

TOWN AND COUNTRY PLANNING ACT 1990

**Appeal by Bristol Airport Limited concerning land at North Side Road, Felton,
Bristol, BS48 3DY**

**DEVELOPMENT OF BRISTOL AIRPORT TO ACCOMMODATE 12 MILLION
PASSENGERS PER ANNUM**

Appeal Reference APP/D0121/W/20/3259234

SUPPLEMENTARY PROOF OF EVIDENCE

of

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1. Introduction

- 1.1 This document supplements my proof of evidence dated 15 June 2021 **[BAAN/W3/1]**, in accordance with the agreed timetable for updated evidence following the publication of the government's Transport Decarbonisation Plan and Jet Zero Consultation, as anticipated at paragraph 4.18 of my proof of evidence. This evidence therefore primarily serves to update the discussion in Section 4 of my proof of evidence regarding UK climate and aviation policy and any related conclusions as necessary.
- 1.2 In addition, I have addressed other relevant developments since my proof of evidence, specifically in respect of the CCC's progress report to Parliament, the passing of the sixth carbon budget into law, the publication of a new NPPF and the publication by the Intergovernmental Panel on Climate Change (IPCC) of its latest report on the physical science of climate change (as part of its Sixth Assessment Report or 'AR6') **[INQ/032]**.
- 1.3 Except where I indicate to the contrary, the facts and matters contained in this proof of evidence are within my own knowledge. Where facts and matters are not within my own knowledge, I have identified my sources of information or belief.
- 1.4 Unless otherwise indicated, defined terms are the same as those used in my proof of evidence.

2. Transport Decarbonisation Plan

- 2.1 The Transport Decarbonisation Plan confirms the government's intention to include international aviation in the sixth carbon budget and explains that the government's detailed aviation decarbonisation proposals are included in the accompanying Jet Zero Consultation (discussed below):

*"But as the aviation sector recovers, a process likely to take several years, it must do so in a lower-carbon way. We have committed to including international aviation, and shipping, in our Sixth Carbon Budget, and propose to set a high-ambition CO2 emissions reduction trajectory for it from 2025 to 2050 against which we will measure progress. Our Jet Zero consultation, published alongside this plan, sets out how in more detail."*¹

- 2.2 In terms of aviation decarbonisation, the Plan focuses on the commercial and Research and Development (R&D) priorities for supporting the development of technological innovation. For example, under a section titled "Strategic Priorities", it is stated that:

*"The UK will significantly reduce the impact of aviation on the environment through a combination of new aerospace technology such as electric and hydrogen aircraft, development and commercialisation of sustainable aviation fuels, operational efficiencies, and market-based measures. By continuing to build our capability and investing in R&D in the early 2020s, the UK will empower innovation in the sector."*²

*"... our Jet Zero Consultation, published alongside this plan, will seek views on the potential developments that could bring down the international aviation sector's share of transport's overall GHG emissions, and how the government can most effectively support the realisation of these opportunities."*³

- 2.3 In this context, the Plan consistently emphasises the current uncertainty of achieving the required emissions reduction through technological innovation in the aviation

¹ Department for Transport (DfT), 'Decarbonising transport: a better, greener Britain', 14 July 2021 [CD 9.134], p. 8.

² DfT, 'Decarbonising transport: a better, greener Britain', 14 July 2021 [CD 9.134], p. 41.

³ DfT, 'Decarbonising transport: a better, greener Britain', 14 July 2021 [CD 9.134], p. 46.

sector.⁴ Referring to supporting analysis from Mott MacDonald, the current “*state of technology readiness and deployment*” for decarbonising aviation is summarised.⁵ For both domestic and international aviation, “*extensive R&D*” is required to achieve the necessary technological developments, with “*solutions certainty*” for international aviation categorised as “*very low*” and as “*medium*” for domestic aviation. For both classes of aviation, “*infrastructure maturity*” and “*fleet penetration*” are categorised as “*very low*”.

- 2.4 The scale and speed of innovation required to stay on a “*credible and sustainable pathway to net zero*” is also emphasised:

“Alongside this publication, we are publishing a consultation on Jet Zero – a draft strategy to reach net zero aviation by 2050. Delivering this will require ambitious action across a number of key areas: the development of new zero emission aircraft, accelerating the supply and uptake of SAF, modernisation of our airspace and airports, and the development of trusted and verifiable markets to offset residual emissions. Information also needs to be made available to consumers which allows them to choose the most sustainable routes and travel providers when planning and undertaking their journeys. We need rapid progress in each of these areas to put aviation onto a credible and sustainable pathway to achieving net zero.”⁶ (emphasis added)

- 2.5 In light of the uncertainty and scale and rate of innovation required, it is noted in the context of domestic aviation that “*additional measures beyond those identified in this plan may also be required*” and that as a result a new transport decarbonisation plan will be published “*within five years*”.⁷ Similarly, in the context of international aviation, it is stated that the government “*will continue to develop and refine the range of policies and proposals set out in this plan to ensure that the transport sector fulfils its contribution to our legally binding climate targets*”, depending on “*the right investment and the emergence of new zero emission technologies*”.⁸

⁴ See, e.g., DfT, ‘Decarbonising transport: a better, greener Britain’, 14 July 2021 [CD 9.134], p. 30 (“... *those areas of transport where the technology pathway to zero emissions is not yet certain, such as aviation and maritime...*”).

⁵ DfT, ‘Decarbonising transport: a better, greener Britain’, 14 July 2021 [CD 9.134], p. 204.

⁶ DfT, ‘Decarbonising transport: a better, greener Britain’, 14 July 2021 [CD 9.134], p. 119.

⁷ DfT, ‘Decarbonising transport: a better, greener Britain’, 14 July 2021 [CD 9.134], p. 44.

⁸ DfT, ‘Decarbonising transport: a better, greener Britain’, 14 July 2021 [CD 9.134], p. 46.

- 2.6 As is also made explicit in the accompanying Jet Zero Consultation (discussed below), the Plan's focus is therefore on supporting technological innovation that is currently of "*very low*" certainty and maturity. Accordingly, it expressly recognises the potential need for additional policy measures in light of the uncertainty of this approach to achieving the required emissions reductions.
- 2.7 Finally, the Transport Decarbonisation Plan does not alter the planning framework for the assessment of airport expansion proposals, as is confirmed expressly in the Jet Zero Consultation, discussed below.

3. Jet Zero Consultation

- 3.1 At the outset, it is worth emphasising the obvious point that the proposed strategy set out in the Jet Zero Consultation is not settled and is subject to change following stakeholder engagement, with the final Strategy being informed by consultation responses.⁹ The outcome of the consultation is expected to be issued within three months of the consultation closing on 8 September 2021.¹⁰
- 3.2 As already indicated, the consultation document confirms that ‘making best use’ policy and the Airports National Policy Statement (ANPS) remain “*the most up-to-date policy on planning for airport development*” and that they “*continue to have full effect, for example, as a material consideration in decision-taking on applications for planning permission*”.¹¹ None of the consultation proposals therefore intend to alter the planning framework for consideration of airport expansion proposals. Indeed, in the next sentence, the government confirms that the climate change impacts of a proposed airport development will be a key consideration under that framework: “*The government is clear that expansion of any airport must meet its climate change obligations to be able to proceed.*”¹²
- 3.3 In the context of the ANPS, this is consistent with the Supreme Court’s judgment in the Heathrow litigation, which also confirmed that proposals such as the Heathrow North West Runway (NWR) scheme would be assessed against the emissions reduction targets in place at the time that the application in question is determined, irrespective of the emissions targets referred to in setting the policy.¹³

⁹ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], p. 44 (“We welcome views on the questions raised throughout this document, which are repeated below. We will develop a final Jet Zero Strategy later this year. It will be informed by the responses received, and build on previous public engagement around aviation decarbonisation, including the Climate Assembly UK’s report on air travel and the path to net zero, the Department for Transport’s National Travel Attitudes Study and the findings of a deliberative research project on decarbonising transport, commissioned by the Department of Transport and carried out by BritainThinks.”).

¹⁰ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], p. 48.

¹¹ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], fn 39.

¹² DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], fn 39.

¹³ [CD 9.106] at [10], [98], [113], [132] and [157]: “98. ... should the NWR Scheme be taken forward to a DCO application, the ANPS would not allow it to be assessed by reference to the carbon reduction targets, including carbon budgets, that were in place when the ANPS was designated in June 2018.

- 3.4 In the evidence and analysis document accompanying the consultation document, the ‘making best use’ policy is also described as setting out the government’s support for airports making best use of their existing runways “*subject to related economic and environmental considerations.*”¹⁴
- 3.5 In the consultation and evidence base, the government states (i) that it “*currently believe[s] the sector can achieve Jet Zero without the Government needing to intervene directly to limit aviation growth*”¹⁵ (although its planned measures could “*impact demand for aviation indirectly*”¹⁶), (ii) that its analysis shows that “*there are scenarios that can achieve similar or greater CO2 reductions to those in the CCC’s Balanced Pathway by focussing on new fuels and technology ... rather than capping demand*”,¹⁷ and (iii) that its analysis “*suggests that capping demand may not be necessary to reduce emissions to levels which can be offset by [Greenhouse Gas Removals] to achieve net zero*”.¹⁸
- 3.6 However, at the same time, the government also recognises “*that net zero 2050 must be achieved and we must ensure that any growth in aviation is compatible with our emissions reduction commitments*”¹⁹ and that “*there is much uncertainty*”²⁰. Moreover, the approach proposed in the consultation “*relies on the rapid scale-up and deployment of technologies that are currently at a relatively early stage of development and requires collaboration and commitment across all parts of the sector if it is to succeed.*”²¹ And while the scenarios used show that “*significant in-sector abatement could be possible if we make substantial progress with new technologies ... making the required technological progress will be very challenging and there are many barriers that will need to be overcome, especially for the final two scenarios*”.²² Indeed, the “*aspirational*” and “*optimistic*” nature of the assumptions

The ANPS requires that the scheme be assessed against the carbon reduction targets in place at the time when a DCO application is determined: para 5.82 of the ANPS There is therefore no question of the NWR Scheme being assessed in future against outdated emissions targets.”

¹⁴ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para A.5.

¹⁵ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], para 3.41.

¹⁶ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], para 3.44.

¹⁷ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], para 3.41.

¹⁸ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para 2.22.

¹⁹ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], para 3.42.

²⁰ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para 2.22.

²¹ DfT, ‘Jet Zero Consultation: a consultation on our strategy for net zero aviation’, 14 July 2021 [CD 9.135], para 3.42.

²² DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para 4.1.

relied on in each of the scenarios used to inform the strategy is also acknowledged in the evidence base.²³

- 3.7 Finally, while the Jet Zero consultation scenarios are said to “*indicate that aviation net zero can be met by 2050 with future capacity assumptions consistent with [‘making best use’] policy and the ANPS*”,²⁴ “*the capacity assumptions that have been made are not intended to pre-judge the outcome of future planning applications*” (emphasis added).²⁵ In this context, it is emphasised that the modelling scenario used in respect of airport capacity “*should **not** therefore be seen as a prediction of what DfT thinks will happen with regard to future capacity expansion, but as a reasonable upper bound of possible future airport capacity levels and therefore associated emissions, in order to better test the potential of measures to meet net zero*” (emphasis in the original).²⁶
- 3.8 In summary, while the focus of the consultation is on supporting “*new fuels and technology*” to maximise the “*potential*” of such measures to meet net zero, it explicitly leaves the consideration of the planning merits of individual airport expansion proposals entirely to the planning decision-maker, in line with the approach under the existing ‘making best use’ policy, as set out in Section 4 of my proof of evidence of 15 June 2021 [BAAN/W3/1].
- 3.9 In this sense, the emerging strategy being consulted on in the Jet Zero Consultation concerns proposed national policy and measures to support R&D, investment, information transparency and the development of carbon markets; as noted above, it explicitly does not purport to assess (or provide a framework for assessing) the adverse climate or other environmental effects of expansion proposals for the purposes of planning decision-making. This is unsurprising given the expressly “*aspirational*” and “*optimistic*” assumptions that the strategy relies on.

²³ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], p. 13, Fig. 4, p. 15, Fig. 7, p. 17, Fig. 10 (“*Assumptions in Scenario 2 [High Ambition] / Scenario 3 / Scenario 4 ... Fuel efficiency improvements ... Based on optimistic scenario from ATA research and in line with ICAO aspirational goal*”).

²⁴ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para 4.1.

²⁵ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para A.6.

²⁶ DfT, ‘Jet Zero Consultation: Evidence and Analysis’, 14 July 2021 [CD 9.136], para A.7.

DfT's response (13 August 2021) to North Somerset Council's letter (23 July 2021)

- 3.10 DfT's response of 13 August 2021 to North Somerset Council's letter dated 23 July 2021 **[INQ/042]** is consistent with the discussion of the Jet Zero Consultation just set out. In particular, DfT confirms in the response that:
- (i) *"the consultation is on a broad strategy for achieving net zero aviation rather than setting out detailed policy proposals"* (response to Query 1.2);
 - (ii) the consultation's *"illustrative scenarios suggest net zero could be achieved (if the challenges we have outlined for each scenario are overcome) with future capacity assumptions consistent with Making Best Use policy and the Airports National Policy Statement"* (emphasis added; response to Query 9); and
 - (iii) *"[t]he Jet Zero Consultation does not seek views on sectoral targets relating to the Sixth Carbon Budget"* (response to Query 24.1).
- 3.11 Under Query 24.3(b), North Somerset Council requested information explaining *"the methodology"* that should be used to *"in considering whether plans for airport capacity expansion comply with the 6th Carbon Budget target..."*. In response, DfT points to 'making best use' policy as *"continu[ing] to have full effect in relation to planning decision-taking"*, and states that the policy:
- "makes clear that there are some important environmental elements, such as carbon emissions, which should be considered at the national level. The potential carbon emissions created by airports making best use of their existing runways are considered in ['making best use']. ..."*
- 3.12 Clearly, DfT does not mean by this answer that the consideration of carbon emissions and targets in 'making best use' is appropriate for considering consistency with the sixth carbon budget and the net zero target, both of which are significantly more stringent than the then-current carbon targets referred to in 'making best use'. As described above, DfT has itself not used the carbon targets and assumptions referred to in 'making best use' as the basis for the Jet Zero Consultation. Instead, DfT would appear to be suggesting that the consideration of carbon emissions and targets under 'making best use' provides a methodological template for an up-to-date assessment in respect of individual planning applications.

- 3.13 DfT's response also confirms the point made above at paragraph 3.9, that the Jet Zero Consultation is not intended to provide an assessment (or a framework for assessing) the adverse climate effects of airport expansion proposals for the purposes of planning decision-making. In DfT's view, the most relevant guidance as to the "*methodology*" to be applied when considering whether airport expansions comply with future carbon targets, such as the recently announced sixth carbon budget, is that used in 'making best use'. Given the primary importance given to the CCC's (then-current) planning assumption under 'making best use', this reinforces the relevance of the CCC's latest advice and emissions allocation for the aviation sector when considering carbon emissions "*at the national level*".

4. Other developments since my proof of evidence

4.1 Following submission of my proof of evidence on 15 June 2021:

- (i) the sixth carbon budget was approved (unamended) by Parliament on 22 June 2021, with the Carbon Budget Order 2021 coming into force on 24 June 2021;²⁷
- (ii) as discussed further below, the CCC issued its statutory progress report on reducing emissions to Parliament for 2021 on 24 June 2021;²⁸
- (iii) as discussed further below, a new version of the NPPF was issued on 20 July 2021; and
- (iv) as discussed further below, the IPCC released Working Group I's contribution to AR6 on 9 August 2021.

CCC progress report to Parliament 2021

4.2 In its progress report, the CCC reiterates: (i) the current lack of progress in meeting the budgets and the 2050 net zero target under the Climate Change Act 2008; and (ii) its advice in respect of UK airport capacity.

4.3 In respect of overall progress, the CCC emphasises that *“there is a large policy gap: credible policies for delivery currently cover only around 20% of the required reduction in emissions to meet the Sixth Carbon Budget.”*²⁹ The CCC also notes that:

“To meet the Sixth Carbon Budget and to deliver the UK’s 2030 Nationally Determined Contribution to the Paris Agreement, progress will have to extend quickly beyond the power sector. If annual changes in emissions return to the same per-sector trend as the previous decade, the Sixth Carbon Budget will be missed by a huge margin”

4.4 As illustrated by the below graph, the CCC calculates that if emissions reductions in sectors outside of electricity generation continue to decline at pre-pandemic rates the sixth carbon budget will be exceeded by a margin of approximately 100%.³⁰

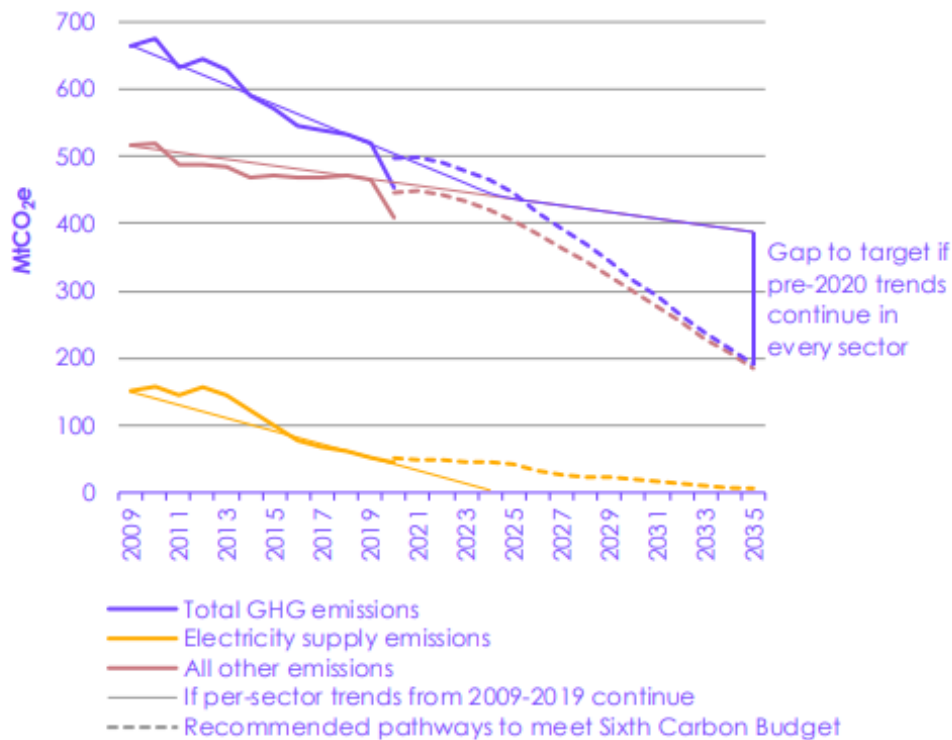
²⁷ [CD 9.110].

