

Sustainability Speaker Series

2018

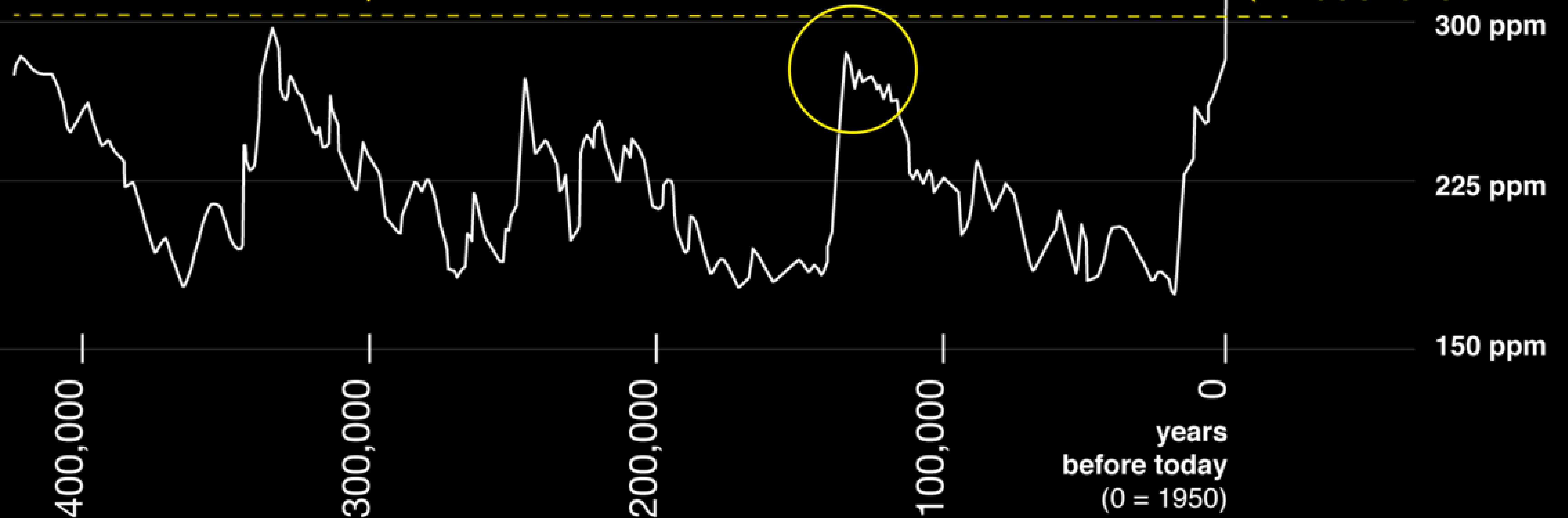
DRAWDOWN

CO₂

parts per million (ppm)

400,000 years

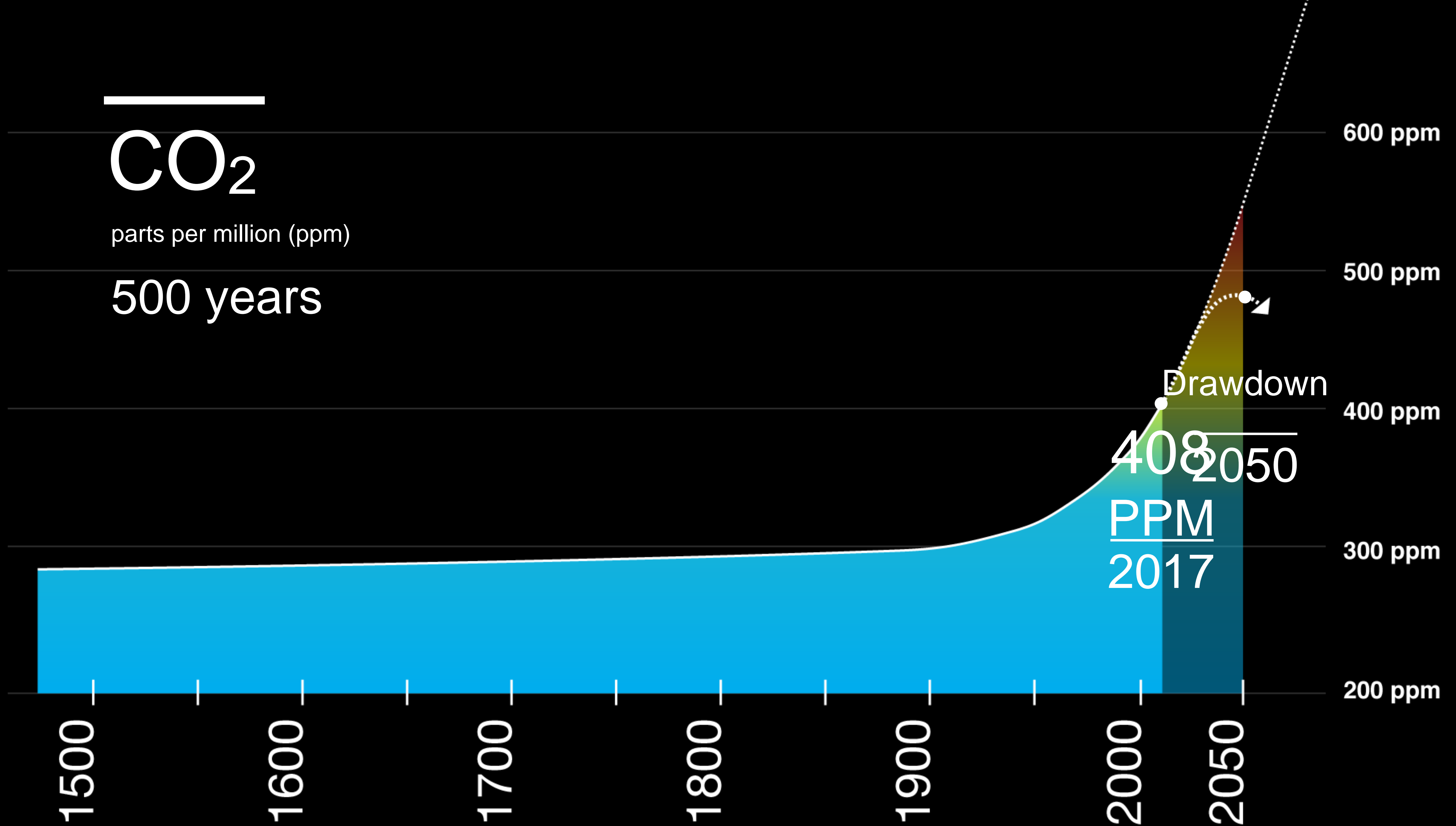
For centuries, atmospheric carbon dioxide had never been above this line



CO₂

parts per million (ppm)

500 years



How do we get the news
about global warming?

Global warming could wipe out millions in world's major cities with catastrophic 'THREE METRE sea level rise'

18:44, 18 MAY 2016

UPDATED 19:22, 18 MAY 2016

BY JESSICA HAWORTH , STEPHEN BEECH

London, New York and Hong Kong are among the cities which could be underwater if global warming continues

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DANGEROUS DOGS

Blyth dog attack: 'Hero' schoolgirl saves seven-year-old from being mauled to death by crazed Staffie



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ENERGY

THE DAILY CALLER
NEWS FOUNDATION



Noah's ark during a rain and lightning storm. (Credit: Amanda Carden/Shutterstock)

'Potential Apocalypse': NYT Warns Of Global Warming Floods Of Biblical Proportions



MICHAEL BASTASCH

7:08 PM 05/20/2017

f 3013 t 182 g+ [Email] [Print] [Share]

The New York Times has taken warnings about global warming to a whole new level, publishing a three-part series suggesting a "potential apocalypse" from melting ice sheets if humans keep pumping carbon dioxide into the atmosphere.

