International Congresses on Education in Botanic Gardens

Studio Nico Wissing

BGCI's 10th International Congress on Education in Botanic Gardens
WARSAW | POLAND

9-14.09.2018
Introduction

Nico Wissing

- Green genes
- Out of the box
- Connected with the landscape
- The Infinite flow of creations
- Leave the cleanliness complex
- Lectures worldwide

- Books
Land-Art Studio Nico Wissing
Awards and international festivals
Worldwide garden design competitions

- Singapore 2006 – Touched by Tulips
- Japan 2008 – Paper ball
- Japan 2011 – Gardening World Cup, Nagasaki
- Philadelphia Flower Show 2017 – ‘Reconnection’
Japan 2010 – Gardening World Cup, Nakasaki
‘World peace starts with inner peace’
Germany 2015 – Bundes Garden Show, Berlin
‘Wind of Change’
Chinese state visit – President Xi Jinping and his wife Peng Liyuan
‘Keukenhof, Lisse – The Hague’
The Dutch Sustainable Urban Delta
‘Travelling Ecodome for Foreign Ministry’
The Urban Oasis – Park 2.0

- Pop-up park
- About 300 m²
- Paticulate filter - clean air
- Planting and biodiversity
- Moss panels
- Water irrigation
- Solarpanels – generate energy
- Social cohesion
- Pleasant environment
World Horticulture Exhibition Floriade 2022
Future design
NL Greenlabel

- Stop ecocide destruction of the green industry
- People and awareness of nature
- Cleanliness syndrome
- Opportunities with product innovation
- The living garden
- Sustainability measurable by passports
- Scientific advisory board
- Green cities - start changing
- From decoration to green as basis
Stop ecocide - Wood
Stop ecocide – imported soil and peat
Stop ecocide – Chemical crop protection
Stop ecocide – Light pollution
Stop ecocide – Plastic soup
Stop ecocide – Natural stone
Stop ecocide – Production and transport
# Sustainability passports and labels

**Products & materials**
- 1. Distance
- 2. Composition
- 3. Production
- 4. Lifespan
- 5. Maintenance
- 6. Energy
- 7. Reusability

**Plants**
- 1. Distance
- 2. Origin
- 3. Cultivation method
- 4. Delivery method
- 5. Biodiversity
- 6. Eco added value
- 7. Assurance

**Area development**
- 1. Design, realization & maintenance
- 2. Materialization
- 3. Energy and climate resistance
- 4. Soil and water
- 5. Biodiversity & landscape quality
- 6. People and environment
- 7. Assurance and policy

## NL Greenlabel basic principles: Self-evidence

| 1. Added value for people and nature | 4. No spreading of toxic substances |
| 2. Meaningful profit                  | 5. Righteous, is it true, no child labor |
| 3. Preferably locally                | 6. Preferably bio-based |

![Image of sustainability passport](image-url)
Solution 2 - Change the role of green / nature from decoration to added value

- Better water infiltration
- Social cohesion
- Production of food
- Biomass
- Recreation
- Biodiversity
- Reduction heat stress
- Increase in oxygen
- Capture fine particles
- Education and movement
Solution 3 - Respect the added values of Green

- Better health
- Greater social cohesion
- Larger attraction to cities, towns and villages
- Sustainable energy generation
- Function better in terms of housing, economy and recreation
- Greater creativity
- Less vandalism, aggression, heat, stress and noise
- Better water infiltration
- Higher value of real estate
Scientific advisory board

Dr. Maarten Arentsen
Dr. Jolanda Maas
Drs. ing. Bob Ursem
Dr. Andre van der Wurff
Dr. Ir. Robbert Sneep
Em. Prof Dr. Ir. Michiel Haas
Drs. Kim van der Leest
Prof. Dr. Ir. Andy van den Dobbelsteen
Mission and vision of NL Greenlabel

Mission

By providing (independent) sustainability passports for plants, products and materials, area and garden labels, we make sustainability measurable and transparent. Together with almost 200 partners, we advise our clients in making sustainable choices and deploying the green potential.

