions and efforts, and chalmanner consistent with encouraging good practices;\
- (e) Improving the effectiveness and durability of adaptation actions.\
- 8. United Nations specialized organizations and agencies are encouraged to support the implement the actions referred to in paragraph 7 of this Article, taking into account of this Article.\
- 9. Each Party shall, as appropriate, engage in the implementation of adaptation plannic including the development or enhancement of relevant plans, policies and/or contributions.
- (a) The implementation of adaptation actions, undertakings and/or efforts;\
- (b) The process to formulate and implement national adaptation plans;\
- (c) The assessment of climate change impacts and vulnerability, with a view to formula determined prioritized actions, taking into account vulnerable people, places and ecosystem.
- (d) Monitoring and evaluating and learning from adaptation plans, policies, programmes
- (e) Building the resilience of socioeconomic and ecological systems, including through diversification and sustainable management of natural resources.
- 10. Each Party shall, as appropriate, submit an adaptation communication, which may in needs, plans and actions, without creating any additional burden for developing country
- 11. The adaptation communication referred to in paragraph 10 of this Article shall be, updated independently, or as a component of or in conjunction with other communication adaptation plan, or a ### as referred to in Article 3, paragraph 2 [and 2 bis.], and/or
- 12. The adaptation communication referred to in paragraph 10 of this Article shall be
- 13. Developing country Parties shall receive continuous and enhanced international support of paragraphs 9, 10 and 11 of this Article, in accordance with the provisions of Article
- 14. The global stocktake referred to in Article 10 shall:\
- (a) Recognize and enhancing the implementation of adaptation action on the basis of the communication referred to in paragraph 10 of this Article;
- (b) Assess the adequacy and effectiveness of support provided for adaptation;\
- (c) Review the overall progress made in achieving the global goal referred to in paragraphical 5

Option 1:\

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Parties recognize the importance of averting, minimizing and addressing loss and damage adverse effects of climate change, including extreme events and slow onset events, and development in reducing the risk of loss and damage\
Option 2:\

1. Parties recognize the importance of averting, minimizing and addressing loss and da

adverse effects of climate change, including extreme events and slow onset events, and development in reducing the risk of loss and damage.\

- 2. Accordingly, Parties, in the context of international cooperation and solidarity[, principle and provisions of the Convention, including common but differentiated respons capabilities] shall, as appropriate, enhance and, where needed, develop and implement loss and damage associated with the adverse effects of climate change, including as the
- (a) Early warning systems;\
- (b) Slow onset events, including those that may involve irreversible and permanent los
- (c) Comprehensive risk assessment and management;
- (d) Risk insurance facilities, climate risk pooling and other insurance solutions;\
- (e) Non-economic losses;\
- (f) Climate change induced displacement, migration and planned relocation.
- 3. Parties shall enhance action and support, on a cooperative and facilitative basis, associated with the adverse effects of climate change, and in a manner that does not in for liability or compensation nor prejudice existing rights under international law.5\ 4. Option 1:\

An international mechanism to address loss and damage is hereby defined under this Agra

bound by the principles and provisions of the Convention.\ The international mechanism on loss and damage shall draw upon, further develop and ele

the Warsaw International Mechanism for Loss and Damage associated with Climate Change relevant COP decisions, including the development of modalities and procedures for the and support. It can involve, as appropriate, existing bodies and expert groups under the relevant organizations and expert bodies outside the Convention, and be informed by reinternational law.\

Option 2:\

The Warsaw International Mechanism for Loss and Damage associated with Climate Change established in accordance with the Convention, shall serve this Agreement.\

Parties shall continue to implement the Warsaw International Mechanism for Loss and Da Climate Change Impacts, in accordance with decisions 3/CP.18 and 2/CP. 20. It shall be appropriate, in order to avert, minimize and address loss and damage associated with the climate change.\

5. The [Warsaw International Mechanism, as referred to in paragraph 4 above,][internat referred to in paragraph 4 above,] shall promote and support the development and imple to address loss and damage associated with the adverse effects of climate change in par developing countries.