"If that ice sheet were to disintegrate, it could raise the level of the sea by more than 160 feet — a potential apocalypse, depending on exactly how fast it happened," NYT reporter Justin Gillis wrote of what some scientists predict could happen to Antarctica.

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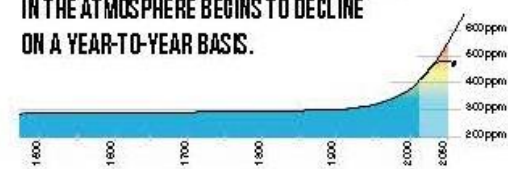
DRAWDOWN

100 SOLUTIONS TO REVERSE GLOBAL WARMING BY 2050

RANKED BY IMPACT

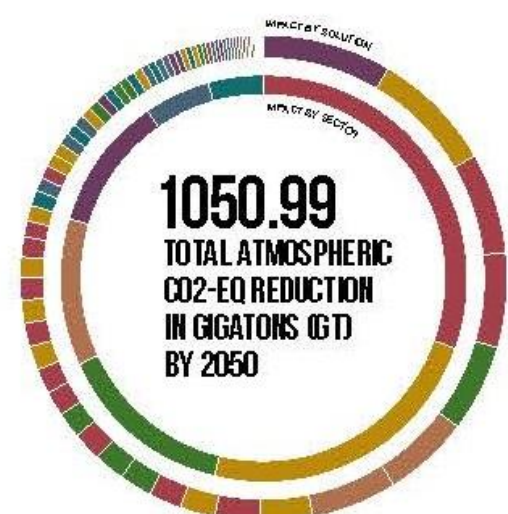
drawdown.org

DRAWDOWN IS THAT POINT IN TIME WHEN THE CONCENTRATION OF GREENHOUSE GASES IN THE ATMOSPHERE BEGINS TO DECLINE ON A YEAR-TO-YEAR BASIS.

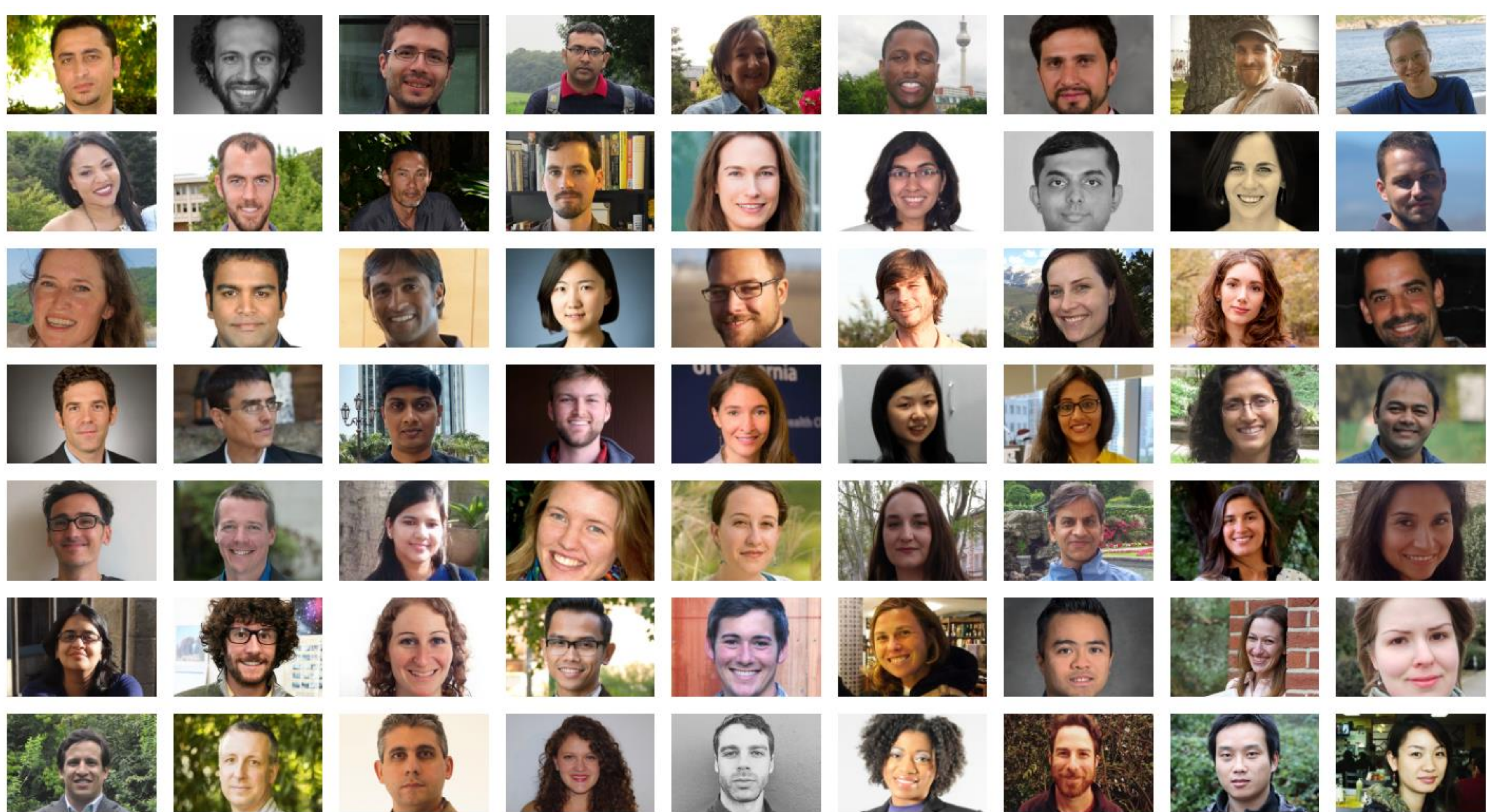


Project Drawdown is the most comprehensive plan ever proposed to reverse global warming. Our organization did not make or devise the plan—we found the plan because it already exists. We gathered a qualified and diverse group of researchers from around the world to identify, research, and model the 100 most substantive, existing solutions to address climate change. What was uncovered is a path forward that can roll back global warming within thirty years. It shows that humanity has the means at hand. Our work is to accelerate the knowledge and growth of what is possible. We chose the name Drawdown because if we do not name the goal, we are unlikely to achieve it.

EACH SOLUTION REDUCES GREENHOUSE GASES BY AVOIDING EMISSIONS AND/OR BY SEQUESTERING CARBON DIOXIDE ALREADY IN THE ATMOSPHERE.



The Coalition



Leo Burke
University of Notre Dame

Mary Evelyn Tucker, PhD
Yale

Andy Revkin
The New York Times

Molly Jahn, PhD
University of Wisconsin

Robyn McCord O'Brien
Author

Janine Benyus
Biomimicry Institute

Dan Weiden
Weiden + Kennedy

Mark Mykleby
U.S. Navy

Karen O'Brien, PhD
IPCC

Spencer Beebe
Ecotrust

Peggy Liu
JUCCCE

Michael Pollan
Author, Professor

David Addison
Virgin Earth Challenge

André Heinz
Heinz Foundation

Kerry Kennedy
Robert F Kennedy Center

James Boyle
Sustainable Roundtable

Cutler Cleveland, PhD
Boston University

Edward Davey
The Prince of Wales'
International Sustainability
Unit

John Elkington
Volans Ventures

Maria Fujihara
Brazil Green Bldg Council

Dan Kammen, PhD
IPCC, UC Berkeley

Sir Jonathon Porritt
Forum for the Future

Tom Steyer
NextGen Climate

Jules Kortenhorst
Rocky Mountain Institute

Sarah Bergmann
Pollinator Pathways

Adam Chambers, PhD
USDA Natural Resources
Conservation Service

Joylette Portlock, PhD
Communitopia

Michael Mann, PhD
Pennsylvania State University

Clayton Thomas-Muller
Idle no More

Mehjabeen Abidi-Habib, PhD
Government College University
in Lahore

Bill McKibben
350.org

Chris Pyke, PhD
IPCC

Brendan Mackey, PhD
Griffith University, Australia

Project Drawdown maps and models solutions

The Models

- **Reduction and Replacement Solutions (RRS) Model** → energy and energy efficiency solutions.
- **Land Use Solutions (LAND) Model** → land-based solutions with biosequestration potential.
- **Food System** → integrated supply-side solutions based on country-scale consumption patterns.

