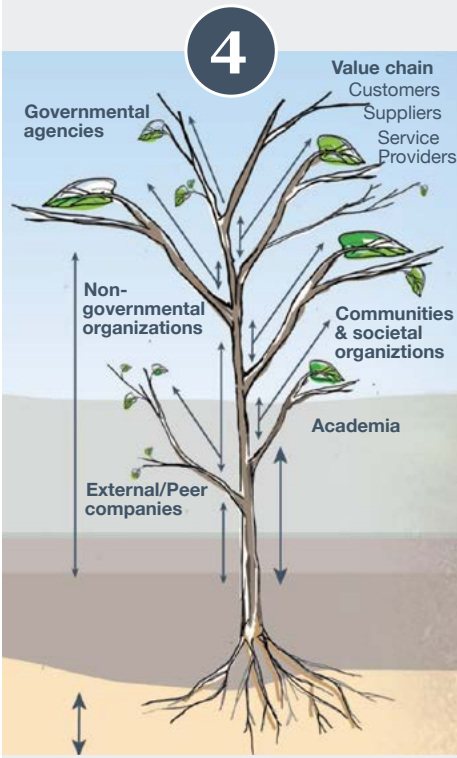


Collaborating to Grow Impact Across Sectors

Collaborate externally

4



Nature has no fence lines. Branch out!

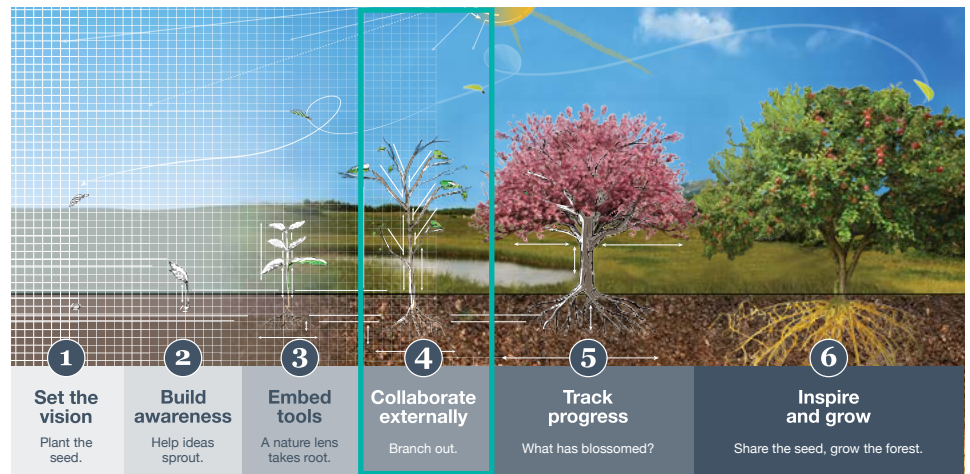
Dow actively collaborates with customers, suppliers, communities and governments around the world in pursuit of the next solutions for a sustainable future. Learn more [here](#).

There is a tremendous opportunity for businesses, governments and social organizations to derive inspiration from nature, collaborate and leverage its capabilities.

The Nature Goal has established the business case for valuing nature within Dow and has laid a groundwork through a developed set of tools and methodology that can be applied to other organizations and partnerships with the focus on larger outcomes related to watershed and climate resiliency.

Further together

Business, government and civil society alliances are essential to ensure the [UN Sustainable Development Goals](#) are met by 2030. The shift to placing a value on nature and incorporating diverse perspectives and collaborations is required to address global challenges. The Nature Team continues to seek opportunities to develop case studies and share best practices with the world. For example, Dow held joint workshops with both the United States Army Corps of Engineers (USACE) and The Nature Conservancy (TNC), which captured value from all three organizations at once. The possibilities are only limited by the imagination and true innovation comes from creatively leaping outside that box, so go ahead and branch out!





**US Army Corps
of Engineers®**

**natural
capital**
PROJECT

INSTITUTE ON THE
ENVIRONMENT
UNIVERSITY OF MINNESOTA
Driven to Discover®

Examples of external collaboration among a variety of stakeholders

Sector: Non-governmental organizations

TNC has been a key collaborator in Dow's journey with nature since 2011, with a collaboration built on the shared values of: protecting the planet, developing a science-based approach to measure the tangible benefits of nature and providing options to integrate this into land and natural resource use decisions.

