Draft 2

December 12, 2017

from scipy.spatial.distance import cosine

from string import punctuation

import numpy as np

import gensim
import nltk

```
Using TensorFlow backend.
In [2]: UN_draft2 = """A. DRAFT AGREEMENT
        [The Parties to this Agreement,\
        Pp1 Being Parties to the United Nations Framework Convention on Climate Change, herein
        Convention,\
        Pp2 In pursuit of the objective of the Convention, and being guided by its principles,
        and common but differentiated responsibilities and respective capabilities, in the lig
        circumstances,2\
       Pp3 Pursuant to the Durban Platform for Enhanced Action established by decision 1/CP.1
        Parties to the Convention at its seventeenth session,\
       Pp4 Recognizing the intrinsic relationship between climate change, poverty eradication
        sustainable development, and reaffirming that responses to climate change should aim to
        and concerns arising from the adverse impacts of response measures,\
        Pp5 Taking account of the specific needs of developing country Parties, and especially
        vulnerable to climate-related events,\
        Pp6 Also taking account of the specific needs and special situations of the least deve
        set out in Article 4, paragraph 9, of the Convention, and the specific circumstances of
        States (SIDS),\
        Pp7 Emphasizing the need to respond to the urgent threat of climate change on the basis
        scientific knowledge, in particular, the assessment reports of the Intergovernmental Po
        Pp8 [Noting that the largest share of historical global emissions of greenhouse gases ]
        countries, that per capita emissions in developing countries are still relatively low
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emissions originating in developing countries will grow to meet their social and developing [Recognizing that Parties should take action to address climate change in accordance.]

Pp10 [Emphasizing the importance of Parties promoting, protecting and respecting all h

and emission trends, which will continue to evolve post-2020,]\

and the rights of indigenous peoples, migrants, children, persons with disabilities and situations and under occupation, and the right to development, in accordance with their promoting gender equality and the empowerment of women, when taking action to address Pp11 Noting the needs and integrity of terrestrial ecosystems, oceans and Mother Earth Taking into account the imperatives of a just transition of the workforce and the creat quality jobs in accordance with nationally defined development priorities,\

Pp13 Recognizing the fundamental priority of safeguarding food security and ending hum vulnerabilities of food production systems to the adverse impacts of climate change,\
Pp14 Also recognizing the importance of the conservation and enhancement, as appropria greenhouse gases referred to in Article 4, paragraph 1(d), of the Convention, including agreed approaches,\

Pp15 Affirming the importance of education, training, public awareness, public participants information 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,\

Have agreed as follows:\

Article 1 (DEFINITIONS)\

For the purposes of this Agreement, the definitions contained in Article 1 of the Convergence 2 (PURPOSE)

- 1. The purpose of this Agreement is to [enhance the implementation of the Convention as [further implement the objective of the Convention set out in its Article 2 [through enance and support]] so as:\
- (a) To hold the increase in the global average temperature to\

Option 1: below 2 řC above pre-industrial levels,\

Option 2: well below 2 \check{r} C above pre-industrial levels [and to [rapidly] scale up global temperature increase to below 1.5 \check{r} C] [,while recognizing that in some regions and vulnigh risks are projected even for warming above 1.5 \check{r} C],\

Option 3: below 1.5 C above pre-industrial levels,\

taking into account the best available science, equity, sustainable development, the ne security and the availability of means of implementation, by ensuring deep reductions greenhouse gas [net] emissions;\

- (b) To increase their ability to adapt to the adverse impacts of climate change [and the impacts of the implementation of response measures and to loss and damage];
- (c) To pursue sustainable development in a manner that fosters climate resilience and emissions, and that does not threaten food production and distribution;
- (d) To make finance flows consistent with a pathway towards low-emission and climate-redevelopment, in the context of sustainable development priorities and efforts to eradi
- 2. [This Agreement will be implemented on the basis of equity and in accordance with the differentiated responsibilities and respective capabilities, in the light of different the basis of respect for human rights.]

Article 2bis (GENERAL)\

Option 1:\

- 1. [All Parties shall undertake efforts defined in Articles 3, 4, 6, 7, 8 and 9 toward Agreement as set out in its Article 2, and communicate such efforts in accordance with Agreement. Over time such efforts will represent a progression taking into account Parcircumstances and development stages while recognizing that the extent of the efforts country Parties will depend on the extent of support they receive.]