Article 6\

- 1. Developed country Parties shall provide [new,] [additional,] [adequate,] [predictab. and [scaled-up] financial resources to assist developing country Parties with respect adaptation. Other Parties may on a voluntary, complementary basis, provide resources to including through South-South cooperation initiatives.\
- 2. Developed country Parties should take the lead in mobilizing and facilitating the m from a wide variety of sources, instruments and channels, noting the significant role shared effort by all Parties, through a variety of actions, including, inter alia, the environments, supporting country-driven strategies, and taking into account the needs developing country Parties.3. The provision and mobilization of climate finance to enhance adaptation action in developing country Parties shall represent a progression beyond parties floor of USD \$100 billion per year, which is to be mobilized by developed country Part meaningful mitigation action and transparency on implementation, towards achieving should be a subject to the state of the

quantified goals for the post 2020 period to be periodically established and reviewed Parties serving as the meeting of the Parties to the Agreement, in the context of the in Article $10.\$

- 4. Parties should integrate climate considerations, including resilience, into interna-
- 5. The provision of scaled-up financial resources should aim to achieve a balance between mitigation, taking into account country-driven strategies, and the priorities and need Parties, especially those that are particularly vulnerable to the adverse effects of developed countries, small island developing States and African States], considering the grant-based resources for adaptation.
- 6. To enhance predictability, developed country Parties shall biennially communicate is qualitative information related to paragraphs 1 and 2 of this Article, as applicable, public financial resources to be provided to developing country Parties, taking into a global stocktake referred to in Article 10.\
- 7. The global stocktake referred to in Article 10 shall take into account the relevant developed country Parties, including Agreement bodies, on efforts related to climate f
- 8. Transparent, complete, consistent, comparable, and accurate information on support a Parties provided, mobilized through public interventions and received shall biennially country Parties in accordance with the modalities, procedures and guidelines to be adopted the Parties serving as the meeting of the Parties to the Agreement, at its first session paragraph 8.
- 9. The Financial Mechanism of the Convention, including its operating entities, shall mechanism of this Agreement.
- 10. The institutions serving this Agreement, including the operating entities of the F ensure efficient access to financial resources through simplified approval procedures support for developing country Parties[, in particular for LDCs, SIDS and African Statemational climate strategies and plans.\

Article 7\

- 1. Parties, noting the importance of technology for the implementation of mitigation at this Agreement and recognizing existing technology deployment and dissemination effort cooperative action on technology development and transfer.\
- 2. Parties share a long-term vision on the importance of fully realizing technology decorder to improve resilience to climate change and to reduce greenhouse gas emissions.
- 3. A technology framework is hereby established to provide overarching guidance to the Mechanism in promoting and facilitating enhanced action on technology development and support the implementation of this Agreement, in pursuit of the long-term vision references this Article.\
- 4. Accelerating, encouraging and enabling innovation is critical for an effective, long climate change and promoting economic growth and sustainable development. Such effort appropriate, supported, including through financial means by the Technology Mechanism Mechanism of the Convention, for collaborative approaches to research and development, to technology, in particular for early stages of the technology cycle, to developing contents.
- 5. The Technology Mechanism shall serve this Agreement.\
- 6. Developed country Parties shall provide support, including financial support, for the Article, including for strengthening cooperative action on technology development and stages of the technology cycle, ensuring the balance between mitigation and adaptation referred to in Article 10 shall take into account available information by developed of Agreement bodies on efforts related to support on technology development and transfer article 8\

- 1. Capacity-building under this Agreement should enhance the capacity and ability of doin particular countries with the least capacity, such as least developed countries and States and African States [in accordance with the principles and provisions of the Concelimate change action, including, inter alia, to implement adaptation and mitigation at technology development, dissemination and deployment, access to climate finance, releved education, training and public awareness, and the transparent, timely and accurate comminformation.
- 2. Capacity-building should be country-driven, based on and responsive to national need ownership of Parties, including at the national, subnational and local levels. Capacity by lessons learned, including those from capacity-building activities under the Convergence of the convergence of the capacity of the convergence of the capacity of the capac
- 3. All Parties should cooperate to enhance the capacity of developing country Parties Developed country Parties should enhance support for actions for capacity-building in
- 4. All Parties enhancing the capacity of developing country Parties to implement this regional, bilateral and multilateral approaches, shall regularly communicate on these capacity-building. Developing country Parties should regularly communicate progress maccapacity-building plans, policies, actions or measures to implement this Agreement.\
- 5. Capacity-building activities shall be enhanced through appropriate institutional arginal implementation of this Agreement, including the appropriate institutional arrangements Convention that serve this Agreement. The Conference of the Parties serving as the mee Agreement shall at its first session take an initial decision on the institutional arrangement 8 bis\

Parties shall cooperate in taking measures, as appropriate, to enhance climate change awareness, public participation and public access to information, recognizing the imporrespect to enhancing actions under this Agreement.

