

Draft 3

December 12, 2017

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In [ ]: 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
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In [5]: UN_draft3="""A. DRAFT AGREEMENT\
[The Parties to this Agreement,\
Pp1 Being Parties to the United Nations Framework Convention on Climate Change (hereinafter referred to as the "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 light of the current and projected climate change circumstances,\
Pp3 Pursuant to the Durban Platform for Enhanced Action established by decision 1/CP.17, the 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 address the needs and concerns arising from the adverse impacts of response measures,\
Pp5 Taking account of the specific needs of developing country Parties, and especially the specific needs of the most vulnerable and the extremely vulnerable to climate-related events,\
Pp6 Taking account also of the specific needs and special situations of the least developed countries, as set out in Article 4, paragraph 9, of the Convention, and the specific circumstances of small island developing States (SIDS),\
Pp7 Emphasizing the need to respond to the urgent threat of climate change on the basis of the best available scientific knowledge, in particular, the assessment reports of the Intergovernmental Panel on Climate Change,\
Pp8 [Noting that the largest share of historical global emissions of greenhouse gases have originated in developed countries, that per capita emissions in developing countries are still relatively low and that total emissions originating in developing countries will grow to meet their social and development needs,]\
Pp9 [Recognizing that Parties should take action to address climate change in accordance with the principles of equity and common but differentiated responsibilities, and taking into account the current and projected climate change and emission trends, which will continue to evolve post-2020,]\
Pp10 Emphasizing the importance of promoting, protecting and respecting all human rights, including the right to health, and the rights of indigenous peoples, migrants, children, persons with disabilities and other vulnerable groups, in particular in vulnerable climate situations [, and under occupation,] as well as promoting gender equality and empowerment of women, while taking into account the needs of local communities, interg
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concerns, and the integrity of ecosystems and of Mother Earth, when taking action to address the concerns of the Parties, and the integrity of ecosystems and of Mother Earth, when taking action to address the concerns of the Parties,

Pp11 Taking into account the imperatives of a just transition of the workforce and the creation of decent, quality jobs in accordance with nationally defined development priorities,\

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

Pp13 Also recognizing the importance of the conservation and enhancement, as appropriate, of sinks of greenhouse gases referred to in Article 4, paragraph 1(d), of the Convention, including agreed approaches [such as REDD-plus and the joint mitigation and adaptation approach for forests], sustainable management of forests], and of their non-carbon co-benefits,\

Pp14 Affirming the importance of education, training, public awareness, public participation, information and cooperation at all levels on the matters addressed in this Agreement, and the importance of engagements of all levels of government and various actors, in accordance with national legislations of Parties, in addressing climate change,\

Have agreed as follows:\

Article 1 (DEFINITIONS)\

For the purposes of this Agreement, all definitions contained in Article 1 of the Convention shall apply.

Article 2 (PURPOSE)\

1. The purpose of this Agreement is [to enhance the implementation of the Convention] and to achieve the objective of the Convention as stated in its Article 2]. In order to strengthen the global response to the threat posed by climate change, Parties agree to take urgent action and enhance cooperation and support in order to:

(a) To hold the increase in the global average temperature [below 1.5 řC] [or] [well below 2 řC] to levels by ensuring deep reductions in global greenhouse gas [net] emissions;\

(b) To Increase their ability to adapt to the adverse impacts of climate change [and to ensure resilience to the impacts of the implementation of response measures and to loss and damage];\

(c) To pursue a transformation towards sustainable development that fosters climate resilience, sustainable greenhouse gas emission societies and economies, and that does not threaten food production and food distribution.\

2. [This Agreement shall be implemented on the basis of equity and science, and in accordance with the principle of equity and common but differentiated responsibilities and respective capabilities, taking into account national circumstances, and on the basis of respect for human rights and the promotion and protection of the right of peoples under occupation].]\

Article 2bis (GENERAL)\

1. [All Parties [shall] regularly prepare, communicate [and implement] [intended] nationally determined contributions] [contributions] [components] [on [mitigation] and adaptation] [undertakings in adaptation and mitigation] of implementation]2\

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

2. [Each Party's [intended] nationally determined contribution will represent a progression towards achieving the objective of the Convention, taking into account differentiated responsibilities and commitments under the Convention.]\

3. [The extent to which developing country Parties will effectively implement this Agreement will be determined by the effective implementation by developed country Parties of their commitments on the provision of financial resources, technology development and transfer and capacity-building.] \

4. [Successive [intended] nationally determined contributions will be [informed by the results of the global stocktake as defined in Article 10 of the Convention] and communicated before the expiration of the [intended] nationally determined contribution by the Party concerned.]\

Article 3 (MITIGATION)\

{Collective long-term goal}\

1. [Parties [collectively][cooperatively] aim to reach the global temperature goal referred to in paragraph 1, recognizing that reaching the goal will require deeper cuts of emissions of developed countries and will be longer for developing countries].\

(a) [A peaking of global greenhouse gas emissions as soon as possible[, recognizing that reaching the goal will require deeper cuts of emissions of developed countries and will be longer for developing countries].\

(b) [Rapid reductions thereafter [in accordance with best available science] to at least halve global [greenhouse gas emissions][CO₂e]] compared to 20XX levels by 2050].\

(c) [Achieving zero global GHG emissions by 2060-2080]\

(d) [A long-term low emissions transformation] [toward [climate neutrality][decarbonization]] [by mid-century] [as soon as possible after mid-century];\

(e) [Equitable distribution of a global carbon budget based on historical responsibilities and respective capabilities, taking into account the needs of sustainable development and eradication of poverty][while ensuring that food security and sustainable development is not threatened][informed by the best available science].\

1bis. [To achieve this, policies and measures should take into account different socio-economic conditions, be comprehensive, cover all relevant sources, sinks and reservoirs of greenhouse gases and land use change, and comprise all economic sectors [for developed countries]]\

{Individual efforts}\

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

and [shall][should][other]\

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

[Possible placeholder for Article 3.8 and 3.9]\

[Possible placeholder for context CBDR&RC[, in the light of different national circumstances]]\

[Possible placeholder referring to article 4 of the Convention]\

[Possible placeholder for support]\

{Differentiated efforts}\

Option 1:\

3. In accordance with Article 4, paragraph 2, of the Convention, developed country Parties included in Annex I shall undertake quantified economy-wide absolute emission reduction commitments/targets, which are comparable, measurable, reportable and verifiable, cover all sectors, and are implemented domestically without any conditions.\

3bis. In accordance with Article 4, paragraphs 1, 3, 4, 5 and 7, of the Convention, developed country Parties shall undertake diversified enhanced mitigation actions/efforts in a measurable, reportable, verifiable, and transparent manner, in the context of sustainable development and supported and enabled by the provision of access to technology and capacity-building by developed country Parties.\

Option 2:\

3. Option (a): Each Party that has previously [communicated] [implemented] absolute emission reduction or limitation targets should continue to do so and all Parties should aim to lead in mitigation efforts, including by [communicating] [and implementing] absolute emission reduction [or limitation] targets and all other Parties should aim to do so over time.\

Option (b): Developed country Parties [and other Parties [in a position][that determine the lead in mitigation efforts, including by [communicating] [and implementing] absolute emission reduction [or limitation] targets and all other Parties should aim to do so over time].\