- 2. Subsequent efforts will be informed by the results of the global stocktake as defin-

a progression taking into account Parties common but differentiated responsibilities as in light of different national circumstances.]\
Option 2:\

1. [All Parties [shall] regularly prepare, communicate [and implement] [intended] nation contributions] [components] [on [mitigation] and adaptation] [undertakings in adaptation implementation] 3\

[towards achieving the [purpose of this Agreement as set out in Article 2 of the Convergobjective of the Convention as set out in its Article 2],] [in accordance with Article accordance with the provisions of this Agreement, including the specific provisions readaptation and means of implementation.]\

- 2. Each Partys [intended] nationally determined contribution will represent a progress differentiated responsibilities and commitments under the Convention.
- 3. The extent to which developing country Parties will effectively implement this Agreeffective implementation by developed country Parties of their commitments on the provetechnology development and transfer and capacity-building.
- 4. Successive [intended] nationally determined contributions will be [informed by the global stocktake as defined in Article 10 of the Convention] and communicated before to of the previous [intended] nationally determined contribution by the Party concerned.] Article 3 (MITIGATION)\

{Collective long-term goal}\

- 1. Option 1: Parties collectively aim to reach the global temperature goal referred to peaking of global greenhouse gas emissions as soon as possible, recognizing that peaking emissions of developed countries and will be longer for developing countries; rapid reference 70 per cent] [7095 per cent] below 2010 levels by 2050; toward achieving net zero green. [by the end] [after the middle] of the century] informed by best available science, on context of sustainable development and poverty eradication.
- Option 2: Parties collectively aim to reach the global temperature goal referred to in global low emissions [transformation toward [climate neutrality][decarbonization]] over century informed by best available science, on the basis of equity and in the context and poverty eradication.\

{Individual efforts}\

2. Each Party shall regularly prepare, communicate [and maintain] [successive] $\#\#4\$ and [shall][should][other]\

[take appropriate domestic measures] [have in place][identify and] [pursue] [implement] [nationally determined] policies or other measures] [designed to] [implement] [achieve] the implementation of] its ###].\

{Differentiated efforts}\

Option 1:\

- 3. In accordance with Article 4, paragraph 2, of the Convention, developed country Parincluded in Annex I shall undertake quantified economy-wide absolute emission reduction commitments/targets, which are comparable, measurable, reportable and verifiable, coverand are implemented domestically without any conditions.\
- 3bis. In accordance with Article 4, paragraphs 1, 3, 4, 5 and 7, of the Convention, defundertake diversified enhanced mitigation actions/efforts in a measurable, reportable, the context of sustainable development and supported and enabled by the provision of a technology and capacity-building by developed country Parties.\
 Option 2:\
- 3. Each Party that has previously communicated absolute economy wide emissions reduction

should continue to do so and all Parties should aim to do so over time.\
3bis. Developed country Parties should continue to take the lead.\

- 4. LDCs [and SIDS] [and African states] may communicate their ### at their discretion, strategies, plans and actions for low greenhouse gas development, reflecting their spe{Support}6\
- 5. Option 1: Developed country Parties and other developed Parties included in Annex I other Parties with the capacity to do so] shall provide new and additional financial rand capacity-building to meet the agreed full costs incurred by developing country Partheir obligations under this Article.\

Option 2: Developing country Parties7\

are eligible for support in the implementation of this Article.\

Option 3: The extent to which developing country Parties will effectively implement the depend on the effective implementation by developed country Parties of their commitment resources, transfer of technology and capacity-building.

{Progression/ambition}\

- 6. Each Partys successive ### [shall][should][will] represent a progression beyond the reflect its highest possible ambition [based on common but differentiated responsibilicapabilities, in light of different national circumstances].\
 {Information}\
- 7. [In communicating their ###, all Parties shall provide the information necessary for understanding in accordance with decision 1/CP.21 and any subsequent decisions of the {Timing}\
- 8. Parties shall communicate an ### every five years in accordance with decisions of the outcomes of the global stock take referred to in Article 10. $\$
- 9. The CMA shall decide on common timeframes for ###, no later than its [X] session.\ {Adjustments}\
- 10. A Party may at any time adjust its existing ### with a view to enhancing its level with the simplified adjustment procedure referred to in Article 19, paragraph 3]. $\{\text{Housing}\}$
- 11. The ### communicated by Parties shall be recorded [in an online registry maintained Annex [X] to this Agreement]. $\$

{Accounting}\

- 12. Parties shall [track progress towards] [account for] their ###. In [tracking progres ###, Parties shall promote environmental integrity, transparency, accuracy, completened consistency, and ensure the avoidance of double counting, in accordance with guidance {Methods and guidance}\
- 13. In the context of their ###, when recognizing and implementing mitigation actions emissions and removals, Parties [may draw from and build on] [shall take into account] methods and guidance, under the Convention and from the IPCC as adopted by the COP.\{Response measures}\

[Preamble: Parties acknowledge the importance of cooperation, including around economic reduce the adverse impacts of the implementation of response measures.]

