Redesigning Schoolyards for Community Resilience: Engaging Partners at all Levels

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"I like to play indoors better because that's where all the electrical outlets are."

— a fourth-grader in San Diego





Risks and Trends in Children's Health

- 60% of obese children (ages 5-10) have at least one cardiovascular risk factor (Centers for Disease Control).
- There is an upward trend in **high blood pressure** in children (ages 8-18) (Journal of American Medicine).
- There is a dramatic **increase in diabetes** in children and adolescents (National Institutes of Health).
- The prevalence of childhood asthma has increased significantly and is especially high in urban communities with high poverty (Journal of Epidemiology and Community Health).



Risks and Trends in Children's Health

- In the past 30-40 years there has been a steep decline in children's physical activity (PA).
- Approximately 50% of youth meet the recommended guidelines of PA.
- 48-69% of youth don't attend PE or recess.
- Since NCLB almost 50% of school administrators have replaced P.E. or recess with more core subject learning.

(Institute of Medicine, 2013)



Green space is one promising strategy for reducing health disparities.

- Families and children who live in lower-income communities have significantly less access to recreational facilities than those in higher-income or predominately white communities. (Powel, 2006; Garcia, 2008; Moore, 2008)
- Access to parks and recreational facilities is associated with lower body mass index among children and increased physical activity among adults. (Wolsch, 2010)
- Communities with high poverty appear to benefit proportionally more from green space access than those with higher-income. (Mitchell, 2008)



American Public Health Association (APHA) released a policy statement in November 2013 that encourages "land use decisions that prioritize access to natural areas and green spaces for residents of all ages, abilities and income levels."



"Abandoned lots and stray dogs make healthy living harder. I would not want to run or walk here."

- Tarneisha J., Wheatley High School



Why schoolyards for increased access to green space?



During school children can have an enhanced recess and P.E. environment and learn all core subjects outdoors math, science, reading, writing.



After school programs can enhance outdoor learning and play with a rich environment with a high variety in activities.





Children can increase physical activity on green schoolyards where they jump, climb, dig, lift, rake, build, and get more moderate PA in a non-competitive play environment.





Schools are community hubs for families and neighborhoods.





Physical Benefits of Green School Grounds: The Latest Research

Schoolyard designs that include natural **elements increase moderate physical activity** (Nedocic & Morrisey, 2013; Pagel et al., 2014; Brink et al. 2010).

Green schoolyards are more effective at engaging children of all fitness levels (Barton et al., 2014).

Settings with a mixture of green and built elements shows promise in **increasing girls physical activity** and children **of mixed age levels** (Pagel et al, 2014; Martensson et al., 2014).

Mental and Cognitive Benefits of Green School Grounds: The Latest Research

Green schoolyards **significantly decrease stress levels** and enhance psychological wellbeing (Kelx, Evand & Roderer, 2013).

Schoolyard natural areas enable students to **escape stress, focus, build competence, and build supportive social groups**. (Chawla, Keena, Pevec & Stanley, 2014).

Contact with school ground green open spaces is associated with better performances on tasks requiring **direct attention** (Carrus et al., 2012).

Children exhibit more positive social behaviors on green school grounds (Carrus et al., 2012).

Academic Benefits of Green School Grounds: The Latest Research

Academic performance is enhanced in **reading, writing, math, science** (Williams & Dixon, 2013; Blair 2014; Smith, 2013).

Natual environments increased **student engagement** in learning and **more time spent on task** (Smith, 2013; Rios & Brewer, 2014).

Views of nature-rich areas with trees and shrubs contrasted with views of fields, lawns and parking lots are positively associated with:

- Standardized test scores
- Graduation rates
- Plans to attend 4-year college (Matsouka, 2010)





THE CHILDREN & NATURE NETWORK IS FUELING THE WORLDWIDE
GRASSROOTS MOVEMENT TO CREATE A FUTURE IN WHICH ALL CHILDREN PLAY,
LEARN AND GROW WITH NATURE IN THEIR EVERYDAY LIVES.