²⁸ CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130].

²⁹ CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130], p. 16.

³⁰ CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130], p. 63, Fig 2.3.

Figure 2.3 Concerted action is required beyond electricity to meet the Sixth Carbon Budget



Source: BEIS (2021) 2020 UK Greenhouse Gas Emissions, Provisional Figures; CCC analysis.

Notes: Emissions in this chart are adjusted for future increases to the Global Warming Potentials (GWPs) of non-CO₂ gases, and therefore do not match the total published in the latest greenhouse gas inventory. The Sixth Carbon Budget target was recommended on this basis (see Box 2.2).

- 4.5 In terms of aviation policy, the CCC reiterates that “[m]anaging aviation demand is a critical part of achieving the Net Zero target”,³¹ while setting out (in the table below) aviation demand milestones that allow only very limited room for growth in aviation demand until sufficient progress is made on fuel efficiency and the use of sustainable aviation fuel (which is not expected to occur pre-2035).³²

³¹ CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130], p. 184.

³² CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130], p. 125, Table 3.6.

Table 3.6 Key metrics for aviation in the CCC Pathway to meet the Sixth Carbon Budget									
		Latest indicator			Milestones in the CCC pathway				
Metric		Year	Annual change	Value	2025	2030	2035	2050	Trend
Demand	Passenger-km per person	2019	+2.0%	5,400	5,500	5,500	5,700	6,800	
Efficiency and hybrids	Fuel consumption (kWh of fuel used per passenger-km)	2019	-1.5%	0.41	0.39	0.36	0.33	0.25	
	Electric-hybrids (% of km flown)	2020	-	-	-	-	-	9	
Sustainable aviation fuels	SAF fuel share (%)	2020	-	-	0.1	2	8	25	
Source: CCC analysis and Department for Transport analysis of Civil Aviation Authority passenger-km data. Notes: the demand milestone corresponds to passenger-km from departing flights only, which is the convention when measuring aviation demand. This differs to the aviation demand milestones reported in the Sixth Carbon Budget report (Table 2, p27 of the main report), which relate to both departing and arriving flights; CO ₂ emissions are from fossil fuel sources only. Fuel efficiency improvements also differ to those cited in the Sixth Carbon Budget (Table 8.1, p261 of the methodology report) as they are based on fuel consumption per passenger-km, and Sixth Carbon Budget figures are based on CO ₂ /passenger.									

- 4.6 The CCC also emphasise the importance of ensuring that UK airport capacity is consistent with the required emissions trajectory:

“Several UK airports are in the process of seeking planning permission to expand, or have already sought permission to expand and are challenging planning permission rejections Government has not made commitments to review its airport capacity strategy nor stated a clear position on this issue. Our advice from the Sixth Carbon Budget remains unchanged – there should be no net expansion of UK airport capacity unless the sector is on track to outperform its net emissions trajectory. Government needs to assess its airport capacity strategy and develop and put in place a demand management framework to assess and, if required, control sector GHG emissions and non-CO₂ effects.”³³

- 4.7 As explained above, the government has not undertaken a strategic review of airport capacity for planning purposes as part of the Transport Decarbonisation Plan or Jet Zero Consultation, in effect leaving this a matter to be assessed on a case-by-case basis by the relevant decision-maker. The government has, however, expressly stated that it will keep the range of policies under regular review, with a new Transport Decarbonisation Plan to be published within five years.

³³ CCC, ‘Progress in reducing emissions – 2021 Report to Parliament’, 24 June 2021 [CD 9.130], p. 184. See also pp 185-186, Box 4.4.

The updated NPPF 2021

- 4.8 In my proof of evidence I refer to the NPPF (as updated in 2019) in footnote 3 on page 4 and paragraph 6.10. The paragraphs that I cite are largely unamended in the updated NPPF.
- 4.9 Former paragraph 148 is now paragraph 152, with the same wording, continuing to require that the planning system “*shape places in ways that contribute to radical reductions in greenhouse gas emissions*”. Similarly, former paragraph 150 is now paragraph 154, also with the same wording.
- 4.10 Paragraph 7 continues to define “*sustainable development*” at a high level as “*meeting the needs of the present without compromising the ability of future generations to meet their own needs*”.
- 4.11 However, paragraph 7 now also includes reference to the 17 Global Goals for Sustainable Development (more commonly referred to as the Sustainable Development Goals or SDGs) from the UN’s ‘Transforming our World: the 2030 Agenda for Sustainable Development’, which the UK has committed to pursuing.³⁴
- 4.12 While a number of the Sustainable Development Goals address matters integral to mitigating climate change, Goal 13 is of most direct relevance. It commits states to taking “*urgent action to combat climate change and its impacts*”, including by “*integrat[ing] climate change measures into national policies, strategies and planning*” (at 13.2). The fundamental importance of addressing climate change to achieving sustainable development is also emphasised in the UN 2030 Agenda, describing climate change as “*one of the greatest challenges of our time*”, while “*its adverse impacts undermine the ability of all countries to achieve sustainable development*.”³⁵

The IPCC’s AR6

- 4.13 On 9 August 2021, the IPCC released its latest report on the physical science of climate change, as part of AR6. The UN Secretary-General described the report as a “*code red for humanity*” **[Appendix S2]**. The Summary for Policymakers is **INQ/032**.

³⁴ United Nations, ‘Transforming our World: the 2030 Agenda for Sustainable Development’, 2015, **[Appendix S1]**.

³⁵ United Nations, ‘Transforming our World: the 2030 Agenda for Sustainable Development’, 2015, para 14.

In the presentation accompanying its release **[Appendix S3]**, the IPCC emphasised that:

“Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years.”³⁶

“Unless there are immediate, rapid, and large-scale reductions in greenhouse gas emissions, limiting warming to 1.5°C will be beyond reach.”³⁷

“Climate change is already affecting every region on Earth, in multiple ways. The changes we experience will increase with further warming.”³⁸

“The climate we experience in the future depends on our decisions now.”³⁹

- 4.14 The AR6 and its conclusions reinforce the severity of what is at stake in decisions relating to new infrastructure, as well as the urgency of avoiding future emissions wherever possible. This, in turn, reinforces the status of the additional emissions resulting from the proposed development as a significant adverse effect, as I set out at paragraphs 6.1 to 6.5 of my main proof of evidence **[BAAN/W3/1]**.

³⁶ See page 63 below.

³⁷ See page 68 below.

³⁸ See page 80 below.

³⁹ See page 92 below.

5. Conclusions

- 5.1 As explained above, the government has not (at least for now) sought to implement the CCC's recommendation to "*assess its airport capacity strategy and develop and put in place a demand management framework*", as reiterated by the CCC in its 2021 progress report to Parliament.⁴⁰
- 5.2 However, nothing in the Transport Decarbonisation Plan or Jet Zero Consultation serves to alter or undermine the central relevance of the CCC's analysis to the consideration of the planning merits of expansion proposals such as that at issue in this appeal; indeed, the government's assessment that the "*solutions certainty*" for decarbonising international aviation is "*very low*" is entirely consistent with the CCC's assessment. The Jet Zero Consultation expressly leaves the emissions and other adverse impacts of airport expansions to be considered and taken into account in planning decision making, including under the 'making best use' policy, while its proposals are overtly based on "*aspirational*" scenarios rather than the "*feasible*" pathway informing the CCC's advice.⁴¹
- 5.3 Accordingly, the conclusions set out at Section 6 of my proof of evidence are unchanged, and if anything reinforced, by the contents of the Transport Decarbonisation Plan, the Jet Zero Consultation and DfT's response to North Somerset Council.

Declaration

The evidence which I have prepared and provide for this appeal reference APP/D0121/W/20/3259234 (in this proof of evidence) is true, and I confirm that the opinions expressed are my true opinions.

⁴⁰ CCC, 'Progress in reducing emissions – 2021 Report to Parliament', 24 June 2021 [CD 9.130], p. 184.

⁴¹ See [BAAN/W3/1], para 5.1.

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TRANSFORMING OUR WORLD: THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

A/RES/70/1



UNITED NATIONS

sustainabledevelopment.un.org

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Transforming our world: the 2030 Agenda for Sustainable Development

Preamble

This Agenda is a plan of action for people, planet and prosperity. It also seeks to strengthen universal peace in larger freedom. We recognize that eradicating poverty in all its forms and dimensions, including extreme poverty, is the greatest global challenge and an indispensable requirement for sustainable development.

All countries and all stakeholders, acting in collaborative partnership, will implement this plan. We are resolved to free the human race from the tyranny of poverty and want and to heal and secure our planet. We are determined to take the bold and transformative steps which are urgently needed to shift the world on to a sustainable and resilient path. As we embark on this collective journey, we pledge that no one will be left behind.

The 17 Sustainable Development Goals and 169 targets which we are announcing today demonstrate the scale and ambition of this new universal Agenda. They seek to build on the Millennium Development Goals and complete what they did not achieve. They seek to realize the human rights of all and to achieve gender equality and the empowerment of all women and girls. They are integrated and indivisible and balance the three dimensions of sustainable development: the economic, social and environmental.

The Goals and targets will stimulate action over the next 15 years in areas of critical importance for humanity and the planet.

People

We are determined to end poverty and hunger, in all their forms and dimensions, and to ensure that all human beings can fulfil their potential in dignity and equality and in a healthy environment.

Planet

We are determined to protect the planet from degradation, including through sustainable consumption and production, sustainably managing its natural resources and taking urgent action on climate change, so that it can support the needs of the present and future generations.

Prosperity

We are determined to ensure that all human beings can enjoy prosperous and fulfilling lives and that economic, social and technological progress occurs in harmony with nature.

Peace

We are determined to foster peaceful, just and inclusive societies which are free from fear and violence. There can be no sustainable development without peace and no peace without sustainable development.

Partnership

We are determined to mobilize the means required to implement this Agenda through a revitalized Global Partnership for Sustainable Development, based on a spirit of strengthened global solidarity, focused in particular on the needs of the poorest and most vulnerable and with the participation of all countries, all stakeholders and all people.

The interlinkages and integrated nature of the Sustainable Development Goals are of crucial importance in ensuring that the purpose of the new Agenda is realized. If we realize our ambitions across the full extent of the Agenda, the lives of all will be profoundly improved and our world will be transformed for the better.

Declaration

Introduction

1. We, the Heads of State and Government and High Representatives, meeting at United Nations Headquarters in New York from 25 to 27 September 2015 as the Organization celebrates its seventieth anniversary, have decided today on new global Sustainable Development Goals.
2. On behalf of the peoples we serve, we have adopted a historic decision on a comprehensive, far-reaching and people-centred set of universal and transformative Goals and targets. We commit ourselves to working tirelessly for the full implementation of this Agenda by 2030. We recognize that eradicating poverty in all its forms and dimensions, including extreme poverty, is the greatest global challenge and an indispensable requirement for sustainable development. We are committed to achieving sustainable development in its three dimensions — economic, social and environmental — in a balanced and integrated manner. We will also build upon the achievements of the Millennium Development Goals and seek to address their unfinished business.
3. We resolve, between now and 2030, to end poverty and hunger everywhere; to combat inequalities within and among countries; to build peaceful, just and inclusive societies; to protect human rights and promote gender equality and the empowerment of women and girls; and to ensure the lasting protection of the planet and its natural resources. We resolve also to create conditions for sustainable, inclusive and sustained economic growth, shared prosperity and decent work for all, taking into account different levels of national development and capacities.
4. As we embark on this great collective journey, we pledge that no one will be left behind. Recognizing that the dignity of the human person is fundamental, we wish to see the Goals

and targets met for all nations and peoples and for all segments of society. And we will endeavour to reach the furthest behind first.

5. This is an Agenda of unprecedented scope and significance. It is accepted by all countries and is applicable to all, taking into account different national realities, capacities and levels of development and respecting national policies and priorities. These are universal goals and targets which involve the entire world, developed and developing countries alike. They are integrated and indivisible and balance the three dimensions of sustainable development.

6. The Goals and targets are the result of over two years of intensive public consultation and engagement with civil society and other stakeholders around the world, which paid particular attention to the voices of the poorest and most vulnerable. This consultation included valuable work done by the Open Working Group of the General Assembly on Sustainable Development Goals and by the United Nations, whose Secretary-General provided a synthesis report in December 2014.

Our vision

7. In these Goals and targets, we are setting out a supremely ambitious and transformational vision. We envisage a world free of poverty, hunger, disease and want, where all life can thrive. We envisage a world free of fear and violence. A world with universal literacy. A world with equitable and universal access to quality education at all levels, to health care and social protection, where physical, mental and social well-being are assured. A world where we reaffirm our commitments regarding the human right to safe drinking water and sanitation and where there is improved hygiene; and where food is sufficient, safe, affordable and nutritious. A world where human habitats are safe, resilient and sustainable and where there is universal access to affordable, reliable and sustainable energy.

8. We envisage a world of universal respect for human rights and human dignity, the rule of law, justice, equality and non-discrimination; of respect for race, ethnicity and cultural diversity; and of equal opportunity permitting the full realization of human potential and contributing to shared prosperity. A world which invests in its children and in which every child grows up free from violence and exploitation. A world in which every woman and girl enjoys full gender equality and all legal, social and economic barriers to their empowerment have been removed. A just, equitable, tolerant, open and socially inclusive world in which the needs of the most vulnerable are met.

9. We envisage a world in which every country enjoys sustained, inclusive and sustainable economic growth and decent work for all. A world in which consumption and production patterns and use of all natural resources — from air to land, from rivers, lakes and aquifers to oceans and seas — are sustainable. One in which democracy, good governance and the rule of law, as well as an enabling environment at the national and international levels, are essential for sustainable development, including sustained and inclusive economic growth, social development, environmental protection and the eradication of poverty and hunger. One in which development and the application of technology are climate-sensitive, respect biodiversity and are resilient. One in which humanity lives in harmony with nature and in which wildlife and other living species are protected.

Our shared principles and commitments

10. The new Agenda is guided by the purposes and principles of the Charter of the United Nations, including full respect for international law. It is grounded in the Universal Declaration of Human Rights, international human rights treaties, the Millennium Declaration and the 2005 World Summit Outcome. It is informed by other instruments such as the Declaration on the Right to Development.

11. We reaffirm the outcomes of all major United Nations conferences and summits which have laid a solid foundation for sustainable development and have helped to shape the new Agenda. These include the Rio Declaration on Environment and Development, the World Summit on Sustainable Development, the World Summit for Social Development, the Programme of Action of the International Conference on Population and Development, the Beijing Platform for Action and the United Nations Conference on Sustainable Development. We also reaffirm the follow-up to these conferences, including the outcomes of the Fourth United Nations Conference on the Least Developed Countries, the third International Conference on Small Island Developing States, the second United Nations Conference on Landlocked Developing Countries and the Third United Nations World Conference on Disaster Risk Reduction.

12. We reaffirm all the principles of the Rio Declaration on Environment and Development, including, inter alia, the principle of common but differentiated responsibilities, as set out in principle 7 thereof.

13. The challenges and commitments identified at these major conferences and summits are interrelated and call for integrated solutions. To address them effectively, a new approach is needed. Sustainable development recognizes that eradicating poverty in all its forms and dimensions, combating inequality within and among countries, preserving the planet, creating sustained, inclusive and sustainable economic growth and fostering social inclusion are linked to each other and are interdependent.

Our world today

14. We are meeting at a time of immense challenges to sustainable development. Billions of our citizens continue to live in poverty and are denied a life of dignity. There are rising inequalities within and among countries. There are enormous disparities of opportunity, wealth and power. Gender inequality remains a key challenge. Unemployment, particularly youth unemployment, is a major concern. Global health threats, more frequent and intense natural disasters, spiralling conflict, violent extremism, terrorism and related humanitarian crises and forced displacement of people threaten to reverse much of the development progress made in recent decades. Natural resource depletion and adverse impacts of environmental degradation, including desertification, drought, land degradation, freshwater scarcity and loss of biodiversity, add to and exacerbate the list of challenges which humanity faces. Climate change is one of the greatest challenges of our time and its adverse impacts undermine the ability of all countries to achieve sustainable development. Increases in global temperature, sea level rise, ocean acidification and other climate change impacts are seriously

affecting coastal areas and low-lying coastal countries, including many least developed countries and small island developing States. The survival of many societies, and of the biological support systems of the planet, is at risk.

15. It is also, however, a time of immense opportunity. Significant progress has been made in meeting many development challenges. Within the past generation, hundreds of millions of people have emerged from extreme poverty. Access to education has greatly increased for both boys and girls. The spread of information and communications technology and global interconnectedness has great potential to accelerate human progress, to bridge the digital divide and to develop knowledge societies, as does scientific and technological innovation across areas as diverse as medicine and energy.

16. Almost 15 years ago, the Millennium Development Goals were agreed. These provided an important framework for development and significant progress has been made in a number of areas. But the progress has been uneven, particularly in Africa, least developed countries, landlocked developing countries and small island developing States, and some of the Millennium Development Goals remain off-track, in particular those related to maternal, newborn and child health and to reproductive health. We recommit ourselves to the full realization of all the Millennium Development Goals, including the off-track Millennium Development Goals, in particular by providing focused and scaled-up assistance to least developed countries and other countries in special situations, in line with relevant support programmes. The new Agenda builds on the Millennium Development Goals and seeks to complete what they did not achieve, particularly in reaching the most vulnerable.

17. In its scope, however, the framework we are announcing today goes far beyond the Millennium Development Goals. Alongside continuing development priorities such as poverty eradication, health, education and food security and nutrition, it sets out a wide range of economic, social and environmental objectives. It also promises more peaceful and inclusive societies. It also, crucially, defines means of implementation. Reflecting the integrated approach that we have decided on, there are deep interconnections and many cross-cutting elements across the new Goals and targets.

The new Agenda

18. We are announcing today 17 Sustainable Development Goals with 169 associated targets which are integrated and indivisible. Never before have world leaders pledged common action and endeavour across such a broad and universal policy agenda. We are setting out together on the path towards sustainable development, devoting ourselves collectively to the pursuit of global development and of “win-win” cooperation which can bring huge gains to all countries and all parts of the world. We reaffirm that every State has, and shall freely exercise, full permanent sovereignty over all its wealth, natural resources and economic activity. We will implement the Agenda for the full benefit of all, for today’s generation and for future generations. In doing so, we reaffirm our commitment to international law and emphasize that the Agenda is to be implemented in a manner that is consistent with the rights and obligations of States under international law.