One can imagine this collaboration was a big step for both TNC and Dow, but it paid off with overwhelmingly successful results. Martha Rogers, a natural capital economist and member of the Dow/TNC team, described the evolution of the collaboration in the article "[Reinventing a Lasting Collaboration with Dow.](#)" The initial seven years focused on demonstrating that nature-based solutions can be good for business and better for nature. The next three years focused on the joint development and launch of the tools and processes described in the Valuing Nature blueprint. Examples of the Dow and TNC collaboration in-action can be found [here](#), as well as this [Business Wire article](#).

Sector: Governmental agencies

The US Army Corps of Engineers (USACE) [Engineering With Nature \(EWN\)](#) initiative seeks to align natural and engineering processes to deliver economic, environmental, and social benefits efficiently and sustainably through collaboration. Beyond sharing learnings related to nature-based technologies, USACE, Dow and TNC are exploring potential nature-based solutions to address issues such as climate adaptation and coastal resiliency along the US Gulf Coast.

Recently, Dow held workshops with the USACE EWN team to share project examples and learnings, as well as identification and valuation tools for other nature-based projects. Furthermore, four Dow projects were recently featured in the [USACE's Engineering With Nature: An Atlas, Volume 2](#), a publication that highlights global projects that have implemented the principles of engineering with nature.

Sector: Academia

The Natural Capital Project (NatCap) is a partnership of world-class academic institutions — Stanford University, the University of Minnesota, the Chinese Academy of Sciences, and the Stockholm Resilience Centre — with the world's largest environmental NGOs: TNC and World Wildlife Fund (WWF).

NatCap advances science and creates actionable tools to bring the values of nature into decisions. TNC and Dow collaborated with NatCap to develop the **Nature Scorecard**, which integrated global data on the environmental conditions at all Dow sites. This data is used to assess the relative importance of a project's proposed impacts to the environment. The partnership intended for the Nature Scorecard to eventually be considered alongside traditional financial metrics for evaluating project performance, such as internal rate of return (IRR) and ROI. After rounds of tests and the launch of the Scorecard within Dow, plans have been discussed to release a public version of the tool.



Sector: Value chain (customers, suppliers, service providers)

Collaborating with customers on projects that are better for sustainability as well as business is the nature of what Dow's Global Research & Development (R&D) organization does every day. Whether Dow is providing anti-foam emulsion that is better for the environment or packaging that is more readily recyclable, there are countless examples where the Company aims to design and manufacture products that are more sustainable. Not only is Dow receiving growing requests from customers to develop sustainable materials, but it's also holding suppliers and service providers to the same standards.

An example of this is the update Dow made to the language in the Master Service Agreements around its expectations on sustainability. Working with suppliers to advance end-to-end transparency will help the Company understand and reduce its impact on the climate. In North America, we are leveraging technology to reduce the number of trucks hauling material to customers by consolidating shipments to improve trailer utilization. A transportation optimization engine is helping identify shipment consolidations when products can be shipped together while respecting all relevant constraints, including but not limited to material compatibility, route, temperature requirements and delivery times. In 2020, more than **1,500 shipments** were consolidated. The estimated emissions reductions were more than **8,000 metric tons** of CO₂.



Photo credit: Restore the Earth Foundation

Sector: External/Peer companies

Dow [announced](#) a joint development agreement with Shell in June 2020 to develop electrified cracking technology that could be powered by renewable energy, a breakthrough that would dramatically reduce global CO₂ emissions. Ethylene steam crackers supply chemicals used to make products that people use every day. However, today's steam crackers rely on fossil fuel combustion to heat their furnaces, making them CO₂ intensive. The use of renewable electricity to heat steam cracker furnaces could become one of the routes to help decarbonize the chemicals industry. The challenge is to now develop a technologically and economically feasible solution.



Photo credit: Jen Molnar of The Nature Conservancy

Sector: Communities, society

Wetlands and woodlands are critical to the social communities and wildlife they serve. In support of Dow's Official Carbon Partnership with the International Olympic Committee, and in partnership with Restore the Earth Foundation, **400 acres** of bald cypress trees were planted to help rebuild the lower Mississippi River Basin. The project is expected to generate an estimated **80,000 metric tons** of CO₂ emissions reductions and **\$22 million** in environmental, social and economic value in the region over a 40-year period. These benefits were quantified in the [Restore the Earth Foundation Cypress Reforestation Social Return on Investment Report](#).