3bis. [Developed country Parties should continue to take the lead].4\

{Flexibility}\

4. LDCs [and SIDS][and African states] may communicate their ### at their discretion, including their strategies, plans and actions for low GHG development, reflecting their special circumstances.\

{Support}5\

(moved up)\

5. Option 1: Developed country Parties and other developed Parties included in Annex I and other Parties with the capacity to do so] shall provide new and additional financial resources and capacity-building to meet the agreed full costs incurred by developing country Parties in fulfilling their obligations under this Article.\

Option 2: Developing country Parties6\

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

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

{Progression/ambition}\

6. Each Party's successive ### [shall][should][will] represent a progression beyond the previous one and reflect its highest possible ambition [based on common but differentiated responsibilities and respective capabilities [[and] in light of different national circumstances [and best available science, technology, finance, technology and capacity-building to developing countries]].7\

{Information}\

7. [In communicating their ###, all Parties shall provide the information necessary for a full understanding in accordance with decision 1/CP.21 and any subsequent decisions of the CMA on the following features8\

{Features8\

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8. [Option 1: Each Party's ### [shall][should] be quantified or quantifiable, [be unconditional and maintain coverage of emissions and removals covered previously, and strive for coverage of all sources and removals over time. Additional guidance may be elaborated by decision [of the CMA].

[Option 2: Each Developed country Party's ### shall be quantified, cover all key categories of sources and removals by sinks and use common Intergovernmental Panel on Climate Change guidance and guidelines for the estimation of greenhouse gas emissions and removals; and shall communicate this over time. Additional guidance may be elaborated by the [CMA] [APA] and [other relevant bodies].

[Option 3: Guidance on the features of ### to be elaborated by decision [of the CMA].

[Option 4: Guidance on the features of ### to be elaborated by decision of the CMA at its first meeting].

{Timing}\

{First communication}\

9. Each Party [shall][should] communicate its first ### no later than [upon ratification, accession or joining] this Agreement.\

{Subsequent communication}\

10. Option 1: Successive ### shall be communicated by Parties after completion of the current reporting cycle.\

Option 2: Each Party shall [communicate its successive][, update or confirm its] ### every five years on a synchronized basis] [, taking into account the outcomes of the global stocktake referred to in Article 13.4].

{Ex ante process}\

11. [Each Party shall submit an intended ### [x months prior to][well before] the final communication. It shall participate in a [preparatory] process that [facilitates][promotes] clarity, transparency and consistency of the intended ###, including their aggregate effect in the light of the long-term temperature goal set in Article 2, including through the production of an aggregate synthesis report. The [preparatory] process shall be conducted in accordance with the modalities and procedures to be adopted by the CMA at its first meeting].

{Adjustments}\

12. A Party may at any time adjust its existing ### with a view to enhancing its level of ambition, subject to the simplified adjustment procedure referred to in Article 19, paragraph 3]. [Adjustments to ambition levels may only be communicated in case the [developing country] Party's efforts to meet its commitment are affected by an extreme natural event, economic shock or force majeure.][Developing countries may also adjust their commitment in the light of the outcomes of the global stocktake referred to in Article 13.4].

their ### at their discretion depending upon the adequacy and availability of finance, and transfer and capacity-building support.]\

{Housing}\

13. Option 1: [The ### communicated by Parties shall be [listed][published] [in an online secretariat][in Annex [X] to this Agreement][on the UNFCCC website].]\

Option 2: [The ### communicated by developed country Parties shall be inscribed in Annex A to this Agreement.]\

The ### communicated by developing country Parties shall be inscribed in Annex B to this Agreement.]\

{Accounting} 10\

14. [Option 1: [In the context of of][In tracking progress towards achieving] ###, each Party shall ensure that its reporting is consistent with the principles of transparency, accuracy, completeness, comparability, consistency, and avoidance of double counting, where internationally transferred mitigation outcomes are used to track progress towards achieving the environmental integrity of the agreement.]\

[Option 2: In tracking progress towards achievement of their ###, Parties shall apply the principles of transparency, accuracy, completeness, comparability, consistency, avoidance of double counting, and avoidance of double counting, where internationally transferred mitigation outcomes are used to track progress towards achieving the environmental integrity, as further elaborated in [para x] decision 1/CP.21 and any further guidance developed under paragraph 14(a) below. Furthermore:

(a) The CMA shall, at its first session, adopt the principles and guidance for tracking progress towards achieving the environmental integrity of the agreement with respect to [land use], and internationally transferred mitigation outcomes in accordance with decision 1/CP.21. Such principles and guidance shall apply to ### to be communicated for subsequent sessions. Parties may elect to apply such guidance to their first ###;\

(b) Parties shall ensure methodological consistency between the definition of the ### and the reporting with respect to paragraph [X] above;\

(c) Parties shall report on progress towards achievement of their ### in accordance with decision 1/CP.21, Article 9, [para x] decision 1/CP.21.]\

(d) Parties shall ensure that internationally transferred mitigation outcomes used to track progress towards achieving the environmental integrity are additional and verified, and are not double-counted.]\

{Methods and guidance}\

15. [Option 1: In the context of their ###, when recognizing and implementing mitigation measures to reduce anthropogenic emissions and removals [including from [land use] [or REDD-plus]], Parties shall build on existing methods and guidance under the Convention and from the IPCC.]\

Option 2: In elaborating guidance further to paragraph 10 with respect to anthropogenic emissions and removals from [land use], including forests, Parties shall take into account any relevant decisions of the CMA.]\

Option 3: The rules and guidance related to tracking of progress towards achieving the environmental integrity adopted by the [CMA][APA] at its [x] session.]\

{Response measures}\

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

16. [[Parties shall give full consideration to what actions are necessary under this Agreement to address the needs and concerns of developing country Parties arising from the impact of the implementation of response measures, including in terms of economic diversification, and taking into consideration that economic and social and economic development are the first and overriding priorities of developing countries. Parties agree to enhance actions under this Agreement, including through strengthening existing and new arrangements, and to adopt modalities and procedures for enhancing those arrangements. Parties shall establish a cooperative mechanism to address the adverse impacts of the implementation of response measures.]\

measures on developing country Parties, as included in decision -/CP.21.]]\

{Unilateral measures}\

17. [[Developed country Parties shall not resort to any form of unilateral measures against developing country Parties on any grounds related to climate change, recalling the principles of the Convention, in particular its Article 3, paragraphs 1, 4 and 5, and Article 4, paragraph 1, and taking into account the principles of equity, common but differentiated responsibilities and the need for developed country Parties to provide financial resources, transfer of technologies and capacity-building to developing country Parties.]]\

{REIOs}\

18. [Parties, including regional economic integration organizations and their member States, shall communicate and[/or] implement their ### [detailing in their joint communication the commitments at the individual levels of the ### of each member State of that regional economic integration organization] acting jointly do so in the framework of, and together with, a regional economic integration organization. Any alteration in the composition of the organization after adoption of this Agreement shall not affect those commitments under this Agreement. Any alteration in the composition of the organization shall apply to those commitments under Article 3 that are adopted subsequent to that alteration. If Parties do not implement their ### in the framework of, and together with, a regional economic integration organization, each member State of that regional economic integration organization, individually and together with the regional economic integration organization shall, in order to achieve the total combined level of ###, be responsible for the level of its ### as commensurate with this Article.] \