14. [Parties shall give full consideration to what actions are necessary under this Agneeds and concerns of developing country Parties arising from the impact of the implementation measures, including in terms of economic diversification, and taking into consideration and social and economic development are the first and overriding priorities of development. Parties agree to enhance actions under this Agreement, including through strengther

arrangements, and to adopt modalities and procedures for enhancing those arrangements.

shall establish a cooperative mechanism to address the adverse impacts of the implement measures on developing country Parties, as included in decision -/CP.21.]

Parties, including regional economic integration organisations and their member States agreement to [implement their ###s jointly] [act under Article 3, paragraph 2, jointly of the terms of the agreement, including the emission level allocated to each Party with period, at the time when they communicate their ###s. The secretariat shall in turn in signatories to the Convention of the terms of this Agreement.\

- 17. [In the event of failure by the] [Each] Part[y] [ies] to such an agreement [to ach: party to that agreement] shall be responsible for its emission level as set out in that paragraph [14] above and Articles [9] and [11].\
- 18. If Parties [implementing their ###s jointly] [acting jointly]do so in the framework regional economic integration organization which is itself a Party to this Agreement, regional economic integration organization individually, and together with the regional organization shall[, in the event of failure to achieve the common ###s,] be responsible to the sagreement notified under paragraph (1) in accordance with paragraph [14] and [11].\
- 19. If Parties [implementing] [acting] jointly do so in the framework of, and together integration organization, any alteration in the composition of the organization shall shall only apply for the purposes of those ###s that are communicated subsequent to the {Cooperative approaches}\
- 20. [Parties shall, where engaging on a voluntary basis in cooperative approaches that internationally transferred mitigation outcomes towards ###, promote sustainable developmental integrity and apply robust accounting to ensure, inter alia, the avoidance accordance with guidance adopted by the CMA.]\

{Long-term strategies}\

- 21. All Parties should voluntarily formulate and communicate long-term low-emission de [Article 3 bis] (REDD-PLUS) \setminus
- 1. Parties are encouraged to conserve and enhance, as appropriate, sinks and reservoire Article 4 paragraph 1(d) of the Convention.
- 2. Parties are encouraged to incentivize, [including by scaling up resources] the reduce deforestation and forest degradation and to promote the conservation and sustainable menhancement of forest carbon stocks in developing countries, while enhancing the non-casupport alternative policy approaches, such as joint mitigation and adaption approaches sustainable management of forests, including alleviating poverty and building ecosystem accordance with previous COP decisions related to forests.\

[Article 3 ter] (MECHANISM TO SUPPORT SUSTAINABLE DEVELOPMENT)\
{Proposed Mechanism 1}\

- 1. [A mechanism to support sustainable development [in developing country Parties] is I the authority and guidance of the CMA, shall be supervised by a body designated by the
- (a) Promote sustainable development [in developing country Parties];\
- (b) Incentivise and facilitate participation in mitigation action by public and private responsibility of a Party;
- (c) Enhance mitigation ambition by [developing country] Parties [, by incentivising such climate action, beyond their ###];
- (d) Deliver, where desired by participating Parties, a net decrease in, or avoidance of
- (e) Assist Parties [with a ### reflecting an absolute target in relation to a base year through the use of mitigation outcomes from mitigation activities [in developing counts
- (f) Ensure environmental integrity, including by ensuring that such mitigation shall n

- once, in accordance with guidance adopted by the CMA pursuant to Article [3, paragraph
- 2. [The CMA shall ensure that a share of the proceeds from activities under the mechan administrative expenses as well as to assist developing country Parties that are partial adverse effects of climate change to meet the costs of adaptation.]
- 3. [The CMA shall adopt modalities and procedures for this mechanism at its first sess {Proposed Mechanism 2}
- 1. [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 CMA, shall be supervised by the CMA, and shall aim to:\
- (a) Enhance mitigation and adaptation ambition and the provision or mobilization of putechnology 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 under the responsibility of a
- (c) Support the implementation of the joint mitigation and adaptation approach for the sustainable management of forests as an alternative policy approach to results-based pages.
