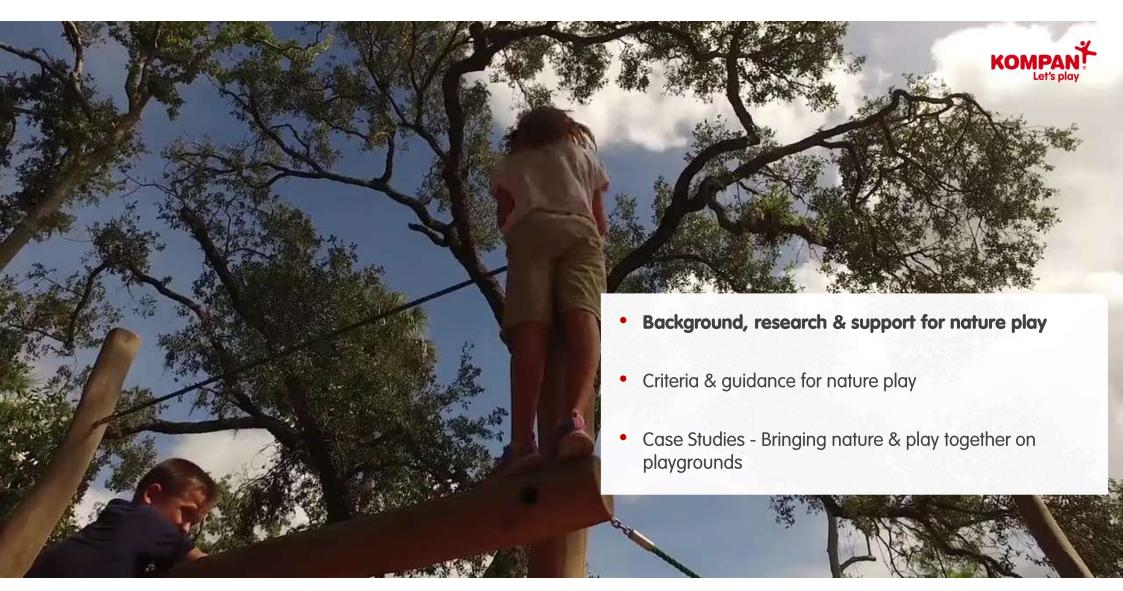
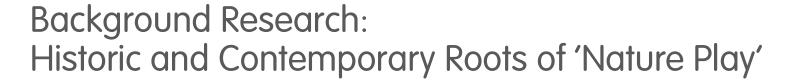