19. Parties acknowledge the importance of [cooperation in][cooperative approaches for] enhancing the ambition of climate action [at the international level].\

19alt. Parties may also cooperate in the implementation of ###.\

[19bis. Where cooperative approaches involve the use of internationally transferred mitigation units, Parties participating shall [safeguard] [promote] sustainable development and environmental integrity, and apply robust accounting to ensure, inter alia, that double counting is avoided, taking into account the guidance adopted for this purpose by the CMA [taking into account guidance adopted at the COP.15 decision -/CP.16].]\

[19ter. A share of proceeds for adaptation shall apply.]\

Option 2:\

19. Cooperative approaches of Parties, based on Article 4.7 of the Convention, must ensure that mitigation outcomes together with adaptation co-benefits to be verified internationally, including [International transport emissions]\

20. [Parties [shall][should][other] pursue the limitation or reduction of greenhouse gas emissions from international aviation and marine bunker fuels, working through the International Civil Aviation Organization and the International Maritime Organization, respectively, with a view to agreeing concrete measures to reduce emissions, including developing procedures for incorporating emissions from international aviation and marine bunker fuels into low-emission development strategies.] \

[Article 3 bis] (REDD-PLUS)\

1. [Mechanisms for forest mitigation and adaptation are] [A REDD-plus mechanism is] hereby established.\

2. The REDD-plus mechanism consists of relevant decisions of the COP, including decisions on forest management and decision -/CP.21.\

3. The purpose of the REDD-plus mechanism shall be to incentivize the reduction of emissions from deforestation and forest degradation and to promote the conservation and sustainable management of forests and of forest carbon stocks in developing countries, while enhancing the non-carbon benefits and functions of forests, including alleviating poverty and building ecosystem resilience.\

4. [The Joint Mitigation and Adaptation Mechanism (JMA) is established to support the management of forests as an alternative to results-based payments, in accordance with the

[Article 3 ter12] (MECHANISM TO SUPPORT SUSTAINABLE DEVELOPMENT)\

{Proposed Mechanism 1}\

1. [[Establishes a multi window mechanism] [Establishes a framework for sustainable development mechanism to support sustainable development in [developing country] Parties is hereby established under the authority and guidance of the CMA, shall be supervised by a body designated by the CMA]

(a) Promote sustainable development in developing country Parties;\

(b) Incentivise and facilitate participation in mitigation action by public and private entities in developing country Parties;\

(c) [Enhance mitigation ambition by developing country Parties, by incentivising supply-side measures to support climate action, beyond their ###] [Fully respect the mitigation contributions of participating Parties to ensure that the global mitigation effort is not undermined];\

(d) [Provide for net global emission reductions through the cancellation of a share of emission reductions transferred, used or acquired];\

(e) [Assist Parties with a ### that reflects an absolute target in relation to a base year, achieved through the use of mitigation outcomes from mitigation activities in developing countries, taking into account the variety and dynamics of national circumstances of Parties];\

(f) [Ensure environmental integrity of Parties cooperative mitigation actions, including that no double counting of mitigation shall not be claimed more than once, in accordance with accounting guidance in the CMA].\

2. [The CMA shall ensure that a share of the proceeds from certified project activities shall be used to cover administrative expenses as well as to assist developing country Parties that are particularly vulnerable to the adverse effects of climate change to meet the costs of adaptation.]\

3. [The CMA shall adopt modalities and procedures for the first window of the above mechanism, building on the mechanism defined under [Article 12] [Article 6] of the Kyoto Protocol and taking into account the CMP.]\

{Proposed Mechanism 2}\

1. [Establishes a mechanism to support holistic and integrated approaches to sustainable development, including with nature to be available to assist developing country Parties in fulfilling their 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climate change to protect people, livelihoods and ecosystems[, taking into account the needs of those developing countries that are particularly vulnerable].\

3. [The global goal for adaptation shall be the basis for, inter alia:\

(a) Assessment of the adequacy of support from developed country Parties to developing countries. This assessment will be undertaken through strengthened measurement, reporting and verification of support;\

(b) Recognition of the adaptation efforts of developing country Parties;\

(c) Recognition of increased adaptation needs and associated costs in the light of mitigation, taking into account the need for adaptation regardless of the level of mitigation reached, and taking into account the relationship between aggregate mitigation ambition, associated climate change impacts, adaptation needs and cost, while recognizing there are limits to adaptation.]\

4. [Parties recognize that adaptation [will][may] be needed regardless of the level of mitigation achieved and that greater aggregate levels of mitigation can reduce the need for additional adaptation efforts.]

5. Parties acknowledge that adaptation action should follow a country-driven, gender-responsive and fully transparent approach, taking into consideration [human rights,] [the rights of people, particularly vulnerable groups, communities and ecosystems, and should be based on and guided by the best available science and, as appropriate, traditional, indigenous peoples knowledge and local knowledge.] with a view to integrating adaptation into relevant socioeconomic and environmental policies and programmes, as appropriate.\

6. Parties further recognize the importance of international cooperation and support for adaptation, and the importance of taking into account the needs of those developing countries that are particularly vulnerable, including recognizing the particular vulnerabilities of the least developed countries (LDCs) and small island developing States (SIDS).\

7. Parties [shall][should] enhance their cooperation for enhancing action on adaptation, including the Cancun Adaptation Framework, including with regard to:\

(a) Sharing information, good practices, experiences and lessons learned, including, as appropriate, those that relate to the science, planning, policies and implementation of adaptation actions;\

(b) Strengthening institutional arrangements, including those under the Convention, to facilitate the exchange of relevant information and knowledge and the provision of technical support and guidance;\

(c) Strengthening scientific knowledge on climate, including research and systematic observation of the climate system, in a manner that informs the development and delivery of climate services and supports decision-making;\

(d) [Assessment of the [effectiveness][adequacy] of support [referred to in paragraph 3], with a view to ensuring transparency and accountability;]\

(e) Assisting [developing] country Parties to identify effective adaptation practices, assess needs, priorities, support provided and received for adaptation actions and efforts, and challenges, in a manner consistent with encouraging good practices;\

(f) Improving the effectiveness and durability of adaptation actions.\

8. Encourages United Nations agencies to support the efforts of Parties to implement the adaptation action in paragraph 7 of this Article, taking into account the provisions of paragraph 5 of this Article.

9. Each Party should engage in the implementation of adaptation planning processes and measures, including the development or enhancement of relevant plans, policies and/or contributions, which may include:\

(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 and implementing prioritized actions, taking into account vulnerable people, places and ecosystems;\

(d) Strengthening enabling environments for the implementation of adaptation;\

(e) Monitoring, evaluating and learning from adaptation plans, policies, programmes and measures.