- (d) Fully respect mitigation contributions of participating Parties to ensure that the not undermined. \backslash
- 2. The CMA shall adopt modalities and procedures for the mechanism at its first session Article 4 (ADAPTATION)\
- 1. Parties hereby establish the global goal of enhancing adaptive capacity, strengthen vulnerability to climate change, [in accordance with the objective, principles and proincluding common but differentiated responsibilities and respective capabilities,] with sustainable development [and ensuring adaptation in the context of the goal of holding average temperature below [2 degrees C][[2 or] 1.5 degrees C 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 contribution to the localimate change to protect people, livelihoods and ecosystems, taking into account the needs of those developing countries that are particularly vulnerable.
- 3. Adaptation efforts of developing countries shall be recognized, in accordance with by the CMA at its first session. \backslash
- 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 increases exceeding adaptation limits].
- 5. Parties acknowledge that adaptation action should follow a country-driven, gender-refully transparent approach, taking into consideration vulnerable groups, communities as should be based on and guided by the best available science and, as appropriate, tradic knowledge and local knowledge systems, with a view to integrating adaptation into releven vironmental policies and actions, where appropriate.
- 6. Parties recognize the importance of support and international cooperation for adapting importance of taking into account the needs of those developing countries that are particular vulnerabilities of the least developed countries (LDCs) states (SIDS)].\
- 7. Parties should strengthen their cooperation for enhancing action on adaptation, tak Adaptation Framework, including with regard to:\
- (a) Sharing information, good practices, experiences and lessons learned, including, a

relate to the science, planning, policies and implementation of adaptation actions;\

- (b) Strengthening institutional arrangements, including those under the Convention, to of relevant information and knowledge and the provision of technical support and guida:
- (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 [[and other countries] in need] to identify expractices, adaptation needs, priorities, support provided and received for adaptation and challenges and gaps, in a manner consistent with encouraging good practices;\
- (e) Improving the effectiveness and durability of adaptation actions.\
- 8. Encourages United Nations specialized organizations and agencies to support the effthe actions referred to in paragraph 7 of this Article, taking into account the provis 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) Implementation of adaptation actions, undertakings and/or efforts;\
- (b) The process to formulate and implement national adaptation plans;\
- (c) Assessment of climate change impacts and vulnerability, with a view to formulating determined prioritized actions, taking into account vulnerable people, places and ecosystem.
- (d) Monitoring and evaluation and learning from adaptation plans, policies, programmes
- (e) Building resilience of socioeconomic and ecological systems, including through economic and sustainable management of natural resources.\
- 10. Each Party shall, as appropriate, submit an adaptation communication, which may in needs, plans and actions. \backslash
- 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, a[n intended] nationally determined contribution referred to in Article this Agreement, and/or a national communication.\
- 12. Developing country Parties [[and other countries]in need] shall receive continuous support for the implementation of paragraphs 9 to 11 of this Article, in accordance with Articles 6, 7 and 8 of this Agreement.\
- 13. There shall be a global stocktake on adaptation every 5 years, consistent with the Article 10, and guided by modalities to be adopted by the CMA at its first session, wi
- (a) Recognizing and enhancing the implementation of adaptation action based on the adage communication referred to in paragraph 10 of this Article;
- (b) Assessing the adequacy and effectiveness of support for adaptation;\
- (c) Reviewing the overall progress in achieving the global goal on adaptation referred 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 Charserve this Agreement.\
- 2. Upon the completion of its review at the twenty-second session of the COP,9 $\$ the Warsaw International $\$

Mechanism shall be subject to the authority and guidance of the CMA and supported thromechanism of the Convention. \backslash

3. A climate change displacement coordination facility shall be established under the Mechanism][CMA] to help coordinate efforts to address climate change induced displacement

planned relocation.

4. A process to develop approaches to address irreversible and permanent damage result climate change will be initiated under the [Warsaw International Mechanism] [CMA] with this process within four years.]