Modeling Solutions

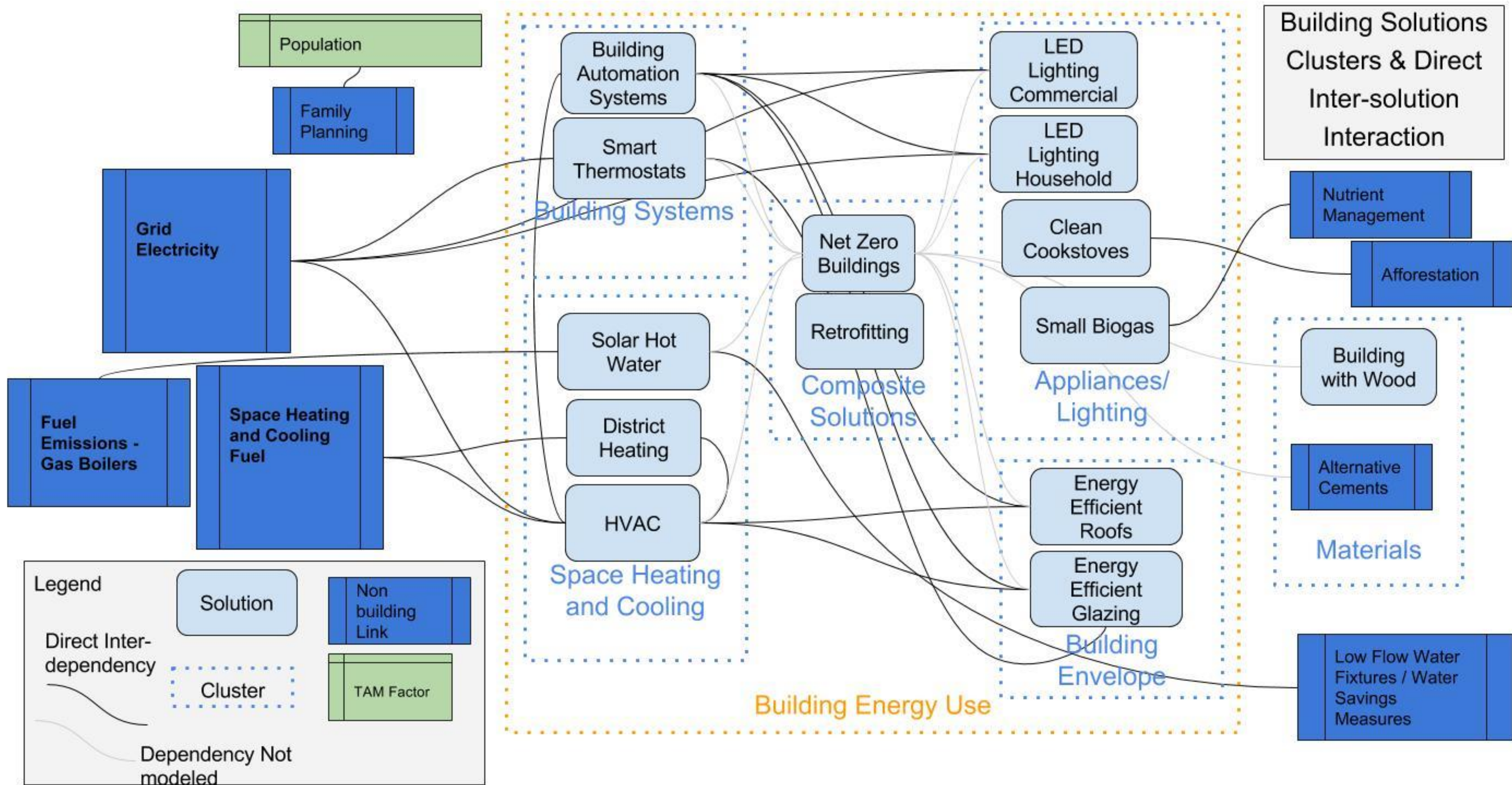
- We Compared a High Growth of Solution to Relatively Low Reference Adoption
- Each Solution was Compared to the Conventional High-Emitting Option
- Adoption Projections Are Used to Estimate Emissions and Financial Impact (first and operating cost differences)