(f) Building resilience of socioeconomic and ecological systems, including through economic and sustainable management of natural resources.\

10. Each Party may submit an adaptation communication [or communications on actions, undertakings and/or efforts on adaptation referred to in paragraph 9(a) and (b) of this Article], which may include information on needs, plans and actions.\

11. The adaptation communication [or communications on actions, undertakings and/or efforts referred to in paragraph 10 of this Article may be:\

(a) Submitted independently, as a component of or in conjunction with another communication, such as a national adaptation plan[, an intended] nationally determined contribution and/or a national communication;\

(b) Updated or submitted [periodically] [in conjunction with mitigation cycles].\

12. [The adaptation communication [or communications on action, undertakings and/or efforts referred to in paragraph 10 of this Article [shall][may] be [recorded in a registry][made available to the secretariat [on the UNFCCC website]] [in accordance with modalities to be decided by the Parties at their first session].]\

13. [Developing country Parties should receive continuous and enhanced international support for the implementation of Article 4, paragraphs 9-11, in accordance with the provisions of Article 18].\

14. [There shall be a [high-level session][global stocktake] on adaptation every [X] years, with a view to [enhancing the implementation of adaptation action based on the adaptation communication [or communications on action, undertakings and/or efforts on adaptation] referred to in paragraph 9 of this Article] and the adequacy of support and recognizing the adaptation efforts of developing country Parties].\

15. [[The AC, the LEG, the AF, the GCF, the LDCF, the SCCF, the TEC, the CGE, and other bodies][institutional arrangements for adaptation] under the Convention shall serve this purpose].\

shall, based on a review of institutional arrangements under the Convention, further enhance the institutional framework for this Agreement in order to enhance its coherence and effectiveness, build on existing mechanisms and coordinating institutional arrangements relevant to adaptation under the Convention].\

Suggested paragraphs for Article 6:\

X. [[Developed country Parties][Parties included in Annex II to the Convention] shall provide financial support to Parties with long-term, scaled-up, predictable, new and additional finance, technology and capacity-building for the implementation of Article 4, paragraphs 9, 10 and 11[, in accordance with [the relevant provisions] of the Convention,] recognizing the urgent and immediate needs and special circumstances of developing country Parties, especially those that are particularly vulnerable.]\

Y. [Developed country Parties shall communicate on their provision of support to developing country Parties under Article 5 (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 Change Impacts shall serve this Agreement].\

2. Upon the completion of its review at the twenty-second session of the COP, the Warsaw International Mechanism shall be subject to the authority and guidance of the CMA and supported through the Warsaw International Mechanism of the Convention.\

3. A climate change displacement coordination facility shall be established under the Warsaw International Mechanism [CMA] to help coordinate efforts to address climate change induced displacement, including planned relocation.\

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

Article 6 (FINANCE)\

1. Option 1: [Over time, finance flows should be consistent with [the transformation to and climate-resilient [societies and economies][development], in the context of countries' development priorities and efforts to eradicate poverty.]\

Option 2: [Climate finance, as defined in Article 1 of this Agreement, shall be provided by developed country Parties and other Parties included in Annex II of the Convention in the context of development needs, sustainable development priorities, food security and efforts to eradicate poverty.]\

2. Option 1: [[Developed country Parties [and other developed country Parties included in the Convention][and Parties in a position to do so] [should take the lead and]] [All Parties [shall][should][other] provide [support][[new and additional] financial resources] to support developing countries with respect to both mitigation and adaptation [as well as addressing loss and damage] in a position to do so should complement such efforts.]\

Option 2: [Developed country Parties and other developed Parties included in Annex II to the Convention shall provide new and additional, adequate, predictable, accessible, sustained and scaled-up finance to support developing countries to enhance actions with respect to both mitigation and adaptation in order to achieve the achievement of the [objective][purpose] of this Agreement, based on the principles and provisions of the Convention.]\

Option 3: [Parties in a position to do so, including developed country Parties, should provide support to developing country Parties in need of support with respect to both mitigation and adaptation.]\

3. [Parties should integrate climate considerations, including resilience, into internal policies and planning.]\

4. Option 1: [All Parties shall take action to mobilize, and/or facilitate the mobilization of climate finance with their respective and evolving responsibilities and capabilities. Some Parties may take action.]\

[The actions taken by Parties in the mobilization of climate finance shall reflect and respond to current and future changes in needs, developments and environmental and economic realities, reflecting equity and responsibilities.]\

Option 2: [Developed country Parties and other Parties included in Annex II to the Convention shall provide financial resources beyond their previous efforts, supporting country-driven strategies and policies that address the needs and priorities of developing country Parties.]\

Option 3: [As part of a shared effort, Parties should cooperate to promote the mobilization of climate finance from a wide variety of sources, instruments and channels, including public, private, bilateral and multilateral, domestic, and international.]\

5. [Parties should strive to improve enabling environments and policy frameworks to attract and mobilize climate finance.]\

6. [Parties should mobilize enhanced results-based payments for verifiable achieved emission reductions, building on existing approaches under the Convention.]\

7. [Parties should reduce international support for high-emission [and maladaptive] investments and increase international support for low-emission and climate-resilient investments.]\

8. [Parties recognise that the appropriate pricing of greenhouse gas emissions in its market-based instrument for the reorientation of investment and finance flows consistent with a pathway to sustainable and climate resilient economies and societies.] {Placement proposal: to be moved to section 9.}\

9. Option 1: [Parties recognize the role of a wide variety of sources, public and private, in mobilizing climate finance, including alternative sources.]\

Option 2: [Public funds from developed country Parties, distinct from Official Development Assistance, shall be the main source of finance [indemnization mechanism based on historical responsibilities and capabilities]. [Parties shall include a wide variety of sources, public and private, bilateral and multilateral, including innovative ones, in the mobilization of finance from various sources, Parties shall abide by the principles and avoid incidence on developing country Parties[, particularly disguised distortions to trade and investment].]\

10. Option 1: [The mobilization of climate finance [shall][should][other] be scaled up to meet the needs of developing countries.]\

transparent manner] [beyond previous efforts] [from USD 100 billion per year] from 2020 to 2025, recognizing the important role of the Green Climate Fund in the scaling up of financial resources for the post-2020 period, as well as other multilateral mechanisms and other efforts].)\

Option 2: [The provision and mobilization of financial resources by developed country Parties and other developed Parties included in Annex II shall represent a progression beyond their previous efforts, while achieving short-term collective quantified goals for the post 2020 period to be periodically reviewed. Financial resources shall be scaled up from a floor of US\$100 billion per year, based on a burden-sharing formula, and in line with needs and priorities identified by developing countries, in the context of contributing to the achievement of the [objective][purpose] (Article 2/XX) and taking into account an equitable regional distribution of financial resources and a gender-responsive approach, include the implementation of Articles 5 and 6 of the Convention.]\

Option 3: [As part of a shared mobilization effort Parties should, in accordance with paragraph 11, enhance the scale and effectiveness of climate finance by: mobilizing climate finance from a wide range of sources and channels; provide, when in a position to do so, support to developing countries in order to ensure they appropriately prioritize support; improve enabling environments; integrate climate considerations into international development assistance; and reduce international support for high-emission activities].)\

11. The provision of financial resources [should][shall] aim to achieve a balance between short-term and long-term needs, taking into account country-driven strategies, and the priorities and needs of developing countries, especially those that are particularly vulnerable to the adverse effects of climate change, including in Africa, considering the need for public and grant-based resources for adaptation.]\