Article 6 (FINANCE)\

{Directional goal}\

- 1. Developed country Parties shall provide [new,] [additional,] [adequate,] [predictable 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.\
 {Mobilization}\
- 2. Option 1: All Parties shall take action to mobilize, and/or facilitate the mobilisate wide variety of sources, public and private, bilateral and multilateral, including add through facilitative policy frameworks, in line with their respective and evolving rest with developed country Parties taking the lead, noting the significant role of public need support in order to take action.]\
- Option 2: Developed country Parties and other Parties included in Annex II to the Convenience of the Convenience of the Parties of developing country Parties.\
- Option 3: As part of a shared effort, led by developed country Parties, Parties should mobilization of climate finance from a wide variety of sources, instruments and channel private, bilateral, multilateral, domestic, and international.\
 {Mainstreaming}
- 3. [Parties should integrate climate considerations, including resilience, into internst ${Scale}\$
- 4. Option 1: The mobilization of climate finance [shall][should] be scaled up in a pred manner [beyond previous efforts] [from USD 100 billion per year] from 2020[, recognizing the Green Climate Fund in the scaling up of financial resources for the implementation as other multilateral mechanisms and other efforts].\
- Option 2: The provision and mobilization of financial resources by developed country Podeveloped Parties included in Annex II shall represent a progression beyond their previdentified pathways to annual expected levels of available resources towards achieving quantified goals for the post 2020 period to be periodically established and reviewed. be scaled up from a floor of US\$100 billion per year, including a clear burden-sharing needs and priorities identified by developing country Parties in the context of contribute purpose as defined in Article 2 of this Agreement. It shall take into account an experiorities in the context of contribute purpose as defined in Article 2 of this Agreement. It shall take into account an experiorities in the context of convention.
- Option 3: As part of a shared mobilization effort Parties should, in accordance with postule the scale and effectiveness of climate finance by: mobilizing climate finance from a wand channels; provide, when in a position to do so, support to developing countries in appropriately prioritize support; improve enabling environments; integrate climate consinternational development assistance; and reduce international support for high-emission {Balance mitigation adaptation}
- 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 clubs, SIDS, and Africal, considering the need for public and grant-based resources for

{Loss and damage}\

- 6. The CMA shall ensure that adequate support is available to the International Mechan Damage as defined in Article (XX), as well as to promote and support the development approaches to address irreversible and permanent damage resulting from human-induced communication}\
- 7. Option 1: [Developed country] Parties [and other developed Parties included in Annex [periodically] [biennially] communicate [relevant, indicative] information on [the [provent in [and implementation]]] of [financial resources] [support to developing countries], include and qualitative information on the projected [efforts to mobilize [and attract]] climate [climate finance] [financial resources to be provided to developing country Parties]. \ Option 2: Developed country Parties and other developed Parties included in Annex II shows communicate on the provision and mobilization of financial resources, including quantition formation on the projected levels of public financial resources to be provided to developing as Parties should periodically communicate relevant, indicative information about paragraphs X-Y, as appropriate. \ {Stocktake}\
- 8. The stocktake shall take into account available information by [developed country] bodies on efforts related to climate finance. {Note: Pending outcome of discussions on {MRV}\
- 9. Transparent, complete, consistent, comparable, and accurate information on support : Parties provided, mobilized through public interventions and received shall [regularly] by [X] in accordance with the modalities, procedures and guidelines to be adopted at the session, as stipulated in Article 9, paragraph 8. {Note: pending outcome of Article 9} {Financial Mechanism}\
- 10. The Financial Mechanism of the Convention, including its operating entities, shall mechanism of this Agreement. $\$

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11. The CMA shall provide guidance to the entities entrusted with the operation of the Convention on the policies, programme priorities and eligibility criteria related to the COP. \setminus

{Access}\

12. The Financial Mechanism of the Convention, and its operating entities, serving the ensure efficient access to support for developing country Parties.\

Note: A joint submission was received from Turkey and Ukraine for Art 2.bis Parties will been recognized by the COP and other Parties that are undergoing the process of transic have access to financial support, including for the transfer of technology, under the implementation of the policies and strategies in relation to climate change for action Article 7 (TECHNOLOGY DEVELOPMENT AND TRANSFER)

- 1. All Parties[, in accordance with the principles and provisions of the Convention, is Article 11]], noting the importance of technology for the implementation of mitigation under this Agreement and recognizing existing deployment and dissemination efforts, [si cooperative action [to accelerate and upscale] [on] [technology development and transfer
- (a) [Improving endogenous capacities and enabling environments according to nationally and priorities, in accordance with Article 4, paragraph 5, of the Convention];\
- (b) [Addressing barriers [in accessing to][for] the transfer of safe, appropriate and socially sound technologies [by developing countries];]
- (c) Fostering cooperative approaches to research and development].
- 2. Parties share a long-term vision on the importance of fully realizing technology de

- order 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 refer this Article.\
- 4. Accelerating, encouraging and enabling innovation is critical for an effective, long climate change and providing affordable and reliable energy access and promoting economeffort shall be supported, as appropriate, by the Technology Mechanism and Financial McConvention, for research and development, collaborative approaches, and [meeting the conf] [facilitating access to] technology, in particular for early stages of the technology countries.\
- 5. The Technology Mechanism shall serve this Agreement.