19. We reaffirm the importance of the Universal Declaration of Human Rights, as well as other international instruments relating to human rights and international law. We emphasize the responsibilities of all States, in conformity with the Charter of the United Nations, to respect, protect and promote human rights and fundamental freedoms for all, without distinction of any kind as to race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth, disability or other status.

20. Realizing gender equality and the empowerment of women and girls will make a crucial contribution to progress across all the Goals and targets. The achievement of full human potential and of sustainable development is not possible if one half of humanity continues to be denied its full human rights and opportunities. Women and girls must enjoy equal access to quality education, economic resources and political participation as well as equal opportunities with men and boys for employment, leadership and decision-making at all levels. We will work for a significant increase in investments to close the gender gap and strengthen support for institutions in relation to gender equality and the empowerment of women at the global, regional and national levels. All forms of discrimination and violence against women and girls will be eliminated, including through the engagement of men and boys. The systematic mainstreaming of a gender perspective in the implementation of the Agenda is crucial.

21. The new Goals and targets will come into effect on 1 January 2016 and will guide the decisions we take over the next 15 years. All of us will work to implement the Agenda within our own countries and at the regional and global levels, taking into account different national realities, capacities and levels of development and respecting national policies and priorities. We will respect national policy space for sustained, inclusive and sustainable economic growth, in particular for developing States, while remaining consistent with relevant international rules and commitments. We acknowledge also the importance of the regional and subregional dimensions, regional economic integration and interconnectivity in sustainable development. Regional and subregional frameworks can facilitate the effective translation of sustainable development policies into concrete action at the national level.

22. Each country faces specific challenges in its pursuit of sustainable development. The most vulnerable countries and, in particular, African countries, least developed countries, landlocked developing countries and small island developing States, deserve special attention, as do countries in situations of conflict and post-conflict countries. There are also serious challenges within many middle-income countries.

23. People who are vulnerable must be empowered. Those whose needs are reflected in the Agenda include all children, youth, persons with disabilities (of whom more than 80 per cent live in poverty), people living with HIV/AIDS, older persons, indigenous peoples, refugees and internally displaced persons and migrants. We resolve to take further effective measures and actions, in conformity with international law, to remove obstacles and constraints, strengthen support and meet the special needs of people living in areas affected by complex humanitarian emergencies and in areas affected by terrorism.

24. We are committed to ending poverty in all its forms and dimensions, including by eradicating extreme poverty by 2030. All people must enjoy a basic standard of living,

including through social protection systems. We are also determined to end hunger and to achieve food security as a matter of priority and to end all forms of malnutrition. In this regard, we reaffirm the important role and inclusive nature of the Committee on World Food Security and welcome the Rome Declaration on Nutrition and the Framework for Action. We will devote resources to developing rural areas and sustainable agriculture and fisheries, supporting smallholder farmers, especially women farmers, herders and fishers in developing countries, particularly least developed countries.

25. We commit to providing inclusive and equitable quality education at all levels — early childhood, primary, secondary, tertiary, technical and vocational training. All people, irrespective of sex, age, race or ethnicity, and persons with disabilities, migrants, indigenous peoples, children and youth, especially those in vulnerable situations, should have access to life-long learning opportunities that help them to acquire the knowledge and skills needed to exploit opportunities and to participate fully in society. We will strive to provide children and youth with a nurturing environment for the full realization of their rights and capabilities, helping our countries to reap the demographic dividend, including through safe schools and cohesive communities and families.

26. To promote physical and mental health and well-being, and to extend life expectancy for all, we must achieve universal health coverage and access to quality health care. No one must be left behind. We commit to accelerating the progress made to date in reducing newborn, child and maternal mortality by ending all such preventable deaths before 2030. We are committed to ensuring universal access to sexual and reproductive health-care services, including for family planning, information and education. We will equally accelerate the pace of progress made in fighting malaria, HIV/AIDS, tuberculosis, hepatitis, Ebola and other communicable diseases and epidemics, including by addressing growing anti-microbial resistance and the problem of unattended diseases affecting developing countries. We are committed to the prevention and treatment of non-communicable diseases, including behavioural, developmental and neurological disorders, which constitute a major challenge for sustainable development.

27. We will seek to build strong economic foundations for all our countries. Sustained, inclusive and sustainable economic growth is essential for prosperity. This will only be possible if wealth is shared and income inequality is addressed. We will work to build dynamic, sustainable, innovative and people-centred economies, promoting youth employment and women's economic empowerment, in particular, and decent work for all. We will eradicate forced labour and human trafficking and end child labour in all its forms. All countries stand to benefit from having a healthy and well-educated workforce with the knowledge and skills needed for productive and fulfilling work and full participation in society. We will strengthen the productive capacities of least developed countries in all sectors, including through structural transformation. We will adopt policies which increase productive capacities, productivity and productive employment; financial inclusion; sustainable agriculture, pastoralist and fisheries development; sustainable industrial development; universal access to affordable, reliable, sustainable and modern energy services; sustainable transport systems; and quality and resilient infrastructure.

28. We commit to making fundamental changes in the way that our societies produce and consume goods and services. Governments, international organizations, the business sector and other non-State actors and individuals must contribute to changing unsustainable consumption and production patterns, including through the mobilization, from all sources, of financial and technical assistance to strengthen developing countries' scientific, technological and innovative capacities to move towards more sustainable patterns of consumption and production. We encourage the implementation of the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns. All countries take action, with developed countries taking the lead, taking into account the development and capabilities of developing countries.

29. We recognize the positive contribution of migrants for inclusive growth and sustainable development. We also recognize that international migration is a multidimensional reality of major relevance for the development of countries of origin, transit and destination, which requires coherent and comprehensive responses. We will cooperate internationally to ensure safe, orderly and regular migration involving full respect for human rights and the humane treatment of migrants regardless of migration status, of refugees and of displaced persons. Such cooperation should also strengthen the resilience of communities hosting refugees, particularly in developing countries. We underline the right of migrants to return to their country of citizenship, and recall that States must ensure that their returning nationals are duly received.

30. States are strongly urged to refrain from promulgating and applying any unilateral economic, financial or trade measures not in accordance with international law and the Charter of the United Nations that impede the full achievement of economic and social development, particularly in developing countries.

31. We acknowledge that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change. We are determined to address decisively the threat posed by climate change and environmental degradation. The global nature of climate change calls for the widest possible international cooperation aimed at accelerating the reduction of global greenhouse gas emissions and addressing adaptation to the adverse impacts of climate change. We note with grave concern the significant gap between the aggregate effect of parties' mitigation pledges in terms of global annual emissions of greenhouse gases by 2020 and aggregate emission pathways consistent with having a likely chance of holding the increase in global average temperature below 2 degrees Celsius or 1.5 degrees Celsius above pre-industrial levels.

32. Looking ahead to the twenty-first session of the Conference of the Parties in Paris, we underscore the commitment of all States to work for an ambitious and universal climate agreement. We reaffirm that the protocol, another legal instrument or agreed outcome with legal force under the Convention applicable to all parties shall address in a balanced manner, inter alia, mitigation, adaptation, finance, technology development and transfer and capacity-building; and transparency of action and support.

33. We recognize that social and economic development depends on the sustainable management of our planet's natural resources. We are therefore determined to conserve and sustainably use oceans and seas, freshwater resources, as well as forests, mountains and drylands and to protect biodiversity, ecosystems and wildlife. We are also determined to promote sustainable tourism, to tackle water scarcity and water pollution, to strengthen cooperation on desertification, dust storms, land degradation and drought and to promote resilience and disaster risk reduction. In this regard, we look forward to the thirteenth meeting of the Conference of the Parties to the Convention on Biological Diversity to be held in Mexico.

34. We recognize that sustainable urban development and management are crucial to the quality of life of our people. We will work with local authorities and communities to renew and plan our cities and human settlements so as to foster community cohesion and personal security and to stimulate innovation and employment. We will reduce the negative impacts of urban activities and of chemicals which are hazardous for human health and the environment, including through the environmentally sound management and safe use of chemicals, the reduction and recycling of waste and the more efficient use of water and energy. And we will work to minimize the impact of cities on the global climate system. We will also take account of population trends and projections in our national rural and urban development strategies and policies. We look forward to the upcoming United Nations Conference on Housing and Sustainable Urban Development to be held in Quito.

35. Sustainable development cannot be realized without peace and security; and peace and security will be at risk without sustainable development. The new Agenda recognizes the need to build peaceful, just and inclusive societies that provide equal access to justice and that are based on respect for human rights (including the right to development), on effective rule of law and good governance at all levels and on transparent, effective and accountable institutions. Factors which give rise to violence, insecurity and injustice, such as inequality, corruption, poor governance and illicit financial and arms flows, are addressed in the Agenda. We must redouble our efforts to resolve or prevent conflict and to support post-conflict countries, including through ensuring that women have a role in peacebuilding and State-building. We call for further effective measures and actions to be taken, in conformity with international law, to remove the obstacles to the full realization of the right of self-determination of peoples living under colonial and foreign occupation, which continue to adversely affect their economic and social development as well as their environment.

36. We pledge to foster intercultural understanding, tolerance, mutual respect and an ethic of global citizenship and shared responsibility. We acknowledge the natural and cultural diversity of the world and recognize that all cultures and civilizations can contribute to, and are crucial enablers of, sustainable development.

37. Sport is also an important enabler of sustainable development. We recognize the growing contribution of sport to the realization of development and peace in its promotion of tolerance and respect and the contributions it makes to the empowerment of women and of young people, individuals and communities as well as to health, education and social inclusion objectives.

38. We reaffirm, in accordance with the Charter of the United Nations, the need to respect the territorial integrity and political independence of States.

Means of implementation

39. The scale and ambition of the new Agenda requires a revitalized Global Partnership to ensure its implementation. We fully commit to this. This Partnership will work in a spirit of global solidarity, in particular solidarity with the poorest and with people in vulnerable situations. It will facilitate an intensive global engagement in support of implementation of all the Goals and targets, bringing together Governments, the private sector, civil society, the United Nations system and other actors and mobilizing all available resources.

40. The means of implementation targets under Goal 17 and under each Sustainable Development Goal are key to realizing our Agenda and are of equal importance with the other Goals and targets. The Agenda, including the Sustainable Development Goals, can be met within the framework of a revitalized Global Partnership for Sustainable Development, supported by the concrete policies and actions as outlined in the outcome document of the third International Conference on Financing for Development, held in Addis Ababa from 13 to 16 July 2015. We welcome the endorsement by the General Assembly of the Addis Ababa Action Agenda, which is an integral part of the 2030 Agenda for Sustainable Development. We recognize that the full implementation of the Addis Ababa Action Agenda is critical for the realization of the Sustainable Development Goals and targets.

41. We recognize that each country has primary responsibility for its own economic and social development. The new Agenda deals with the means required for implementation of the Goals and targets. We recognize that these will include the mobilization of financial resources as well as capacity-building and the transfer of environmentally sound technologies to developing countries on favourable terms, including on concessional and preferential terms, as mutually agreed. Public finance, both domestic and international, will play a vital role in providing essential services and public goods and in catalysing other sources of finance. We acknowledge the role of the diverse private sector, ranging from micro-enterprises to cooperatives to multinationals, and that of civil society organizations and philanthropic organizations in the implementation of the new Agenda.

42. We support the implementation of relevant strategies and programmes of action, including the Istanbul Declaration and Programme of Action, the SIDS Accelerated Modalities of Action (SAMOA) Pathway and the Vienna Programme of Action for Landlocked Developing Countries for the Decade 2014-2024, and reaffirm the importance of supporting the African Union's Agenda 2063 and the programme of the New Partnership for Africa's Development, all of which are integral to the new Agenda. We recognize the major challenge to the achievement of durable peace and sustainable development in countries in conflict and post-conflict situations.

43. We emphasize that international public finance plays an important role in complementing the efforts of countries to mobilize public resources domestically, especially in the poorest and most vulnerable countries with limited domestic resources. An important use of international public finance, including official development assistance (ODA), is to

catalyse additional resource mobilization from other sources, public and private. ODA providers reaffirm their respective commitments, including the commitment by many developed countries to achieve the target of 0.7 per cent of gross national income for official development assistance (ODA/GNI) to developing countries and 0.15 per cent to 0.2 per cent of ODA/GNI to least developed countries.

44. We acknowledge the importance for international financial institutions to support, in line with their mandates, the policy space of each country, in particular developing countries. We recommit to broadening and strengthening the voice and participation of developing countries — including African countries, least developed countries, landlocked developing countries, small island developing States and middle-income countries — in international economic decision-making, norm-setting and global economic governance.

45. We acknowledge also the essential role of national parliaments through their enactment of legislation and adoption of budgets and their role in ensuring accountability for the effective implementation of our commitments. Governments and public institutions will also work closely on implementation with regional and local authorities, subregional institutions, international institutions, academia, philanthropic organizations, volunteer groups and others.

46. We underline the important role and comparative advantage of an adequately resourced, relevant, coherent, efficient and effective United Nations system in supporting the achievement of the Sustainable Development Goals and sustainable development. While stressing the importance of strengthened national ownership and leadership at the country level, we express our support for the ongoing dialogue in the Economic and Social Council on the longer-term positioning of the United Nations development system in the context of this Agenda.

Follow-up and review

47. Our Governments have the primary responsibility for follow-up and review, at the national, regional and global levels, in relation to the progress made in implementing the Goals and targets over the coming 15 years. To support accountability to our citizens, we will provide for systematic follow-up and review at the various levels, as set out in this Agenda and the Addis Ababa Action Agenda. The high-level political forum under the auspices of the General Assembly and the Economic and Social Council will have the central role in overseeing follow-up and review at the global level.

48. Indicators are being developed to assist this work. Quality, accessible, timely and reliable disaggregated data will be needed to help with the measurement of progress and to ensure that no one is left behind. Such data is key to decision-making. Data and information from existing reporting mechanisms should be used where possible. We agree to intensify our efforts to strengthen statistical capacities in developing countries, particularly African countries, least developed countries, landlocked developing countries, small island developing States and middle-income countries. We are committed to developing broader measures of progress to complement gross domestic product.

A call for action to change our world

49. Seventy years ago, an earlier generation of world leaders came together to create the United Nations. From the ashes of war and division they fashioned this Organization and the values of peace, dialogue and international cooperation which underpin it. The supreme embodiment of those values is the Charter of the United Nations.

50. Today we are also taking a decision of great historic significance. We resolve to build a better future for all people, including the millions who have been denied the chance to lead decent, dignified and rewarding lives and to achieve their full human potential. We can be the first generation to succeed in ending poverty; just as we may be the last to have a chance of saving the planet. The world will be a better place in 2030 if we succeed in our objectives.

51. What we are announcing today — an Agenda for global action for the next 15 years — is a charter for people and planet in the twenty-first century. Children and young women and men are critical agents of change and will find in the new Goals a platform to channel their infinite capacities for activism into the creation of a better world.

52. “We the peoples” are the celebrated opening words of the Charter of the United Nations. It is “we the peoples” who are embarking today on the road to 2030. Our journey will involve Governments as well as parliaments, the United Nations system and other international institutions, local authorities, indigenous peoples, civil society, business and the private sector, the scientific and academic community — and all people. Millions have already engaged with, and will own, this Agenda. It is an Agenda of the people, by the people and for the people — and this, we believe, will ensure its success.

53. The future of humanity and of our planet lies in our hands. It lies also in the hands of today’s younger generation who will pass the torch to future generations. We have mapped the road to sustainable development; it will be for all of us to ensure that the journey is successful and its gains irreversible.

Sustainable Development Goals and targets

54. Following an inclusive process of intergovernmental negotiations, and based on the proposal of the Open Working Group on Sustainable Development Goals,¹ which includes a chapeau contextualizing the latter, set out below are the Goals and targets which we have agreed.

55. The Sustainable Development Goals and targets are integrated and indivisible, global in nature and universally applicable, taking into account different national realities, capacities and levels of development and respecting national policies and priorities. Targets are defined as aspirational and global, with each Government setting its own national targets guided by the global level of ambition but taking into account national circumstances. Each Government will also decide how these aspirational and global targets should be incorporated into national

¹ Contained in the report of the Open Working Group of the General Assembly on Sustainable Development Goals ([A/68/970](#) and Corr.1; see also [A/68/970/Add.1](#) and 2).

planning processes, policies and strategies. It is important to recognize the link between sustainable development and other relevant ongoing processes in the economic, social and environmental fields.

56. In deciding upon these Goals and targets, we recognize that each country faces specific challenges to achieve sustainable development, and we underscore the special challenges facing the most vulnerable countries and, in particular, African countries, least developed countries, landlocked developing countries and small island developing States, as well as the specific challenges facing the middle-income countries. Countries in situations of conflict also need special attention.

57. We recognize that baseline data for several of the targets remains unavailable, and we call for increased support for strengthening data collection and capacity-building in Member States, to develop national and global baselines where they do not yet exist. We commit to addressing this gap in data collection so as to better inform the measurement of progress, in particular for those targets below which do not have clear numerical targets.

58. We encourage ongoing efforts by States in other forums to address key issues which pose potential challenges to the implementation of our Agenda, and we respect the independent mandates of those processes. We intend that the Agenda and its implementation would support, and be without prejudice to, those other processes and the decisions taken therein.

59. We recognize that there are different approaches, visions, models and tools available to each country, in accordance with its national circumstances and priorities, to achieve sustainable development; and we reaffirm that planet Earth and its ecosystems are our common home and that “Mother Earth” is a common expression in a number of countries and regions.

Sustainable Development Goals

Goal 1. End poverty in all its forms everywhere

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Goal 3. Ensure healthy lives and promote well-being for all at all ages

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Goal 5. Achieve gender equality and empower all women and girls

Goal 6. Ensure availability and sustainable management of water and sanitation for all

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all

Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Goal 10. Reduce inequality within and among countries

Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

Goal 12. Ensure sustainable consumption and production patterns

Goal 13. Take urgent action to combat climate change and its impacts*

Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

* Acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change.