- 1. Option 1: A robust transparency framework covering both action and support, different and developing countries, building on the arrangements under the Convention, related demechanisms established by the Cancun Agreements (decision 1/CP.16), applicable to all flexibility to developing countries is hereby established.
- Option 2: A unified and robust transparency framework, covering both action and support flexibility to take into account Parties differing capacities, and applicable to all Poption 3: Building on existing arrangements under the Convention, a transparency frame support that takes into account Parties different capacities and is applicable to all 1
- 2. The transparency framework shall provide flexibility in the implementation of the padeveloping country Parties in the light of their capacities. The modalities, procedure in paragraph 8 of this Article shall reflect such flexibility.
- 3. The transparency framework shall recognize the special circumstances of the least disland developing States, and be implemented in a facilitative, non-intrusive, non-punnational sovereignty, and avoid placing undue burden on Parties.\
- 4. The purpose of the framework for transparency of action is:\
- (a) To provide a clear understanding of climate change actions in the light of the objects as set out on its Article $2;\$
- (b) To provide a clear understanding of the anthropogenic emissions by sources and remindividual Parties; $\$
- (c) To facilitate understanding of global aggregate emissions and removals to inform the under Article 10;
- (d) To ensure clarity and tracking of progress made towards ### and achieving individual

- mitigation ### under Article 3;\
- (e) To provide clarity on Parties adaptation actions under Article 4, including good paneeds and gaps.\
- 5. The purpose of the framework for transparency of support is:\
- (a) To provide a clear understanding of the support provided and received by relevant the context of climate change actions under Articles 3 and 4;\
- (b) To achieve, to the extent possible, a full overview of aggregate financial support global stocktake under Article 10;\
- (c) To ensure clarity and tracking of progress made in providing support in accordance $8;\$
- (d) To ensure clarity and tracking of support needed and received by developing country accordance with Articles 6, 7 and 8;\
- (e) To ensure the avoidance of double counting of financial resources provided.\
- 6. Each Party shall regularly provide the following information in accordance with guid paragraph 8 of this Article:\
- (a) Its national inventory of anthropogenic emissions by sources and removals by sinks
- (b) Projections of anthropogenic emissions by sources and removals by sinks of greenhouse
- (c) Progress made towards achieving its respective mitigation ## under Article 3 inclespecific to the type of ###;
- (d) Climate change impacts and actions taken to build resilience and reduce vulnerabil adaptation actions under Article 4;\
- (e) Support provided and received, as relevant, including specific information require 6.14, 7 and $8.\$
- 7. Option 1: The information provided by each Party as required under this Article shall expert review, in accordance with guidelines and procedures adopted by the Conference the meeting of the Parties to the Agreement, with additional flexibility to be given the and small island developing States.\
- The review shall provide a thorough, objective and comprehensive technical assessment implementation and achievement of its ### and other requirements of the Agreement, and which the Parties reporting is in line with the guidelines adopted by the Conference of meeting of the Parties to the Agreement, and identify any areas for improvement in representation by the party concerned. The technical expert review an expert review team that shall produce a report, to be consulted on with the Party of the secretariat and consideration by the Conference of the Parties serving as the meet Agreement. The report shall identify any issues related to compliance in accordance with multilateral and facilitative examination shall consider the information above.
- Option 2: All information provided by developed country Parties shall be reviewed through review process followed by a multilateral assessment process, and result in a conclusive compliance. All information provided by developing country Parties should be analysed analysis process followed by a multilateral facilitative sharing of views, and result manner that is nonintrusive, non-punitive and respectful of national sovereignty, accordingly the process of the provided by the process of the process of the provided by a multilateral facilitative sharing of views, and result manner that is nonintrusive, non-punitive and respectful of national sovereignty, accordingly the process of the proc
- 8. The Conference of the Parties serving as the meeting of the Parties to the Agreement building on experience from the arrangements related to transparency under the Convent the provisions in this Article, adopt common modalities, procedures and guidelines, as transparency of action and support.\
- 9. The transparency arrangements under the Convention, including national communication biennial update reports, international assessment and review and international consults

form part of the experience drawn upon for the development of modalities, procedures a paragraph 8 of this Article.