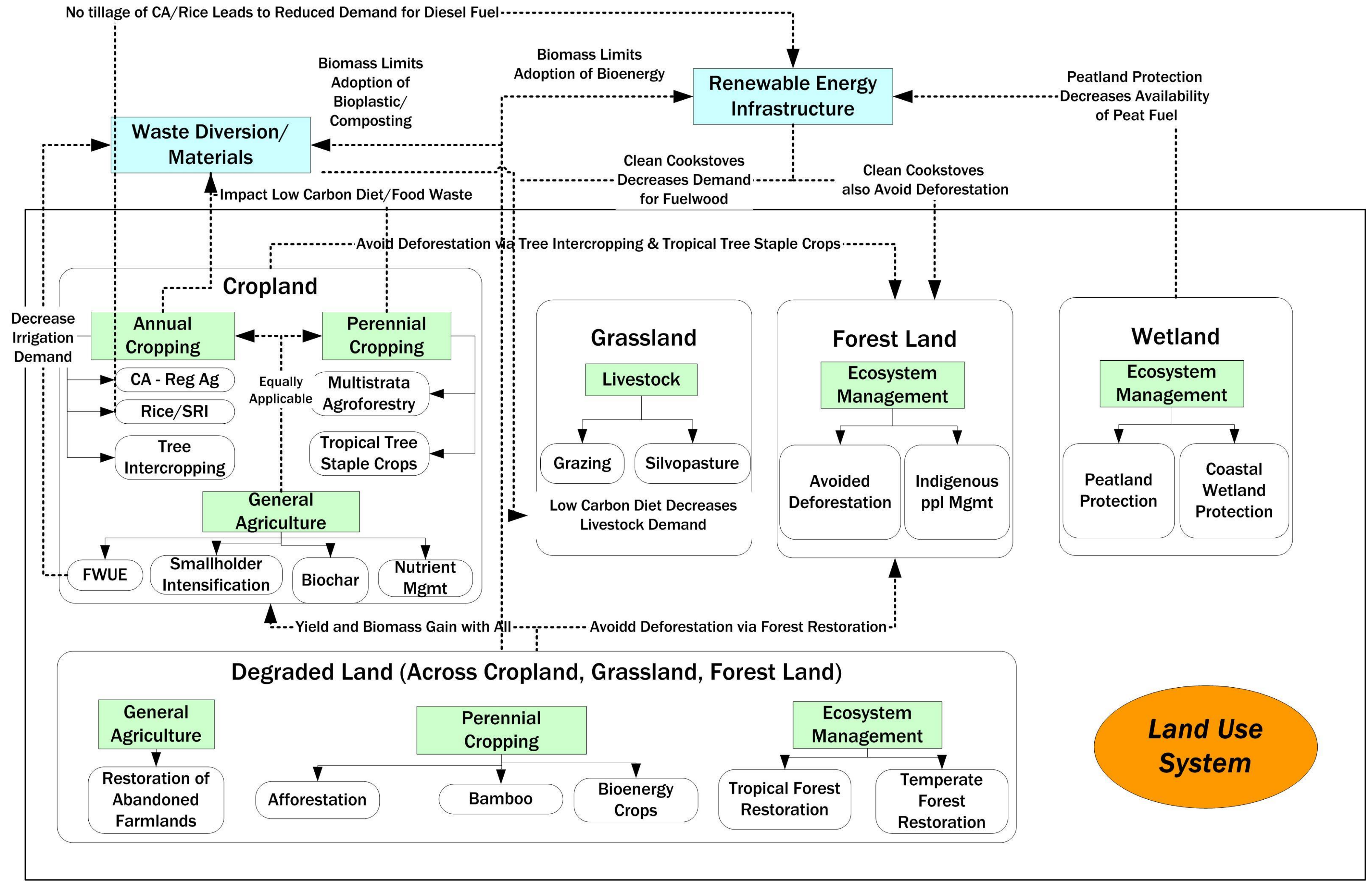
The Scenarios

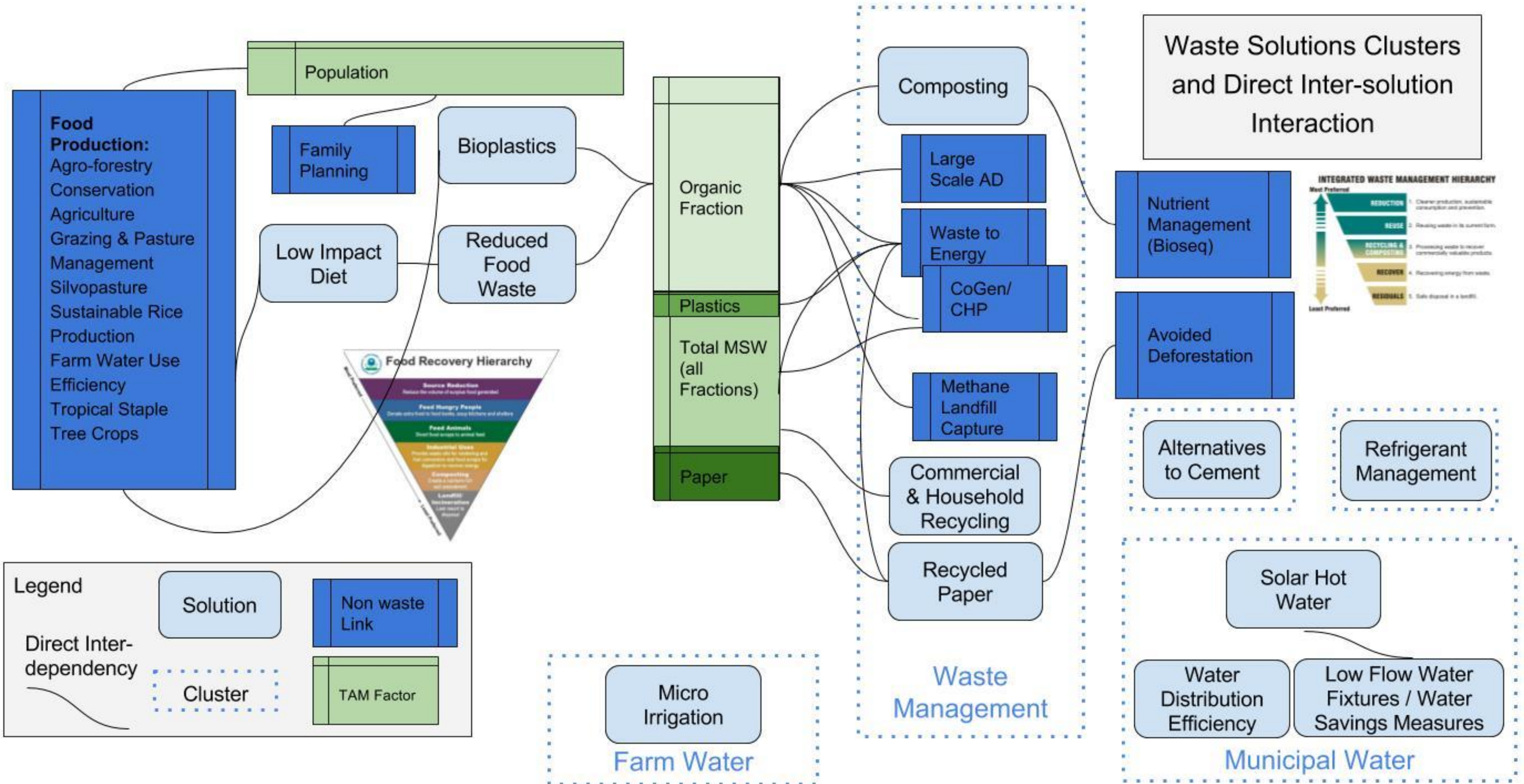
High adoption scenarios assume a reasonably vigorous global adoption path.

Three scenarios were developed:

1. Plausible Scenario
2. Drawdown Scenario
3. Optimum Scenario







The Results

NEW YORK TIMES BESTSELLER

DRAWDOWN

THE MOST COMPREHENSIVE
PLAN EVER PROPOSED TO
REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN



ENERGY

ROOFTOP SOLAR

#15

RANKING AND RESULTS BY 2050

17.81 GIGATONS
REDUCED CO2

\$1.07 TRILLION
NET COST

\$4.82 TRILLION
LIFETIME SAVINGS

An Uros mother and her two daughters live on one of the 42 floating islands made of totora reeds on Lake Titicaca. Their delight upon receiving their first solar panel is infectious. Installed at an elevation of 12,507 feet, the panel will replace kerosene and provide electricity to her family for the first time. As high tech as solar may be, it is a perfect cultural match: The Uru People know themselves as Lupihagues, Sons of the Sun.

The year was 1884, when the first solar array appeared on a rooftop in New York City. Experimentalist Charles Fritts installed it after discovering that a thin layer of selenium on a metal plate could produce a current of electricity when exposed to light. How light could turn on lights, he and his solar-pioneering contemporaries did not know, for the mechanics were not understood until the early twentieth century when, among other breakthroughs, Albert Einstein published his revolutionary work on what are now called photons. Though the scientific establishment of Fritts' day believed power generation depended on heat, Fritts was convinced that "photoelectric" modules would wind up competing with coal-fired power plants. The first such plant had been brought online by Thomas Edison just two years earlier, also in New York City.

Today, solar is replacing electricity generated from coal as well as from natural gas. It is replacing kerosene lamps and diesel generators in places where people lack access to the power grid, true for more than a billion people around the world. While society grapples with electricity's pollution in some places and its absence in others, the mysterious waves and particles of the sun's light continuously strike the surface of the planet with an energy more than ten thousand times the world's total use. Small-scale photovoltaic systems, typically sited on rooftops, are playing a significant role in harnessing that light, the most abundant resource on earth. When photons strike the thin wafers of silicon crystal within a vacuum-sealed solar panel, they knock electrons loose and produce an electrical circuit. These subatomic particles are the only moving parts in a solar panel, which requires no fuel.