Goal 1. End poverty in all its forms everywhere

1.1 By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day

1.2 By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions

1.3 Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable

1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance

1.5 By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters

1.a Ensure significant mobilization of resources from a variety of sources, including through enhanced development cooperation, in order to provide adequate and predictable means for developing countries, in particular least developed countries, to implement programmes and policies to end poverty in all its dimensions

1.b Create sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions

Goal 2. End hunger, achieve food security and improved nutrition and promote sustainable agriculture

2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe, nutritious and sufficient food all year round

2.2 By 2030, end all forms of malnutrition, including achieving, by 2025, the internationally agreed targets on stunting and wasting in children under 5 years of age, and address the nutritional needs of adolescent girls, pregnant and lactating women and older persons

2.3 By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment

2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and

diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

2.a Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular least developed countries

2.b Correct and prevent trade restrictions and distortions in world agricultural markets, including through the parallel elimination of all forms of agricultural export subsidies and all export measures with equivalent effect, in accordance with the mandate of the Doha Development Round

2.c Adopt measures to ensure the proper functioning of food commodity markets and their derivatives and facilitate timely access to market information, including on food reserves, in order to help limit extreme food price volatility

Goal 3. Ensure healthy lives and promote well-being for all at all ages

3.1 By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births

3.2 By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births

3.3 By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases

3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being

3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol

3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents

3.7 By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the integration of reproductive health into national strategies and programmes

3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all

3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

3.a Strengthen the implementation of the World Health Organization Framework Convention on Tobacco Control in all countries, as appropriate

3.b Support the research and development of vaccines and medicines for the communicable and non-communicable diseases that primarily affect developing countries, provide access to affordable essential medicines and vaccines, in accordance with the Doha Declaration on the TRIPS Agreement and Public Health, which affirms the right of developing countries to use to the full the provisions in the Agreement on Trade-Related Aspects of Intellectual Property Rights regarding flexibilities to protect public health, and, in particular, provide access to medicines for all

3.c Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries and small island developing States

3.d Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks

Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4.1 By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and effective learning outcomes

4.2 By 2030, ensure that all girls and boys have access to quality early childhood development, care and pre-primary education so that they are ready for primary education

4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university

4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship

4.5 By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples and children in vulnerable situations

4.6 By 2030, ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy

4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

4.a Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments for all

4.b By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and

information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries

4.c By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing States

Goal 5. Achieve gender equality and empower all women and girls

5.1 End all forms of discrimination against all women and girls everywhere

5.2 Eliminate all forms of violence against all women and girls in the public and private spheres, including trafficking and sexual and other types of exploitation

5.3 Eliminate all harmful practices, such as child, early and forced marriage and female genital mutilation

5.4 Recognize and value unpaid care and domestic work through the provision of public services, infrastructure and social protection policies and the promotion of shared responsibility within the household and the family as nationally appropriate

5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life

5.6 Ensure universal access to sexual and reproductive health and reproductive rights as agreed in accordance with the Programme of Action of the International Conference on Population and Development and the Beijing Platform for Action and the outcome documents of their review conferences

5.a Undertake reforms to give women equal rights to economic resources, as well as access to ownership and control over land and other forms of property, financial services, inheritance and natural resources, in accordance with national laws

5.b Enhance the use of enabling technology, in particular information and communications technology, to promote the empowerment of women

5.c Adopt and strengthen sound policies and enforceable legislation for the promotion of gender equality and the empowerment of all women and girls at all levels

Goal 6. Ensure availability and sustainable management of water and sanitation for all

6.1 By 2030, achieve universal and equitable access to safe and affordable drinking water for all

6.2 By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations

6.3 By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally

6.4 By 2030, substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity

6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

6.a By 2030, expand international cooperation and capacity-building support to developing countries in water- and sanitation-related activities and programmes, including water harvesting, desalination, water efficiency, wastewater treatment, recycling and reuse technologies

6.b Support and strengthen the participation of local communities in improving water and sanitation management

Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all

7.1 By 2030, ensure universal access to affordable, reliable and modern energy services

7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

7.3 By 2030, double the global rate of improvement in energy efficiency

7.a By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology

7.b By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States and landlocked developing countries, in accordance with their respective programmes of support

Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

8.1 Sustain per capita economic growth in accordance with national circumstances and, in particular, at least 7 per cent gross domestic product growth per annum in the least developed countries

8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors

8.3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services

8.4 Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 10-Year Framework of Programmes on Sustainable Consumption and Production, with developed countries taking the lead

8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value

8.6 By 2020, substantially reduce the proportion of youth not in employment, education or training

8.7 Take immediate and effective measures to eradicate forced labour, end modern slavery and human trafficking and secure the prohibition and elimination of the worst forms of child labour, including recruitment and use of child soldiers, and by 2025 end child labour in all its forms

8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment

8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products

8.10 Strengthen the capacity of domestic financial institutions to encourage and expand access to banking, insurance and financial services for all

8.a Increase Aid for Trade support for developing countries, in particular least developed countries, including through the Enhanced Integrated Framework for Trade-related Technical Assistance to Least Developed Countries

8.b By 2020, develop and operationalize a global strategy for youth employment and implement the Global Jobs Pact of the International Labour Organization

Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries

9.3 Increase the access of small-scale industrial and other enterprises, in particular in developing countries, to financial services, including affordable credit, and their integration into value chains and markets

9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound

technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending

9.a Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States

9.b Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities

9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020

Goal 10. Reduce inequality within and among countries

10.1 By 2030, progressively achieve and sustain income growth of the bottom 40 per cent of the population at a rate higher than the national average

10.2 By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status

10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard

10.4 Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality

10.5 Improve the regulation and monitoring of global financial markets and institutions and strengthen the implementation of such regulations

10.6 Ensure enhanced representation and voice for developing countries in decision-making in global international economic and financial institutions in order to deliver more effective, credible, accountable and legitimate institutions

10.7 Facilitate orderly, safe, regular and responsible migration and mobility of people, including through the implementation of planned and well-managed migration policies

10.a Implement the principle of special and differential treatment for developing countries, in particular least developed countries, in accordance with World Trade Organization agreements

10.b Encourage official development assistance and financial flows, including foreign direct investment, to States where the need is greatest, in particular least developed countries,

African countries, small island developing States and landlocked developing countries, in accordance with their national plans and programmes

10.c By 2030, reduce to less than 3 per cent the transaction costs of migrant remittances and eliminate remittance corridors with costs higher than 5 per cent

Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums

11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons

11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries

11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage

11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

11.7 By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities

11.a Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning

11.b By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels

11.c Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials

Goal 12. Ensure sustainable consumption and production patterns

12.1 Implement the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries

12.2 By 2030, achieve the sustainable management and efficient use of natural resources

12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle

12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities

12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

12.a Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production

12.b Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products

12.c Rationalize inefficient fossil-fuel subsidies that encourage wasteful consumption by removing market distortions, in accordance with national circumstances, including by restructuring taxation and phasing out those harmful subsidies, where they exist, to reflect their environmental impacts, taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and the affected communities

Goal 13. Take urgent action to combat climate change and its impacts*

13.1 Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries

13.2 Integrate climate change measures into national policies, strategies and planning

13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

13.a Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible

* Acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change.

13.b Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities

Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development

14.1 By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution

14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

14.3 Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels

14.4 By 2020, effectively regulate harvesting and end overfishing, illegal, unreported and unregulated fishing and destructive fishing practices and implement science-based management plans, in order to restore fish stocks in the shortest time feasible, at least to levels that can produce maximum sustainable yield as determined by their biological characteristics

14.5 By 2020, conserve at least 10 per cent of coastal and marine areas, consistent with national and international law and based on the best available scientific information

14.6 By 2020, prohibit certain forms of fisheries subsidies which contribute to overcapacity and overfishing, eliminate subsidies that contribute to illegal, unreported and unregulated fishing and refrain from introducing new such subsidies, recognizing that appropriate and effective special and differential treatment for developing and least developed countries should be an integral part of the World Trade Organization fisheries subsidies negotiation²

14.7 By 2030, increase the economic benefits to small island developing States and least developed countries from the sustainable use of marine resources, including through sustainable management of fisheries, aquaculture and tourism

14.a Increase scientific knowledge, develop research capacity and transfer marine technology, taking into account the Intergovernmental Oceanographic Commission Criteria and Guidelines on the Transfer of Marine Technology, in order to improve ocean health and to enhance the contribution of marine biodiversity to the development of developing countries, in particular small island developing States and least developed countries

14.b Provide access for small-scale artisanal fishers to marine resources and markets

14.c Enhance the conservation and sustainable use of oceans and their resources by implementing international law as reflected in the United Nations Convention on the Law of

² Taking into account ongoing World Trade Organization negotiations, the Doha Development Agenda and the Hong Kong ministerial mandate.

the Sea, which provides the legal framework for the conservation and sustainable use of oceans and their resources, as recalled in paragraph 158 of “The future we want”

Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements

15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

15.3 By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world

15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development

15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species

15.6 Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed

15.7 Take urgent action to end poaching and trafficking of protected species of flora and fauna and address both demand and supply of illegal wildlife products

15.8 By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species

15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts

15.a Mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems

15.b Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation

15.c Enhance global support for efforts to combat poaching and trafficking of protected species, including by increasing the capacity of local communities to pursue sustainable livelihood opportunities

Goal 16. Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

- 16.1 Significantly reduce all forms of violence and related death rates everywhere
- 16.2 End abuse, exploitation, trafficking and all forms of violence against and torture of children
- 16.3 Promote the rule of law at the national and international levels and ensure equal access to justice for all
- 16.4 By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime
- 16.5 Substantially reduce corruption and bribery in all their forms
- 16.6 Develop effective, accountable and transparent institutions at all levels
- 16.7 Ensure responsive, inclusive, participatory and representative decision-making at all levels
- 16.8 Broaden and strengthen the participation of developing countries in the institutions of global governance
- 16.9 By 2030, provide legal identity for all, including birth registration
- 16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements
- 16.a Strengthen relevant national institutions, including through international cooperation, for building capacity at all levels, in particular in developing countries, to prevent violence and combat terrorism and crime
- 16.b Promote and enforce non-discriminatory laws and policies for sustainable development

Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development

Finance

- 17.1 Strengthen domestic resource mobilization, including through international support to developing countries, to improve domestic capacity for tax and other revenue collection
- 17.2 Developed countries to implement fully their official development assistance commitments, including the commitment by many developed countries to achieve the target of 0.7 per cent of gross national income for official development assistance (ODA/GNI) to developing countries and 0.15 to 0.20 per cent of ODA/GNI to least developed countries; ODA providers are encouraged to consider setting a target to provide at least 0.20 per cent of ODA/GNI to least developed countries
- 17.3 Mobilize additional financial resources for developing countries from multiple sources

17.4 Assist developing countries in attaining long-term debt sustainability through coordinated policies aimed at fostering debt financing, debt relief and debt restructuring, as appropriate, and address the external debt of highly indebted poor countries to reduce debt distress

17.5 Adopt and implement investment promotion regimes for least developed countries

Technology

17.6 Enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation and enhance knowledge sharing on mutually agreed terms, including through improved coordination among existing mechanisms, in particular at the United Nations level, and through a global technology facilitation mechanism

17.7 Promote the development, transfer, dissemination and diffusion of environmentally sound technologies to developing countries on favourable terms, including on concessional and preferential terms, as mutually agreed

17.8 Fully operationalize the technology bank and science, technology and innovation capacity-building mechanism for least developed countries by 2017 and enhance the use of enabling technology, in particular information and communications technology

Capacity-building

17.9 Enhance international support for implementing effective and targeted capacity-building in developing countries to support national plans to implement all the Sustainable Development Goals, including through North-South, South-South and triangular cooperation

Trade

17.10 Promote a universal, rules-based, open, non-discriminatory and equitable multilateral trading system under the World Trade Organization, including through the conclusion of negotiations under its Doha Development Agenda

17.11 Significantly increase the exports of developing countries, in particular with a view to doubling the least developed countries' share of global exports by 2020

17.12 Realize timely implementation of duty-free and quota-free market access on a lasting basis for all least developed countries, consistent with World Trade Organization decisions, including by ensuring that preferential rules of origin applicable to imports from least developed countries are transparent and simple, and contribute to facilitating market access

Systemic issues

Policy and institutional coherence

17.13 Enhance global macroeconomic stability, including through policy coordination and policy coherence

17.14 Enhance policy coherence for sustainable development

17.15 Respect each country's policy space and leadership to establish and implement policies for poverty eradication and sustainable development

Multi-stakeholder partnerships

17.16 Enhance the Global Partnership for Sustainable Development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the Sustainable Development Goals in all countries, in particular developing countries

17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships

Data, monitoring and accountability

17.18 By 2020, enhance capacity-building support to developing countries, including for least developed countries and small island developing States, to increase significantly the availability of high-quality, timely and reliable data disaggregated by income, gender, age, race, ethnicity, migratory status, disability, geographic location and other characteristics relevant in national contexts

17.19 By 2030, build on existing initiatives to develop measurements of progress on sustainable development that complement gross domestic product, and support statistical capacity-building in developing countries

Means of implementation and the Global Partnership

60. We reaffirm our strong commitment to the full implementation of this new Agenda. We recognize that we will not be able to achieve our ambitious Goals and targets without a revitalized and enhanced Global Partnership and comparably ambitious means of implementation. The revitalized Global Partnership will facilitate an intensive global engagement in support of implementation of all the Goals and targets, bringing together Governments, civil society, the private sector, the United Nations system and other actors and mobilizing all available resources.

61. The Agenda's Goals and targets deal with the means required to realize our collective ambitions. The means of implementation targets under each Sustainable Development Goal and Goal 17, which are referred to above, are key to realizing our Agenda and are of equal importance with the other Goals and targets. We shall accord them equal priority in our implementation efforts and in the global indicator framework for monitoring our progress.

62. This Agenda, including the Sustainable Development Goals, can be met within the framework of a revitalized Global Partnership for Sustainable Development, supported by the

concrete policies and actions outlined in the Addis Ababa Action Agenda,³ which is an integral part of the 2030 Agenda for Sustainable Development. The Addis Ababa Action Agenda supports, complements and helps to contextualize the 2030 Agenda's means of implementation targets. It relates to domestic public resources, domestic and international private business and finance, international development cooperation, international trade as an engine for development, debt and debt sustainability, addressing systemic issues and science, technology, innovation and capacity-building, and data, monitoring and follow-up.

63. Cohesive nationally owned sustainable development strategies, supported by integrated national financing frameworks, will be at the heart of our efforts. We reiterate that each country has primary responsibility for its own economic and social development and that the role of national policies and development strategies cannot be overemphasized. We will respect each country's policy space and leadership to implement policies for poverty eradication and sustainable development, while remaining consistent with relevant international rules and commitments. At the same time, national development efforts need to be supported by an enabling international economic environment, including coherent and mutually supporting world trade, monetary and financial systems, and strengthened and enhanced global economic governance. Processes to develop and facilitate the availability of appropriate knowledge and technologies globally, as well as capacity-building, are also critical. We commit to pursuing policy coherence and an enabling environment for sustainable development at all levels and by all actors, and to reinvigorating the Global Partnership for Sustainable Development.

64. We support the implementation of relevant strategies and programmes of action, including the Istanbul Declaration and Programme of Action, the SIDS Accelerated Modalities of Action (SAMOA) Pathway and the Vienna Programme of Action for Landlocked Developing Countries for the Decade 2014-2024, and reaffirm the importance of supporting the African Union's Agenda 2063 and the programme of the New Partnership for Africa's Development, all of which are integral to the new Agenda. We recognize the major challenge to the achievement of durable peace and sustainable development in countries in conflict and post-conflict situations.

65. We recognize that middle-income countries still face significant challenges to achieve sustainable development. In order to ensure that achievements made to date are sustained, efforts to address ongoing challenges should be strengthened through the exchange of experiences, improved coordination, and better and focused support of the United Nations development system, the international financial institutions, regional organizations and other stakeholders.

66. We underscore that, for all countries, public policies and the mobilization and effective use of domestic resources, underscored by the principle of national ownership, are central to our common pursuit of sustainable development, including achieving the Sustainable

³ The Addis Ababa Action Agenda of the Third International Conference on Financing for Development (Addis Ababa Action Agenda), adopted by the General Assembly on 27 July 2015 (resolution 69/313).

Development Goals. We recognize that domestic resources are first and foremost generated by economic growth, supported by an enabling environment at all levels.

67. Private business activity, investment and innovation are major drivers of productivity, inclusive economic growth and job creation. We acknowledge the diversity of the private sector, ranging from micro-enterprises to cooperatives to multinationals. We call upon all businesses to apply their creativity and innovation to solving sustainable development challenges. We will foster a dynamic and well-functioning business sector, while protecting labour rights and environmental and health standards in accordance with relevant international standards and agreements and other ongoing initiatives in this regard, such as the Guiding Principles on Business and Human Rights and the labour standards of the International Labour Organization, the Convention on the Rights of the Child and key multilateral environmental agreements, for parties to those agreements.

68. International trade is an engine for inclusive economic growth and poverty reduction, and contributes to the promotion of sustainable development. We will continue to promote a universal, rules-based, open, transparent, predictable, inclusive, non-discriminatory and equitable multilateral trading system under the World Trade Organization, as well as meaningful trade liberalization. We call upon all members of the World Trade Organization to redouble their efforts to promptly conclude the negotiations on the Doha Development Agenda. We attach great importance to providing trade-related capacity-building for developing countries, including African countries, least developed countries, landlocked developing countries, small island developing States and middle-income countries, including for the promotion of regional economic integration and interconnectivity.

69. We recognize the need to assist developing countries in attaining long-term debt sustainability through coordinated policies aimed at fostering debt financing, debt relief, debt restructuring and sound debt management, as appropriate. Many countries remain vulnerable to debt crises and some are in the midst of crises, including a number of least developed countries, small island developing States and some developed countries. We reiterate that debtors and creditors must work together to prevent and resolve unsustainable debt situations. Maintaining sustainable debt levels is the responsibility of the borrowing countries; however we acknowledge that lenders also have a responsibility to lend in a way that does not undermine a country's debt sustainability. We will support the maintenance of debt sustainability of those countries that have received debt relief and achieved sustainable debt levels.

70. We hereby launch a Technology Facilitation Mechanism which was established by the Addis Ababa Action Agenda in order to support the Sustainable Development Goals. The Technology Facilitation Mechanism will be based on a multi-stakeholder collaboration between Member States, civil society, the private sector, the scientific community, United Nations entities and other stakeholders and will be composed of a United Nations inter-agency task team on science, technology and innovation for the Sustainable Development Goals, a collaborative multi-stakeholder forum on science, technology and innovation for the Sustainable Development Goals and an online platform.