- 10. Support shall be provided to developing countries for the implementation of paragraphs
- 11. Developed country Parties shall provide support to developing country Parties in the Article. $\$
- 12. Support shall also be provided for the building of transparency-related capacity of a continuous basis.

Article 10\

- 1. The Conference of the Parties serving as the meeting of the Parties to the Agreement of the implementation of this Agreement to assess the collective progress towards achievement and its long-term goals. It shall do so in a comprehensive and facilitative mitigation, adaptation and the means of implementation and support, and in the light of and equity.\
- 2. The Conference of the Parties serving as the meeting of the Parties to the Agreement global stocktake in 2023 and every five years thereafter unless otherwise decided by the Parties serving as the meeting of the Parties to the Agreement.
- 3. The outcome of the stocktake shall guide and inform Parties in updating and enhancing determined manner, their actions and support in accordance with the relevant provisions well as in enhancing international cooperation for climate action.\

 Article 11\
- 1. A mechanism to facilitate implementation of [and promote compliance with] the provision hereby established. $\$

The mechanism referred to in paragraph 1 of this Article shall consist of a committee and facilitative in nature and function in a manner that is transparent, non-adversariate committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay particular attention to the respective national capabilities and committee shall pay pay particular attention to the respective national capabilities and committee shall pay pay pay the shall pay pay the shall pay pay the shall pay pay the shall pay the shall pay pay the shall p

3. The committee shall operate under modalities and procedures adopted by the Conferences the meeting of the Parties to the Agreement at its first session and report annually Parties serving as the meeting of the Parties to the Agreement.\

Article 12\

- 1. The Conference of the Parties, the supreme body of the Convention, shall serve as this Agreement.
- 2. Parties to the Convention that are not Parties to this Agreement may participate as of any session of the Conference of the Parties serving as the meeting of the Parties Conference of the Parties serves as the meeting of the Parties to this Agreement, decisionally be taken only by those that are Parties to this Agreement.
- 3. When the Conference of the Parties serves as the meeting of the Parties to this Agreement of the Conference of the Parties representing a Party to the Convention but, at this Agreement, shall be replaced by an additional member to be elected by and from am Agreement.\
- 4. The Conference of the Parties serving as the meeting of the Parties to the Agreement review the implementation of this Agreement and shall make, within its mandate, the deprement its effective implementation. It shall perform the functions assigned to it by
- (a) Establish such subsidiary bodies as deemed necessary for the implementation of this
- (b) Exercise such other functions as may be required for the implementation of this Ag
- 5. The rules of procedure of the Conference of the Parties and the financial procedure. Convention shall be applied mutatis mutandis under this Agreement, except as may be of consensus by the Conference of the Parties serving as the meeting of the Parties to the
- 6. The first session of the Conference of the Parties serving as the meeting of the Par

convened by the secretariat in conjunction with the first session of the Conference of after the date of entry into force of this Agreement. Subsequent ordinary sessions of Parties serving as the meeting of the Parties to the Agreement shall be held in conjunction of the Conference of the Parties, unless otherwise decided by the Conference of the Parties of the Parties to the Agreement.\

