Climate change is projected to increase the frequency and intensity of extreme weather events around the world.

Addressing climate change requires a holistic, comprehensive strategy. Trail bridges have the power to build transformational resiliency for isolated communities impacted by extreme weather events while also playing a vital role in a climate change prevention strategy.

With weather events becoming increasingly unpredictable, safe access like that provided by trail bridges will be even more crucial to ensuring rural farming communities can adapt and thrive.

\[
\begin{align*}
100\% & \text{ increase in intense rainfall events projected in East Africa by end of century} \\
12\% & \text{ projected reduction in net crop revenue in East Africa by 2100} \\
60-90\% & \text{ of the total labor force is employed by agriculture in Sub-Saharan Africa}
\end{align*}
\]

"Droughts and dry spells will be more frequent, rain more inconsistent, and torrential downpours heavier, all phenomena that increase the risk of soil erosion and vegetation damage through runoff."

-International Food Policy Research Institute

Providing Isolated Communities with the Tools to Adapt

The access that trail bridges provide fundamentally changes how households in the rural farmlands assess risk and, ultimately, behave. These households now have options:

- When a drought threatens crops, they can seek wage labor to supplement their farm income.
- When intense storms become a regular occurrence, families can direct newly-earned income to build water management systems and take erosion-prevention measures to protect their families and their goods.
Encouraging Safe and Convenient Non-Motorized Traffic Options

Trail bridges like those B2P constructs allow rural farmers to sustain a non-vehicular way of life. The United Nations has reported extensively on the shift to urbanism in frontier and emerging market countries and the concern that as emerging market countries become more developed, their carbon emissions will follow suit.

Trail bridges are a proven path for individuals in these countries to advance their quality of life outside of the seemingly inevitable shift from a walking society to one reliant on combustible fuels.

- Increase in off-farm labor market wage earnings, which would typically be lost during a flood event and are instead saved by trail bridge access
- Decrease in the portion of harvest that families store for their own consumption because of a B2P-provided trail bridge, so that they have more crops to sell at markets

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Environmentally Conscious Design

A focus on limiting environmental impact extends to the way B2P constructs bridges:

- Built at river crossing points established by local communities, so excavations and construction don’t significantly disrupt previously undisturbed land.
- Small footprint - We don’t utilize mid-span piers in any of our designs, meaning we don’t modify river flow.

Additionally, with each project, we divert waste and used materials from shipping ports and large construction projects by directly repurposing steel cables, clamps, and tubes on our bridges.

When rising temperatures make long walks infeasible, families can choose to send their children to the closest school, just on the other side of the river, rather than one that doesn’t require a river crossing but is three miles away.

2,100 Tonnes of CO2 emissions saved annually by making it possible for a single community in Rwanda to employ safe and convenient non-motorized traffic options

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bridgestoprosperity.com
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Question? Please contact us:
info@bridgestoprosperity.org

30+ Years
Lifespan of B2P’s steel deck bridges