- The United Nations inter-agency task team on science, technology and innovation for the Sustainable Development Goals will promote coordination, coherence and cooperation within the United Nations system on science, technology and innovation-related matters, enhancing synergy and efficiency, in particular to enhance capacity-building initiatives. The task team will draw on existing resources and will work with 10 representatives from civil society, the private sector and the scientific community to prepare the meetings of the multi-stakeholder forum on science, technology and innovation for the Sustainable Development Goals, as well as in the development and operationalization of the online platform, including preparing proposals for the modalities for the forum and the online platform. The 10 representatives will be appointed by the Secretary-General, for periods of two years. The task team will be open to the participation of all United Nations agencies, funds and programmes and the functional commissions of the Economic and Social Council and it will initially be composed of the entities that currently integrate the informal working group on technology facilitation, namely, the Department of Economic and Social Affairs of the Secretariat, the United Nations Environment Programme, the United Nations Industrial Development Organization, the United Nations Educational, Scientific and Cultural Organization, the United Nations Conference on Trade and Development, the International Telecommunication Union, the World Intellectual Property Organization and the World Bank.
- The online platform will be used to establish a comprehensive mapping of, and serve as a gateway for, information on existing science, technology and innovation initiatives, mechanisms and programmes, within and beyond the United Nations. The online platform will facilitate access to information, knowledge and experience, as well as best practices and lessons learned, on science, technology and innovation facilitation initiatives and policies. The online platform will also facilitate the dissemination of relevant open access scientific publications generated worldwide. The online platform will be developed on the basis of an independent technical assessment which will take into account best practices and lessons learned from other initiatives, within and beyond the United Nations, in order to ensure that it will complement, facilitate access to and provide adequate information on existing science, technology and innovation platforms, avoiding duplications and enhancing synergies.
- The multi-stakeholder forum on science, technology and innovation for the Sustainable Development Goals will be convened once a year, for a period of two days, to discuss science, technology and innovation cooperation around thematic areas for the implementation of the Sustainable Development Goals, congregating all relevant stakeholders to actively contribute in their area of expertise. The forum will provide a venue for facilitating interaction, matchmaking and the establishment of networks between relevant stakeholders and multi-stakeholder partnerships in order to identify and examine technology needs and gaps, including on scientific cooperation, innovation and capacity-building, and also in order to help to facilitate development, transfer and dissemination of relevant technologies for the Sustainable Development Goals. The meetings of the forum will be convened by the President of the Economic and Social

Council before the meeting of the high-level political forum under the auspices of the Council or, alternatively, in conjunction with other forums or conferences, as appropriate, taking into account the theme to be considered and on the basis of a collaboration with the organizers of the other forums or conferences. The meetings of the forum will be co-chaired by two Member States and will result in a summary of discussions elaborated by the two co-Chairs, as an input to the meetings of the high-level political forum, in the context of the follow-up and review of the implementation of the post-2015 development agenda.

- The meetings of the high-level political forum will be informed by the summary of the multi-stakeholder forum. The themes for the subsequent multi-stakeholder forum on science, technology and innovation for the Sustainable Development Goals will be considered by the high-level political forum on sustainable development, taking into account expert inputs from the task team.

71. We reiterate that this Agenda and the Sustainable Development Goals and targets, including the means of implementation, are universal, indivisible and interlinked.

Follow-up and review

72. We commit to engaging in systematic follow-up and review of the implementation of this Agenda over the next 15 years. A robust, voluntary, effective, participatory, transparent and integrated follow-up and review framework will make a vital contribution to implementation and will help countries to maximize and track progress in implementing this Agenda in order to ensure that no one is left behind.

73. Operating at the national, regional and global levels, it will promote accountability to our citizens, support effective international cooperation in achieving this Agenda and foster exchanges of best practices and mutual learning. It will mobilize support to overcome shared challenges and identify new and emerging issues. As this is a universal Agenda, mutual trust and understanding among all nations will be important.

74. Follow-up and review processes at all levels will be guided by the following principles:

(a) They will be voluntary and country-led, will take into account different national realities, capacities and levels of development and will respect policy space and priorities. As national ownership is key to achieving sustainable development, the outcome from national-level processes will be the foundation for reviews at the regional and global levels, given that the global review will be primarily based on national official data sources.

(b) They will track progress in implementing the universal Goals and targets, including the means of implementation, in all countries in a manner which respects their universal, integrated and interrelated nature and the three dimensions of sustainable development.

(c) They will maintain a longer-term orientation, identify achievements, challenges, gaps and critical success factors and support countries in making informed policy choices. They will help to mobilize the necessary means of implementation and partnerships, support

the identification of solutions and best practices and promote the coordination and effectiveness of the international development system.

(d) They will be open, inclusive, participatory and transparent for all people and will support reporting by all relevant stakeholders.

(e) They will be people-centred, gender-sensitive, respect human rights and have a particular focus on the poorest, most vulnerable and those furthest behind.

(f) They will build on existing platforms and processes, where these exist, avoid duplication and respond to national circumstances, capacities, needs and priorities. They will evolve over time, taking into account emerging issues and the development of new methodologies, and will minimize the reporting burden on national administrations.

(g) They will be rigorous and based on evidence, informed by country-led evaluations and data which is high-quality, accessible, timely, reliable and disaggregated by income, sex, age, race, ethnicity, migration status, disability and geographic location and other characteristics relevant in national contexts.

(h) They will require enhanced capacity-building support for developing countries, including the strengthening of national data systems and evaluation programmes, particularly in African countries, least developed countries, small island developing States, landlocked developing countries and middle-income countries.

(i) They will benefit from the active support of the United Nations system and other multilateral institutions.

75. The Goals and targets will be followed up and reviewed using a set of global indicators. These will be complemented by indicators at the regional and national levels which will be developed by Member States, in addition to the outcomes of work undertaken for the development of the baselines for those targets where national and global baseline data does not yet exist. The global indicator framework, to be developed by the Inter-Agency and Expert Group on Sustainable Development Goal Indicators, will be agreed by the Statistical Commission by March 2016 and adopted thereafter by the Economic and Social Council and the General Assembly, in line with existing mandates. This framework will be simple yet robust, address all Sustainable Development Goals and targets, including for means of implementation, and preserve the political balance, integration and ambition contained therein.

76. We will support developing countries, particularly African countries, least developed countries, small island developing States and landlocked developing countries, in strengthening the capacity of national statistical offices and data systems to ensure access to high-quality, timely, reliable and disaggregated data. We will promote transparent and accountable scaling-up of appropriate public-private cooperation to exploit the contribution to be made by a wide range of data, including earth observation and geospatial information, while ensuring national ownership in supporting and tracking progress.

77. We commit to fully engage in conducting regular and inclusive reviews of progress at the subnational, national, regional and global levels. We will draw as far as possible on the

existing network of follow-up and review institutions and mechanisms. National reports will allow assessments of progress and identify challenges at the regional and global level. Along with regional dialogues and global reviews, they will inform recommendations for follow-up at various levels.

National level

78. We encourage all Member States to develop as soon as practicable ambitious national responses to the overall implementation of this Agenda. These can support the transition to the Sustainable Development Goals and build on existing planning instruments, such as national development and sustainable development strategies, as appropriate.

79. We also encourage Member States to conduct regular and inclusive reviews of progress at the national and subnational levels which are country-led and country-driven. Such reviews should draw on contributions from indigenous peoples, civil society, the private sector and other stakeholders, in line with national circumstances, policies and priorities. National parliaments as well as other institutions can also support these processes.

Regional level

80. Follow-up and review at the regional and subregional levels can, as appropriate, provide useful opportunities for peer learning, including through voluntary reviews, sharing of best practices and discussion on shared targets. We welcome in this respect the cooperation of regional and subregional commissions and organizations. Inclusive regional processes will draw on national-level reviews and contribute to follow-up and review at the global level, including at the high-level political forum on sustainable development.

81. Recognizing the importance of building on existing follow-up and review mechanisms at the regional level and allowing adequate policy space, we encourage all Member States to identify the most suitable regional forum in which to engage. United Nations regional commissions are encouraged to continue supporting Member States in this regard.

Global level

82. The high-level political forum will have a central role in overseeing a network of follow-up and review processes at the global level, working coherently with the General Assembly, the Economic and Social Council and other relevant organs and forums, in accordance with existing mandates. It will facilitate sharing of experiences, including successes, challenges and lessons learned, and provide political leadership, guidance and recommendations for follow-up. It will promote system-wide coherence and coordination of sustainable development policies. It should ensure that the Agenda remains relevant and ambitious and should focus on the assessment of progress, achievements and challenges faced by developed and developing countries as well as new and emerging issues. Effective linkages will be made with the follow-up and review arrangements of all relevant United Nations conferences and processes, including on least developed countries, small island developing States and landlocked developing countries.

83. Follow-up and review at the high-level political forum will be informed by an annual progress report on the Sustainable Development Goals to be prepared by the Secretary-General in cooperation with the United Nations system, based on the global indicator framework and data produced by national statistical systems and information collected at the regional level. The high-level political forum will also be informed by the *Global Sustainable Development Report*, which shall strengthen the science-policy interface and could provide a strong evidence-based instrument to support policymakers in promoting poverty eradication and sustainable development. We invite the President of the Economic and Social Council to conduct a process of consultations on the scope, methodology and frequency of the global report as well as its relation to the progress report, the outcome of which should be reflected in the ministerial declaration of the session of the high-level political forum in 2016.

84. The high-level political forum, under the auspices of the Economic and Social Council, shall carry out regular reviews, in line with General Assembly resolution 67/290 of 9 July 2013. Reviews will be voluntary, while encouraging reporting, and include developed and developing countries as well as relevant United Nations entities and other stakeholders, including civil society and the private sector. They shall be State-led, involving ministerial and other relevant high-level participants. They shall provide a platform for partnerships, including through the participation of major groups and other relevant stakeholders.

85. Thematic reviews of progress on the Sustainable Development Goals, including cross-cutting issues, will also take place at the high-level political forum. These will be supported by reviews by the functional commissions of the Economic and Social Council and other intergovernmental bodies and forums which should reflect the integrated nature of the Goals as well as the interlinkages between them. They will engage all relevant stakeholders and, where possible, feed into, and be aligned with, the cycle of the high-level political forum.

86. We welcome, as outlined in the Addis Ababa Action Agenda, the dedicated follow-up and review for the financing for development outcomes as well as all the means of implementation of the Sustainable Development Goals which is integrated with the follow-up and review framework of this Agenda. The intergovernmentally agreed conclusions and recommendations of the annual Economic and Social Council forum on financing for development will be fed into the overall follow-up and review of the implementation of this Agenda in the high-level political forum.

87. Meeting every four years under the auspices of the General Assembly, the high-level political forum will provide high-level political guidance on the Agenda and its implementation, identify progress and emerging challenges and mobilize further actions to accelerate implementation. The next high-level political forum under the auspices of the General Assembly will be held in 2019, with the cycle of meetings thus reset, in order to maximize coherence with the quadrennial comprehensive policy review process.

88. We also stress the importance of system-wide strategic planning, implementation and reporting in order to ensure coherent and integrated support to the implementation of the new Agenda by the United Nations development system. The relevant governing bodies should take action to review such support to implementation and to report on progress and obstacles. We welcome the ongoing dialogue in the Economic and Social Council on the

longer-term positioning of the United Nations development system and look forward to taking action on these issues, as appropriate.

89. The high-level political forum will support participation in follow-up and review processes by the major groups and other relevant stakeholders in line with resolution 67/290. We call upon those actors to report on their contribution to the implementation of the Agenda.

90. We request the Secretary-General, in consultation with Member States, to prepare a report, for consideration at the seventieth session of the General Assembly in preparation for the 2016 meeting of the high-level political forum, which outlines critical milestones towards coherent, efficient and inclusive follow-up and review at the global level. The report should include a proposal on the organizational arrangements for State-led reviews at the high-level political forum under the auspices of the Economic and Social Council, including recommendations on voluntary common reporting guidelines. It should clarify institutional responsibilities and provide guidance on annual themes, on a sequence of thematic reviews, and on options for periodic reviews for the high-level political forum.

91. We reaffirm our unwavering commitment to achieving this Agenda and utilizing it to the full to transform our world for the better by 2030.



United Nations

**SECRETARY-
PRESS RELEASE****GENERAL » STATEMENTS AND
MESSAGES****SG/SM/20847
9 AUGUST 2021****Secretary-General Calls Latest IPCC Climate Report ‘Code Red for Humanity’, Stressing ‘Irrefutable’ Evidence of Human Influence**

Following is UN Secretary-General António Guterres’ statement on the Intergovernmental Panel on Climate Change (IPCC) Working Group 1 report on the physical science basis of the sixth assessment, today:

Today’s IPCC Working Group 1 report is a code red for humanity. The alarm bells are deafening, and the evidence is irrefutable: greenhouse-gas emissions from fossil-fuel burning and deforestation are choking our planet and putting billions of people at immediate risk. Global heating is affecting every region on Earth, with many of the changes becoming irreversible.

The internationally agreed threshold of 1.5°C is perilously close. We are at imminent risk of hitting 1.5°C in the near term. The only way to prevent exceeding this threshold is by urgently stepping up our efforts and pursuing the most ambitious path.

We must act decisively now to keep 1.5°C alive. We are already at 1.2°C and rising. Warming has accelerated in recent decades. Every fraction of a degree counts. Greenhouse-gas concentrations are at record levels. Extreme weather and climate disasters are increasing in frequency and intensity. That is why this year’s United Nations climate conference in Glasgow is so important.

The viability of our societies depends on leaders from government, business and civil society uniting behind policies, actions and investments that will limit temperature rise to 1.5°C. We owe this to the entire human family, especially the poorest and most vulnerable communities and nations that are the hardest hit despite being least responsible for today’s climate emergency.

The solutions are clear. Inclusive and green economies, prosperity, cleaner air and better health are possible for all if we respond to this crisis with solidarity and courage. All nations, especially the G20 and other major emitters, need to join the net-zero emissions coalition and reinforce their commitments with credible, concrete and enhanced nationally determined contributions and policies before COP26 in Glasgow.

We need immediate action on energy. Without deep carbon pollution cuts now, the 1.5°C goal will fall quickly out of reach. This report must sound a death knell for coal and fossil fuels, before they destroy our planet. There must be no new coal plants built after 2021. OECD [Organisation for Economic Co-operation and Development] countries must phase out existing coal by 2030, with all others following suit by 2040. Countries should also end all new fossil fuel exploration and production, and shift fossil-fuel subsidies into renewable energy. By 2030, solar and wind capacity should quadruple and renewable energy investments should triple to maintain a net-zero trajectory by mid-century.

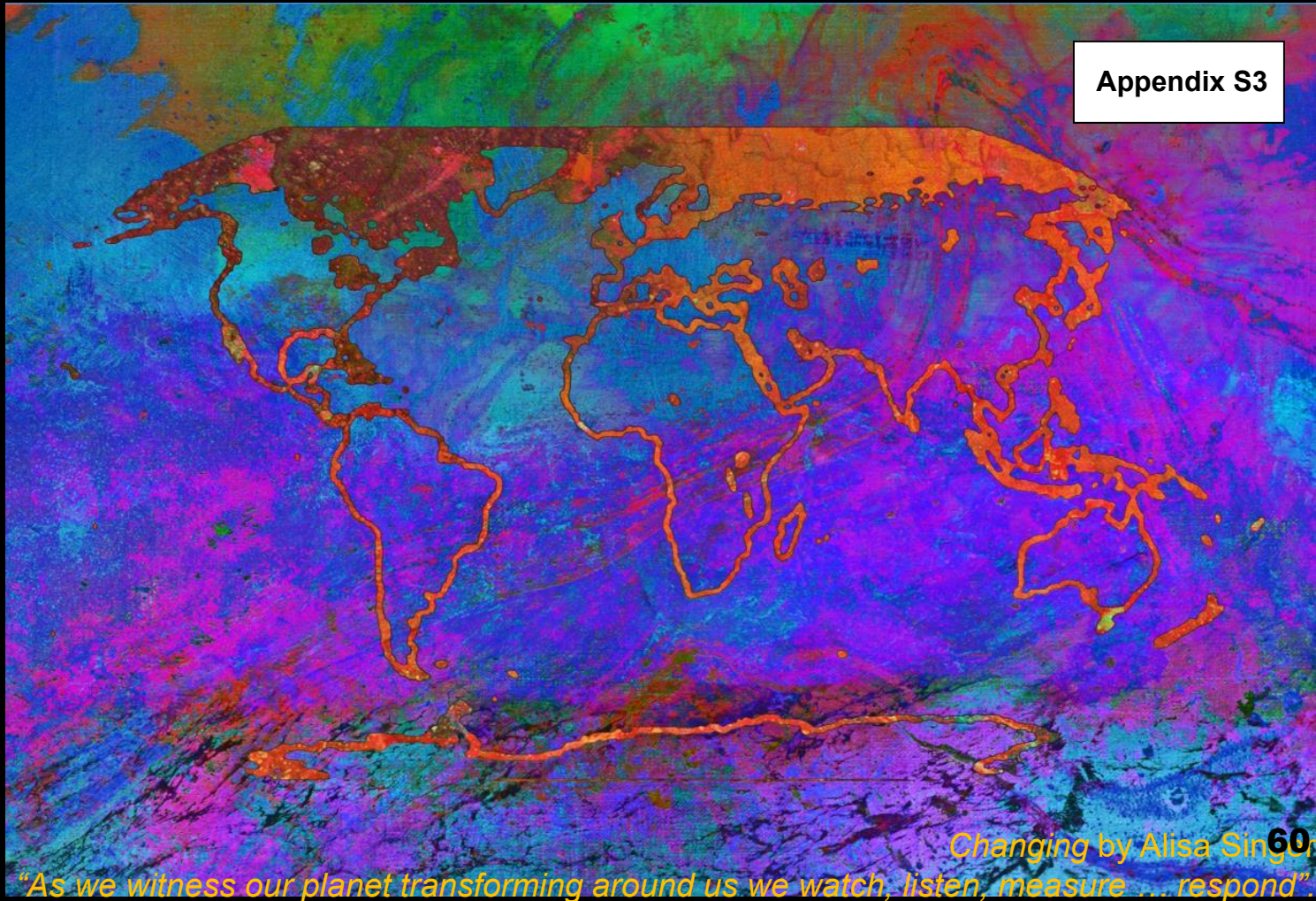
Climate impacts will undoubtedly worsen. There is a clear moral and economic imperative to protect the lives and livelihoods of those on the front lines of the climate crisis. Adaptation and resilience finance must cease being the neglected half of the climate equation. Only 21 per cent of climate support is directed towards adaptation. I again call on donors and the multilateral development banks to allocate at least 50 per cent of all public climate finance to protecting people, especially women and vulnerable groups. COVID-19 recovery spending must be aligned with the goals of the Paris Agreement. And the decade-old promise to mobilize \$100 billion annually to support mitigation and adaptation in developing countries must be met.

The climate crisis poses enormous financial risk to investment managers, asset owners and businesses. These risks should be measured, disclosed and mitigated. I am asking corporate leaders to support a minimum international carbon price and align their portfolios with the Paris Agreement. The public and private sector must work together to ensure a just and rapid transformation to a net-zero global economy.