As Nature Intended: Bringing nature into play in the 21st Century



Designing for Active Nature Play

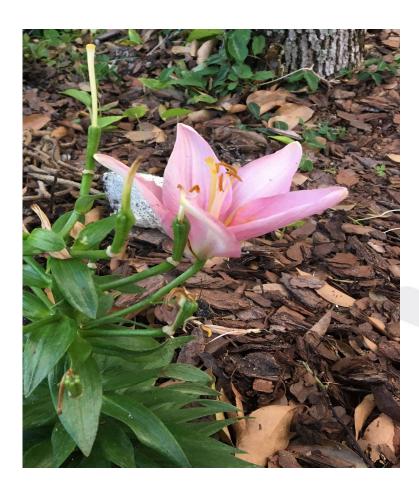


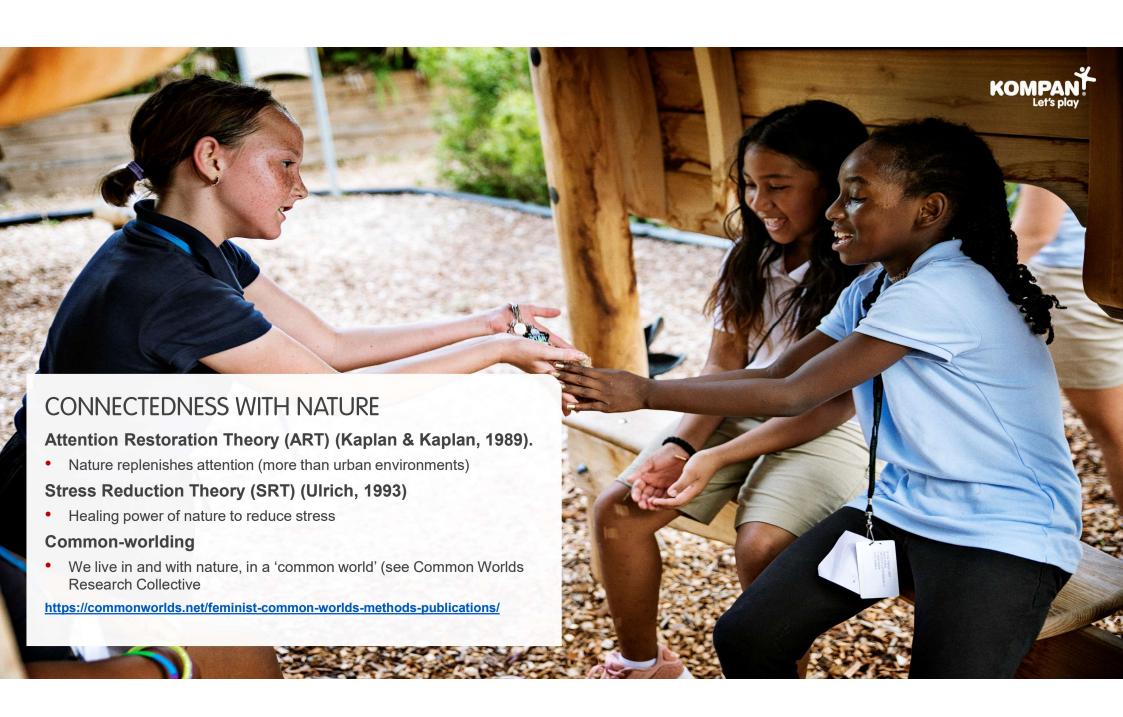


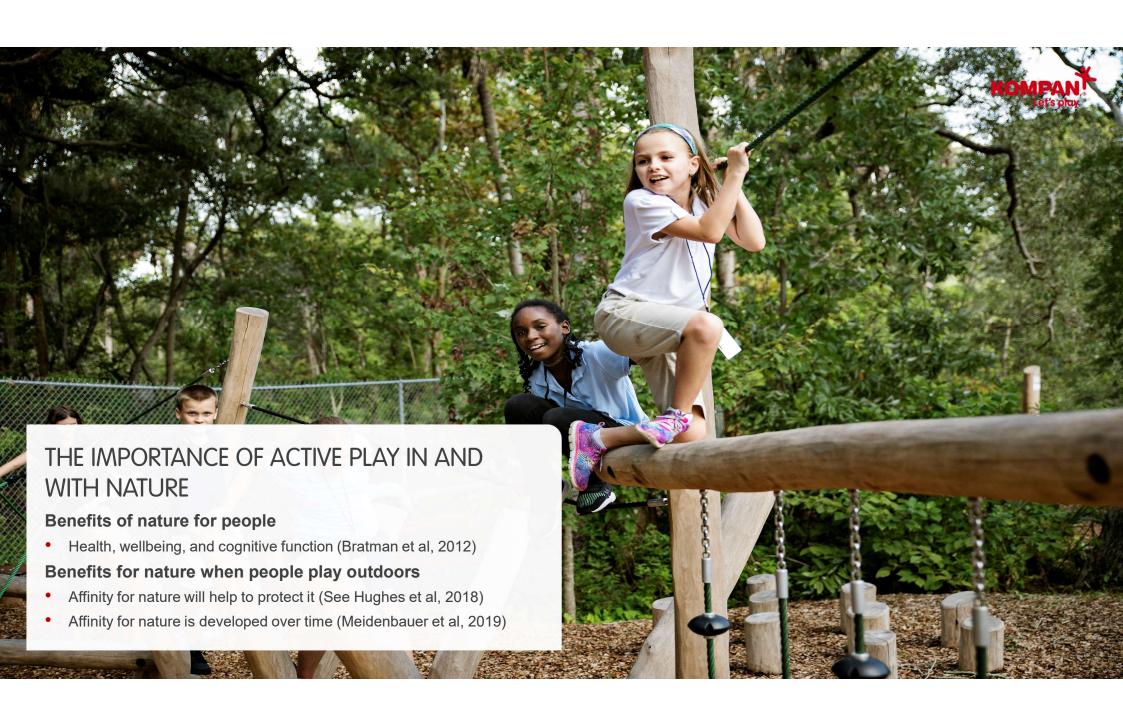
"In childhood there is a four-fold development of life – the child's own inner life; his life in relation with parents and family; his life in relation with a higher invisible Being; and, especially, his life in relation with nature, regarded as endowed with life like his own" (Froebel, trans 1912, p. 50)

"The future will belong to the nature-smart—those individuals, families, businesses, and political leaders who develop a deeper understanding of the transformative power of the natural world and who balance the virtual with the real. The more high-tech we become, the more nature we need"

(Richard Louv (2019)
http://richardlouv.com/









## What do we mean by 'Nature'?





The Providence Peregrine Cam







## What do we mean by play?



#### **CHARACTERISTICS OF PLAY**

(Burghardt's criteria, 2005):

- Voluntary activity
- Autotelic done for its own sake
- Modifications of functional behaviors
- Repetition with variation
- Enjoyment, satisfaction, fun







