

Connecting diverse ecosystems for global impact

Global Issues

The most recent World Economic Forum Global Shapers Survey, an annual survey of 31,000 18- to 35- year olds in 186 countries, found that climate change was the most worrying issue for young people worldwide. Nearly half (48.8%) of the survey participants chose climate change as their top concern and 78.1% said they would be willing to change their lifestyle to protect the environment. The concern over climate change, however, varies widely." to "Climate change awareness varies widely. In another survey, Pew Research found that citizens of Latin American and sub-Saharan African countries were the most concerned about the effects of a warming planet, while people in the United States and China, the largest CO₂ producers, worried least. 5



To mitigate climate change, it is becoming clear that the work has to move beyond the science to policy and individual action. There is no single panacea that will shift the current realities of a warming planet, changing biodiversity, unpredictable and more extreme weather patterns, drought, and population pressure. But our Fellows are leading the way to show how cross-border collaborations and new consumer demands can address an issue that is bigger than all of us.

World Economic Forum (2017) Global Shapers Survey. Retrieved from http://www.shaperssurvey2017.org/

The Headlines

US pulls out of Paris Climate Agreement

Weather Channel 6/1/17

Think The Migration Crisis Is Bad? Climate Change Will Make It Far Worse

WBUR 11/28/2018

How climate change could be causing miscarriages in Bangladesh

BBC 11/26/18

UN report says fragile climate puts food security at risk

Washington Post 11/27/18



^{5.} Stokes, B., Wike, R. and J. Carle (2015) Global Concern about Climate Change: Broad Support for Limiting Emissions. Pew Research Center.

New Ideas

In the face of climate change, building resilient and sustainable communities and finding innovative pathways to improve natural resource management is of vital necessity. We have found in our analysis of this year's Fellows that fostering and strengthening bottom-up, entrepreneurial, and inclusive approaches is a key way to address the various facets and complexities of climate change. Our Fellows focus on both individual changes and more systemic, global collaborations to mitigate the effects today and to offer solutions for adaptation into the future.

Global collaboration

By 2100, it is estimated that nearly half of the marine species may be on the brink of extinction. Illegal fishing, plastics pollution, and global warming are quickly decimating marine biodiversity and ecosystems, resulting in regional instabilities with rippling effects. After 25 years fighting illegal fishing in the Mediterranean and North

Large-scale actors committed to large-scale change are important to mitigating the effects of lost biodiversity, food insecurity, and human migration. Through her organization, GoodLands, Molly Burhans is using technology to inform environmental planning that moves beyond national boundaries and is helping one of the world's largest landholders, the Catholic Church, recognize the role they can play in climate change action. The Catholic Church had never kept a central, digital record, so Molly has deployed Geographic Information Systems mappings to organize data on their landholdings. Her team surveys the properties, assesses how they function, and combines the information with other available data to analyze how the lands can best be managed to contribute to local ecosystems and communities. This contributes to a robust, dynamic, and cloud-sourced map that helps dioceses, religious orders, and other large landholders make informed decisions



Africa, Wietse Van der Werf realized that more needed to be done to protect fish stock and conservation efforts in Marine Protection Areas (MPA). To respond, Wietse designed an initiative called the Sea Rangers. The organizational model combines the empowerment of unemployed youths and reintegration of navy veterans to provide a concrete solution to severe global human capacity shortages in the monitoring of MPAs. Sea Rangers are not mandated enforcers; instead they monitor and collect evidence and data that enables national agencies to improve the effectiveness of conservation efforts. Wietse's innovative ideas have attracted broad backing from the Netherlands and United Kingdom governments where the initial pilot programs have begun, but the vision is seeing traction in many countries around the world.

6. UNESCO (n.d.) Facts and figures on Marine Biodiversity. Retrieved from http://www.unesco.org/new/en/natural-sciences/ioc-oceans/focus-areas/rio-20-ocean/blueprint-for-the-future-we-want/marine-biodiversity/ facts-and-figures-on-marine-biodiversity/ about land use. Molly knows that the technology and tools GoodLands is building have the potential for broad applications by other large landholders.