If we combine forces now, we can avert climate catastrophe. But, as today's report makes clear, there is no time for delay and no room for excuses. I count on Government leaders and all stakeholders to ensure COP26 is a success.

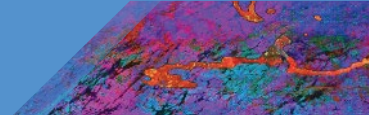
For information media. Not an official record.

Appendix S3



Changing by Alisa Singh 60

"As we witness our planet transforming around us we watch, listen, measure ... respond"



BY THE NUMBERS



14,000 scientific publications assessed

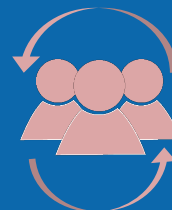


Author Team

234 authors from **65** countries

28% women, **72%** men

63% first-time IPCC authors



Review Process

78,000+ review comments

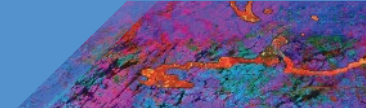
46 countries commented on Final

Government Distribution

SIXTH ASSESSMENT REPORT

Working Group I – The Physical Science Basis

ipcc
INTERGOVERNMENTAL PANEL ON climate change



Working Group I eLAM | 15 –19 February 2021

The Sixth Assessment Report #AR6



ipcc
INTERGOVERNMENTAL PANEL ON
climate change



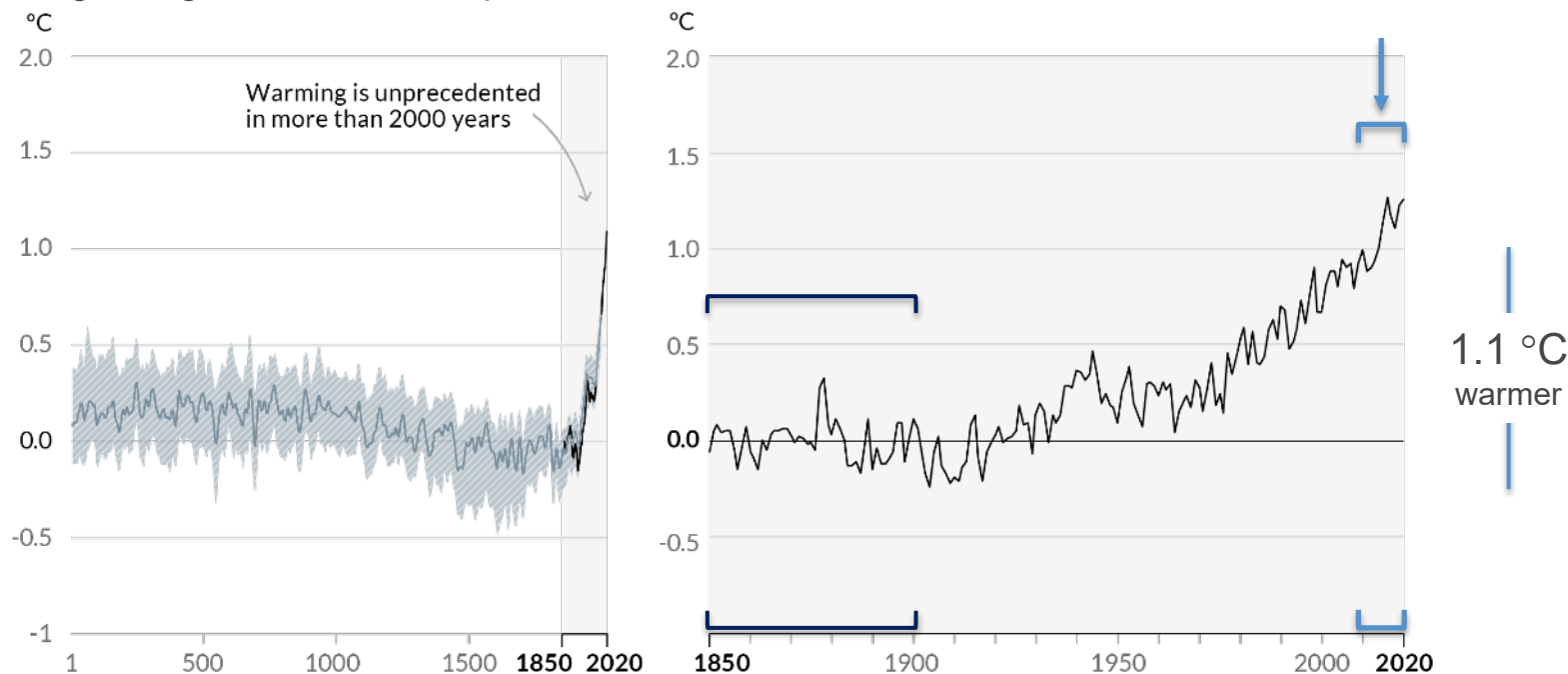


[Credit: NASA]

“Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years.

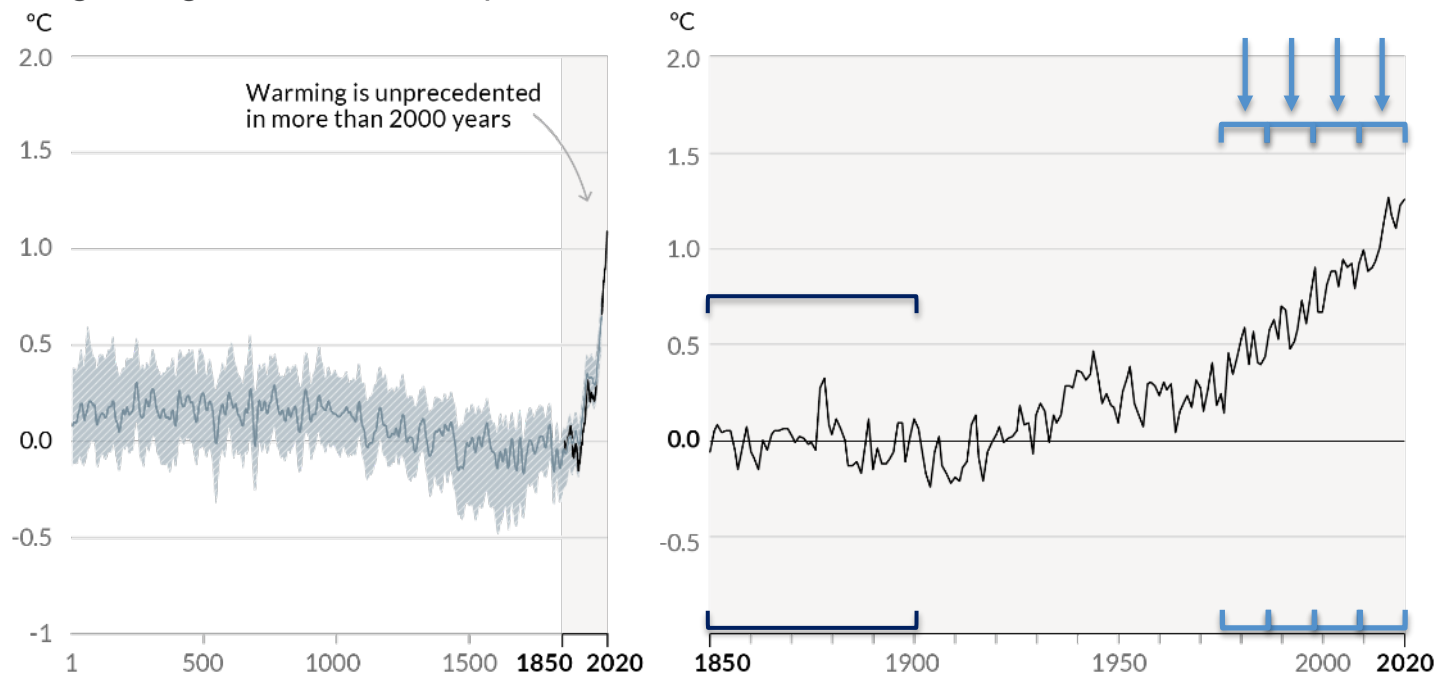
Human influence has warmed the climate at a rate that is unprecedented in at least the last 2000 years

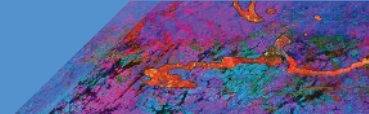
Changes in global surface temperature relative to 1850-1900



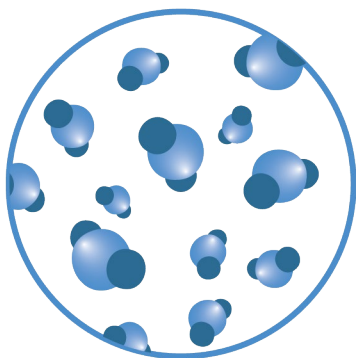
Human influence has warmed the climate at a rate that is unprecedented in at least the last 2000 years

Changes in global surface temperature relative to 1850-1900





CO₂
concentration



Highest

in at least

2 million years

Sea level
rise



Fastest rates

in at least

3000 years

Arctic sea ice
area



Lowest level

in at least

1000 years

Glaciers
retreat



Unprecedented

in at least

2000 years



Extreme heat

More frequent

More intense



Heavy rainfall

More frequent

More intense



Drought

Increase in some
regions



Fire weather

More frequent



Ocean

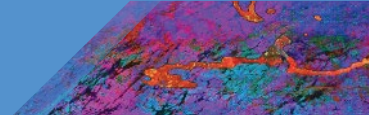
Warming
Acidifying

Losing oxygen

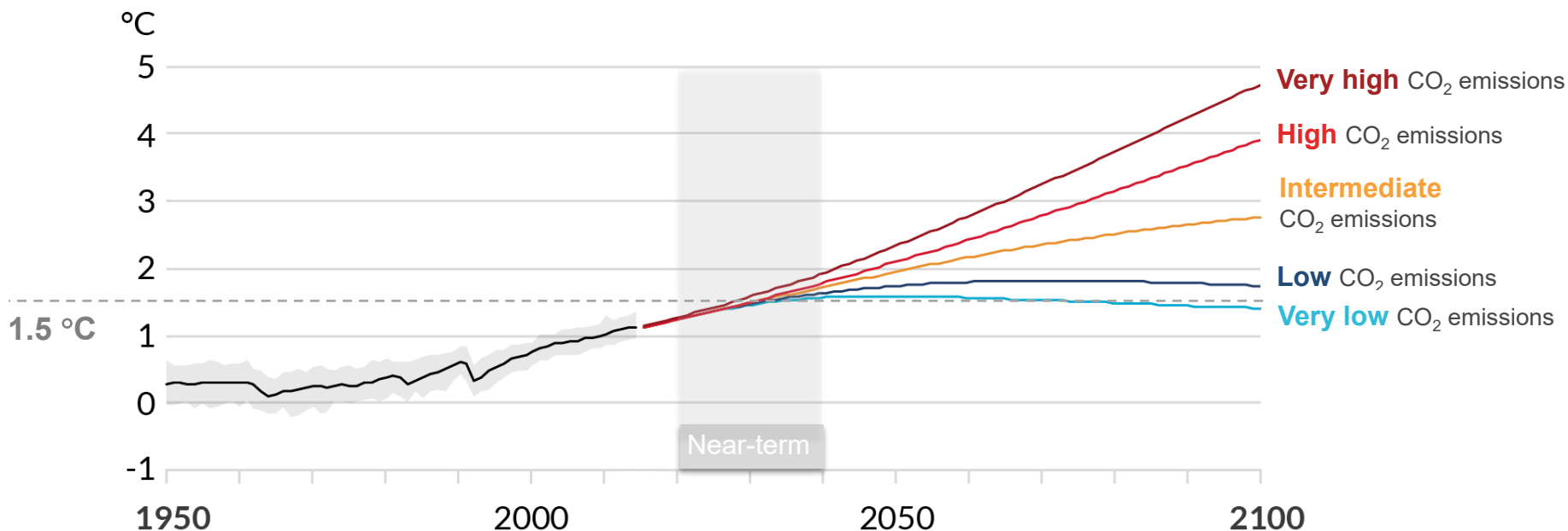


[Credit: Peter John Maridable]

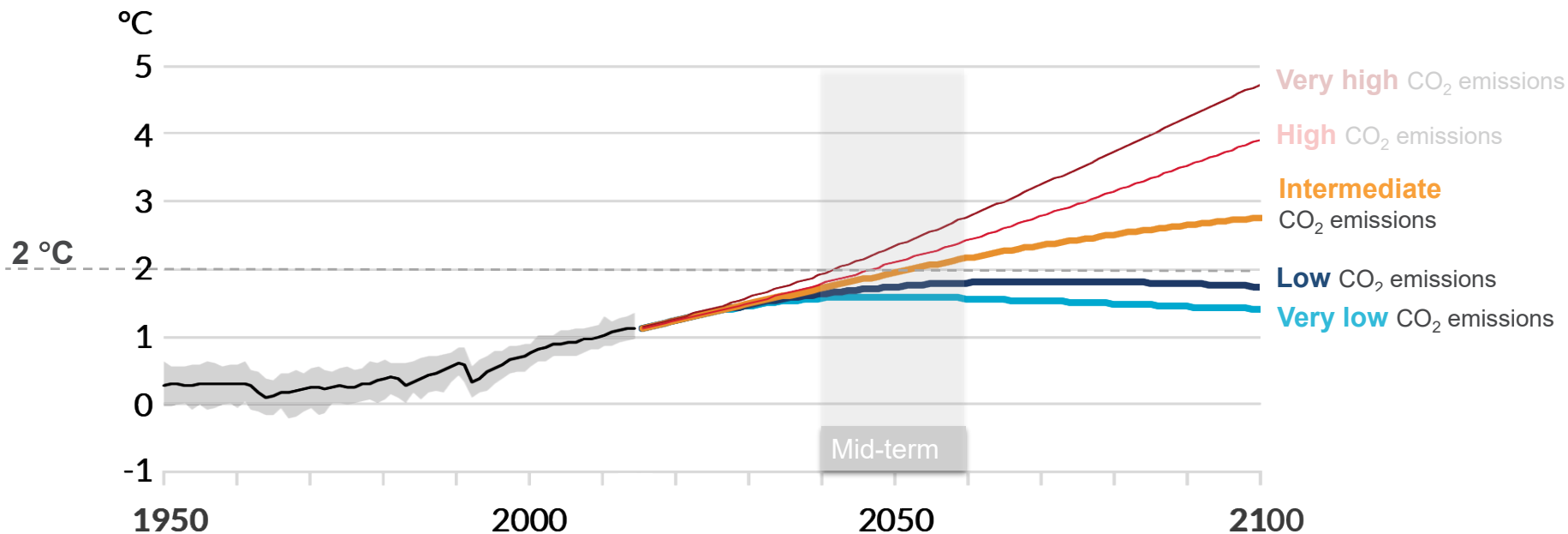
“ Unless there are immediate, rapid, and large-scale reductions in greenhouse gas emissions, limiting warming to 1.5°C will be beyond reach.



Future emissions cause future additional warming



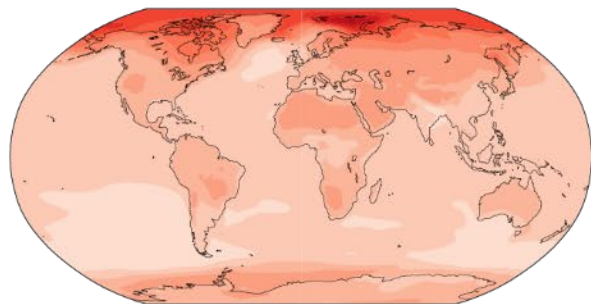
Future emissions cause future additional warming



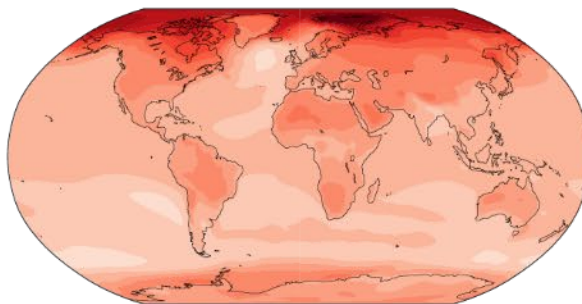
With every additional amount of global warming, changes get larger.

Simulated changes...