- 7. Extraordinary sessions of the Conference of the Parties serving as the meeting of the shall be held at such other times as may be deemed necessary by the Conference of the meeting of the Parties to the Agreement or at the written request of any Party, provide of the request being communicated to the Parties by the secretariat, it is supported by Parties.\
- 8. The United Nations, its specialized agencies and the International Atomic Energy Age member thereof or observers thereto not party to the Convention, may be represented at Conference of the Parties serving as the meeting of the Parties to the Agreement as obtagency, whether national or international, governmental or non-governmental, which is covered by this Agreement and which has informed the secretariat of its wish to be reported to the Parties serving as the meeting of the Parties to the Agreement and admitted unless at least one third of the Parties present object. The admission and particle to the rules of procedure referred to in paragraph 5 of this Article.\
- 1. The secretariat established by Article 8 of the Convention shall serve as the secretariat. Article 8, paragraph 2, of the Convention on the functions of the secretariat, and a Convention on arrangements made for the functioning of the secretariat shall apply muta Agreement. The secretariat shall, in addition, exercise the functions assigned to it use the Conference of the Parties serving as the meeting of the Parties to the Agreement. Article 14
- 1. The Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body established by Articles 9 and 10 of the Convention shall serve, respectively, as the Stand Technological Advice and the Subsidiary Body for Implementation of this Agreement. Convention relating to the functioning of these two bodies shall apply mutatis mutandicular Sessions of the meetings of the Subsidiary Body for Scientific and Technological Advice Body for Implementation of this Agreement shall be held in conjunction with the meeting Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation.\
- 2. Parties to the Convention that are not Parties to this Agreement may participate as of any session of the subsidiary bodies. When the subsidiary bodies serve as the subsidiary Agreement, decisions under this Agreement shall be taken only by those that are Partie 3. When the subsidiary bodies established by Articles 9 and 10 of the Convention exercing to matters concerning this Agreement, any member of the bureaux of those subsidiary to the Convention but, at that time, not a Party to this Agreement, shall be remember to be elected by and from among the Parties to this Agreement.\
- 1. Subsidiary bodies or other institutional arrangements established by or under the Corference to in this Agreement, shall serve this Agreement upon a decision of the Conference serving as the meeting of the Parties to the Agreement. The Conference of the Parties the Parties to the Agreement shall specify the functions to be exercised by such bodies 2. The Conference of the Parties serving as the meeting of the Parties to the Agreement guidance to those subsidiary bodies and institutional arrangements.

Article 16\

- 1. This Agreement shall be open for signature and subject to ratification, acceptance regional economic integration organizations that are Parties to the Convention. It shall the United Nations Headquarters in New York from 22 April 2016 to 21 April 2017. There shall be open for accession from the day following the date on which it is closed for ratification, acceptance, approval or accession shall be deposited with the Depositary
- 2. Any regional economic integration organization that becomes a Party to this Agreeme member States being a Party shall be bound by all the obligations under this Agreement economic integration organizations with one or more member States that are Parties to organization and its member States shall decide on their respective responsibilities for obligations under this Agreement. In such cases, the organization and the member State exercise rights under this Agreement concurrently.\
- 3. In their instruments of ratification, acceptance, approval or accession, regional eorganizations shall declare the extent of their competence with respect to the matters Agreement. These organizations shall also inform the Depositary, who shall in turn info substantial modification in the extent of their competence. Article 18\

- 1. This Agreement shall enter into force on the thirtieth day after the date on which Convention which accounted in total for at least an estimated [55][70] percent of the greenhouse gas emissions have deposited their instruments of ratification, acceptance, but not earlier than 1 January 2020].\
- 2. Solely for the limited purpose of paragraph 1 of this Article, "total global greenh most up-to-date amount communicated under the Convention on or before the date of adop Agreement by the Parties to the Convention.\
- 3. For each State or regional economic integration organization that ratifies, accepts accedes thereto after the condition set out in paragraph 1 of this Article for entry is this Agreement shall enter into force on the thirtieth day after the date of deposit b economic integration organization of its instrument of ratification, acceptance, appro-
- 4. For the purposes of paragraph 1 of this Article, any instrument deposited by a regiorganization shall not be counted as additional to those deposited by its member State Article 19\

The provisions of Article 15 of the Convention on the adoption of amendments to the Convention mutatis mutandis to this Agreement.\

Article 20\

- 1. Annexes to this Agreement shall form an integral part thereof and, unless otherwise reference to this Agreement constitutes at the same time a reference to any annexes the be restricted to lists, forms and any other material of a descriptive nature that is of procedural or administrative character.\
- 2. The provisions of Article 16 of the Convention on the adoption and amendment of annual shall apply mutatis mutandis to this Agreement.\

The provisions of Article 14 of the Convention on settlement of disputes shall apply m Agreement.\

Article 22\

- 1. Each Party shall have one vote, except as provided for paragraph 2 of this Article.
- 2. Regional economic integration organizations, in matters within their competence, sha vote with a number of votes equal to the number of their member States that are Partie an organization shall not exercise its right to vote if any of its member States exerc Article 23\

