This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



The Value of Landscapes in Climate Action Plans

HUNTER INDUSTRIES

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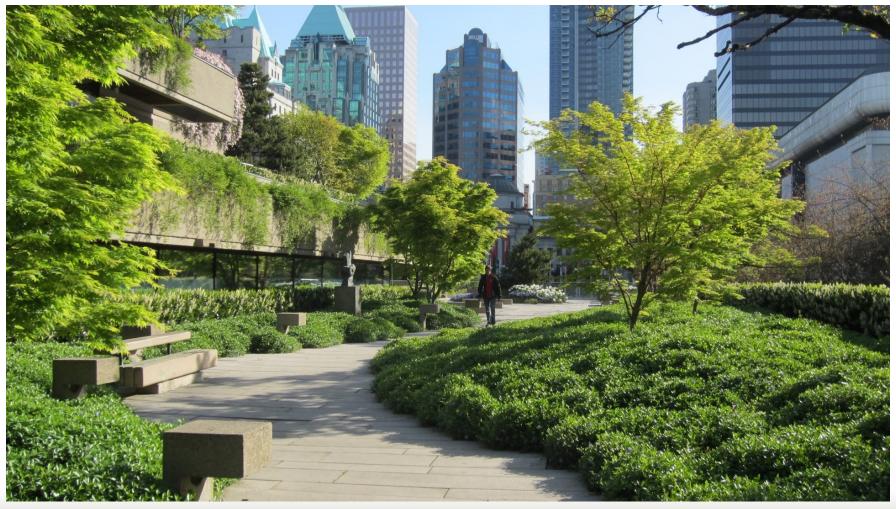
Bryce Carnehl & Warren Gorowitz



October 2019

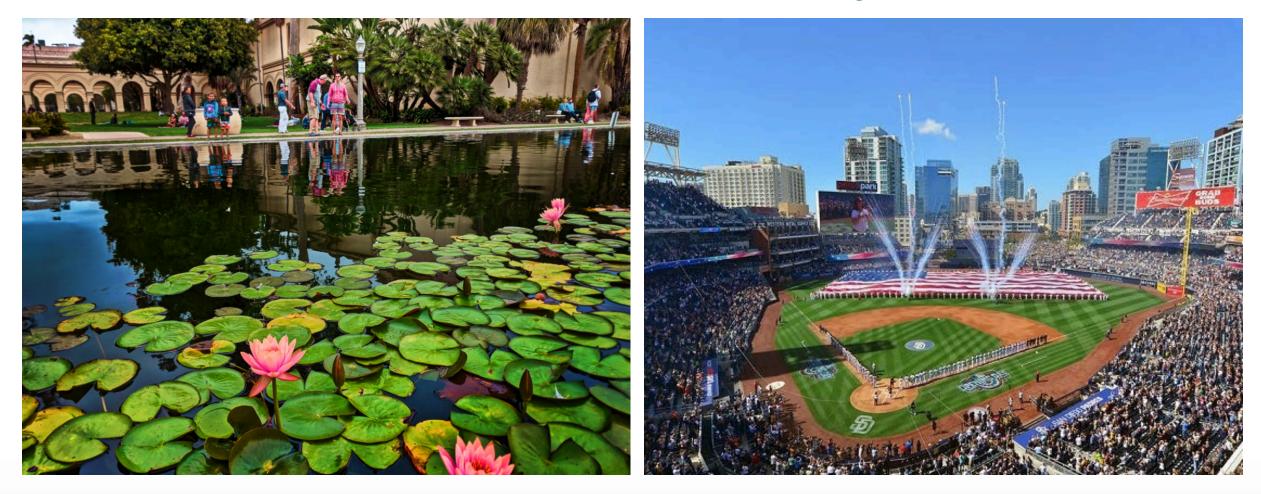


Green Infrastructure





Green Infrastructure: Community





Green Infrastructure: Health and Well-Being





Green Infrastructure: Environment







Green Infrastructure: Economy





Green Infrastructure: Performance

05.02.17

These Cities Are Replacing The Worst Kind Of Infrastructure With The Best

R.I.P. parking lots.



3/7 [Image: courtesy SWA]

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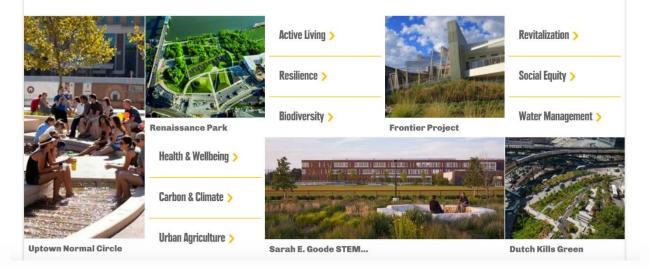
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Case Study Briefs Fast Fact Library Benefits Toolkit Collections

More ~

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The Landscape Performance Series is the online set of resources to help designers, agencies, and advocates evaluate performance, show value and make the case for sustainable landscape solutions.



