

February 7, 2022

ZGF Architects Builds a Transparent and Inclusive **Timber Assessment Tool**

Disruptors competition, is an open-source calculator that designers with a comprehensive view of the carbon impa-of their wood-based materials choices.

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Disruption in technology is often associated with regative consequences like social disorder, environmental degradation, and economic marginalization. Facebook from Meta) Jounder Mark Zuckerberg animed up this ethos with his early motor "Move fast ana-tive law for the distribution of the beneficial. When done right, it can encourage health, welfness, efficiency, and equity. In that expirit, Meteopolis is child to absure the winners of its first Responsible Disruptors program, honoring AAD technology projects that represent significant change for the better.

"The assumption that all wood is good doesn't align with our goal of being leaders in the design community. We want to figure out which is the best and create a demand response for that in order to accelerate our mitigation of climate change," says Jacc Dama, associate principal at 2027 Architects, Dunn is part of 2027's Northwest based team that created the Upstream Fewenty Dama, associate principal at 2027 Architects, Dunn is part of 2027's Northwest based team that created the Upstream Fewenty Carchine Calchon 6. LOX Tool, partnerships with the University of Vashington's Applied Research Construitm. The few, open-source wood life cycle calculator—incorporating input from design experts, researchers, and enfortemental advocacy groups—was launched to the public in beta mode in August 2021 to provide designes, engineers, and corractors with a clearer and more comprehensive way to evaluate the carbon impacts of their wood based material choices.

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UpStream provides a comprehensive view of wood's carbon footprint by comparing different biogenic carbon storage assumptions, forest carbon sequestration factors, and custom end of life scenarios using multiple data sets. "An existing tool might offer a checktor to include biogenic carbon or not, but that was too simplistic; explains Marty Brennan, 2GF associant principal. "We wanted to be seeing what was happening under the hood of those calculations." UpStream's data integration also enables users to have a more transparent understanding of product sourcing. "This tool has allowed us to have deeper conversations about diversity and equitable sourcing," says Dunn. "We don't want to just focus or juvestern Oregoni forests as the main carbon sequestration engines and leave out the east side [of the state], which is dealing with overstock forests that are catching on fire."







Tags: Erin Langner, Responsible Disruptors, ZGF Tags: Sustainability, Technology







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