While solar photovoltaics (PV) provide less than 2 percent of the world's electricity at present, PV has seen exponential growth over the past decade. In 2015 distributed systems of less than 100 kilowatts accounted for roughly 30 percent of solar PV capacity installed worldwide. In Germany, one of the world's solar leaders, the majority of photovoltaic capacity is on rooftops, which don 1.5 million systems. In Bangladesh, population 157 million, more than 3.6 million home solar systems

have been installed. Fully 16 percent of Australian homes have them. Transforming a square meter of rooftop into a miniature power station is proving irresistible.

Roof modules are spreading around the world because of their affordability. Solar PV has benefited from a virtuous cycle of falling costs, driven by incentives to accelerate its development and implementation, economies of scale in manufacturing, advances in panel technology, and innovative approaches for end-user financing—such as the third-party ownership arrangements that have helped mainstream solar in the United States. As demand has grown and production has risen to meet it, prices have dropped; as prices have dropped, demand has grown further. A PV manufacturing boom in China has helped unleash a torrent of inexpensive panels around the world. But hard costs are only one side of the expense equation. The soft costs of financing, acquisition, permitting, and installation can be half the cost of a rooftop system and have not seen the same dip as panels themselves. That is part of the reason rooftop solar is more expensive than its utility-scale kin. Nonetheless, small-scale PV already generates electricity more cheaply than it can be brought from the grid in some parts of the United States, in many small island states, and in countries including Australia, Denmark, Germany, Italy, and Spain.

The advantages of rooftop solar extend far beyond price. While the production of PV panels, like any manufacturing process, involves emissions, they generate electricity without emitting greenhouse gases or air pollution—with the infinite resource of sunlight as their sole input. When placed on a grid-connected roof, they produce energy at the site of consumption, avoiding the inevitable losses of grid transmission. They can help utilities meet broader demand by feeding unused electricity into the grid, especially in summer, when solar is humming and electricity needs run high. This "net metering" arrangement, selling excess electricity back to the grid, can make solar panels financially feasible for homeowners, offsetting the electricity they buy at night or when the sun is not shining.

Numerous studies show that the financial benefit of rooftop PV runs both ways. By having it as part of an energy-generation portfolio, utilities can avoid the capital costs of additional coal or gas plants, for which their customers would otherwise have to pay, and broader society is spared the environmental and public health impacts. Added PV supply at times of highest electricity demand can also curb the use of expensive and polluting peak generators. Some utilities reject this proposition and posit contradictory claims of rooftop PV being a "free rider," as they aim to block the rise of distributed solar and its impact on their revenue and profitability. Others accept its inevitability and are trying to shift their business models accordingly. For all involved, the need for a grid "commons" continues, so utilities, regulators, and stakeholders of all stripes are evolving approaches to cover that cost.



The first solar array installed by Charles Fritts in 1884 in New York City. Fritts built the first solar panels in 1881, reporting that the current was "continuous, constant and of considerable force not only by exposure to

Off the grid, rooftop panels can bring electricity to rural parts of low-income countries. Just as mobile phones leapfrogged installation of landlines and made communication more democratic, solar systems eliminate the need for large-scale, centralized power grids. High-income countries dominated investment in distributed solar until 2014, but now countries such as Chile, China, India, and South Africa have joined in. It means rooftop PV is accelerating access to affordable, clean electricity and thereby becoming a powerful tool for eliminating poverty. It is also creating jobs and energizing local economies. In Bangladesh alone, those 3.6 million home solar systems have generated 115,000 direct jobs and fifty thousand more downstream.

Since the late nineteenth century, human beings in many places have relied on centralized plants that burn fossil fuels and send electricity out to a system of cables, towers, and poles. As households adopt rooftop solar (increasingly accompanied and enabled by distributed energy storage), they transform generation and its ownership, shifting away from utility monopolies and making power production their own. As electric vehicles also spread, "gassing up" can be done at home, supplanting oil companies. With producer and user as one, energy gets democratized. Charles Fritts had this vision in the 1880s, as he looked out over the roovescape of New York City. Today, that vision is increasingly coming to fruition. ●

IMPACT: Our analysis assumes rooftop solar PV will grow from .4 percent of electricity generation globally to 7 percent by 2050. That growth can avoid 16.4 gigatons of emissions. Implementation costs continue to decrease. Operating costs, will save \$2.97 trillion in home energy costs over thirty years.



A swimmer in a black wetsuit and white swim cap is in the foreground, splashing through the water. In the background, a large number of offshore wind turbines are visible on the horizon under a dramatic, cloudy sky.

WIND TURBINES (OFFSHORE)

#22

RANK BY 2050

14.1 GT

REDUCED CO₂-eq

\$542B

NET FIRST COST

\$763B

NET OPERATIONAL SAVINGS

ROOFTOP SOLAR

#10
RANK BY 2050

24.6 GT
REDUCED CO₂ -eq

\$453B
NET FIRST COST

\$3.46T
NET OPERATIONAL SAVINGS



ELECTRIC BIKES

#69
RANK BY 2050

.96 GT
REDUCED CO2-eq

\$106B
NET FIRST COST

\$226.1B
NET OPERATIONAL SAVINGS

TELEPRESENCE

#63
RANK BY 2050

1.99 GT
REDUCED CO2 -eq

\$127B
NET FIRST COST

\$1.31T
NET OPERATIONAL SAVINGS



COASTAL WETLANDS

#52
RANK BY 2050

3.19 GT
REDUCED CO₂ -eq

53.34 GT
CO₂ PROTECTED

FOREST PROTECTION

#38
RANK BY 2050

6.2 GT
REDUCED CO₂ -eq

896.2 GT
CO₂ -eq PROTECTED

TROPICAL FORESTS

#5

RANK BY 2050

61.23 GT

REDUCED CO₂ -eq

An aerial photograph of a rural landscape. In the upper center, there is a small, irregularly shaped pond surrounded by green grass and trees. To the right of the pond, a farmstead with several red barns and white buildings is visible. The foreground and middle ground are dominated by large, rectangular agricultural fields. Some fields are golden-brown, suggesting mature crops like corn or soybeans, while others are dark green, indicating active cultivation. A dense line of trees runs along the left side of the image. The overall scene depicts a typical American farm landscape.

REGENERATIVE AGRICULTURE

#11
RANK BY 2050

23.15 GT
REDUCED CO2 -eq

\$57.2B
NET FIRST COST

\$1.93T
NET OPERATIONAL SAVINGS

MANAGED GRAZING

#19
RANK BY 2050

16.34 GT
REDUCED CO₂ -eq

\$50.5B
NET FIRST COST

\$735.3B
NET OPERATIONAL SAVINGS



REDUCED FOOD WASTE

#3

RANK BY 2050

70.53 GT

REDUCED CO2 -eq



PLANT-RICH DIET

#4

RANK BY 2050

66.11 GT

REDUCED CO₂ -eq



EDUCATING GIRLS

#6

RANK BY 2050

59.60 GT

REDUCED CO2



FAMILY PLANNING

#7

RANK BY 2050

59.60 GT

REDUCED CO₂ -eq

TOP 20

| RANK | SOLUTION | SECTOR | REDUCED CO2 |
|------|----------------------------|-----------------|-------------|
| 1 | Refrigeration | Materials | 89.74 GT |
| 2 | Wind Turbines (Onshore) | Energy | 84.60 GT |
| 3 | Reduced Food Waste | Food | 70.53 GT |
| 4 | Plant-Rich Diet | Food | 66.11 GT |
| 5 | Tropical Forests | Land Use | 61.23 GT |
| 6 | Educating Girls | Women and Girls | 59.60 GT |
| 7 | Family Planning | Women and Girls | 59.60 GT |
| 8 | Solar Farms | Energy | 36.90 GT |
| 9 | Silvopasture | Food | 31.19 GT |
| 10 | Rooftop Solar | Energy | 24.60 GT |
| 11 | Regenerative Agriculture | Food | 23.15 GT |
| 12 | Temperate Forest | Land Use | 22.61 GT |
| 13 | Peatlands | Land Use | 21.57 GT |
| 14 | Tropical Staple Tree Crops | Food | 20.19 GT |
| 15 | Afforestation | Land Use | 18.06 GT |
| 16 | Conservation Agriculture | Food | 17.35 GT |
| 17 | Tree Intercropping | Food | 17.20 GT |
| 18 | Geothermal | Energy | 16.60 GT |
| 19 | Managed Grazing | Food | 16.34 GT |
| 20 | Nuclear | Energy | 16.09 GT |

