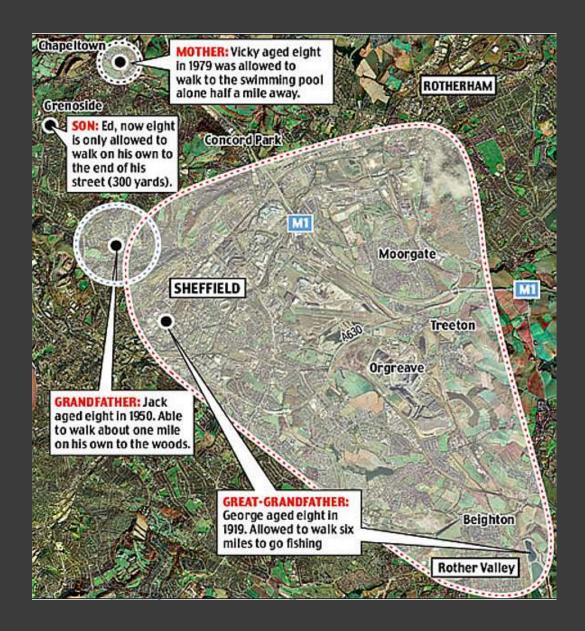


How children lost the right to roam





Causes







"Nature deficit disorder"



Social inequity in nature deficit



Little nature deficit

- Privileged background
- Garden at home
- Family trips to nature

High nature deficit

- Deprived background
- No garden at home
- No family trips to nature

Solutions

Green → children "greening"



Children → green "green care"





Evidence

Added value of engaging with green space for children's health and well-being



Added value green space for children

Health

Mental health **Physical health Healthy eating**

Well-being

Quality outdoor play Psychosocial functioning

Exercise

Physical activity **Motor development**

Social

Social skills

Emotional

Self-control Self-esteem **Self-awareness**

Attitude

Environmental concern Connectedness Sense of place

Gill, T. (2014). The benefits of children's engagement with nature: A systematic literature review. Children Youth and Environments, 24(2), 10-34.

Factsheet



Green space as activity space
Green space as space for
relaxation
Green space as healthy living

space

Green space as activity space



Parks and other natural play areas encourage physical activity and stimulate children to play more creatively. This supports children's motor development and reduces the risk of overweight and obesity

Playing in a natural playground (7-9 yrs)

More creative (constructive, dramatic, exploratory) play in natural playground than in indoor sports hall

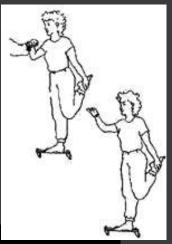


From grey to 'green' (6-12 years)

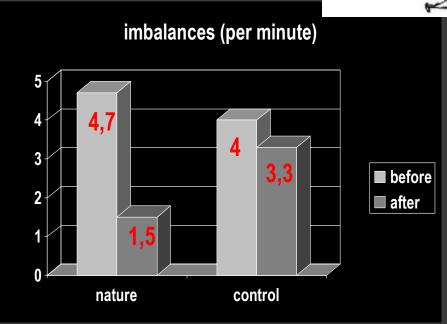
Greening of schoolgrounds encourages moderate to vigorous physical activity



Motor development (5-7 years)