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Green Infrastructure

"Based on ample evidence from the research literature, it is suggested that urban GI planning can make a major contribution to conserving and enhancing biodiversity, improving environmental quality and reducing the ecological footprint, adapting cities to climate change, and promoting social cohesion. In addition, GI planning may support the shift toward a green economy."

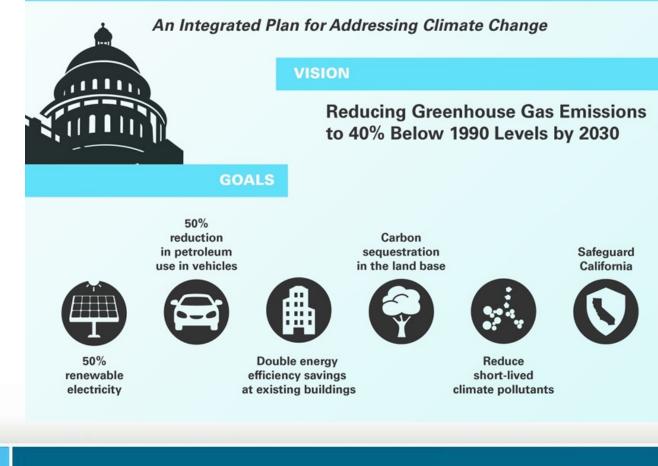
Urban Landscapes and Green Infrastructure

Stephan Pauleit, Rieke Hansen, Emily Lorance Rall, Teresa Zölch, Erik Andersson, Ana Catarina Luz, Luca Szaraz, Ivan Tosics, and Kati Vierikko



Green Infrastructure: Climate Action Plans

CALIFORNIA CLIMATE STRATEGY



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Green Infrastructure: Climate Action Plans

SUSTAINABLE MANAGEMENT PRACTICES TO REDUCE EMISSIONS. BUILD CARBON STOCKS AND INCREASE RESILIENCY

Climate-Friendly Farming

dedicated to agriculture. Agriculture accounts for 14% of all of GHG emissions (IPCC, 2007). with significant emissions generated from soil tillage, erosion, imgation, fertilizer use, biomass burning and livestock management. Including the estation that often precedes agricultural expansion - occurring at the highest rates in the world's carbon-rich tropical forests - agriculture is ultimately responsible for nearly one-third of all CHG emissions (WRI, 2008). Alternatives exist: sustainable, climate-friendly agriculture can conserve forests, reduce emissions and prepare farmers to adapt to changes in their climate.

Thirty-eight percent of the Earth's land area is

The Rainforest Alliance and Sustainable Agriculture Network (SAN), in close collaboration with project partners including Efico, the Efico Foundation, Anacafé and others, are developing the means, tools and guidance for farmers to engage in climate-friendly farming. Our Goals

Provide fermers with practical tools and guidance to carry out climate-friendly practicas

ale, ergagi

munity of

Climate-friendly farming means farmers are reducing GHG emissions, increasing carbon storage on their farms and improving their ability to adapt to a changing climate.

A Leading Standard, More Climate-Friendl

 Criteria to guide farmer adoption of best practices to reduce climate impacts and adapt to a changing climate - a "climate module" Voluntary add-on to the SAN rd — a leading sustainab ture certification used by over 80,000 farms in nearly 30 tropical and subtropical countries Module can be applied on all certified farms, which cover over

Sustainable

Agriculture

Network

Extensive Research, Testing and Consultation

climate proctice

Work began in July 2009, in close collaboration with leading research institutions, local conservation nonprofits, companies and desors.

mate change and demo Experts' analyses of SAN Standard and draft offenia; thorough literature reviews to assess the state of the science and answer the question "whot is best how they are doing so increasing their farms resili roactively planning for change and, as appropri-

 Plict audits in multiple crops and countries to assess implementation and identify gaps, together with farmers and local stakeholders with their con Enable farmers to benefit from the

Public consultations in Central and South America, East, and West Africa and Southeast Asia: a 100-day online climate services their sustainably managed londs provide consultation yielding comments from 40+ countries