- 6. Developing country Parties are eligible for support in the implementation of this A
- 7. [In accordance with Article 4, paragraphs 3[and 5][, 5 and 9], of the Convention,] Parties [and other Parties included in Annex II to the Convention] shall provide support support, for strengthening cooperative action on technology development and transfer at implementation of the technology framework through the Technology Mechanism and the Figure 1. [The overall implementation of the commitments will be assessed periodically through a accordance with Article 10 of this Agreement.] Parties shall regularly communicate the implementing the provision of support [in a measurable, reportable and verifiable mannary articles 6 and 9 of this Agreement].

Article 8 (CAPACITY-BUILDING)\

country Parties, in particular countries with the least capacity, such as LDCs and SIDs in accordance with the principles and provisions of the Convention] to take effective including, inter alia, to implement adaptation and mitigation actions, and facilitate dissemination and deployment, access to climate finance, relevant aspects of education awareness, and the transparent, timely and accurate communication of information.

- 2. Capacity-building should be country-driven, based on and responsive to national need ownership of Parties, [in particular, for developing country Parties,] including at the local levels. Capacity-building should be guided by lessons learned, including those factivities under the Convention, and should be an effective, iterative process that is and gender-responsive.\
- 3. All Parties should cooperate to enhance the capacity of developing country Parties of 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 shall regularly communicate progress made capacity-building plans, policies, actions or measures to implement this Agreement. {No 9}\
- 5. Capacity-building activities shall be enhanced through appropriate institutional argimplementation of this Agreement, including the appropriate institutional arrangements Convention that serve this Agreement [to the extent that they serve this Agreement]. The initial institutional arrangements for capacity-building at its first session.\
 Article 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.\
Article 9 (TRANSPARENCY)\

- 1. Option 1: A robust transparency framework covering both action and support, differen and developing countries, building on the arrangements under the Convention, related de mechanisms 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 suppor flexibility to take into account Parties differing capacities, and applicable to all Parties Option 3: Building on existing arrangements under the Convention, a transparency frame support that takes into account Parties different capacities and is applicable to all
- 2. The transparency framework shall provide flexibility in the implementation of the particle. developing country Parties in the light of their capabilities. The modalities, procedu in paragraph 8 of this Article shall reflect such flexibility.\
- 3. The transparency framework shall be guided by the principles of the Convention and and arrangements under the Convention, recognizing the special circumstances of the le and small island developing States, and be implemented in a facilitative, non-intrusive respectful of national sovereignty, and avoid placing undue burden on Parties and the
- 4. The purpose of the framework for transparency of action is to:\
- (a) Provide a clear understanding of climate change actions in the light of the object the Convention:\
- (b) Provide a clear understanding of the anthropogenic emissions by sources and removal individual Parties;\
- (c) Facilitate understanding of global aggregate emissions and removals to inform the Article 10;\
- (d) Ensure clarity and tracking of progress made towards {insert the relevant phrase f 3.2} and achieving individual Parties respective mitigation {insert the relevant phrase Article 3.2} under Article 3;\
- (e) Provide clarity on Parties adaptation actions under Article 4, including good pracand gaps.\
- 5. The purpose of the framework for transparency of support is to:\
- (a) Provide a clear understanding of the support provided and received by relevant ind context of climate change actions under Articles 3 and 4;\
- (b) Achieve, to the extent possible, a full overview of aggregate financial support pro global stocktake under Article 10;\
- (c) Ensure clarity and tracking of progress made in providing support in accordance wi
- (d) Ensure clarity and tracking of support needed and received by developing country Po with Articles 6, 7 and 8;
- (e) Ensure the avoidance of double counting of financial resources provided.\
- 6. Each Party shall regularly provide the following information in accordance with guid
- paragraph 6 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 greenhous
- (c) Progress made towards achieving individual Parties respective mitigation {insert times to the content of th from outcome of Article 3.2} under Article 3 including information specific to type of phrase from outcome of Article 3.2};\
- (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 required 6.14, 7 and 8.
