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In April 2017, led by close friend of The Pachamama Alliance Paul Hawken, Project Drawdown released the book, *Drawdown: the Most Comprehensive Plan Ever Proposed to Reverse Global Warming*. We at the Pachamama Alliance were galvanized into action by the stunning conclusions that were revealed by this impeccably researched set of data and the message of possibility that it inspired. In four months we had created the first version of our “Introduction to Drawdown” and had launched what has now become a many-faceted “Drawdown Initiative.”

Now (March, 2020) Project Drawdown has just published their first major update of the research that led to the publication of the game-changing book, and the results of the measuring and modeling they did in 2017 have been totally validated and even strengthened. The updated information has been published as a pdf document called *The Drawdown Review*, available on the website [Drawdown.org](#).

The major conclusion remains clear: Global warming CAN be reversed! Just by scaling up climate solutions that already exist and are already being practiced, humanity can achieve “drawdown” (the point at which CO2 levels in the atmosphere begin to go down rather than up). What that means is that we don't need to come up with a lot of new technology or discover new ways of producing and storing energy or shut down all the power plants and sit in the dark.

In fact, whereas the original research showed that drawdown could be achieved by 2050, the update shows that scaling up existing solutions can achieve drawdown as early as the mid 2040's, provided the solutions are accelerated rapidly.

Another key conclusion strengthened in this update is that the financial case for climate solutions is crystal clear, as savings significantly outweigh costs. They project the financial cost and savings of ramping up all the solutions they modeled over the 30 years from 2020 to 2050, and the stunning result is that humanity will SAVE \$28.7 trillion (yep, that's “trillion,” with a “T”!) over that timespan.

Of course, as widely anticipated, new research changes some of the details, and with this first of many updates to come, Project Drawdown has reorganized the way solutions are presented and some of the projections for carbon emissions saved and drawn down have been refined. Even the

names of some of the solutions have been changed to reflect this refinement.

The report highlights the need for individuals like you and organizations like the Pachamama Alliance to take on “Accelerating the Solutions,” and identifies six “Accelerators”: Shape Culture, Build Power, Set Goals, Alter Rules and Policy, Shift Capital and Change Behavior.

They also articulate 10 Key Insights. Number 3 is, “Beyond addressing greenhouse gases, climate solutions can have “co-benefits” that contribute to a better, more equitable world.” What this means to us is that reversing global warming is a key element in fulfilling our commitment to bring forth a thriving, just and sustainable life for all.

The 6th insight is also important to us. It says, “We cannot reach Drawdown without simultaneously reducing emissions toward zero and supporting nature’s carbon sinks.” In the climate science world a carbon sink is where carbon is taken out of the atmosphere, where it causes warming by the “greenhouse effect” and brought back onto Earth, where it becomes a part of the natural life cycles of the planet.

Of course the Pachamama Alliance Drawdown Team is hard at work, even as you read these words, to include the new material in the programs of our Drawdown Initiative. Nothing in the new report changes the major messages, as the data gets more accurate and the way it is structured and presented gets a bit more succinct and streamlined.

I invite you to download the report and study it closely, and to explore your role by participating in one of the Pachamama Alliance Drawdown Programs. Time is of the essence.

As the new Executive Director of Project Drawdown, Jonathan Foley, has put it, “We don’t need new, we need NOW.”