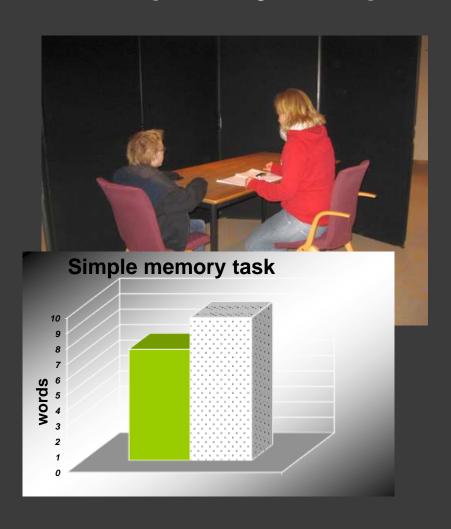


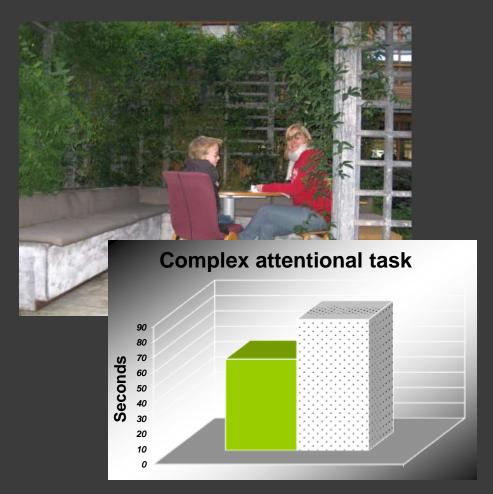


Green space as space for relaxation

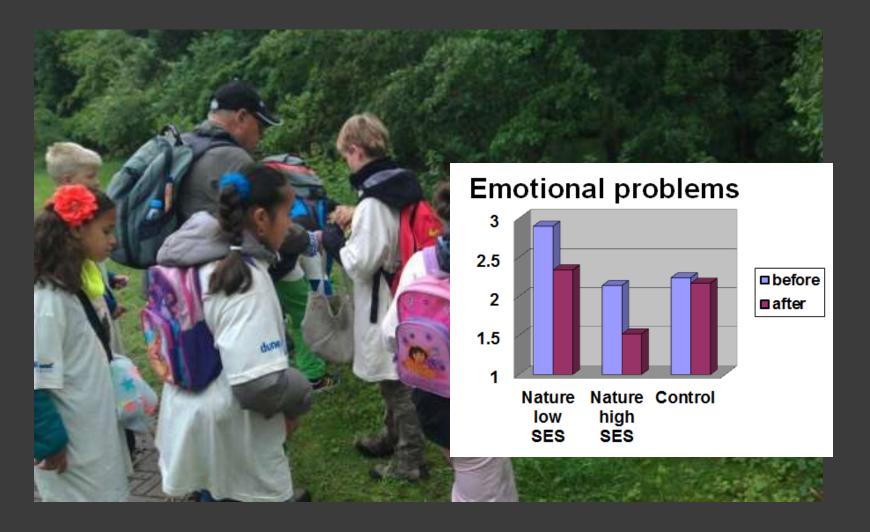
Natural environments are a powerful source of fascination. Flowers, butterflies and other natural elements automatically draw attention without taking up all resources. This makes children feel happy, and it may also lead to better concentration, more self-control, and improved mental health

Attentional performance of children with ADHD (8-12 years)





Nature experience program (7-9 years)



Green walls for a restorative classroom (7-9 yrs) PEEST --- Control Green wall Score Sky Search task 13 **INTOGREE** 10 T1 T2 **T3**

Van den Berg, A. E., Wesselius, J. E., Maas, J., & Tanja-Dijkstra, K. (2016). Green walls for a restorative classroom environment: A controlled evaluation study. *Environment and Behavior*