Knowledge management and communication at a global scale is also important to Oriol Vilalta, who has built a global community of researchers, firefighters, and civil society members to create new solutions to make forests and rural areas safer and more prosperous. His Pau Costa Foundation, founded in 2011, has created a central knowledge hub about fire prevention and standard operational plans to increase efficiency. They also, disseminate research and lobby for fire management approaches. His platform has connected experts from 30 countries on 4 continents with over 2,500 specialists attending learning events and expeditions. His advocacy methods have led 500 allies, including influential organizations like Greenpeace and the WWF, to focus conservation efforts and resources on prevention and management.



Creating demand for ethical food systems

Several Fellows this year are focused on the urgent and pressing need for food security and food waste solutions as part and parcel of our adaptation to climate change and environmental pressure. Raphael Fellmer is a pioneer in Germany who is now mainstreaming and commercializing saved food to solve this global problem. Food waste is largely a problem of overproduction since food producers must meet high consumer demand standards. Raphael began by matching retailers, bakeries, and restaurants with individual actors - food-saving volunteers - who picked up and distributed saved food. But to reach scale and create consumer demand, he restructured his intervention. Sir Plus, his latest venture, commercializes the practice by establishing stores and an online delivery service to enable customers to buy saved food at much lower price points than conventional retailers. Three stores are open in Berlin with over 150 suppliers currently providing surplus food with new suppliers being added each week. Raphael is planning to roll out a social franchising model to scale across Germany.

In the United States, **Paula Daniels** has set a standard for ethical food

sourcing that supports local economies, public health, labor, animal welfare, and the environment with the creation of her organization, the Center for Good Food Purchasing. She began this work in public schools in Los Angeles, Oakland, and San Francisco and is currently piloting the work in Austin, Chicago, Denver, Cincinnati, and Washington D.C., with the ambition to change the food systems used to feed students. The standards she has identified have guiding metrics with targets on procurement (for example, purchasing seasonally) and food service environment (like eliminating deep frying), and she acknowledges existing standards in her guidelines as well. Paula is showing us the way to build new ethical food systems while creating a national demand.

Influencing lifestyle and behavior change

Raphael and Paula are working to change food systems for environmental impact through the demonstration of sustainable market models. Other Fellows are working to shine a light on how individuals can play a role in mitigating climate change. In Mexico, Julio Alvarez works with school communities to incorporate environmental practice into the regular curriculum. His or-

ganization, Grupo Promesa, offers a primary and secondary curriculum focused on student-led and sustainable adoption of responsible waste management. The pedagogy promotes eco-friendly behaviors within and outside the school. He currently works in 188 schools in Mexico City and reaches 130,000 students and their teachers with an average of 70% participation.

Deforestation in many parts of the world is a continued problem that contributes to the warming of the planet. Smallholder farmers who do not have the funds to invest in land productivity will often cut back trees to increase their arable land. Or due to economic hardship, they will sell timber or charcoal to make ends meet. Federico Garcea and his organization, Treedom, create an alliance between smallholder farmers and virtual supporters to fight deforestation by enabling people and companies to plant trees remotely and offset CO, emissions. Treedom also empowers local communities in 11 countries to start new agricultural enterprises by helping them fill the time gap between planting a seed and harvesting a tree. Since its founding in 2010, the organization has planted over 450,000 trees with 27,000 farmers and has offset more than 163 million kilograms of CO₂

Spotlight on:

Incentivizing Forest Conservation

Since the 1960s, over half of the tropical forests worldwide have been destroyed globally. Deforestation leads to habitat and biodiversity loss, soil degradation, and water quality and access. Over 20% of all carbon emissions come from deforestation, unsustainable usage, and rural poverty. Common contributors of these negative external effects include the demand for land housing, harvesting timber for natural resource extraction, like palm oil, and creating room for cattle ranching.

Two Fellows this year are working at the intersection of conservation and economy to protect forests and provide incentives to build coalitions to stop deforestation.

Andreas Eke plants Generation Forests in Panama which are a mix of natural forest biodiversity and high valuable timber trees. In partnership with Yale University's Forestry School, the Smithsonian Tropical Research Institute, and other research institutes, Andreas has identified tree species that complement each other and are profitable in the short and long terms. Even more importantly, Generation Forests are planned specifically to be planted in degraded soils and reintroduce native tree species. Andreas organization Futuro Forestal began in 1994 by building "better practice plantations" for teak in Panama and Nicaragua and introduced the Generation Forest concept in 2007. So far, they have reforested 8,000 hectares in better practice plantations and 1,000 hectares of Generation Forest.