C&NN Green School Grounds Project

Scientific Literature Review

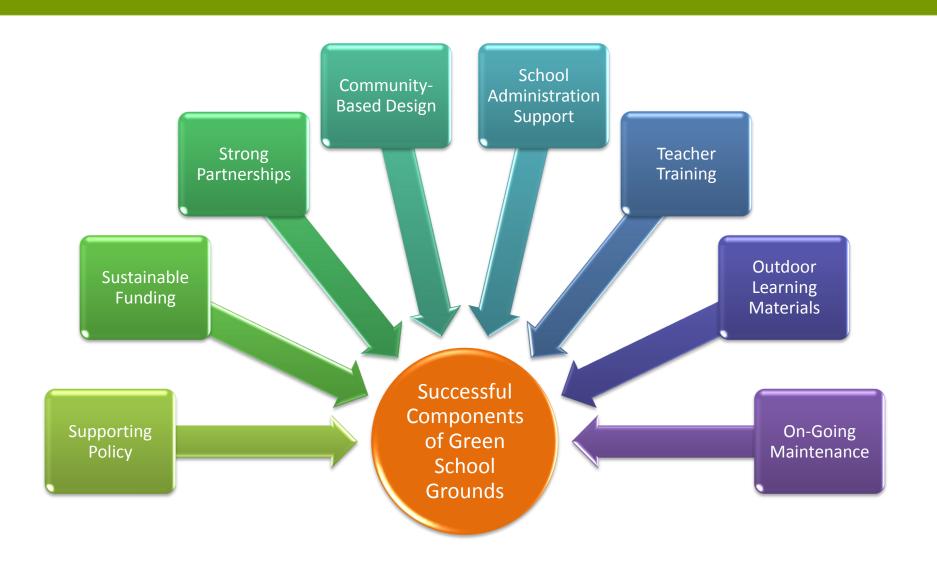
Interviews with Key Leaders in the Field

Focus Groups with Community Stakeholders

Site Visits

Research in Best Practice Models







Partnerships are key
to creating green
school grounds
because schools can't
reach their goals alone

Trust & Relationship

Sustainable Financial Model

Partnerships for Green School Grounds

Broad Constituent Engagement Shared Interests and Goals





"The Healthy Schools Act of 2010 was a game changer.

It ended up being a connector for all of us who had

been doing school gardens for years."

Sarah Holway, DC Greens



Groups have been working together for decades

Policy allows for sustainable funding



DCG convene groups to support schools

Non-profit orgs coordinate efforts



SPARK helps public schools develop their playgrounds into community parks.

Funding Partners include:

Government

City of Houston Housing and Community Development

Department (Federal Block Grants)

City of Pasadena

Houston City Council

Houston Mayor's Office (office space/supplies)

Harris County Precincts 1, 2, 4

Foundations

Corporations

School Districts

Non-Profits

"We believe this funding model can be replicated, but there would be different players, different partners, and different systems in place to make it happen." Kathleen Ownby, Spark Park



Relationships building since 1983

Multi-Source funding with government dollars at the center

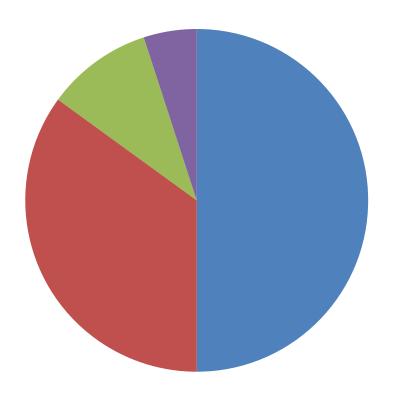


Long-standing commitment to projects by local non-profits

School and city set common goal of community access



Funding Partners





- Corporate
- Foundations
- Earned Income
- Individuals

"We want to be a partner in every sense of the word—beyond the check. We love to have opportunities to engage our employees in the community. And the garden addresses so many diseases, including physical activity."

--Dr. Catherine Oliveros, Blue Cross Blue Shield of Texas





RSG Staff works hard on school district administration relationships

Fulltime staff includes

Director of Corporate

Relations



Connect broad spectrum community partners to 5 school districts

Corporate funders get
their objectives
accomplished through the
gardens with shared goals



TOTAL OF 475 CAMPAIGNS IN 48 STATES AND 16 COUNTRIES WORLDWIDE

Campaigns listed include grassroots coalitions, family nature clubs, and youth-led community efforts.