TOP 20

Materials is
only one, but
top solution

| RANK | SOLUTION | SECTOR | REDUCED CO2 |
|------|----------------------------|-----------------|-------------|
| 1 | Refrigeration | Materials | 89.74 GT |
| 2 | Wind Turbines (Onshore) | Energy | 84.60 GT |
| 3 | Reduced Food Waste | Food | 70.53 GT |
| 4 | Plant-Rich Diet | Food | 66.11 GT |
| 5 | Tropical Forests | Land Use | 61.23 GT |
| 6 | Educating Girls | Women and Girls | 59.60 GT |
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| 17 | Tree Intercropping | Food | 17.20 GT |
| 18 | Geothermal | Energy | 16.60 GT |
| 19 | Managed Grazing | Food | 16.34 GT |
| 20 | Nuclear | Energy | 16.09 GT |

TOP 20

Electricity
Generation
is only
5 of top 20

| RANK | SOLUTION | SECTOR | REDUCED CO2 |
|------|----------------------------|-----------------|-------------|
| 1 | Refrigerant Management | Materials | 89.74 GT |
| 2 | Wind Turbines (Onshore) | Energy | 84.60 GT |
| 3 | Reduced Food Waste | Food | 70.53 GT |
| 4 | Plant-Rich Diet | Food | 66.11 GT |
| 5 | Tropical Forests | Land Use | 61.23 GT |
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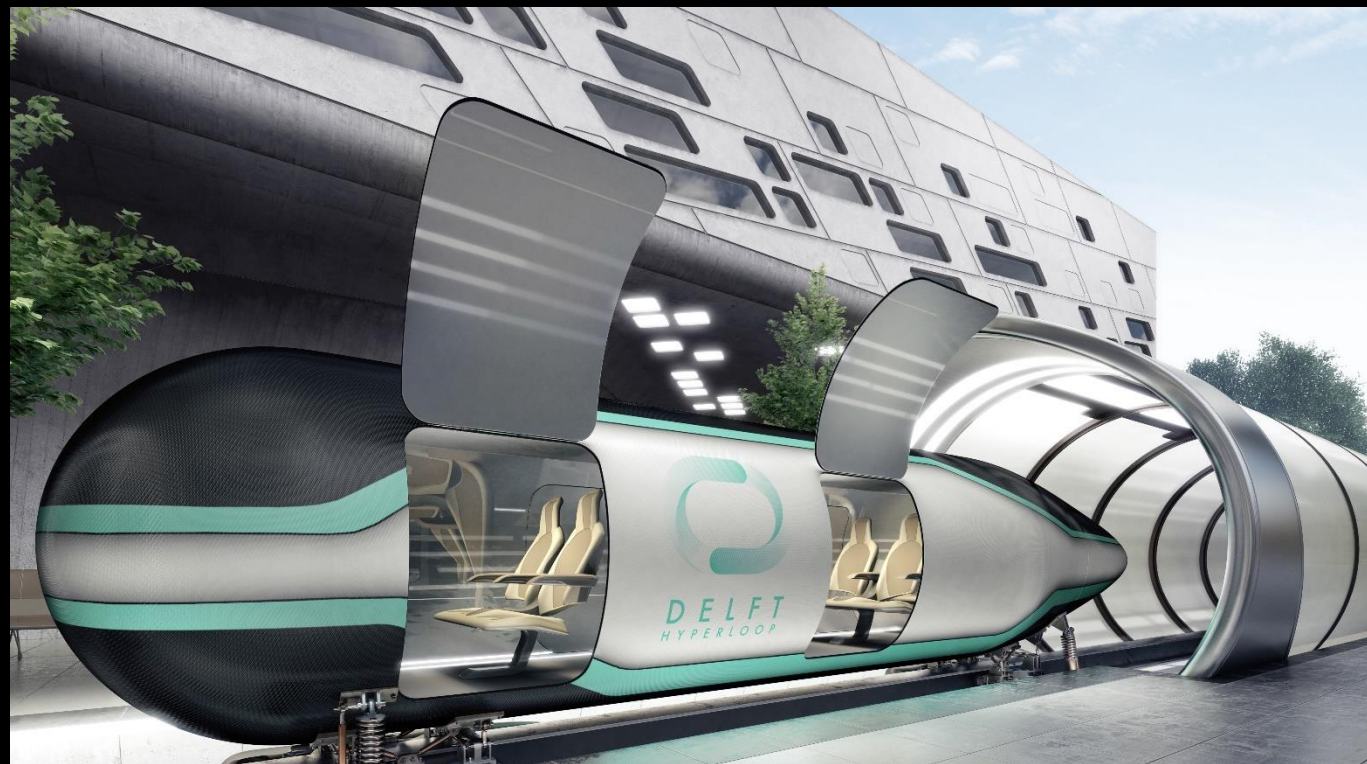
TOP 20

Food is
8 of top 20

| RANK | SOLUTION | SECTOR | REDUCED CO2 |
|------|----------------------------|-----------------|-------------|
| 1 | Refrigerant Management | Materials | 89.74 GT |
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Coming Attractions