12. [[Developed country Parties][Parties included in Annex II to the Convention] shall provide support, with long-term, scaled-up, predictable, new and additional finance, technology and capacity-building, for the implementation of Article 4, paragraphs 810[, in accordance with [the relevant provisions of the Convention,] recognizing the urgent and immediate needs and special circumstances of developing countries, especially those that are particularly vulnerable.]\

13. [The CMA shall ensure that adequate support is available to the International Mechanism for Loss and Damage as defined in Article (XX), as well as to promote and support the development and implementation of approaches to address irreversible and permanent damage resulting from human-induced climate change].)\

14. [The provision of financial resources shall ensure facilitated and enhanced direct access to climate finance, through simplified procedures, and readiness support to developing countries, especially those that are particularly vulnerable to the adverse effects of climate change], and in particular to developing countries, LDCs, SIDS and Africa. It shall likewise ensure adequacy and predictability of financial resources, and avoid double counting.]\

15. [[Parties and the institutions serving this Agreement should simplify procedures for the provision of support to and improving readiness for developing country Parties, [including][in particular] for LDCs, SIDS and Africa, provision of support, and in order to enhance the impact and country-driven approach of climate finance, and country programme measures [shall][should] be prioritized. The institutions serving this Agreement [shall][should] enhance the delivery of resources for readiness and simplify approval procedures for climate finance [by developing countries], in particular for LDCs, SIDS, and African States [and other developing countries], in a coordinated manner].] {Placement proposal: to be moved to decision section 16.}\

16. Option 1: [[Developed country] Parties [and other developed Parties included in Annex II] shall [periodically][biennially] communicate [relevant, indicative] information on [the [provision and implementation] of [financial resources][support to developing countries], including quantitative and qualitative information on the] projected [efforts to mobilize [and attract] climate finance][climate finance][financial resources to be provided to developing country Parties]].]\

Option 2: [Developed country Parties and other developed Parties included in Annex II shall communicate on the provision and mobilization of financial resources, including quantitative information on the projected levels of public financial resources to be provided to developing countries, especially those that are particularly vulnerable to the adverse effects of climate change, including in Africa, and in a coordinated manner].)\

Option 3: [Parties should periodically communicate relevant, indicative information about paragraphs X-Y, as appropriate.]\

17. [The [stocktake shall take into account available information by [developed country bodies on efforts related to climate finance][CMA shall facilitate the communication of stocktake referred to in Article 10, taking into account the [annual reports][biennial Committee on Finance].] {Pending outcome of discussions on Article 10}\

18. [Developed country Parties and other developed Parties included in Annex II to the Convention shall biennially provide transparent, complete, consistent, comparable and accurate information on climate finance provided and mobilized through public interventions to developing country Parties, in accordance with the guidelines to be adopted by the CMA at its first session, including through a clear description of the mechanisms as stipulated in Article 1 of this agreement.] {Note: some of the issues pertaining to climate finance as identified in this paragraph may be moved to Article 9}\

19. The Financial Mechanism established by Article 11 of the Convention, including [the entities of the Global Environment Facility as] its operating entities [and related funds], shall serve as the financial mechanism of this Agreement.\

[Option 1 (Paragraph 20):\

20. [The CMA shall provide guidance, for consideration by the COP, on the policies, procedures and eligibility criteria of the operating entities of the Financial Mechanism, acknowledging that the decisions of the COP agreed before adoption of this Agreement shall apply mutatis mutandis to the Financial Mechanism of this Agreement.\

20. [The guidance to the entity or entities entrusted with the operation of the financial mechanism shall be included in relevant decisions of the COP, including those agreed before the adoption of the agreement, and shall apply mutatis mutandis to the Financial Mechanism of this Agreement.\

21. The existing operating entities of the Financial Mechanism (the Green Climate Fund, the Least Developed Countries Environment Facility, including the Special Climate Change Fund and the Least-Developed Countries Environment Facility) shall serve this Agreement. Other funds may be established under this agreement.\

22. The Adaptation Fund Board, established by decision 1/CMP.3 shall be designated as the entity entrusted with the operation of the financial mechanism, referred to in Article xx, of this Agreement.]]\

Article 7 (TECHNOLOGY DEVELOPMENT AND TRANSFER)\

1. All Parties[, in accordance with the principles and provisions of the Convention, in accordance with Article 11]], noting the importance of technology for the implementation of mitigation and adaptation under this Agreement and recognizing existing deployment and dissemination efforts, [shall promote cooperative action [to accelerate and upscale] [on] [technology development and transfer]]\

(a) [Improving endogenous capacities and enabling environments according to nationally determined priorities, in accordance with Article 4, paragraph 5, of the Convention];\

(b) [Addressing barriers [in accessing to][for] the transfer of safe, appropriate and environmentally 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 development and transfer in order to improve resilience to climate change and to reduce GHG emissions.\

3. A technology framework is hereby established to provide overarching guidance to the Financial Mechanism in promoting and facilitating enhanced action on technology development and transfer to support the implementation of this Agreement, in pursuit of the long-term vision referred to above.\

4. [In accordance with Article 4, paragraph 5, of the Convention, developed country Parties shall provide financial resources to address barriers created by policies and intellectual property rights (IPR) to the deployment of technology, including, inter alia, by utilizing the Financial Mechanism to create a funding window under the GCF to meet the full costs of IPRs of environmentally sound technologies].\

and such technologies will be provided to developing country Parties free of cost in order to take actions to address the adverse effects of climate change.]\

5. The Technology Mechanism shall serve this Agreement [and shall be strengthened in line with this purpose].\

6. Option 1: Developing country Parties are eligible for support in the implementation of the Technology Mechanism.
Option 2: [In accordance with Article 4, paragraphs 3[and 5][, 5 and 9], of the Convention, developed country Parties and other Parties included in Annex II to the Convention shall [continue to provide support to] [regularly prepare, communicate and implement their commitments on the support of technology development and transfer to] [developing country] Parties] [provide enhanced support], including financial support for technology development, cooperative action and the implementation of the technology framework through the Technology Mechanism and the Financial Mechanism. [The financial support shall be made available through the Technology Mechanism.] [The overall implementation of the commitments will be assessed periodically through a global stocktake in accordance with Article 10 of this Agreement.]\

Option 3: [Developed country] [All] Parties shall regularly communicate the progress [made in implementing the provisions] [pertaining to the financial provisions] and support for technology development and transfer in accordance with Articles 6 and 9 of this Agreement [, taking into account the provisions of the Convention] [in a measurable, reportable and verifiable manner]. [The overall implementation of the commitments will be periodically assessed through a global stocktake in accordance with Article 10 of this Agreement.]\

7. [Developed country Parties and other Parties included in Annex II to the Convention shall support the research, development and application of environmentally sound technologies and facilitate access to such technologies for developing country Parties, including by, inter alia, providing financial resources to address barriers caused by the absence of technology, and development capability and innovations, and enhancing access to environmentally sound technologies and know-how.]\

Article 8 (CAPACITY-BUILDING)\

1. Capacity-building under this Agreement should enhance the capacity and ability of:]\

Option 1: [countries];\

Option 2: [developing country Parties, in particular countries with the least capacity and African countries];\