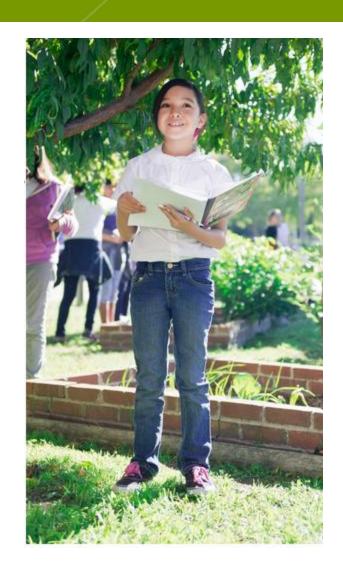
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www.childrenandnature.org





MANAGING PARTNERS
HEALTHY SCHOOLS CAMPAIGN + OPENLANDS

Openlands believes that nature is vital to all people.









Program Goal

Chicago's outdated schoolyards can be reimagined as vibrant outdoor places that benefit students, communities, and the environment.









Health & Wellness

- Support Chicago Public
 Schools wellness, recess and
 Physical Education policies
- Address high childhood obesity rates
- Create access to green space and play areas





Outdoor Learning

- Hands-on activities
- Increased awareness of environmental issues
- Improved cognitive development
- Daily connection to nature





Stormwater Management

- Addressing flooding & pollution issues
- Capturing rain where it falls





Space to Grow Partners















Building the Partnership: Steering Committee

- Managing Partners
- Capital Partners
- Nonprofit Partners





Building the Partnership

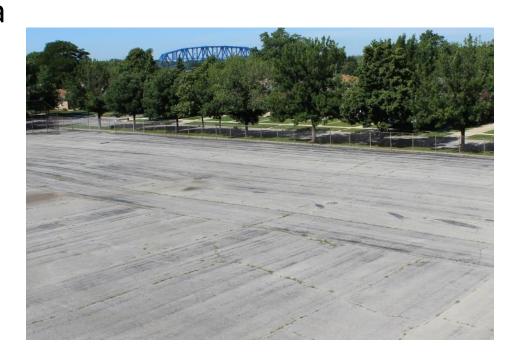
- Shared Vision
- Site Selection
- Leveraging Expertise
- Integrated Process
- Unique Financial Model
- Engaging New Partners





Site Selection: Three Stages

- Stage 1: Minimum Criteria
 - Invited to apply
- Stage 2: Application Review/Rank
 - Includes school readiness and community data
- Stage 3: Final Partner Review
 - Geographic equity, site suitability







Grissom





Grissom





Morrill



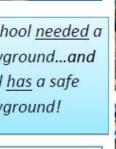








Morrill School needed a safe playground...and Morrill has a safe playground!





Lots of nature to play in,

explore, and learn about!



We had recess around a field house with broken windows and graffiti.





The only "nature" we could play on was a corner-patch of dirt.



Tripping hazards



New fences!