## How do we bring 'nature play' into built environments?





Over 90% of Australian's live in 'urban' environment



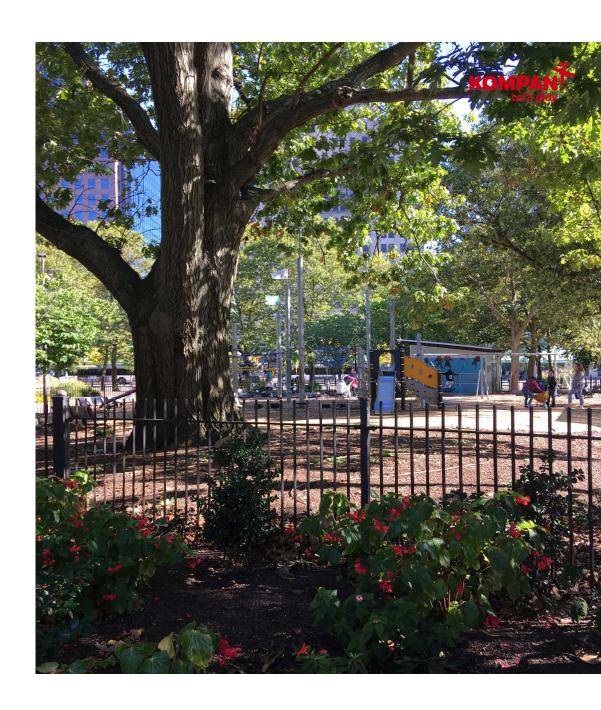


## Critique: 'Nature Play' in an urban environment



# Examples of 'Play in Nature' in an urban environment

- Urban Nature/above
- Transparent playground structure
- Sensitive enclosure
- Urban Nature/ground level



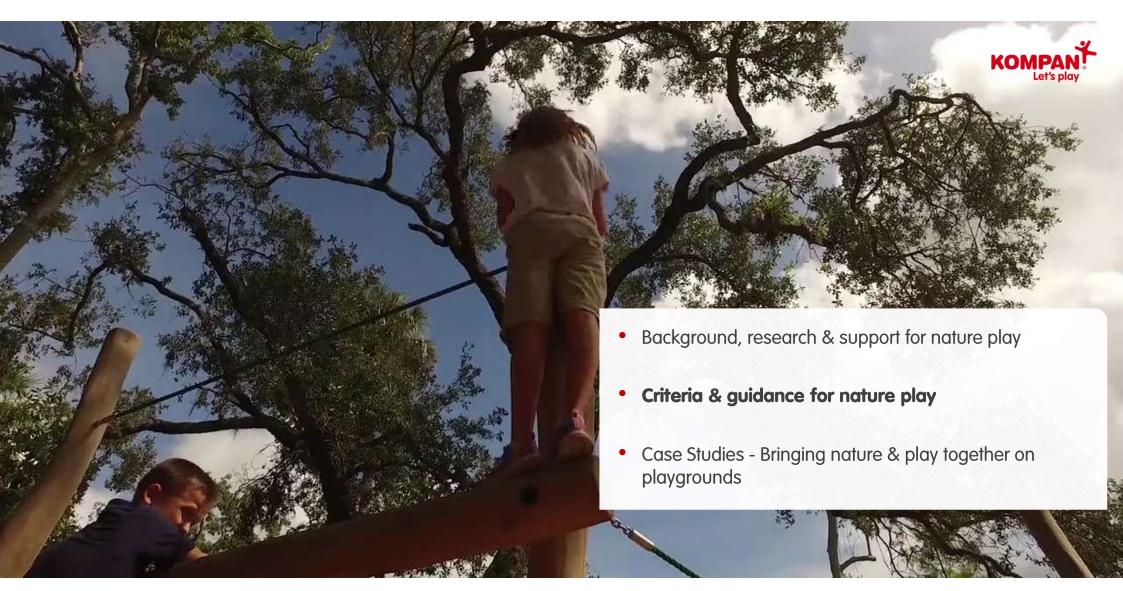








"While adults perceive landscape forms, children interpret functions of the environment and qualities and possibilities offered for activity. A rich environment for children contains many positive 'affordances' (Gibson, 1979) to be actualised by children (Heft, 1989)" (Jansson, 2010, p. 65)



Designing for Active Nature Play



## Assessing the outdoor Learning Environment

POEMS: Preschool Outdoor Environment Measurement Scale (2005/2014) DeBord, Hestenes, Moore, Cosco & McGinnis (Natural Learning Initiative)

Developed in consultation with a team of child development experts, and is based on observations of children

Higher quality outdoor play and learning environments = positive outcomes for children with regard to learning and well-being



#### What does the POEMS recommend?

- Variety of species of trees, shrubs, plants
- Logs/wood
- Topographic variation & variety of ground surfaces
- Smooth rocks/stones (loose parts)
- Sand & water play
- Stepping stones
- Rolling/climbing mound
- Cosy nook
- Flower or vegetable garden
- Stage
- Sound panel
- Markers, chalk, crayons
- Props for dramatic play
- Storytelling area
- Labels on materials
- **EQUIPMENT TO ENCOURAGE ACTIVE PLAY**