EFICO FOUNDATION Anacaté EFICO Caribou Scores

Good for Farmers, Agriculture and the Climate

 Proactive preparation for risks posed by climate change, including extreme weather events Improves bottom line: cut costs in the near-term

ing energy and water use, optimize on of fertilizers and shade on-ferm ntly and cost-effectively generate data for m monitoring enable food and beverage aries to address CHCs in their supply chains Farmers better positioned for potential inclusion in Payment for Dreitonmental Services systems Reduce emissions and increase levels of carbon stored on farms throughout the tropics

RCCKEFELLER

FOUNDATION

auditors

The Path Ahead Education and awareness raising activities for farmers and local stakeholders

Training tools and guidance for farmers, extensionists an Comparative farm research in East and West Africa, Southeast Asia and Latin America

Raise awareness to generate support for this work in supply

Rainforest

Alliance

www.rainforest-alliance.org

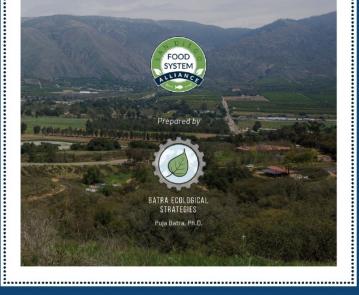
Ho Randovar Alfance works to con

nd ensure sustainable likelihoods by standistming land-use

LINKING CLIMATE-FRIENDLY **FARMING PRACTICES TO SAN DIEGO COUNTY'S CLIMATE ACTION PLAN:**

An Opportunity Analysis of Carbon Farming in the Unincorporated County







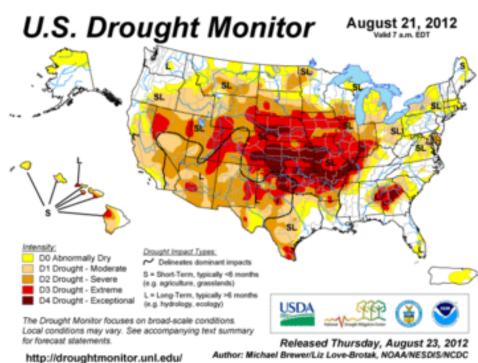
Green Infrastructure: Irrigation





Times of Crisis







Times of Crisis











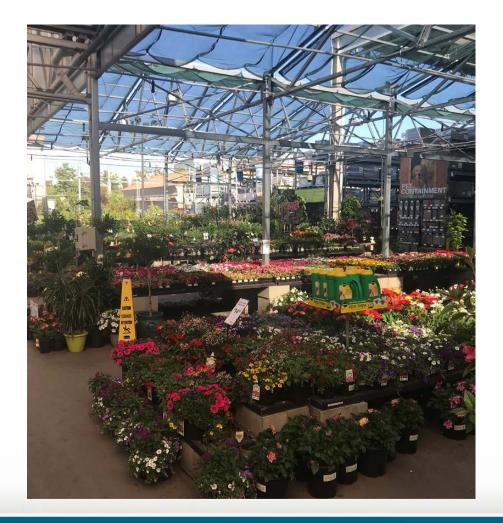


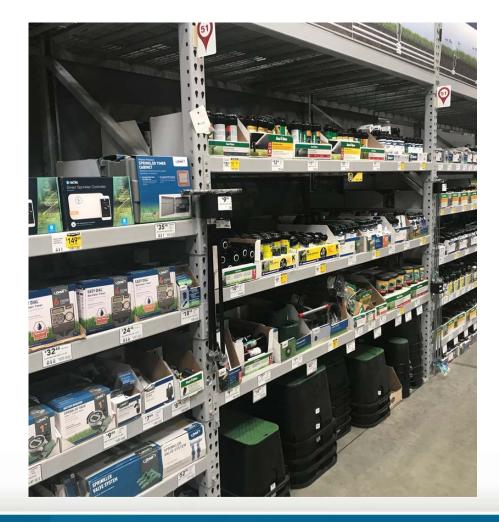


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Times of Crisis: Drastic Measures