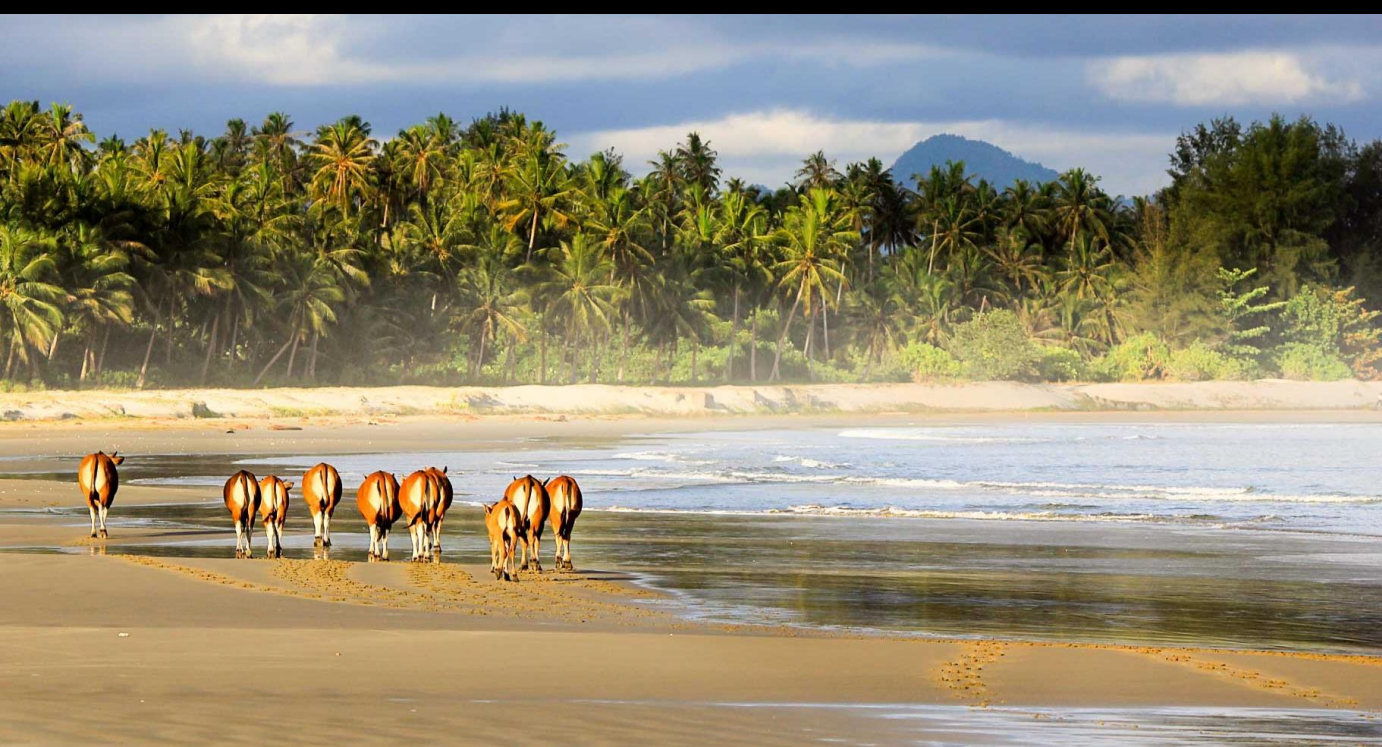
HYPERLOOP



ARTIFICIAL LEAF



IMPROVED LIVESTOCK FEED



AUTONOMOUS VEHICLES

DIRECT AIR CAPTURE

ENHANCED WEATHERING

INDUSTRIAL HEMP

INTENSIVE SILVOPASTURE

LIVING BUILDINGS

MICROBIAL FARMING

OCEAN FARMING

PASTURE CROPPING

PERRENIAL CROPS

REPOPULATING THE MAMMOTH

STEPPE

SMART GRIDS

SMART HIGHWAYS

SOLID-STATE WAVE ENERGY

BUILDING WITH WOOD



HYDROGEN-BORON FUSION

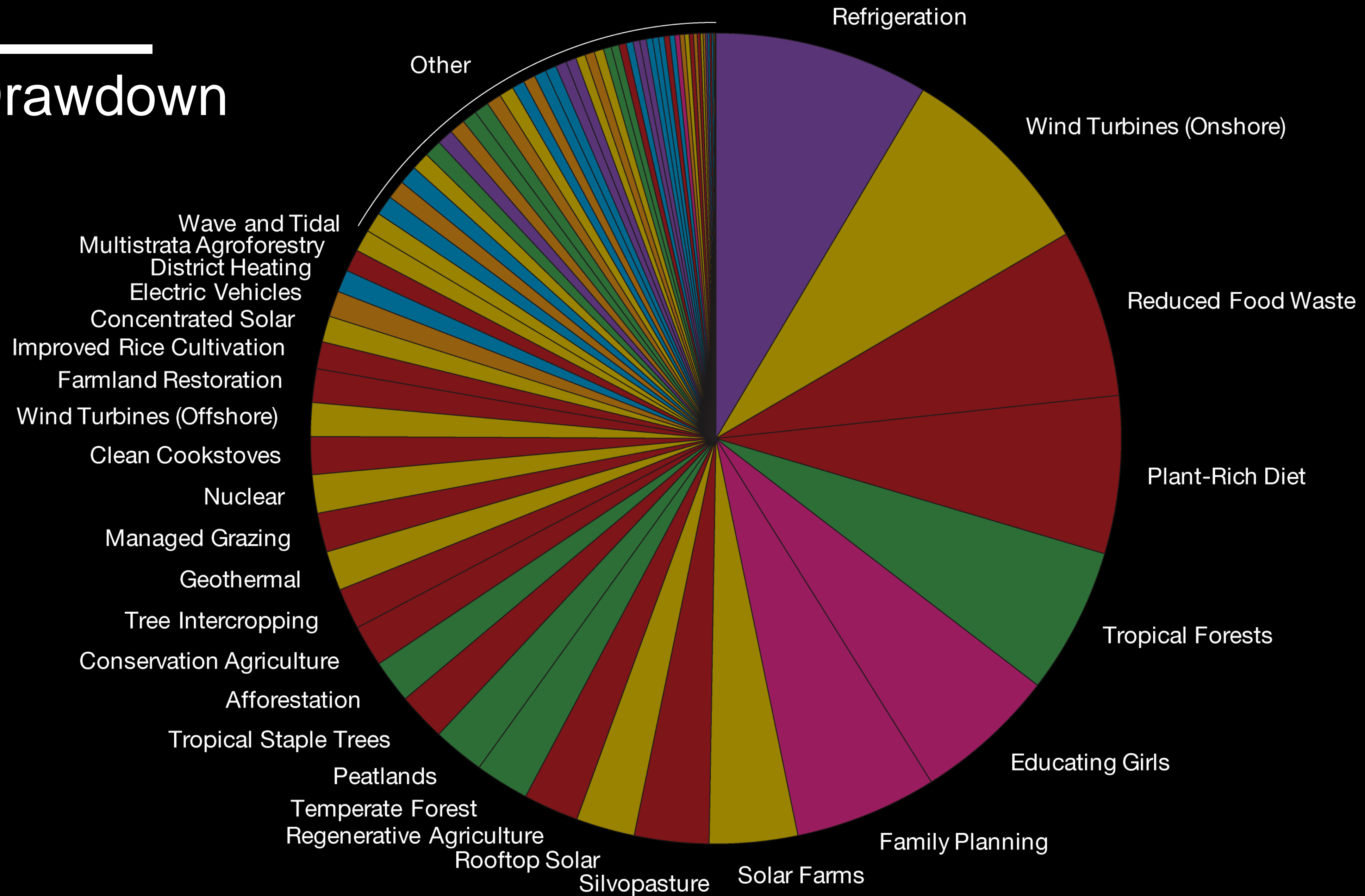


MARINE PERMACULTURE



Is Drawdown possible by 2050?

Drawdown



DRAWDOWN

Contact us at:
research@drawdown.org

What's next?

RESEARCH



Ongoing Work

To ensure our work remains meaningful and useful to current and future audiences, all data must be continually **monitored, refreshed, updated, and corrected** when better data arises.

Project Drawdown will continue to act as a **clearing house for the status of solutions.**

RESEARCH

Research Phase 2

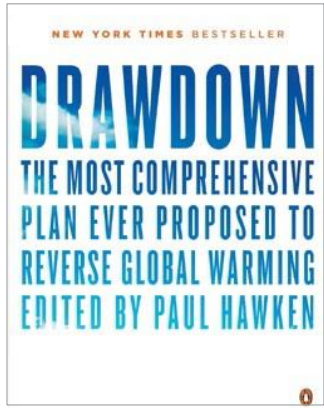
The next phase of our work is to undertake research related directly to the goals of **economic and ecological regeneration at regional, country, and local scales.**

- Perform **collaborative research and modeling** evaluating Drawdown solutions within the contexts of defined boundaries.
- A new version of the model will be developed to take into consideration **possible accelerators** of adoption.
- **Incorporate context-specific data** – including price variations, sequestration rates, capacity factors, etc.
- **Map results to social and economic indicators** most relevant to decision-makers at scale.