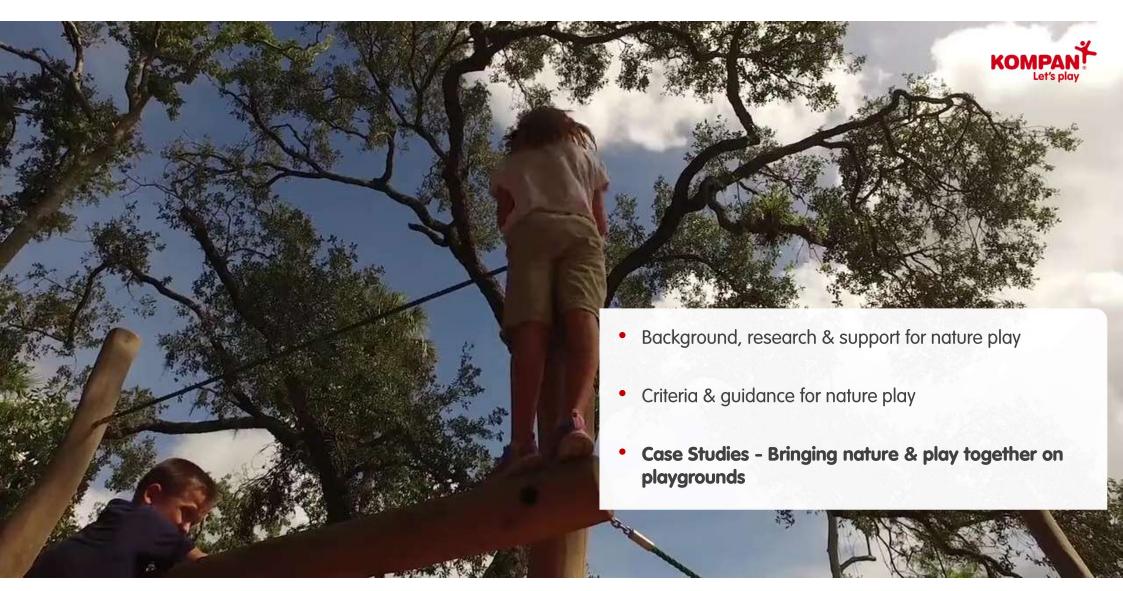












Designing for Active Nature Play



## Case Study Bringing nature & play together in a public space

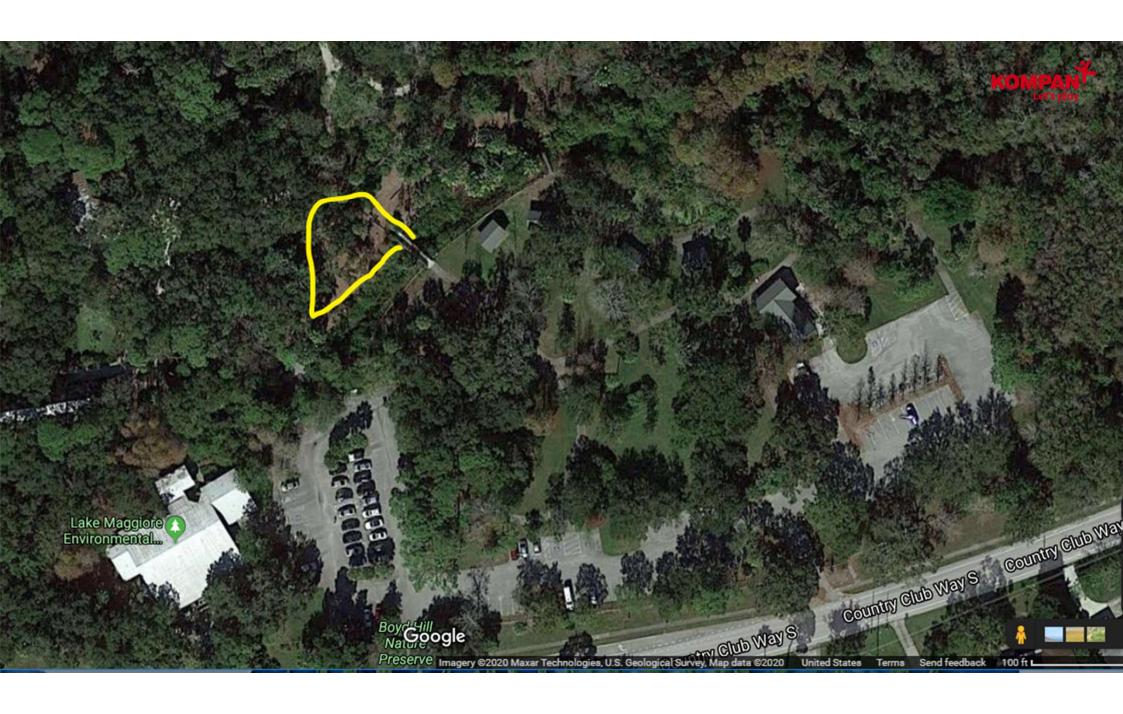
The Boyd Hill Nature Preserve is a 245 acre protected area in St Petersburg, Florida. It is home to the Lake Maggiore Environmental Education Center. On site there are trails as well as picnic sites, and the education center hosts nature camp and educational programs. The ecosystem includes Lake Maggiore, marshland, swamp, pine flatwoods, sand scrub & hammock