Option 3: [developing country Parties, in particular countries with the least capacity and African countries, in accordance with the principles and provisions of the Convention, to take effective climate change action, including, inter alia, to implement adaptation measures, facilitate technology development, dissemination and deployment, access to climate finance, education, training and public awareness, and the transparent, timely and accurate communication of information.]\

2. Capacity-building should be country-driven, based on and responsive to national needs, ownership of Parties, [in particular, for developing country Parties,] including at the local levels. Capacity-building should be guided by lessons learned, including those from activities under the Convention, and should be an effective, iterative process that is inclusive and gender-responsive.\

3. [All Parties should cooperate to enhance the capacity of developing country Parties under this Agreement. Developed country Parties should enhance support for actions for capacity-building in developing countries].\

4. [All Parties enhancing the capacity of developing country Parties to implement this Agreement through regional, bilateral and multilateral approaches, shall regularly communicate on capacity-building. Developing country Parties shall regularly communicate progress on capacity-building plans, policies, actions or measures to implement this Agreement].\

5. [Institutional arrangements under the Convention shall be enhanced, as appropriate, for the implementation of this Agreement]. [In order to further enhance capacity-building with this Agreement, an international capacity-building mechanism is hereby established under this Agreement.]\

Article 8 bis\

Parties shall cooperate in taking measures, as appropriate, to enhance climate change education, awareness, public participation and public access to information, recognizing the importance of these measures with respect to enhancing actions under this Agreement.\

Article 9 (TRANSPARENCY)\

1. Option 1: A robust transparency framework covering both action and support, differentiated by developed and developing countries, building on the arrangements under the Convention, related decisions and mechanisms established by the Cancun Agreements (decision 1/CP.16), applicable to all Parties, with flexibility to developing countries is hereby established.\

Option 2: A unified and robust transparency framework, covering both action and support, differentiated by flexibility to take into account Parties differing capacities, and applicable to all Parties.\

Option 3: A robust, tiered transparency framework covering both action and support, differentiated by capacity, based on self-differentiation with no backsliding and on national capabilities and international contributions, and that builds on and enhances existing arrangements under the Convention, is hereby established.\

Option 4: Building on existing arrangements under the Convention, a transparency framework covering both action and support that takes into account Parties different capacities and is applicable to all Parties.\

2. The transparency framework shall provide flexibility in the implementation of the provisions of this Article for developing country Parties in the light of their capabilities. The modalities, procedures and mechanisms in paragraph 6 of this Article shall reflect such flexibility.\

3. The transparency framework shall be guided by the principles of the Convention and the modalities, procedures and arrangements under the Convention, recognizing the special circumstances of the least developed countries and small island developing States, and be implemented in a facilitative, non-intrusive manner, and be respectful of national sovereignty, and avoid placing undue burden on Parties and the secretariat.\

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 objectives of the Convention;\

(b) Provide a clear understanding of the anthropogenic emissions by sources and removals estimated at the national level by individual Parties;\

(c) Facilitate understanding of global aggregate emissions and removals to inform the global stocktake under Article 10;\

(d) Ensure clarity and tracking of progress made towards {insert the relevant phrase from paragraph 3.2} and achieving individual Parties respective mitigation {insert the relevant phrase from paragraph 3.2} under Article 3;\

(e) Provide clarity on Parties adaptation actions under Article 4, including good practices and 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 individual Parties in the context of climate change actions under Articles 3 and 4;\

(b) Achieve, to the extent possible, a full overview of aggregate financial support provided to the global stocktake under Article 10;\

(c) Ensure clarity and tracking of progress made by developed country Parties in providing financial support in accordance with Articles 6, 7 and 8;\

(d) Ensure clarity and tracking of support needed and received by developing country Parties.\

with Articles 6, 7 and 8;\

(e) Ensure the avoidance of double counting of financial resources provided.\

6. Option 1: Each Party, taking into account their common but differentiated responsibilities, national and regional development priorities, objectives, and circumstances, shall provide complete, consistent, and comparable information in accordance with guidelines referred to in this Article on:\

Option 2: Each Party shall regularly provide the following information in accordance with the guidelines in paragraph 6 of this Article:\

(a) Its national inventory of anthropogenic emissions by sources and removals by sinks of greenhouse gases;\

(b) Projections of anthropogenic emissions by sources and removals by sinks of greenhouse gases;\

(c) Progress made towards and achieving individual Parties respective mitigation {insert the relevant outcome of Article 3.2} under Article 3;\

(d) Climate change impacts and actions taken to build resilience and reduce vulnerability, including adaptation actions under Article 4;\

(e) Support provided and received, as relevant, including specific information required under Articles 6.14, 7 and 8.\

7. Option 1: The information provided by each Party as required under this Article shall be subject to expert review, with additional flexibility to be given to LDCs and SIDS as requested by them, in accordance with [common] guidelines and procedures adopted by the CMA.\

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

[The report shall identify any issues related to compliance.] {review following outcome of the multilateral and facilitative examination shall consider the information above.\

Option 2: All information provided by developed country Parties, and shall be reviewed through a technical review process followed by a multilateral assessment process, and result in a determination of consequences for compliance;\

All the information provided by developing country Parties should be analyzed through a technical review process followed by a multilateral facilitative sharing of views, result in a summary report that is nonintrusive, non-punitive and respectful of national sovereignty, according to the level of ambition of developed country Parties.\

8. The CMA shall, at its first session, building on experience from the arrangements under the Convention, and elaborating on the provisions in this Article, adopt [common] modalities and guidelines, as appropriate, for the transparency of action and support. {Placeholder to be filled with outcomes of discussion on accounting}\

9. The transparency arrangements under the Convention, including national communications, biennial update reports, international assessment and review (IAR) and international cooperation (ICA), shall form part of the experience drawn upon for the development of modalities, modalities and guidelines under paragraph 8 of this Article.\

10. Support shall be provided to developing countries for the implementation of paragraph 8.\

11. [Developed country Parties shall provide support to developing country Parties in the implementation of this Article.] {to be revised pending global solution in Article 6}\

12. Support shall also be provided for the building of transparency-related capacity on a continuous basis.\

Article 10 (GLOBAL STOCKTAKE)\

14,15\

1. The CMA shall periodically assess the [overall][collective] progress towards achieving the Agreement and its long-term goals. It shall do so in a comprehensive and facilitative manner on mitigation, adaptation and the means of implementation and support17\

.\

2. The CMA shall undertake its first global stocktake in 2024 and every five years thereafter, as decided by the CMA.\

3. The outcome of the global stocktake shall inform Parties in [undertaking their efforts and taking successive actions and support, as appropriate, [and in [preparing][and][finalizing] and implementing] accordance with relevant provisions of this Agreement, with a view to achieving the purpose and goals [and increasing the ambition] of this Agreement in light of [the best available science and in accordance with the principle of common but differentiated responsibilities and respect for equity and of different national circumstances].\

Article 11 \

1. A [mechanism][committee] [with differentiation between developed country Parties and developing country Parties][applicable to all Parties] to promote [[and address] compliance with] and facilitate the provisions of this Agreement], which shall be expert-based [and facilitative] in nature and operate in a manner that is transparent, non-punitive and non-adversarial [for developing country Parties] hereby established. [It shall pay particular attention to the respective national capabilities of developed country Parties.]\