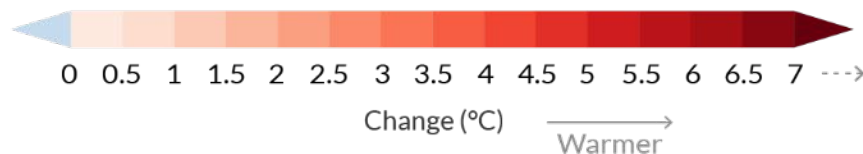
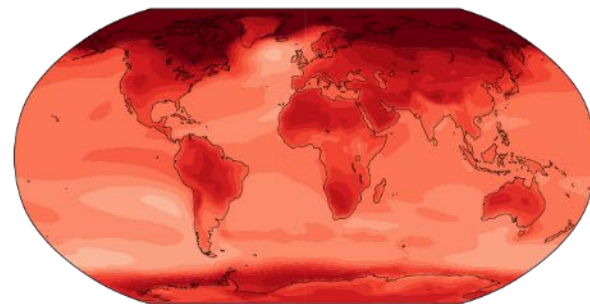
...at 1.5°C



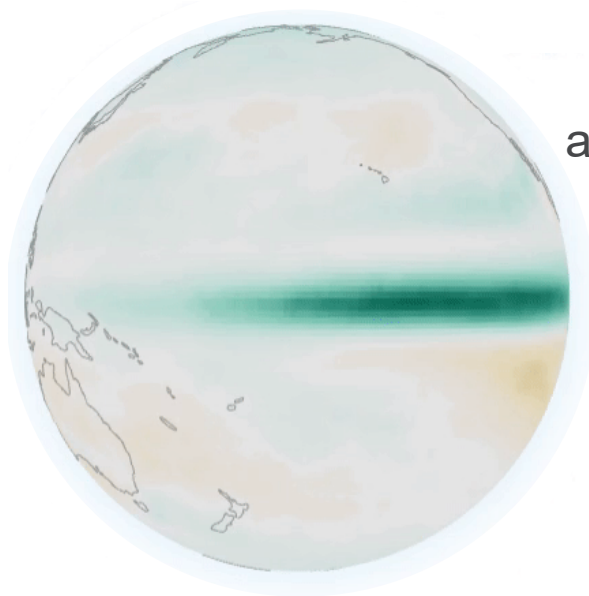
...at 2°C



...at 4°C



With every additional amount of global warming, changes get larger.



at 1.5°C
at 2°C

Extreme rainfall intensifies by 7% for each additional 1°C

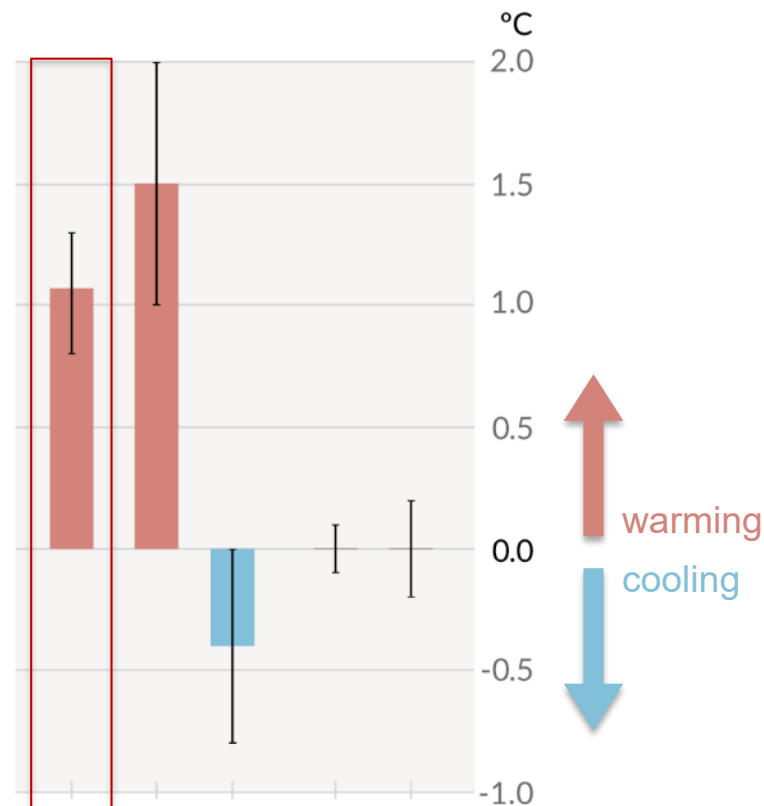
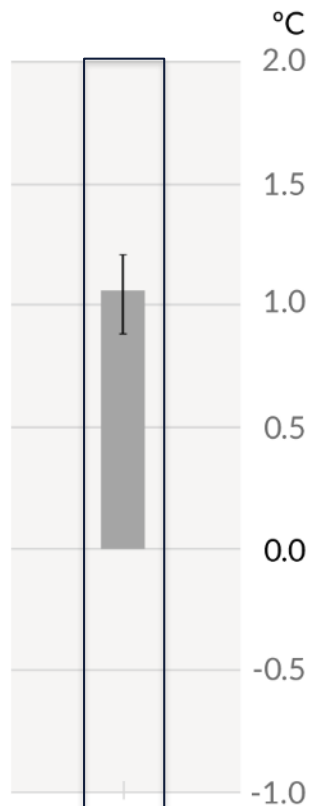


[Credit: Yoda Adaman | Unsplash]

“ It is indisputable that human activities are causing climate change, making extreme climate events, including heat waves, heavy rainfall, and droughts, more frequent and severe.

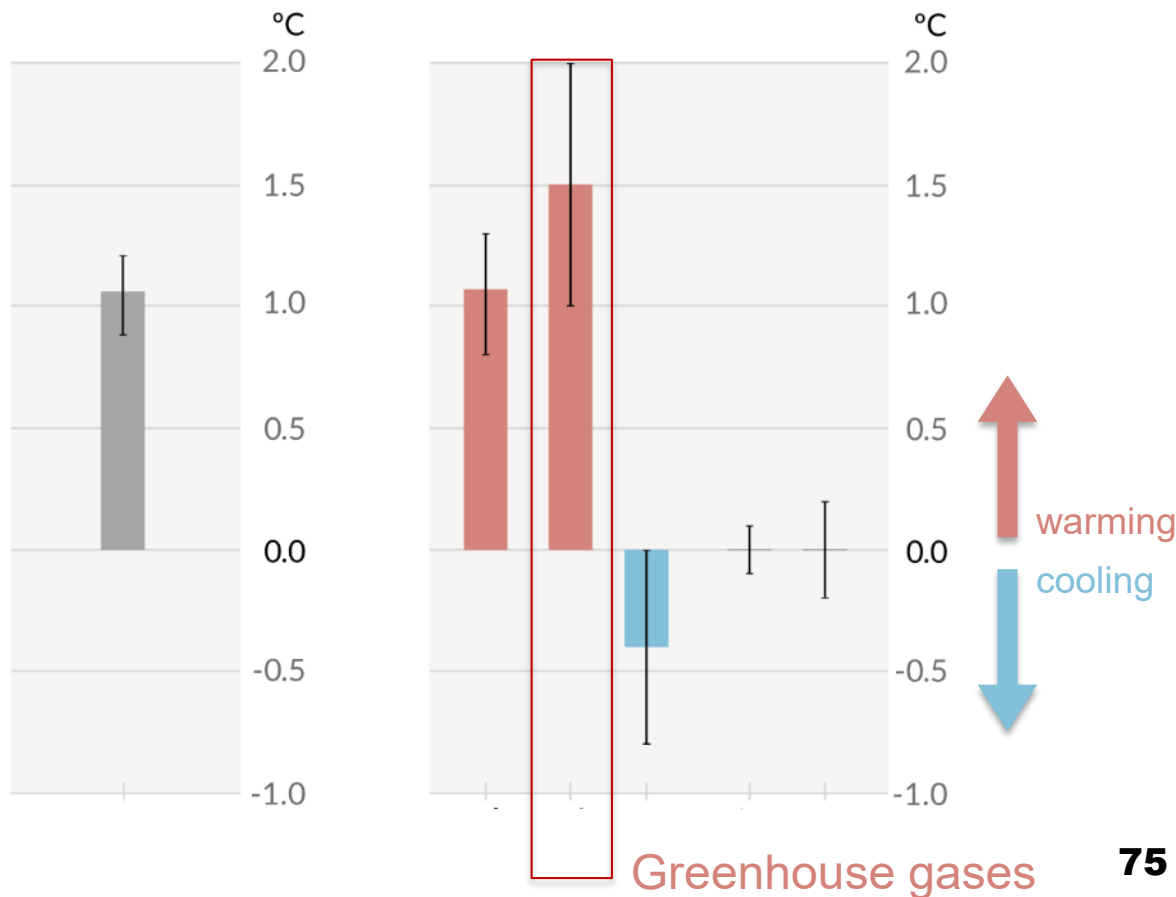
Observed warming
is driven by emissions
from **human**
activities, with
greenhouse gas
warming partly
masked by **aerosol**
cooling

Observed warming

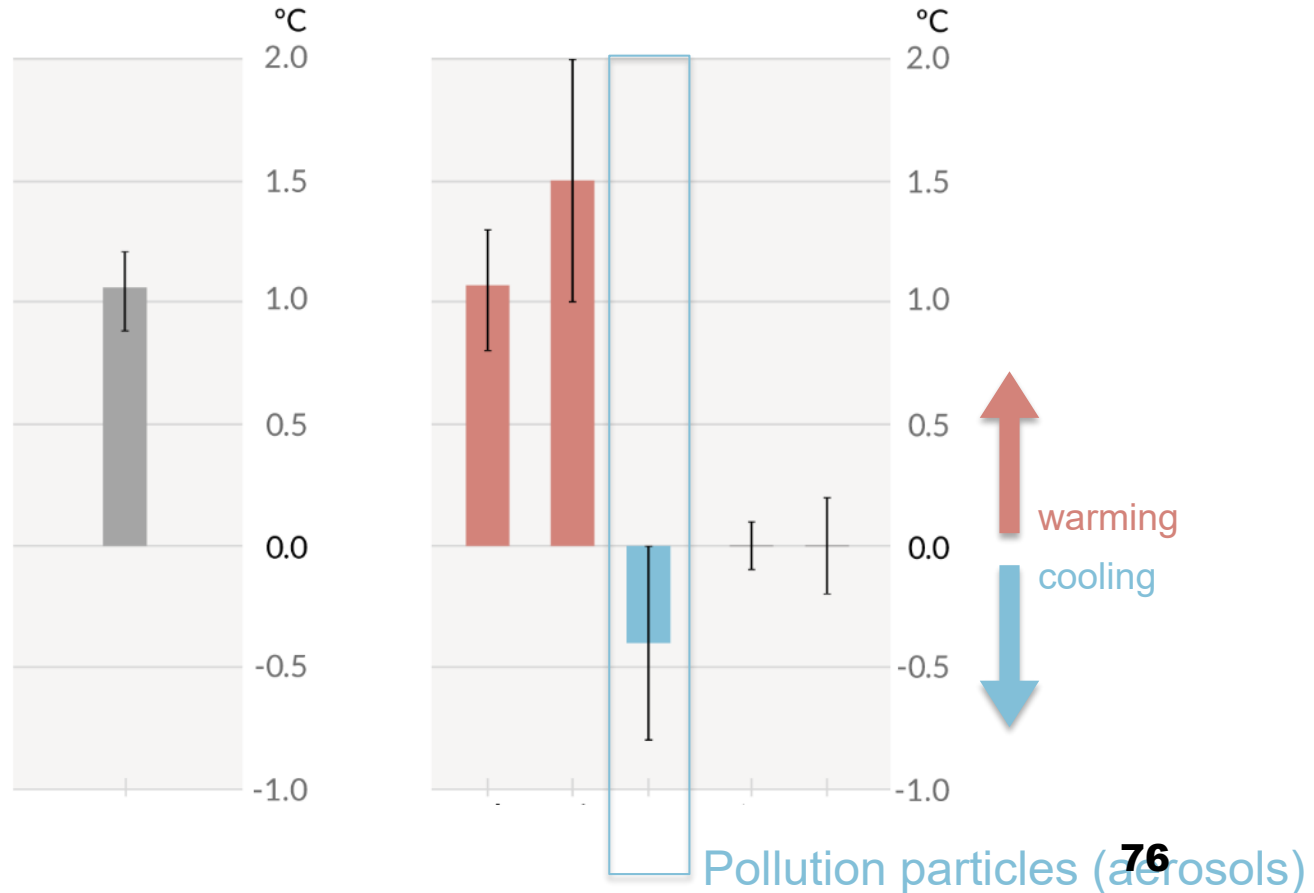


Total human influence

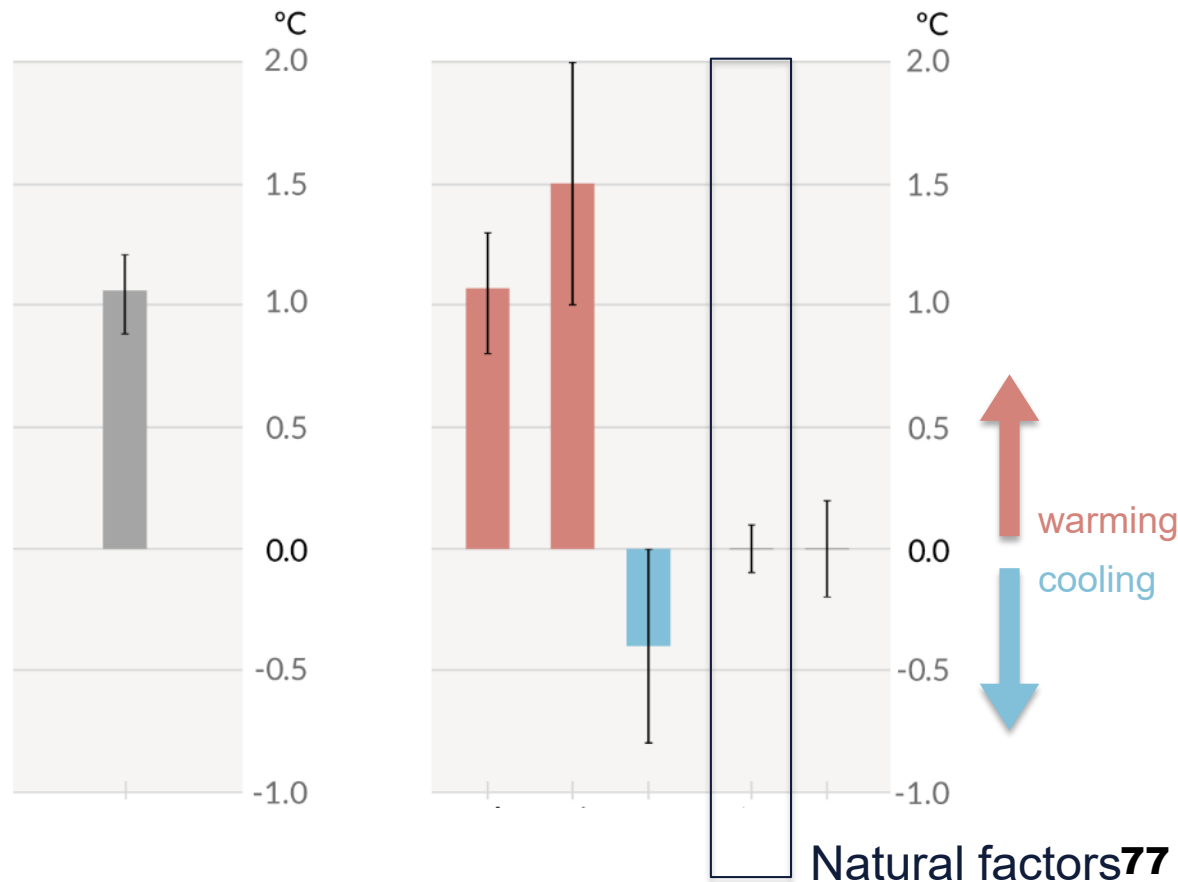
Observed warming
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greenhouse gas
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cooling



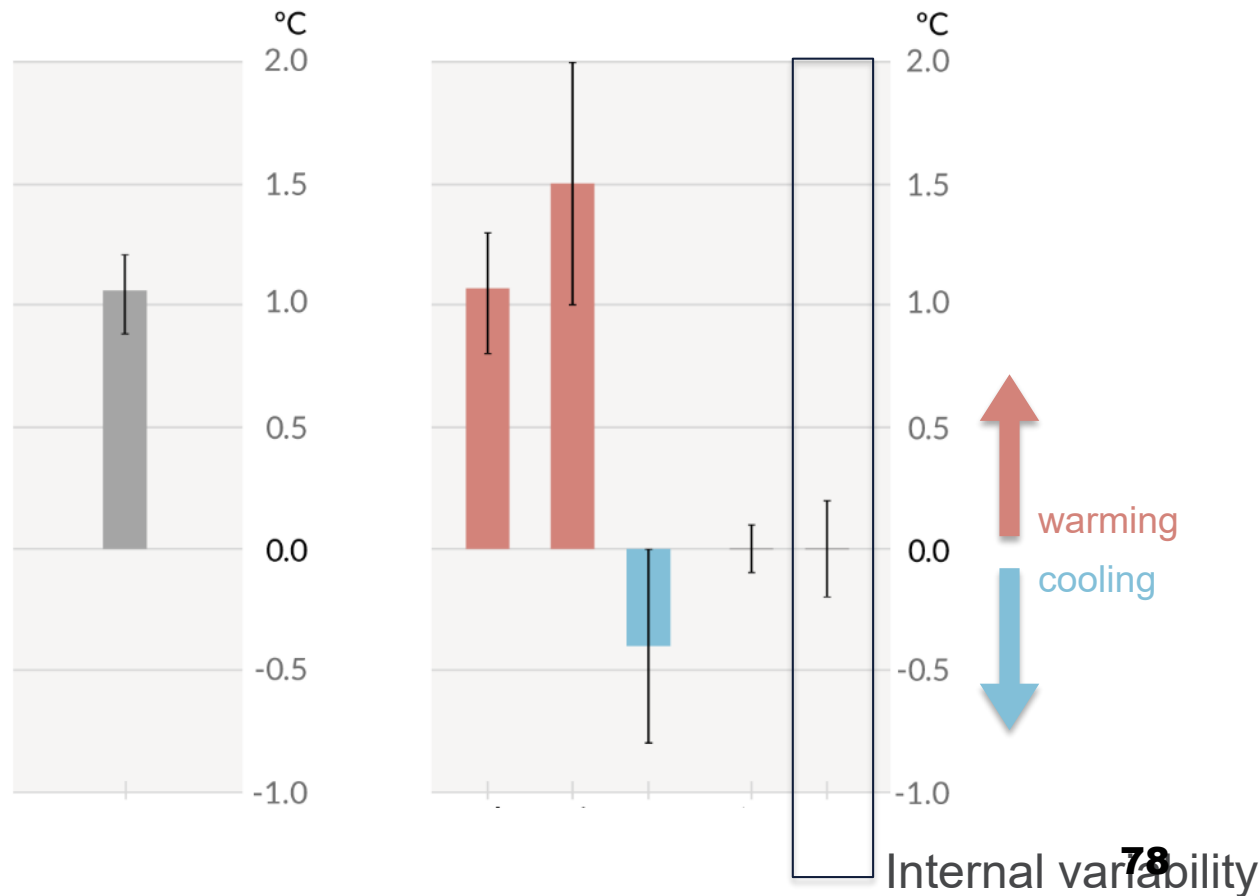
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Observed warming
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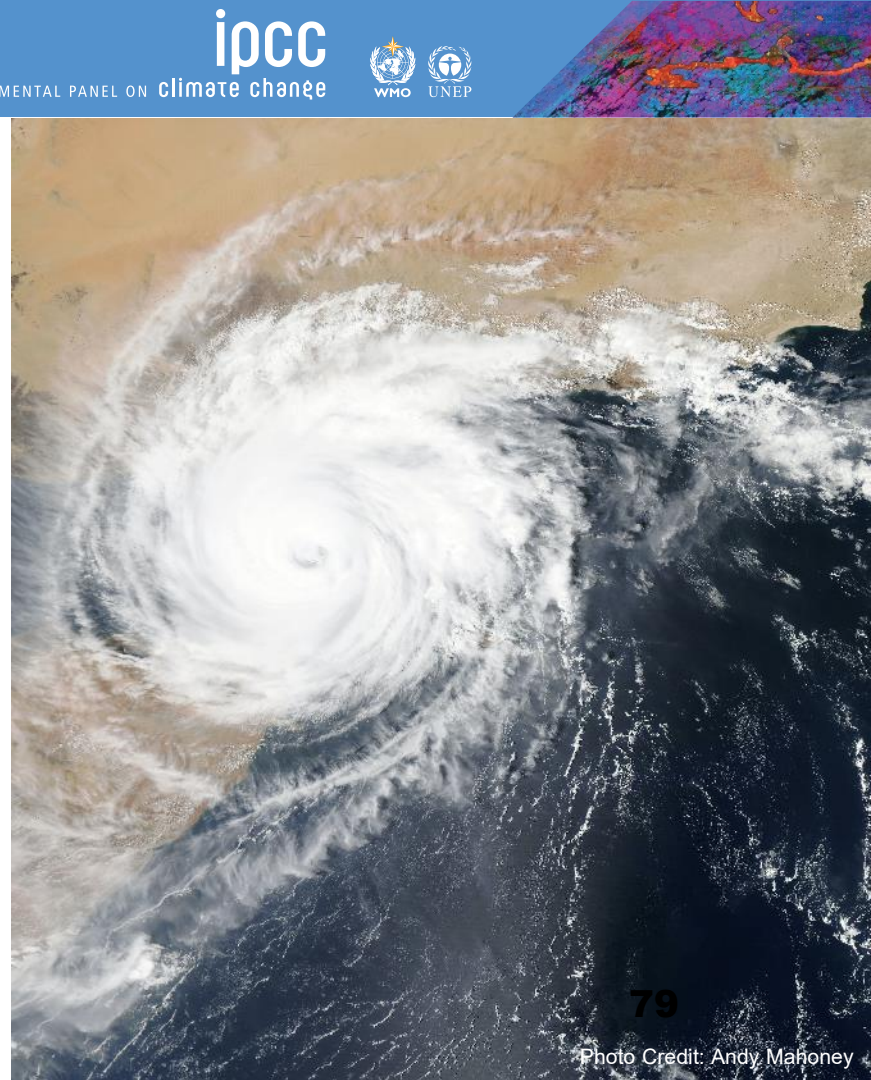


Observed warming is driven by emissions from **human activities**, with **greenhouse gas** warming partly masked by **aerosol cooling**



Human influence, main driver of...