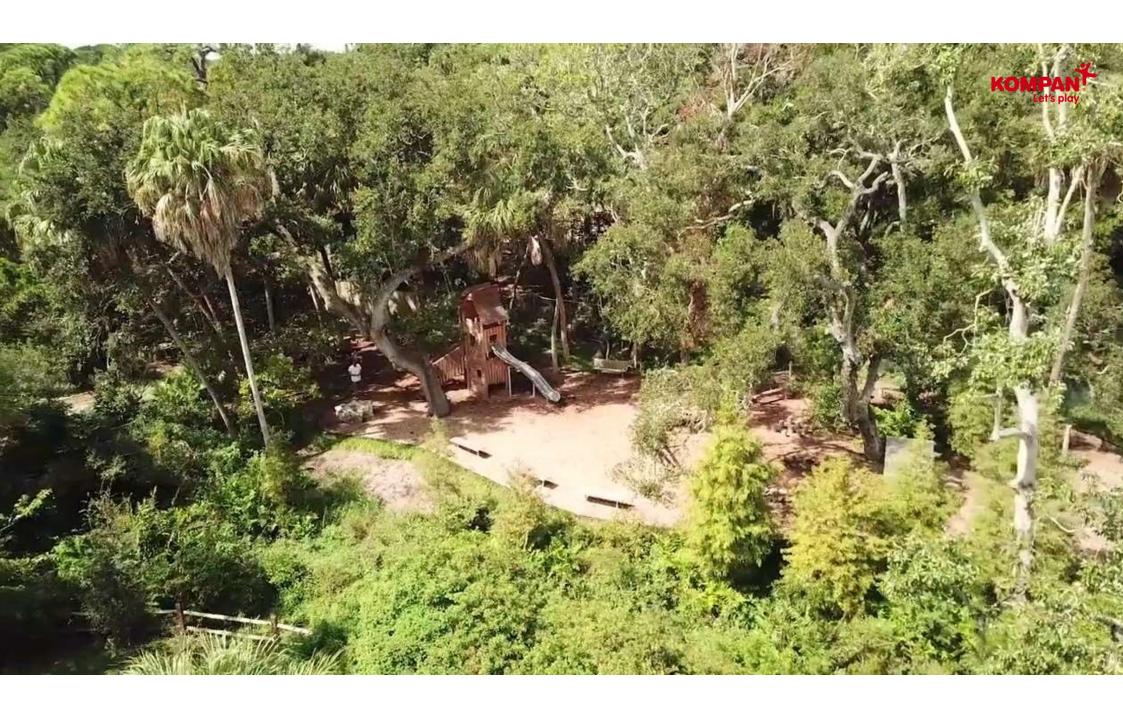
http://www.stpeteparksrec.org/boydhillpreserve/