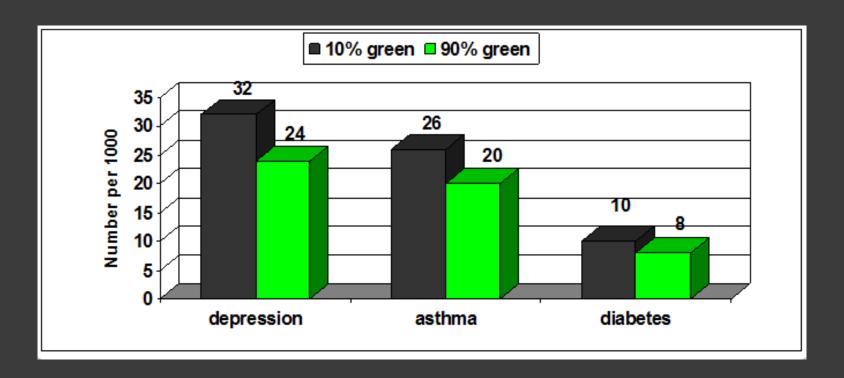
Green space as healthy living space



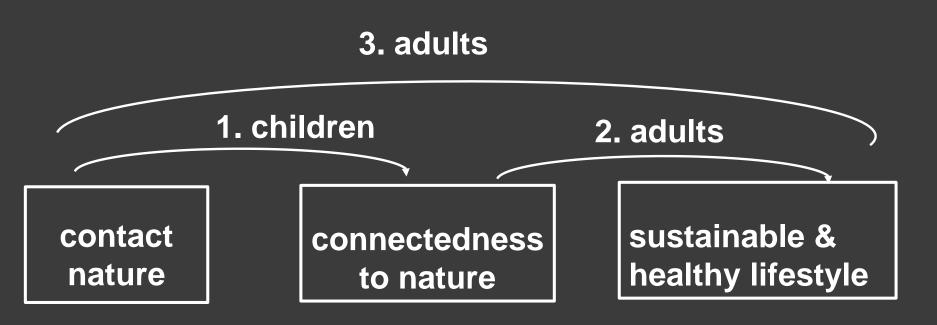
Children who grow up in a green living environment tend to have less mental and physical health problems. They are also more likely to develop a bond with nature that has life-long positive impacts on their quality of life.

Vitamine G research program

Positive relationships between green space and health



Long-term effects

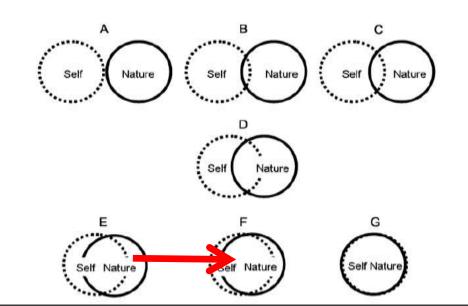


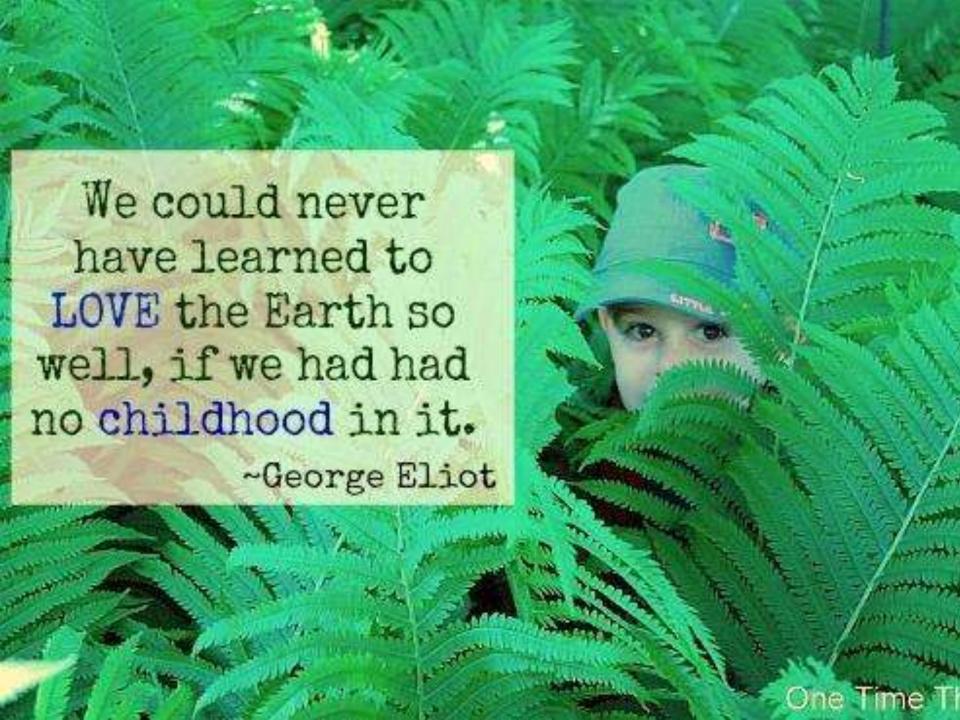


Connectedness to nature (9-10 years)

Children consider themselves more part of nature after 4-day nature program







The end – thank you for your attention www.agnesvandenberg.nl