- 7. Option 1: The information provided by each Party as required under this Article sha

expert review, in accordance with guidelines and procedures adopted by the CMA, with a be given to LDCs and SIDS. $\$

The review shall provide a thorough, objective and comprehensive technical assessment of implementation and achievement of its nationally determined mitigation {insert the relevant control of Article 3.2} and other requirements of the Agreement, analyze the extent to reporting is in line with the guidelines adopted by the CMA, and identify any areas for and possible capacity building, in consultation with the Party concerned. The technical carried out by an expert review team that shall produce a report, to be consulted with publication by the secretariat and consideration by the CMA. The report shall identify compliance in accordance with Article 11. A multilateral and facilitative examination information above.\

Option 2: All information provided by developed country Parties, and shall be reviewed technical review process followed by a multilateral assessment process, and result in consequences for compliance; All the information provided by developing country Parties through a technical analysis process followed by a multilateral facilitative sharing or report, in a manner that is nonintrusive, non-punitive and respectful of national sover level of support received from developed country Parties.\

- 8. The CMA shall, at its first session, building on experience from the arrangements rethe Convention, and elaborating on the provisions in this Article, adopt common modaliguidelines, as appropriate, for the transparency of action and support. {Placeholder toutcomes of discussion on accounting}\
- 9. The transparency arrangements under the Convention, including national communication biennial update reports, international assessment and review (IAR) and international control (ICA), shall form part of the experience drawn upon for the development of modalities, guidelines under paragraph 8 of this Article.\
- 10. Support shall be provided to developing countries for the implementation of paragrants. Developed country Parties shall provide support to developing country Parties in the Article. {to be revised pending global solution in Article 6}\
- 12. Support shall also be provided for the building of transparency-related capacity of continuous basis.

Article 10 (GLOBAL STOCKTAKE)\

- 1. The CMA shall periodically take stock of the implementation of this Agreement to as towards achieving the purpose of this Agreement and its long-term goals. It shall do stacilitative manner, considering mitigation, adaptation and the means of implementation of the best available science [and equity].\
- 2. The CMA shall undertake its first global stocktake in [2023][2024] and every five years otherwise decided by the CMA. $\$
- 3. The outcome of the stocktake shall guide and inform Parties in updating and enhancing in a nationally determined manner, in accordance with the relevant provisions of this enhancing international cooperation for climate action.
- Article 11 (FACILITATING IMPLEMENTATION AND COMPLIANCE) \setminus
- 1. A mechanism to facilitate implementation of [and promote compliance with] the provihereby established.\
- 2. 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 operate under modalities and procedures adopted by the CMA at its annually to the CMA.

Article 12 (CMA)\

- 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 CMA shall keep under regular review the implementation of this Agreement and shamandate, the decisions necessary to promote its effective implementation. It shall perto it by this Agreement and shall:\
- (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 CMA.\
- 6. The first session of the CMA shall be convened by the secretariat in conjunction wi Conference of the Parties that is scheduled after the date of entry into force of this ordinary sessions of the CMA shall be held in conjunction with ordinary sessions of the decided by the CMA.\
- 7. Extraordinary sessions of the CMA shall be held at such other times as may be deemed at the written request of any Party, provided that, within six months of the request be Parties by the secretariat, it is supported by at least one third of the Parties.\
- 8. The United Nations, its specialized agencies and the International Atomic Energy Agmember thereof or observers thereto not party to the Convention, may be represented at observers. Any body or agency, whether national or international, governmental or non-qualified in matters covered by this Agreement and which has informed the secretariat represented at a session of the CMA as an observer, may be so admitted unless at least present object. The admission and participation of observers shall be subject to the rein paragraph 5 of this Article.\

Article 13 (SECRETARIAT)\

- 1. The secretariat established by Article 8 of the Convention shall serve as the secretariat, and 2. Article 8, paragraph 2, of the Convention on the functions of the secretariat, and 2.
- Convention on arrangements made for the functioning of the secretariat shall apply mutagreement. The secretariat shall, in addition, exercise the functions assigned to it us the CMA.\

Article 14 (SBSTA AND SBI)\

1. The Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body (SBI) established by Articles 9 and 10 of the Convention shall serve, respectively, as Scientific and Technological Advice and the Subsidiary Body for Implementation of this provisions of the Convention relating to the functioning of these two bodies shall app Agreement. Sessions of the meetings of the Subsidiary Body for Scientific and Technolog Subsidiary Body for Implementation of this Agreement shall be held in conjunction with respectively, the Subsidiary Body for Scientific and Technological Advice and the Subs Implementation of the Convention.\

- 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 decisions under this Agreement shall be taken only by those that are Parties
- 3. When the subsidiary bodies established by Articles 9 and 10 of the Convention exerc regard to matters concerning this Agreement, any member of the bureaux of those subsid a Party 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.\
- Article 15 (BODIES AND INSTITUTIONAL ARRANGEMENTS TO SERVE AGREEMENT)\
 1. Subsidiary bodies or other institutional arrangements established by or under the Control of the
- referred to in this Agreement, shall serve this Agreement upon a decision of the CMA. The functions to be exercised by such bodies or arrangements. \setminus
- 2. The CMA may provide further guidance to those subsidiary bodies and institutional at functions to be exercised by such bodies and institutional arrangements [including for and institutional arrangements nominated by Parties to the Convention that are not Particle extent that these bodies and institutional arrangements serve this Agreement].\
 Article 16 (SIGNATURE AND INSTRUMENTS OF RATIFICATION, ACCEPTANCE, APPROVAL OR ACCESSIONAL ARRANGEMENTS OF RATIFICATIONAL ARRANGEMENTS OF RATIFICAT
- 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 Agreement 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. \setminus
- 3. In their instruments of ratification, acceptance, approval or accession, regional e organizations 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 (ENTRY INTO FORCE)\

- 1. This Agreement shall enter into force on the thirtieth day after the date on which a Convention have deposited their instruments of ratification, acceptance, approval or a than 1 January 2020].]