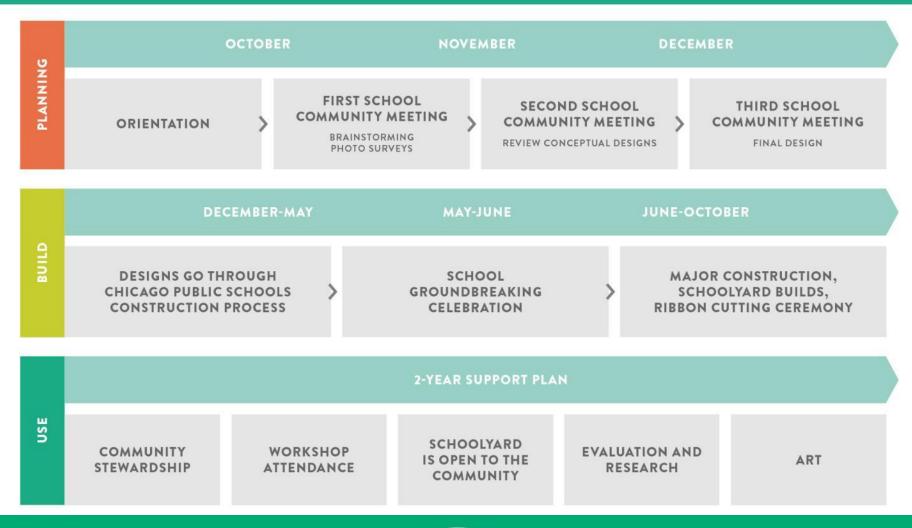








SCHOOLYARD PLANNING, BUILD + USE





Engaging the School Community: Brainstorming & Visual Preference Survey









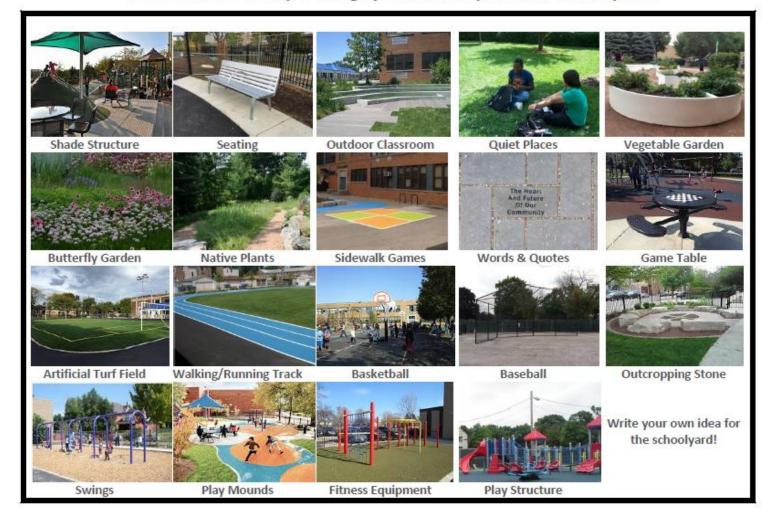
PHOTO SURVEY

Imagine the possibilities!

(Please circle one)

Student; Grade___ Parent Teacher Staff Community Member Community Organization

Please circle the top 5 things you want in your new schoolyard!



Engaging the School Community: Initial Concept Designs



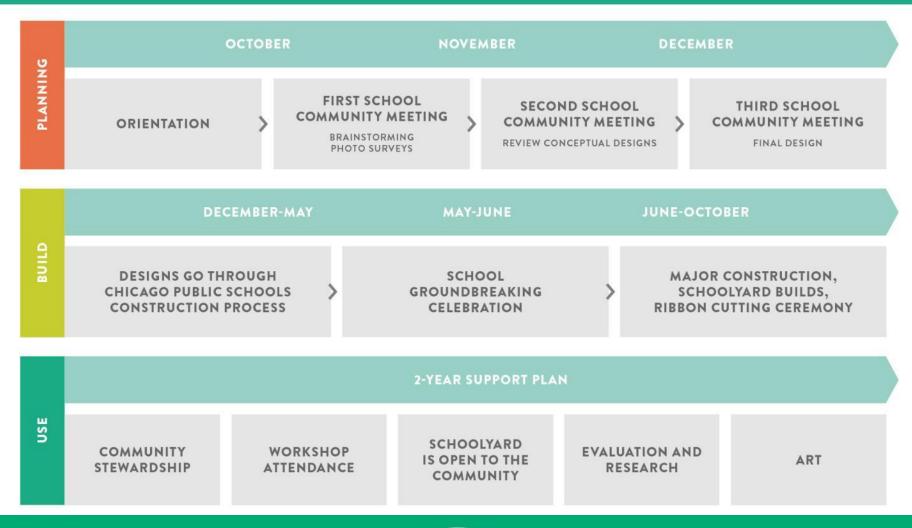


Engaging the School Community: Final Concept Presentation





SCHOOLYARD PLANNING, BUILD + USE





Two-Year Support Plan: Professional Development & Trainings





Two-Year Support Plan: Community Engagement







Measuring Progress

- Evaluating the Impact
 - Students
 - Schools
 - Community
- Evaluating the Process
- Measuring Stormwater
 - Quantity
 - Quality





Evolving
Process:
Engaging
New Partners





Achieving the Goal

- Dynamic Partnerships
- New Funding Model
- Inclusive Planning Process
- Innovative Stormwater
 Management
- Capacity Building
- Empowering the Community