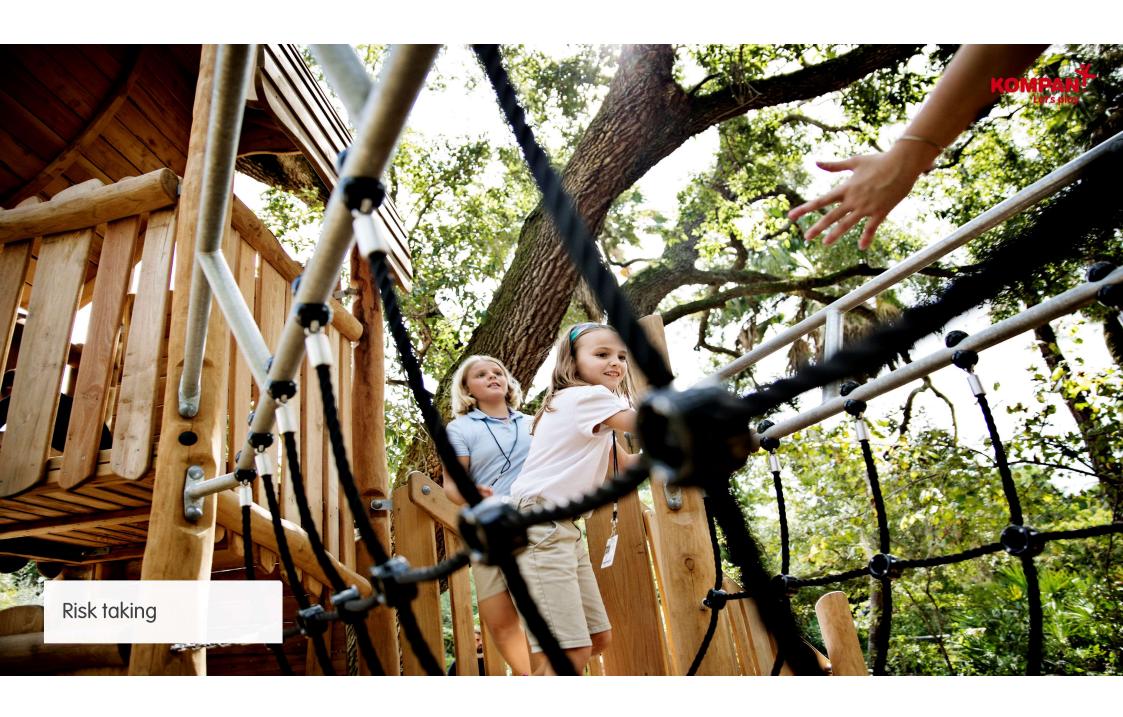


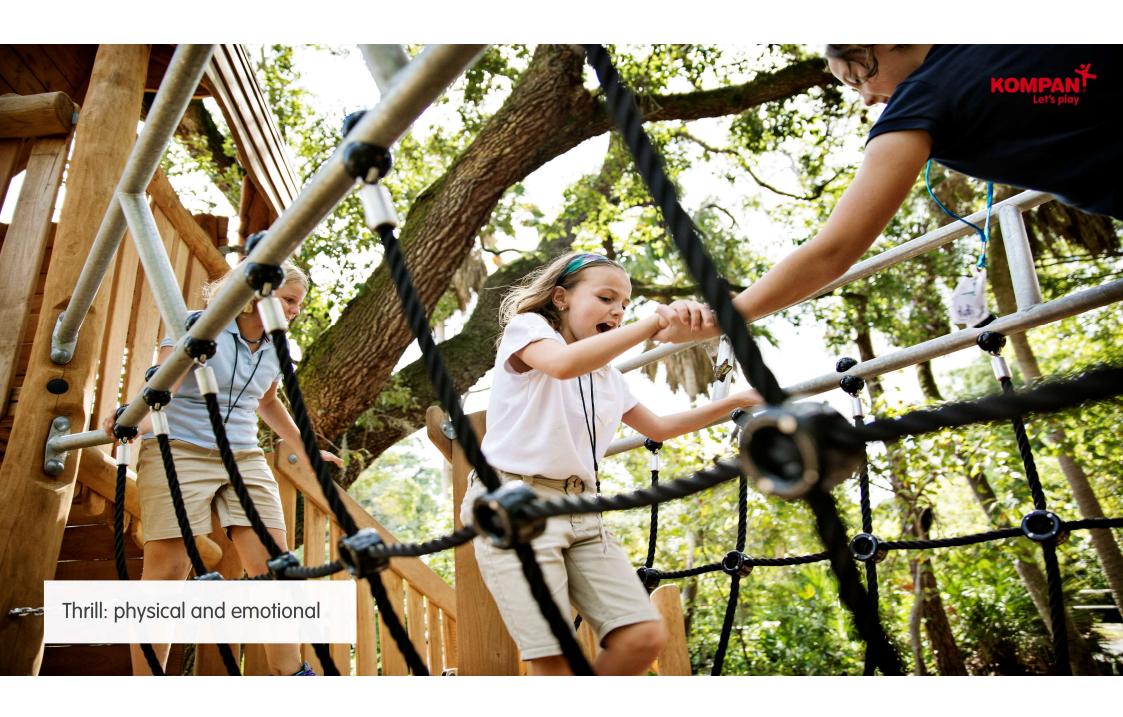






