In the Malaysian state of Sabah, conservation efforts to protect old-growth rainforests have been hit or miss. Even with protected government forest land, the area continues to see a rapid decrease in forest cover due to logging and the demands of palm oil and mining. Cynthia Ong's organization Forever Sabah, a collaborative social movement, is focused on building an ethical circular economy focused on four focus areas: livelihoods, tourism and enterprise; forests, water and soil; food, agriculture and fisheries, and energy, infrastructure and waste.8 Projects are determined by the citizens of Sabah on issues that are most important to them. For example, Forever Sabah has rolled out a sweeping sustainable palm oil initiative where the entire palm oil sector in the state would be sustainable by 2025. 100% of palm oil produced, sourced, or used on Sabah will be certified by the Roundtable on Sustainable Palm Oil (RSPO). This is a global first and monumental in Malaysia where the certification has been highly controversial.

The Opportunity:

Global Connections

How can we engage more people to see their role in climate change solutions?

Societal response to climate change today will determine its effects on future generations. How we consume and produce energy changes fundamental natural forces on the planet – the rise in average temperatures, the circulation and biodiversity of our oceans, and the nutrient quality in plants. Every living organism and its health and wellbeing are affected by climate change.

We now know we need more social innovation for climate equity and decarbonization to counteract these threats and to enable us to manage and plan for uncertain future conditions. Everyone needs to be involved to mitigate and adapt to environmental change. The fifteen Ashoka Fellows contributing to climate change solutions this year join more than 400 Fellows innovating for the environment, including many of whom are directly addressing climate change adaptation and mitigation efforts.

As Ashoka continues to scan for more innovators with unique solutions to solving the multi-faceted angles of environmental degradation and climate change effects, it also seeks opportunities to amplify and accelerate innovations for more collective impact by helping convene teams to scale impact, match make solutions with key stakeholders, and cultivate a global conversation to influence others to adopt and spread solutions.



International Union of Conservation of Nature (n.d.) Deforestation and Forest Degradation. Retrieved from https://www.iucn.org/resources/issues-briefs/ deforestation-and-forest-degradation

^{8.} For more on the circular economy and Ashoka's efforts to bring stakeholders together to challenged traditional linear economies (make, use, dispose) and keep resources in use for as long as possible see: https://ashoka-circularfutures.org/

About Ashoka

Ashoka believes the most powerful force for change in the world is a new idea in the hands of the right person. With this conviction, we pioneered the field of social entrepreneurship 38 years ago. Ever since, we've bet on the optimists and the adventurous among us who see the world not as it is but as it should be. Year after year, they forge new pathways to get us there, growing unexpected ideas into transformative social progress.

Leading social entrepreneurs are not heroes working in isolation. Their success depends on creating roles for ordinary people — parents, refugees, computer scientists, farmers, and young people — to play an important part in the solution. With each new leading social entrepreneur we nurture, therefore, Ashoka is creating a different kind of future: one where each of us looks inside ourselves and sees a changemaker.



Methods

Ashoka's approach to supporting tomorrow's social innovations

After 38 years of electing the world's leading systems changing social entrepreneurs, Ashoka knows how to find new ideas. For this analysis of our 2018 Fellows we tapped into the resources of our Ashoka process to mine the reports, interview notes, reflections, and writings of our teams across the globe who are expert innovation spotters and who have deeply examined the work of potential Fellows. The learnings, patterns, and insights we cull during the rich Fellow selection process provided the baseline data for this report.

Partner with us

We are always looking for new partners to help us find and support Ashoka Fellows around the world to advance systemic change in new and growing fields. please contact Maria Clara Pinheiro mpinheiro@ashoka.org for more information on how you or your organization can help us continue to grow the largest global network of social entrepreneurs.

Donate to Ashoka's Global Venture Fund

Global Venture Fund is a pool of philanthropic funds dedicated to finding and electing new Ashoka Fellows. The Fund prioritizes supporting the search and selection of social entrepreneurs in emerging or underrepresented areas of innovation, and under-resourced geographies. Please visit ashoka.org/donate and indicate Global Venture Fund in your donation.



Do you know a systems-changing social entrepreneur who could benefit from the financial and network support of the Ashoka Fellowship? Nominate them at ashoka.org/engage/recommend/fellow.