- ...**Hot extremes**, which have become more **frequent** and more **intense**
- ...**ocean warming** since the 1970s, and **ocean acidification**.
- ...changes we see in the **frozen areas** of the planet:
 - ⇒ global retreat of glaciers since the 1990s
 - ⇒ 40% decrease in Arctic sea ice since 1979
 - ⇒ decrease in spring snow cover since the 1950s.





[Credit: Hong Nguyen | Unsplash]

“ Climate change is already affecting every region on Earth, in multiple ways.

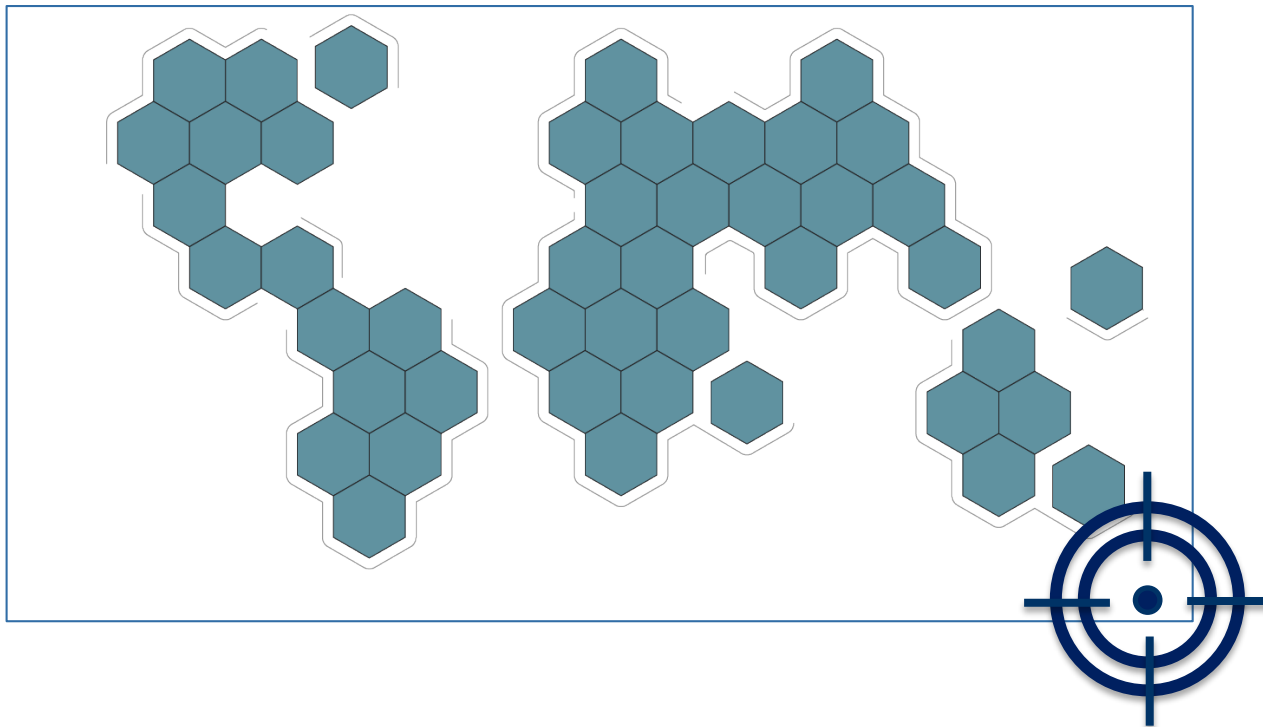
The changes we experience will increase with further warming.

New regional information



- ▶ Inform decisions related to **risk management** and **adaptation**
- ▶ **A third** of our report is dedicated to **regional climate information**

New regional information



- Inform decisions related to **risk management** and **adaptation**
- **A third** of our report is dedicated to **regional climate information**

Climatic impact-drivers



Heat
&
cold



Rain
&
drought



Snow
&
ice



Wind



Coastal
&
oceanic



Other



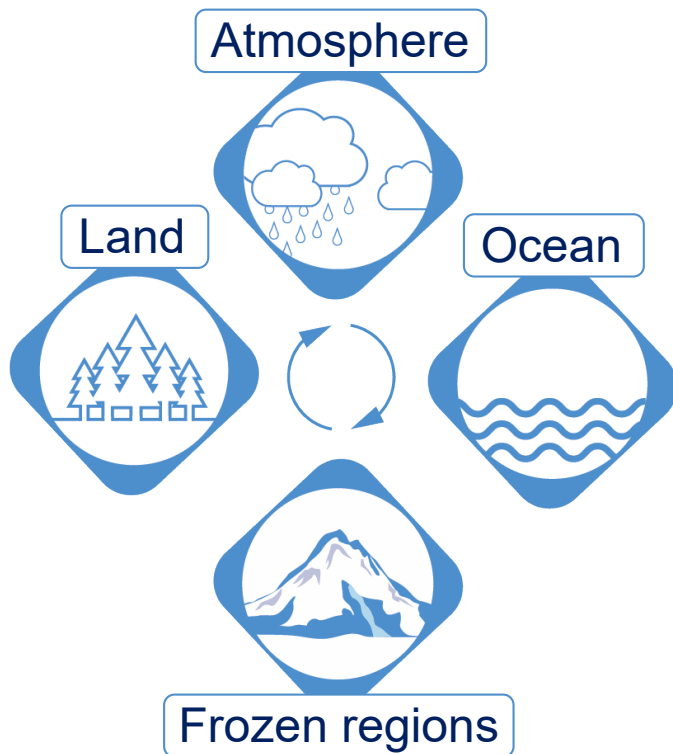
Open
ocean

A **climatic impact-driver** could go over **thresholds** known to lead to **severe consequences** for people, agriculture, or

Threshold



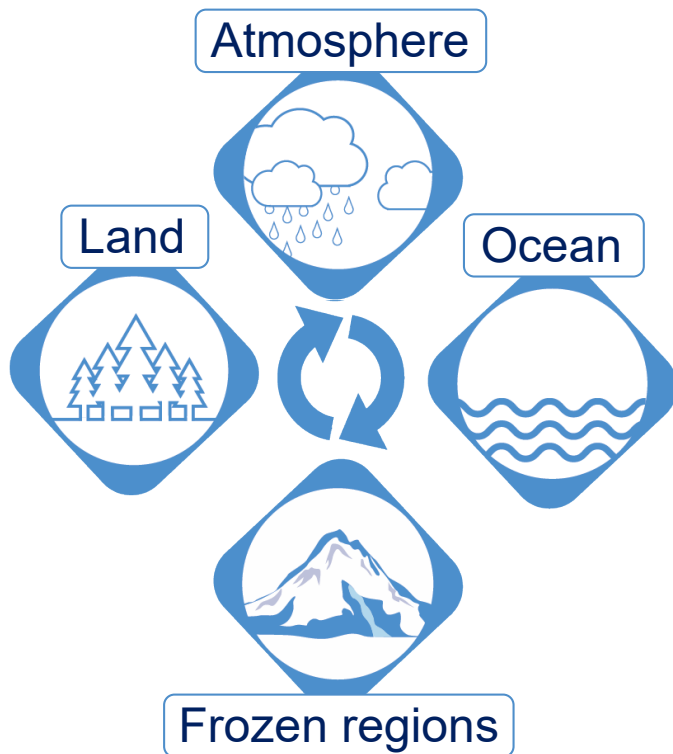
Changes to the Water cycle



With warmer temperature

- Atmosphere can hold more water
- More and faster evaporation
- Heavier precipitation

Changes to the Water cycle



More global warming

- Heavier rainfall
- Intensifying dry seasons and droughts



[Credit: Jenn Caselle | UCSB]

“There’s no going back from some changes in the climate system...”

Ocean and ice sheets



Ocean temperature

Increasing



Greenland Ice Sheet

Melting



Sea level

Rising



[Credit: Andy Mahoney | NSIDC]

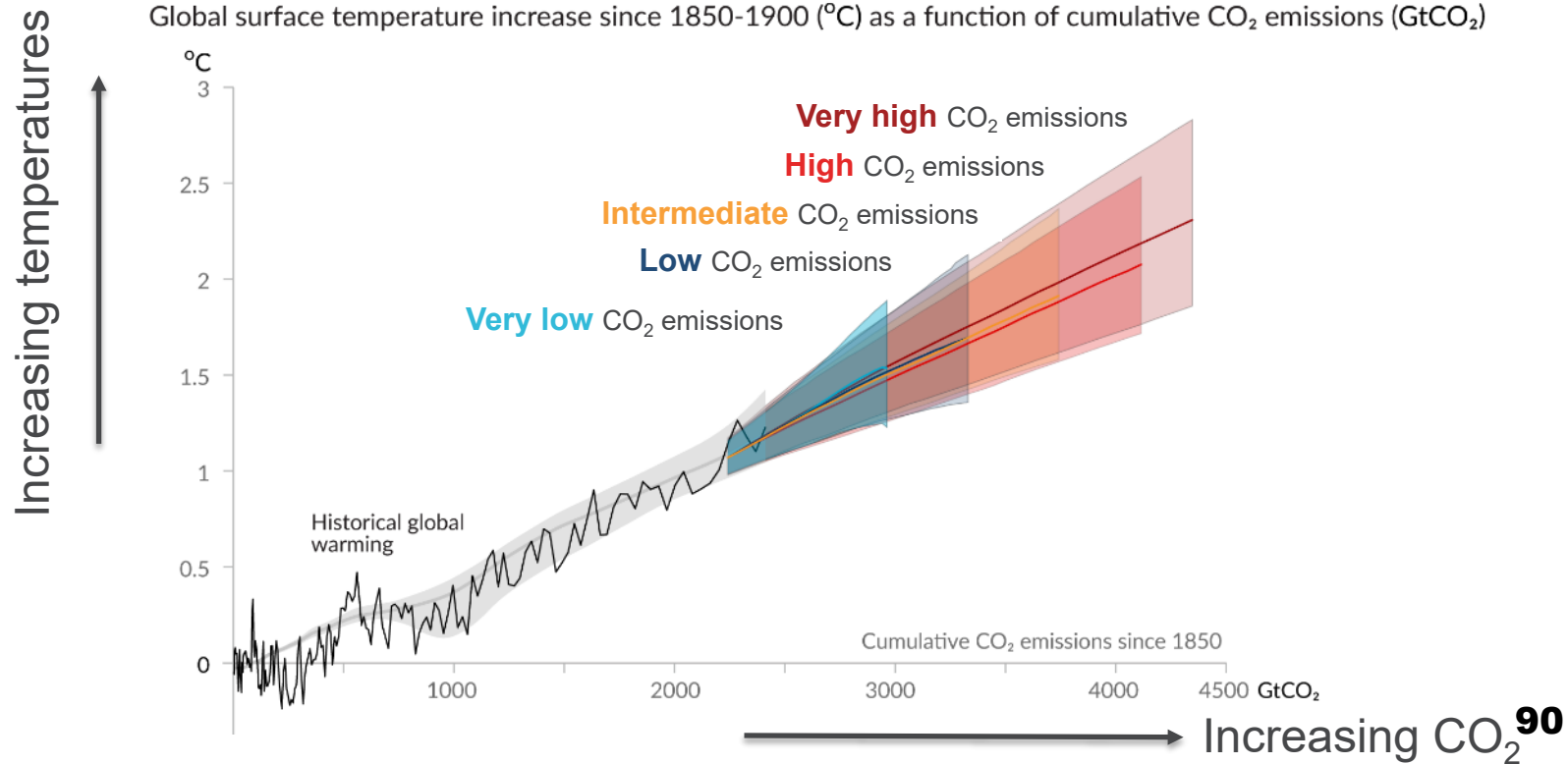
“...However, some changes could be slowed and others could be stopped by limiting warming.

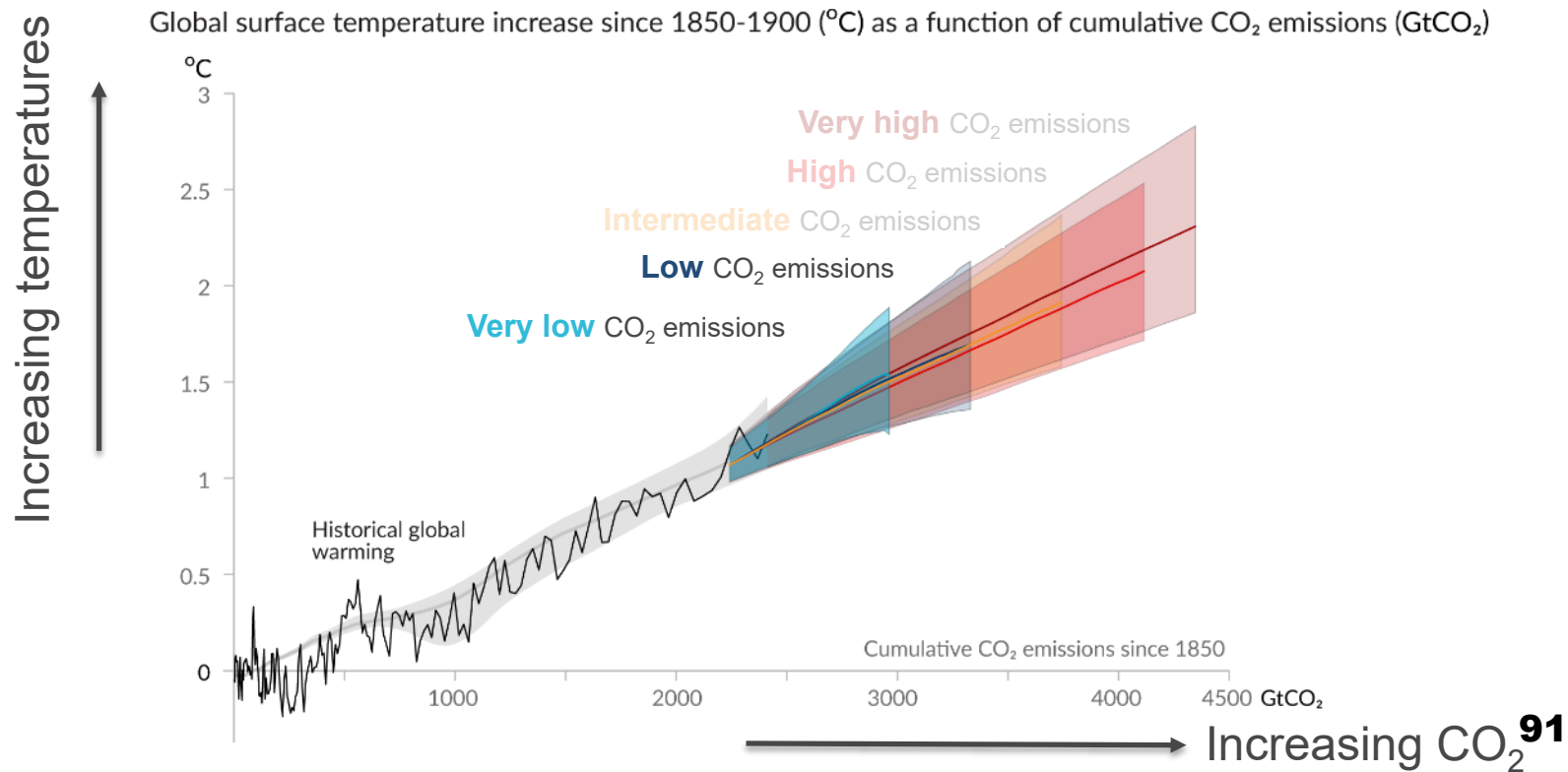


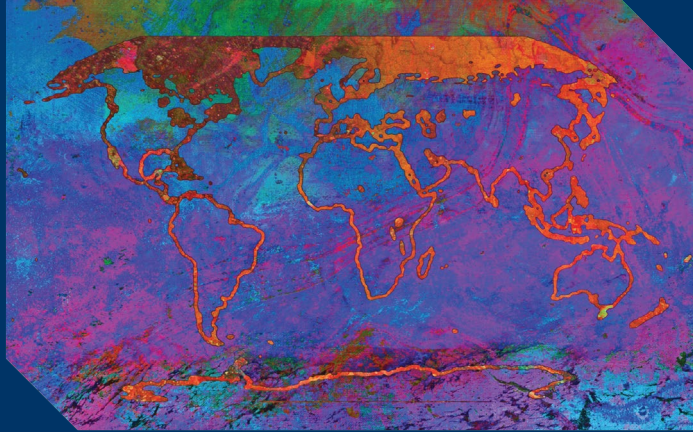
[Credit: evgeny-nelmin.]

“ To limit global warming, strong, rapid, and sustained reductions in CO₂, methane, and other greenhouse gases are necessary.

This would not only reduce the consequences of climate change but also improve air quality.

Every tonne of CO₂ emissions adds to global warming

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“ The climate we experience in the future depends on our decisions now.