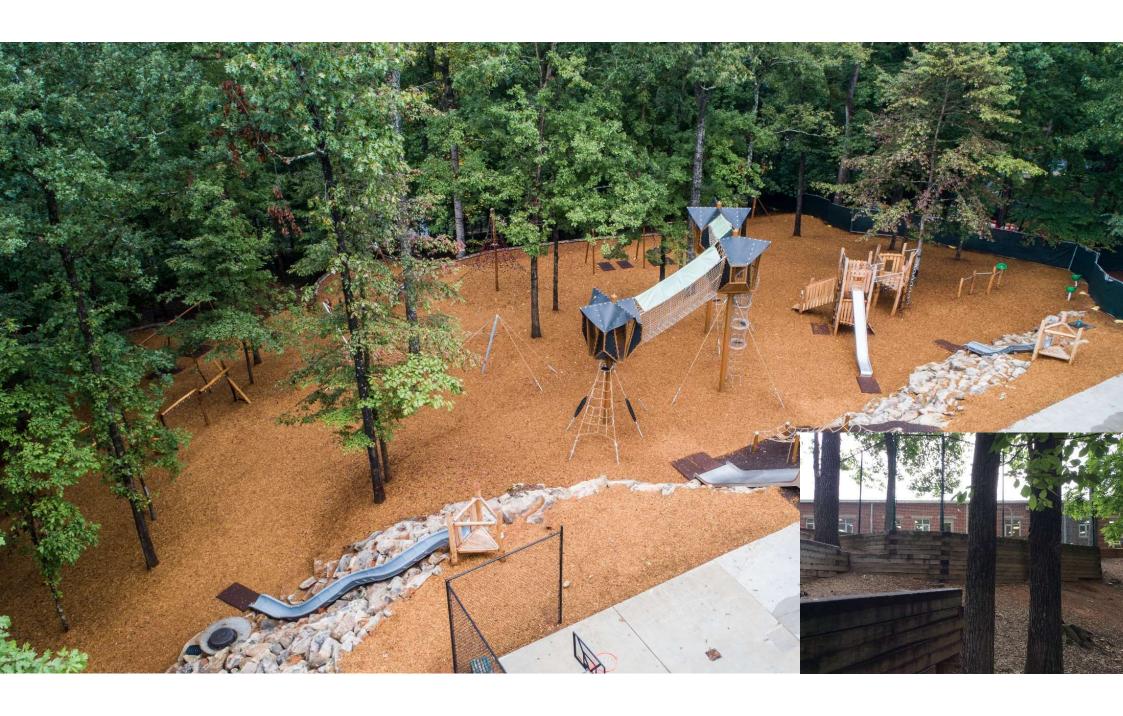


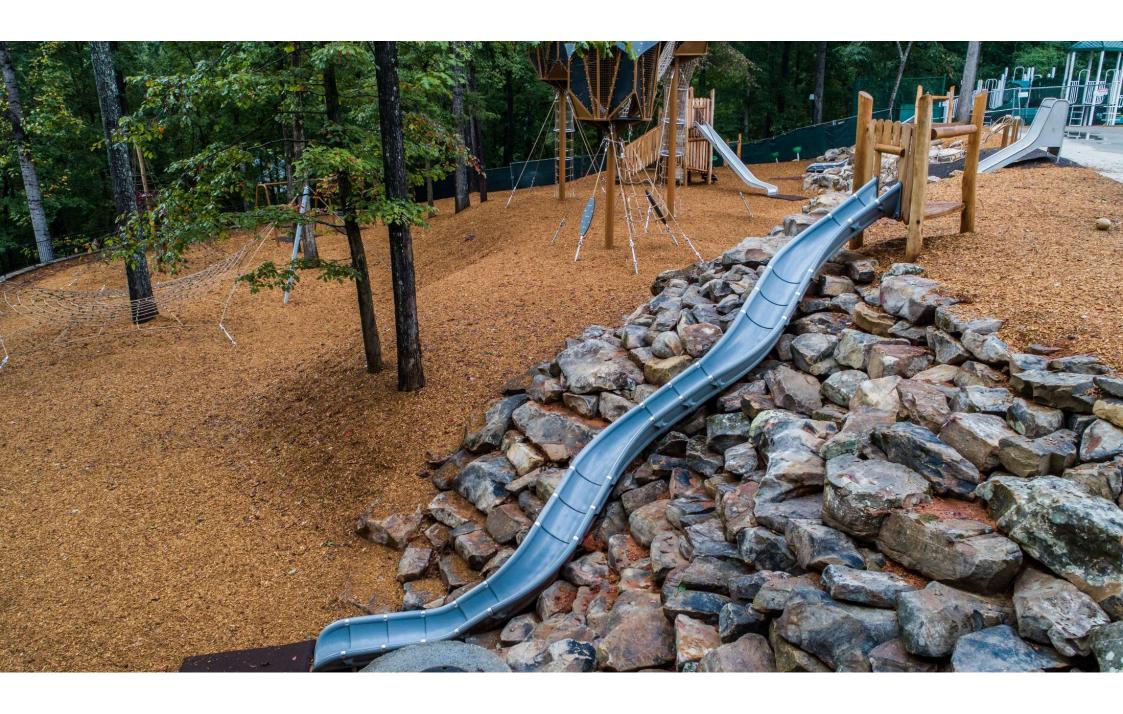
## Westminster Schools, Atlanta, GA:

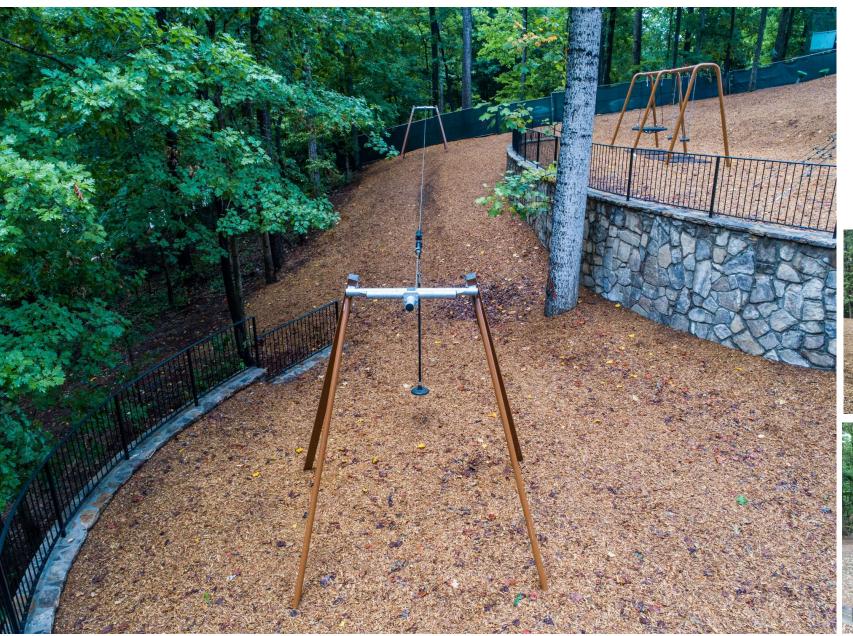


















## Case Study: Nature play in a dense urban environment







- Urban density/skyline
- Urban Nature/ above
- Transparency in play structure
- Child's eye view



# A sense of hanging in the trees



Surfacing appropriate for the needs of the location

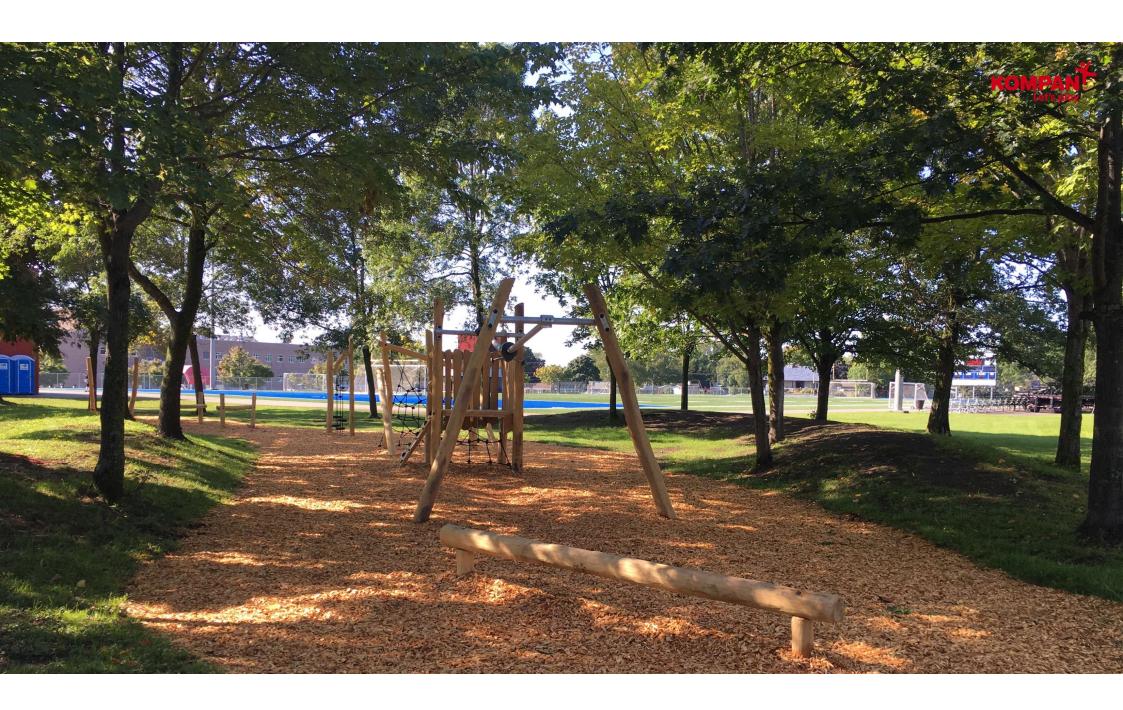


Equipment encourages play & does not dominate the environment



















## Munnagai Park, ACT







### Summary

- · Urbanization continues to increase globally
- With less access to nature we see detrimental effects on our health
- Research has shown that connecting with nature restores attention and reduces stress
- Children more connected with nature tend to be more protective of nature
- The concept of nature may hold a range of meanings
- Play, specifically "active play" have many benefits for children both physically and mentally
- We can create great nature play sites by using the natural environment and play equipment providing physical, social, cognitive and create development for children