Vision

NL Greenlabel makes sustainable green ambitions for creating more healthy working and living environments achievable - in which ‘green’ has the leading role.
Current cities

- High density architecture and smog
- Imported (fast) food
- Flooding and heat distress
- Fuel driven mobility
- No connection with green
Human – bad habits
Heat-nuisance
Smog
Flooding
Obsolete mobility
Problems / use of materials
Future cities

- Green architecture
- Urban farming
- Air purifying green
- Clean mobility
- Connection with green
Human
Food
Energy
Mobility
New professions

- Floating gardener
- Underwater farmer
- Roof farmer
- Drone pilot
- Organ developer
- Robot techie
- Light breeder
- Taxi pilot
Future impression
Global examples
Global examples
City garden “Amphionpark” - Doetinchem
Housing “Plantsoensingel Noord” - ‘s-Heerenberg
Solarpark “De Kwekerij” – Hengelo Glld.
Village park "The Bleijke" – Hengelo Gld.
Office garden Waterboard “Rijn IJssel” - Doetinchem
School garden, Megchelen
Solution 1 - Invert the pyramid

Nature
People
Ecologist

versus

Developer
Architect
Money
Hospital “Slingeland Ziekenhuis” – Doetinchem
‘a building visiting the landscape’

(Design in process)
7.000 m² Greenroof “Isseldoks” - Doetinchem
Hotel “Huus” Gstaad - Switzerland
ABN AMRO – Circular Building and Garden
Park and parking Nursing home, Azora Den Es, Varsseveld
Nursing home, Azora Den Es, Varsseveld
Bothanical gardens can help us learning from natural systems
Knowledge about plants, roots and communication
The Green population
Parliament of things

A voice for everything around us
Biomimicry as teacher / architect
Biomimicry
Photosynthesis
Living architecture

- One with the nature
- new time, new opportunities
Growing home

Grow trees

Clay

Biodiversity

Takes on CO2

No waste

Collect water

Less heat

Creepers

Straw

2500 years old

Urban farming

Grow your House

Strengthening tree

Respect flora & fauna

Water purification

Mitchell Joachim
Knowledge, beauty, science and centuries of experience of horticultural societies should be shared and shown to the public not as parks behind fences, but as the key element of developing practical solutions for urban societies.
Statement – Developing practical solutions

Knowledge, Chances, Beauty, Science, Characteristics...
Statement – Outside the fences

Parks 2.0
Urban oases
Statement – The challenges

New species
Climate change
Drought / Heat
Wet floods
Income sustainability
Long term nature
Increasing resilience
Area Label

WHY INTRODUCE AN AREA LABEL?
The NL Greenlabel area label will enable you to achieve your sustainability ambitions, and convert them into a sustainable living environment. The table below shows the assessment indicators. The results are translated into a sustainability passport. The sustainability passport shows the degree of sustainability achieved, via scores that range from A to G.

Outdoor space is evaluated according to the following points:

- Design, construction and maintenance
- Products and materials
- Energy and climate
- Soil and water
- Biodiversity
- Interaction between man & environment
- Guarantees

WHEN SHOULD YOU USE AN AREA LABEL?
A label can be applied to an outdoor space at one of two different moments. A zero measurement can be used to evaluate the start situation. On that basis, a clear and precise picture is obtained of the steps that have to be taken in the process, to arrive at the highest achievable outcome: an NL Greenlabel area label A. In that situation, the area label is a source of inspiration that can be employed to create a sustainable area design.

The other possible route is to have only the finished result assessed. In that case, the area label serves as an assessment framework that rewards the sustainable design and realisation of the outdoor space with a positive score. Every NL Greenlabel area label is awarded according to a tailor-made programme. A price quotation will be prepared in advance.

WHAT CAN NL GREENLABEL DO FOR ME?
You can call upon NL Greenlabel to produce a masterplan, to offer advice or supervise the entire project. Together with its partners (125 companies) and their labelled products (approximately 150 products), NL Greenlabel is able to contribute to the sustainable (re)development of any area in the Netherlands.

<table>
<thead>
<tr>
<th>Phase</th>
<th>NL Greenlabel product</th>
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<tbody>
<tr>
<td>Before project launch</td>
<td>Area zero measurement</td>
</tr>
<tr>
<td>Design phase</td>
<td>Design and/or complete Masterplan</td>
</tr>
<tr>
<td>Construction phase</td>
<td>Advice on sustainable materials and/or supervision of construction process</td>
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<tr>
<td>Handover</td>
<td>Final measurement – NL Greenlabel area label</td>
</tr>
<tr>
<td>PR &amp; Communication</td>
<td>Lodewijk Hoekstra can be deployed to attract media attention</td>
</tr>
<tr>
<td>Maintenance and</td>
<td>Advice on sustainable maintenance and/or carrying out maintenance work</td>
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<tr>
<td>Management phase</td>
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Thank you for your attention

Nicowissing.com