2. The objective of the [mechanism][committee] referred to in paragraph 1 of this Article shall be to: Option (a): To promote [and][,] facilitate [and incentivize] effective implementation of the provisions of [Articles [3] [, 4, 6, 7, 8] and [9] of] this Agreement.\

Option (b): [To promote compliance][To address cases of non-compliance] by developed country Parties, including through the development of an indicative list of consequences], taking into account the degree and frequency of non-compliance, and to facilitate implementation by developing country Parties through the provision of adequate financial resources and transfer of technology.\

3. The [mechanism][committee] shall report annually to the CMA and shall operate under the procedures adopted by the CMA at its first session. The [mechanism][committee] shall establish a reporting procedure, which shall be subject to approval by the CMA at its second session.\

4. [Placeholder for text by Parties on composition]\

Option 2:\

An International Tribunal of Climate Justice is hereby established to address cases of non-compliance with the commitments of developed country Parties on mitigation, adaptation, provision of financial resources, development and transfer, capacity-building, and transparency of action and support, including through the development of an indicative list of consequences, taking into account the cause, type and frequency of non-compliance.]\

Article 12 (CMA)\

1. The Conference of the Parties, the supreme body of the Convention, shall serve as the meeting of the Parties to this Agreement.\

2. Parties to the Convention that are not Parties to this Agreement may participate as observers in any session of the Conference of the Parties serving as the meeting of the Parties to this Agreement. The Conference of the Parties serves as the meeting of the Parties to this Agreement, decisions shall 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, a Bureau of the Conference of the Parties representing a Party to the Convention but, at the time of the meeting of the Parties to this Agreement, shall be replaced by an additional member to be elected by and from among the Parties to this Agreement.\

Agreement.\

4. The CMA shall keep under regular review the implementation of this Agreement and shall, in accordance with its mandate, the decisions necessary to promote its effective implementation. It shall perform such other functions as may be required by it by this Agreement and shall:\

(a) Establish such subsidiary bodies as deemed necessary for the implementation of this Agreement;\

(b) Exercise such other functions as may be required for the implementation of this Agreement.\

5. The rules of procedure of the Conference of the Parties and the financial procedures of the Convention shall be applied mutatis mutandis under this Agreement, except as may be otherwise decided by consensus by the CMA.\

6. The first session of the CMA shall be convened by the secretariat in conjunction with the first session of the Conference of the Parties that is scheduled after the date of entry into force of this Agreement. Subsequent ordinary sessions of the CMA shall be held in conjunction with ordinary sessions of the Conference of the Parties decided by the CMA.\

7. Extraordinary sessions of the CMA shall be held at such other times as may be deemed necessary by the CMA at the written request of any Party, provided that, within six months of the request being received, a majority of 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 Agency and its member thereof or observers thereto not party to the Convention, may be represented at sessions of the CMA by observers. Any body or agency, whether national or international, governmental or non-governmental, qualified in matters covered by this Agreement and which has informed the secretariat of its interest in being represented at a session of the CMA as an observer, may be so admitted unless at least one Party objects on the present object. The admission and participation of observers shall be subject to the rules of procedure in paragraph 4(b) of this Article.\

Article 13 (SECRETARIAT)\

1. The secretariat established by Article 8 of the Convention shall serve as the secretariat of this Agreement.\

2. Article 8, paragraph 2, of the Convention on the functions of the secretariat, and Article 10, paragraph 2, of the Convention on arrangements made for the functioning of the secretariat shall apply mutatis mutandis to the secretariat of this Agreement. The secretariat shall, in addition, exercise the functions assigned to it under Article 4 of this Agreement. \

Article 14 (SBSTA AND SBI)\

1. The Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation (SBI) established by Articles 9 and 10 of the Convention shall serve, respectively, as the Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation of this Agreement. Sessions of the meetings of the Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation of this Agreement shall be held in conjunction with sessions of the Conference of the Parties, respectively, the Subsidiary Body for Scientific and Technological Advice and the Subsidiary Body for Implementation of the Convention.\

2. Parties to the Convention that are not Parties to this Agreement may participate as observers in the work of any session of the subsidiary bodies. When the subsidiary bodies serve as the subsidiary bodies of this Agreement, decisions under this Agreement shall be taken only by those that are Parties to this Agreement.\

3. When the subsidiary bodies established by Articles 9 and 10 of the Convention exercise functions assigned to them by the Convention regard to matters concerning this Agreement, any member of the bureaux of those subsidiary bodies may be elected to a Party to the Convention but, at that time, not a Party to this Agreement, shall be eligible for election as a member 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 [and mechanisms] established by Parties to the Convention in addition to those subsidiary bodies and institutional arrangements explicitly referred to in Article 4 of this Agreement shall be subject to the rules of procedure in paragraph 4(b) of this Article.\

[shall] [may] serve this Agreement [unless otherwise decided by the CMA] [[upon a decision of the CMA] [Such decision shall specify the functions to be exercised by such bodies or arrangements] [Such decision shall specify the functions to be exercised by such bodies and institutional arrangements] [including for the purposes of the Agreement] [including for the purposes of the Agreement] and institutional arrangements nominated by Parties to the Convention that are not Parties to the Agreement] to the extent that these bodies and institutional arrangements serve this Agreement).\

Article 16 (SIGNATURE AND INSTRUMENTS OF RATIFICATION, ACCEPTANCE, APPROVAL OR ACCESSION)

1. This Agreement shall be open for signature and subject to ratification, acceptance or approval by regional economic integration organizations that are Parties to the Convention. It shall remain open for signature at the United Nations Headquarters in New York from 22 April 2016 to 21 April 2017. Thereafter, it shall be open for accession from the day following the date on which it is closed for signature. Ratification, acceptance, approval or accession shall be deposited with the Depositary.

2. Any regional economic integration organization that becomes a Party to this Agreement shall have member States being a Party shall be bound by all the obligations under this Agreement. Regional economic integration organizations with one or more member States that are Parties to the Agreement shall decide on their respective responsibilities for the implementation of the obligations under this Agreement. In such cases, the organization and the member States shall exercise rights under this Agreement concurrently.\

3. In their instruments of ratification, acceptance, approval or accession, regional economic integration organizations shall declare the extent of their competence with respect to the matters covered by the Agreement. These organizations shall also inform the Depositary, who shall in turn inform the Parties, of any substantial modification in the extent of their competence.\

Article 17 (FURTHER REQUIREMENTS AND DECISION-MAKING RIGHTS)

[A Party to the Convention shall [submit] [communicate] to the secretariat when it deposits its instrument of ratification, acceptance, approval or accession a nationally determined [mitigation] [contribution] [commitment] [in accordance with Article 2bis] in order to become Party to the Agreement. [The nationally determined [mitigation] [contribution] [commitment] shall be legally binding on that Party upon entry into force of the Agreement for that Party.]]\

Article 18 (ENTRY INTO FORCE)

1. This Agreement shall enter into force on the thirtieth day after the date on which at least 55 Parties to the Convention [including all Annex I Parties] [and] [or] [on which Parties accounting for 55 per cent of total [net] global greenhouse gas emissions] [on which Parties accounting for 55 per cent of total [net] global greenhouse gas emissions] have deposited their instruments of ratification, acceptance or accession [whichever occurs first, coming into effect not earlier than 1 January 2020]. If the Convention accounting for X per cent of total [net] global greenhouse gas emissions [on which Parties accounting for X per cent of total [net] global greenhouse gas emissions] [but not earlier than 1 January 2020].]\