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The Secretary-General of the United Nations shall be the Depositary of this Agreement.
        Article 24\
        No reservations may be made to this Agreement.\
        Article 25\
        1. At any time after three years from the date on which this Agreement has entered into
        may withdraw from this Agreement by giving written notification to the Depositary.\
        2. Any such withdrawal shall take effect upon expiry of one year from the date of rece
        notification of withdrawal, or on such later date as may be specified in the notificat
        3. Any Party that withdraws from the Convention shall be considered as also having with
        Agreement.\
        Article 26\
        The original of this Agreement, of which the Arabic, Chinese, English, French, Russian
        equally authentic, shall be deposited with the Secretary-General of the United Nations
In [23]: from nltk.tokenize import sent_tokenize
In [24]: def fast_tokenize(text):
             # Iterate through text removing punctuation characters
             no_punct = "".join([char for char in text if char not in punctuation])
             # Split text over whitespace into list of words
             tokens = no_punct.split()
             return tokens
In [25]: words_UN_draft1 = UN_draft1.split()
         lost_damage_UN_draft1=Table().with_columns('United Nations Draft 1',words_UN_draft1)
         lost_damage_UN_draft1
Out[25]: United Nations Draft 1
         "DRAFT
         AGREEMENT [The
         Parties
         t.o
         this
         Agreement, Pp1
         Being
         Parties
         t.o
         the
         ... (7448 rows omitted)
In [38]: new_UN_draft1=[fast_tokenize(UN_draft1)]
        new_UN_draft1
Out [38]: [['DRAFT',
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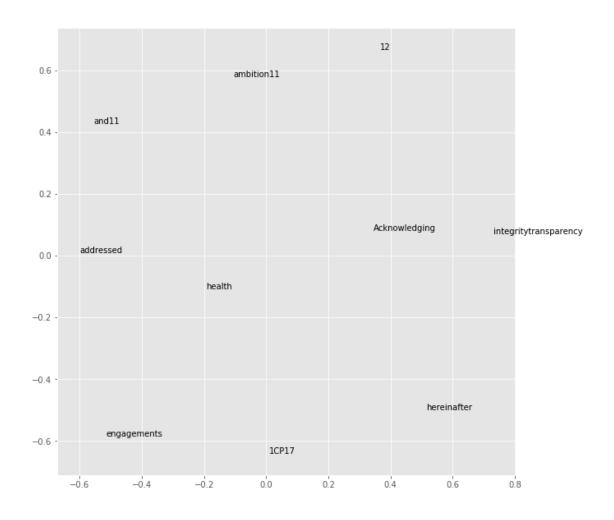
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In [27]: model = gensim.models.Word2Vec(new_UN_draft1, size=100, window=5, min_count=1, sg=0, states)
In [28]: model.most_similar(positive=['Parties'], negative=['shall'])
Out[28]: [('solutionse', 0.2967906594276428),
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In [29]: model.most_similar(positive=['Parties'], negative=['should'])
Out[29]: [('underthe', 0.31416600942611694),
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In [30]: model.most_similar(positive=['Parties'], negative=['financial'])
Out[30]: [('perform', 0.2825096547603607),
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In [31]: UN_draft1_tokens = [token for token, weight in model.most_similar(positive=['Parties']
In [33]: vectors = [model[word] for word in UN_draft1_tokens]
In [34]: from sklearn.metrics import pairwise
         dist_matrix = pairwise.pairwise_distances(vectors, metric='cosine')
In [35]: from sklearn.manifold import MDS
         mds = MDS(n_components = 2, dissimilarity='precomputed')
         embeddings = mds.fit_transform(dist_matrix)
In [37]: _, ax = plt.subplots(figsize=(10,10))
         ax.scatter(embeddings[:,0], embeddings[:,1], alpha=0)
         for i in range(len(vectors)):
             ax.annotate(UN_draft1_tokens[i], ((embeddings[i,0], embeddings[i,1])))
```



```
In [40]: words = UN_draft1.split()
         lost_damage=Table().with_columns('Draft 1',words)
         total_table_final=lost_damage.group('Draft 1').sort('count', descending=True)
         total_table_final
Out[40]: Draft 1 | count
         the
                 | 559
         of
                  | 428
                 | 325
         and
                 | 258
         to
         Parties | 178
                 | 149
         shall
                 | 116
         as
                 | 104
         this
                 | 102
         by
                 85
         ... (1810 rows omitted)
```