Times of Crisis: Drastic Measures





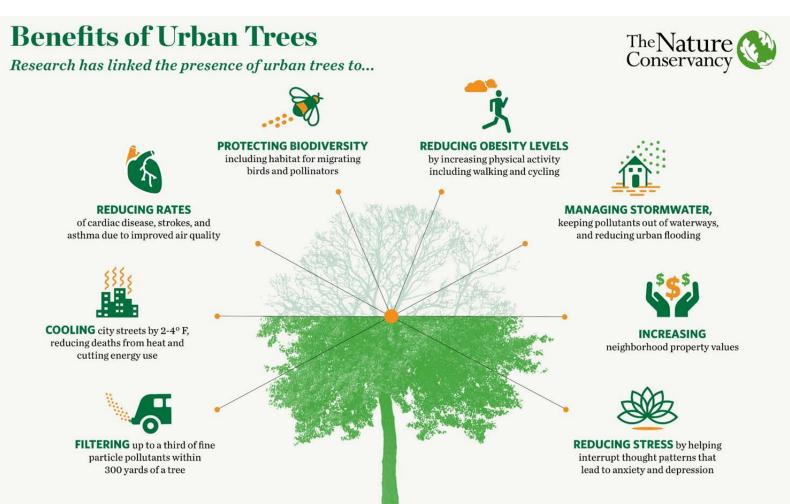


Times of Crisis: Drastic Measures





Times of Crisis: What are we loosing?





Partnerships

Build Partnerships to Sustain Green Infrastructure



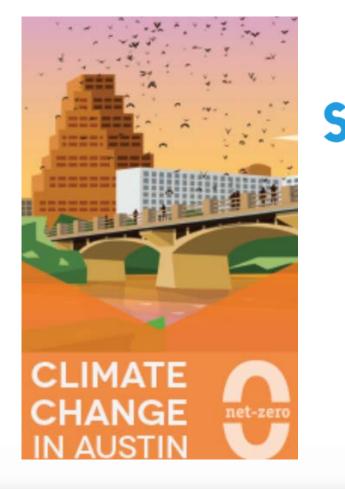


...water plays a vital roll





Partnerships

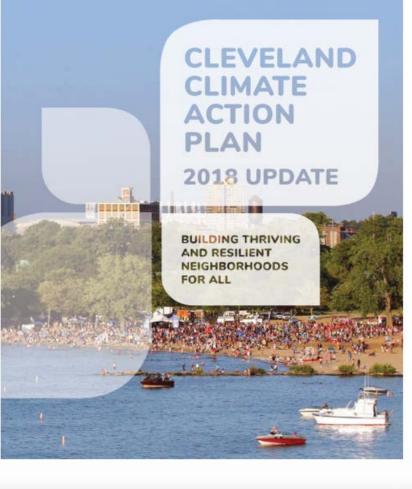




Trees

Trees are integral to meeting San Diego's commitment to climate change, carbon sequestration, storm water runoff reduction, and water conservation. As part of our <u>urban</u> <u>forest</u>, trees are found on both public and private property and help make our communities more sustainable and livable.





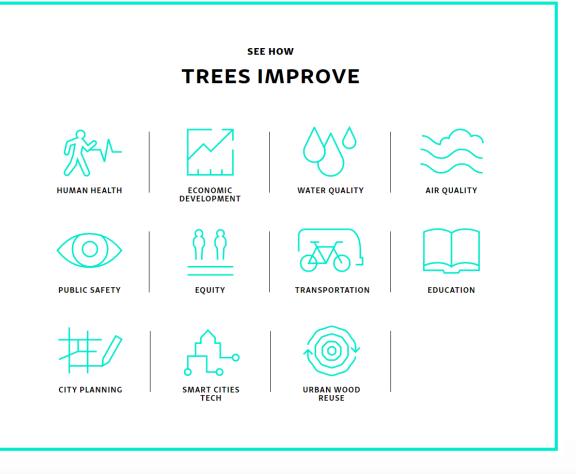


Partnerships



TREES IMPROVE **Urban Wood** Reuse

 Φ With more trees removed from urban areas SHARE SAVE than National Forests, urban wood reuse industrial clusters have emerged that include powering cities, art sculptures and nanotechnologies. They create jobs, protect natural forests and reduce environmental impact.



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Certification



Welcome to NGICP, the standard for national certification of green infrastructure (GI)

construction, inspection, and maintenance workers.



Communication

I CARE ABOUT TEXAS RIVERS

THAT'S WHY I DON'T WATER MY LAWN MORE THAN TWICE A WEEK

JOIN ME: SAVE WATER, SAVE TEXAS!







Green Infrastructure Value





Save Our Water and Our Trees!

saveourwater.com/trees

HELP YOUR TREES SURVIVE THE DROUGHT

IT'S EASY. HERE'S HOW.

BE WATER-WISE. Trees and water are both precious resources. Trees make our houses feel like

YOUNG TREES The roots of younger trees are less established & need

easier access to water to establish deep root systems.

Mature trees require MORE water when growing near heat trees are exposed to hot traps such as driveways & foundations constant wind.

MATURE TREES

mulch to lower soil

EXPOSED TREES **DECIDUOUS TREES** Water loss is greater where The critical time for water is during later winter/early afternoon sun & strong or spring when new buds and leaves are forming





Sustain Green Infrastructure