2. [For the purposes of paragraph 1 of this Article, "total global [net] greenhouse gas emissions" means the [total global [net anthropogenic] greenhouse gas emissions [and removals] as estimated and used by the Intergovernmental Panel on Climate Change in its Fifth Assessment Report for the base period [1990] [2000] [2010] [2012]] trends] [most up-to-date amount communicated on or before the date of adoption of this Agreement] to the Convention either in their national communications submitted in accordance with the Convention or in their biennial reports or biennial update reports submitted in accordance with the Convention of the Parties].\

3. For each State or regional economic integration organization that ratifies, accepts or accedes thereto after the condition[s] set out in paragraph 1 of this Article for entry into force of the Agreement is fulfilled, this Agreement shall enter into force on the thirtieth day after the date of deposit of its instrument of ratification, acceptance or accession by the regional economic integration organization of its instrument of ratification, acceptance or accession.\

4. For the purposes of paragraph 1 of this Article, any instrument deposited by a regional economic integration organization on behalf of one or more of its member States shall be treated as if it had been deposited by such member States.

organization shall not be counted as additional to those deposited by its member States.
Article 19 (AMENDMENTS)\

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

2. [Notwithstanding paragraph 1 of this Article, a Party may propose an adjustment [to enhance] expressed by its [mitigation commitment] inscribed in] Annex [A or B] [or] [X] to this Agreement for such an adjustment shall be communicated to the Parties by the secretariat at least six months before the session of the CMA at which it is proposed for adoption.]\

3. [An adjustment proposed by a Party [to enhance] the efforts expressed by its [mitigation commitment] in Annex [A or B] [or] [X] to this Agreement shall be considered adopted by the CMA unless a majority of four-fifths of the Parties present and voting object to its adoption. The adopted adjustment shall be communicated by the secretariat to the Depositary, who shall circulate it to all Parties, and it shall enter into force on the first of the year following the communication by the Depositary. Such adjustments shall be binding on the Parties that have accepted them.]
Article 20 (ANNEXES)\

1. Annexes to this Agreement shall form an integral part thereof and, unless otherwise provided, any reference to this Agreement constitutes at the same time a reference to any annexes thereto. Annexes shall be restricted to lists, forms and any other material of a descriptive nature that is of a technical, scientific, procedural or administrative character.\

2. The provisions of Article 16 of the Convention on the adoption and amendment of annexes shall apply mutatis mutandis to this Agreement[, except in respect of the annex containing commitments to specific mitigation commitments].\

Article 21 (SETTLEMENT OF DISPUTES)\

The provisions of Article 14 of the Convention on settlement of disputes shall apply mutatis mutandis to this Agreement.\

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, shall exercise their right to vote with a number of votes equal to the number of their member States that are Parties to this Agreement. An organization shall not exercise its right to vote if any of its member States exercises its right.
3. [Without prejudice to the provisions of Article 15, paragraph 3, of the Convention, the Parties shall make every effort to reach agreement on all matters by consensus. If such efforts to reach consensus fail, a decision shall, as a last resort, be adopted by a majority of three-fourths of the Parties present and voting.]\

Article 23 (DEPOSITARY)\

The Secretary-General of the United Nations shall be the Depositary of this Agreement.\

Article 24 (RESERVATIONS)\

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 into force, any Party 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 receipt of the notification of withdrawal, or on such later date as may be specified in the notification.
3. Any Party that withdraws from the Convention shall be considered as also having withdrawn from this Agreement.\

Article 26 (LANGUAGES)\

The original of this Agreement, of which the Arabic, Chinese, English, French, Russian and Spanish texts are equally authentic, shall be deposited with the Secretary-General of the United Nations.

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In [6]: from nltk.tokenize import sent_tokenize
```

```
In [7]: def fast_tokenize(text):
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```
    # Iterate through text removing punctuation characters
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    no_punct = "".join([char for char in text if char not in punctuation])
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    # Split text over whitespace into list of words
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    tokens = no_punct.split()
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    return tokens
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In [8]: words_UN_draft3 = UN_draft3.split()
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lost_damage_UN_draft3=Table().with_columns('United Nations Draft 3',words_UN_draft3)
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lost_damage_UN_draft3
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Out[8]: United Nations Draft 3
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In [11]: new_UN_draft2_=fast_tokenize(UN_draft3)
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```

```
In [12]: new_UN_draft2=[new_UN_draft2_]
```

```
In [13]: model = gensim.models.Word2Vec(new_UN_draft2, size=100, window=5, min_count=1, sg=0, a
```

```
In [14]: model.most_similar(positive=['Parties'], negative=['shall'])
```

```
Out[14]: [('changePp11', 0.2224508821964264),
('andquality', 0.22055570781230927),
('1CP21d', 0.2156665027141571),
('fulfil', 0.20518021285533905),
('eradicationand', 0.20107661187648773),
('occupationArticle', 0.1882576197385788),
('theempowerment', 0.18390187621116638),
('grounds', 0.18125924468040466),
('placeidentify', 0.17994335293769836),
('asset', 0.17816194891929626)]
```

```
In [15]: model.most_similar(positive=['Parties'], negative=['should'])
```

```
Out[15]: [('implementachievecarry', 0.25351682305336),
('promotion', 0.23352929949760437),
('GENERAL1', 0.22734522819519043),
('ofgreenhouse', 0.2238779366016388),
('longer', 0.21168112754821777),
```

```

        ('CBDRRC', 0.20236217975616455),
        ('placeidentify', 0.20138804614543915),
        ('anddistribution2', 0.20076481997966766),
        ('marine', 0.19758453965187073),
        ('beconducted', 0.19106000661849976)]

In [16]: model.most_similar(positive=['Parties'], negative=['financial'])

Out[16]: [('theprovisions', 0.2566097378730774),
          ('give', 0.22616919875144958),
          ('internationallyagreed', 0.21318812668323517),
          ('just', 0.21014060080051422),
          ('goods', 0.20843130350112915),
          ('independently', 0.20699620246887207),
          ('originated', 0.20478549599647522),
          ('transition', 0.2047790288925171),
          ('definitions', 0.19685381650924683),
          ('IPCCOption', 0.19353331625461578)]

In [20]: UN_draft3_tokens = [token for token, weight in model.most_similar(positive=['Parties'])

In [21]: vectors = [model[word] for word in UN_draft3_tokens]

In [22]: from sklearn.metrics import pairwise
         dist_matrix = pairwise.pairwise_distances(vectors, metric='cosine')

In [23]: from sklearn.manifold import MDS
         mds = MDS(n_components = 2, dissimilarity='precomputed')
         embeddings = mds.fit_transform(dist_matrix)

In [24]: _, ax = plt.subplots(figsize=(10,10))
         ax.scatter(embeddings[:,0], embeddings[:,1], alpha=0)
         for i in range(len(vectors)):
             ax.annotate(UN_draft2_tokens[i], ((embeddings[i,0], embeddings[i,1])))

```