- 2. 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 by economic integration organization of its instrument of ratification, acceptance, approximately approximately acceptance.
- 3. For the purposes of paragraph 1 of this Article, any instrument deposited by a region organization shall not be counted as additional to those deposited by its member State Article 19 (AMENDMENTS)\
- 1. The provisions of Article 15 of the Convention on the adoption of amendments to the mutatis mutandis to this Agreement. \setminus
- 2. [Notwithstanding paragraph 1 of this Article, a Party may propose an adjustment [[to expressed by its [mitigation commitment] inscribed in] Annex [X] to this Agreement. A gadjustment shall be communicated to the Parties by the secretariat at least three mont. CMA at which it is proposed for adoption.]\

- 3. [An adjustment proposed by a Party [to enhance] the efforts expressed by its [mitig in Annex [X] to this Agreement shall be considered adopted by the CMA unless more than Parties present and voting object to its adoption. The adopted adjustment shall be communication by the Depositary. Such adjustments shall be binding a Article 20 (ANNEXES)\
- 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 procedural or administrative character\

The provisions of Article 16 of the Convention on the adoption and amendment of annexes shall apply mutatis mutandis to this Agreement.\

Article 21 (SETTLEMENT OF DISPUTES)\

The provisions of Article 14 of the Convention on settlement of disputes shall apply magreement.

Article 22 (VOTING)\

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

The Secretary-General of the United Nations shall be the Depositary of this Agreement. Article 24 (RESERVATIONS) \setminus

No reservations may be made to this Agreement. $\$

Article 25 (WITHDRAWAL)\

- 1. At any time after three years from the date on which this Agreement has entered int 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 (LANGUAGES)\

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

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In [22]: from nltk.tokenize import sent_tokenize
```

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In [23]: 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
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In [37]: new_UN_draft2_=fast_tokenize(UN_draft2)
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In [39]: new_UN_draft2=[new_UN_draft2_]
In [40]: model = gensim.models.Word2Vec(new_UN_draft2, size=100, window=5, min_count=1, sg=0, states.
In [41]: model.most_similar(positive=['Parties'], negative=['shall'])
Out[41]: [('levelsOption', 0.3519841432571411),
          ('Adaptation', 0.31466883420944214),
          ('flows', 0.2929728925228119),
          ('developedcountries', 0.2673737108707428),
          ('vulnerabilities', 0.22656044363975525),
          ('depend', 0.21446290612220764),
          ('changePp14', 0.21337243914604187),
          ('Agreements', 0.20732036232948303),
          ('globalaverage', 0.20580831170082092),
          ('Assessing', 0.20006036758422852)]
In [42]: model.most_similar(positive=['Parties'], negative=['should'])
Out[42]: [('identified', 0.33863621950149536),
          ('ending', 0.31090471148490906),
          ('DEVELOPMENTProposed', 0.30523881316185),
          ('thatregional', 0.2719852030277252),
          ('cent7095', 0.246707022190094),
          ('measuresPp5', 0.24333970248699188),
          ('principle', 0.24280330538749695),
          ('GLOBAL', 0.23549741506576538),
          ('expected', 0.23427700996398926),
          ('middle', 0.23365730047225952)]
In [43]: model.most_similar(positive=['Parties'], negative=['financial'])
Out[43]: [('shortterm', 0.35652273893356323),
          ('traditional', 0.2800828814506531),
          ('enhancement', 0.2666763663291931),
          ('Pp10', 0.24448275566101074),
          ('andDamage', 0.2410147488117218),
          ('poverty2', 0.23994851112365723),
          ('GENERALOption', 0.2315927892923355),
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