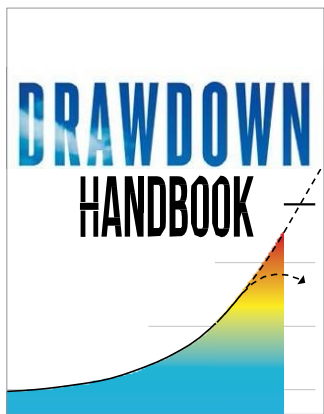
COMMUNICATIONS

Publications
Research and
communications
are the two legs
upon which
Drawdown stands
and moves

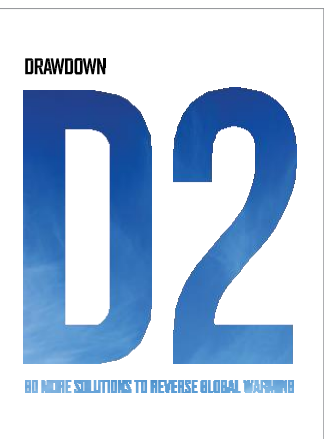
Communications takes many forms: publications, social media, documentary(s), TV series, short form videos for digital media, short form videos for curriculum, teaching guides, handbooks, and more.



Drawdown—The Most Comprehensive Plan Ever Proposed to Reverse Global Warming



Drawdown Handbook
This is “*Drawdown* for Dummies” or the Reader’s Digest version, intended to be a more digestible and less expensive publication that will help spread our work and message beyond existing *Drawdown* audiences.



D2 – Coming Attractions
This version of *Drawdown* will be a follow-on book that will codify and bring to life 60-80 more solutions that are taking hold, as well as the people and organizations behind them. D2 will include “back of the envelop” models, offering ranges of possible emissions reductions for each solution.



PARTNERSHIPS



The Drawdown Challenge Working Group began the first set of student-orientated challenges in October, 2017, with the public site planned to be launched on January 1, 2018.

Drawdown Challenge partners:



The Drawdown Coalition

The Drawdown Coalition is the fulcrum upon which our work becomes actionable and serves to accelerate the implementation of solutions globally.

This global Coalition is comprised of individuals and organizations utilizing Drawdown as a platform for engaging their communities and constituencies.

Partnership within the Coalition is based on three principles:

- 1) a common agenda centered on **reversing global warming** through solutions-focused, data-rich communications and implementation strategies;
- 2) willingness to **work collaboratively** within the Coalition through shared learning, co-creation, and mutual support; and
- 3) a **shared measurement and feedback** system through our ongoing research program.

PARTNERSHIPS

Working groups are formed based on the expressed interest of individuals and organizations wanting to take part in making drawdown a reality. There is no limit to the creation of different working groups, or subgroupings; rather, they form organically as more partners come on board.

The following working groups are currently being formed:

Research and Data

Individual experts and research organizations and networks are assisting with our ongoing research efforts. Partners will contribute by collecting and validating data sources, reviewing, developing and improving the Project Drawdown research methodology and models, and sharing resources and new data.

Higher Education Curriculum

Higher and mid-level education instructors and organizations are developing educational tools, lesson plans, syllabi, etc. for teaching grammar, high school, undergraduate and graduate level courses related to Drawdown.

The Drawdown Challenge

Based on the gamification of drawdown actions and solution implementation, organizations engage their constituents by inviting them to participate in structured programs that provide a blueprint for their actions with the purpose of educating participants and having contributors educate others about Drawdown solutions.

Local Communities and Governments

Community organizations and governments are co-developing Drawdown Action Plans relevant to local contexts.

Solution Implementers

Organizations and companies that are implementing solutions on the ground can profile their work, share resources, and connect with other Coalition partners through this common portal.

Drawdown Funds

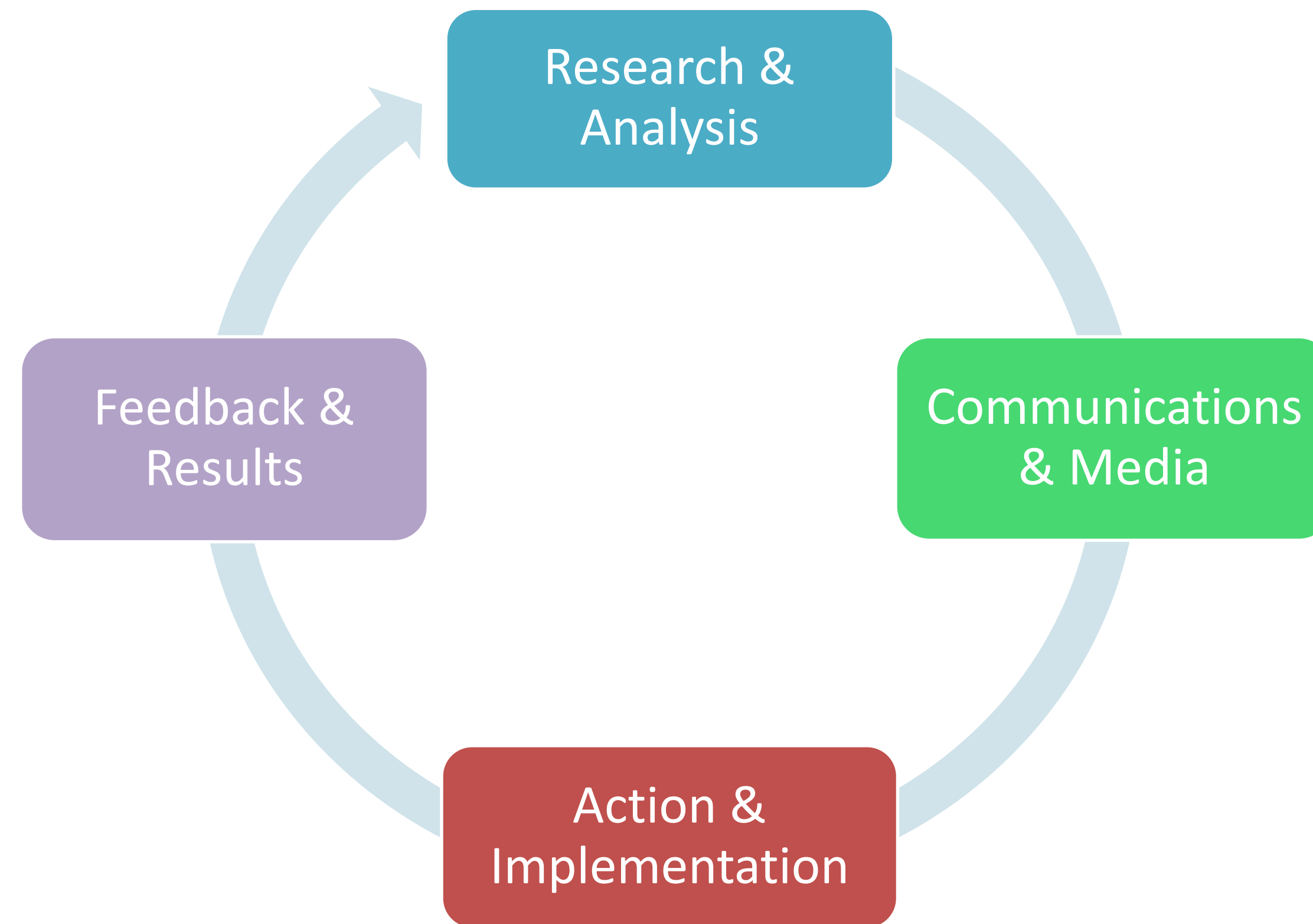
Philanthropic and investment groups are seeking to establish funds to provide capital in support of solution projects globally. This working group aims to pool expertise and share information to reduce risk and maximize impact.

Content Creators

Artists, designers, curators and data visualizers are keen to offer their skills to develop multimedia, data visualizations and infographics based on drawdown. Resulting materials will be shared and under creative common license.

THE DRAWDOWN MODEL

A virtuous cycle of collaborative research, communication, and action – built on the principles of collective impact.



DRAWDOWN

Contact us at:
research@drawdown.org