

European green premises

A photograph of a modern railway station or transit hub. The building has a massive, translucent glass roof supported by a steel frame. Inside, a yellow and white train is visible on the tracks. Several people are walking on the platform. The interior is bright and airy, with natural light streaming through the glass roof.

Tools for integrating nature in developments

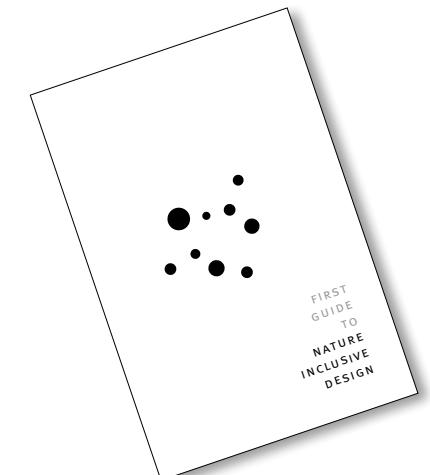
Maike van Stiphout - www.dsla.nl

2022.09.15 Wiesbaden

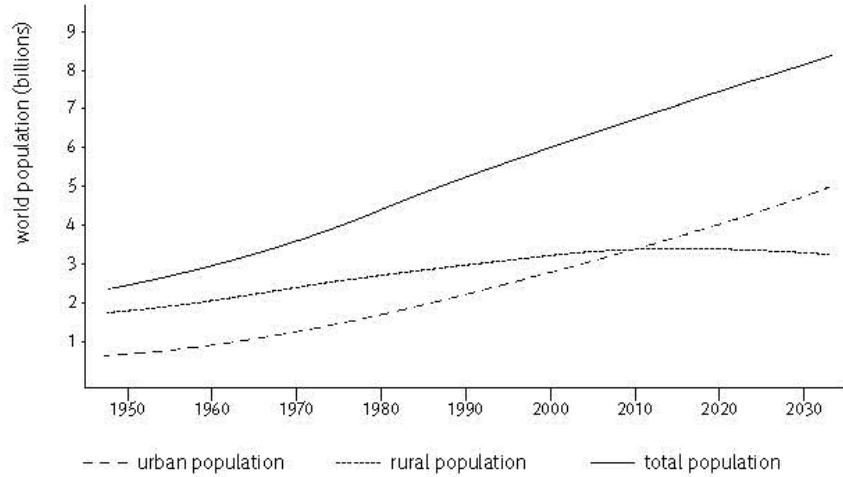
. quality of live+

. tools for biodiversity
oriented developments

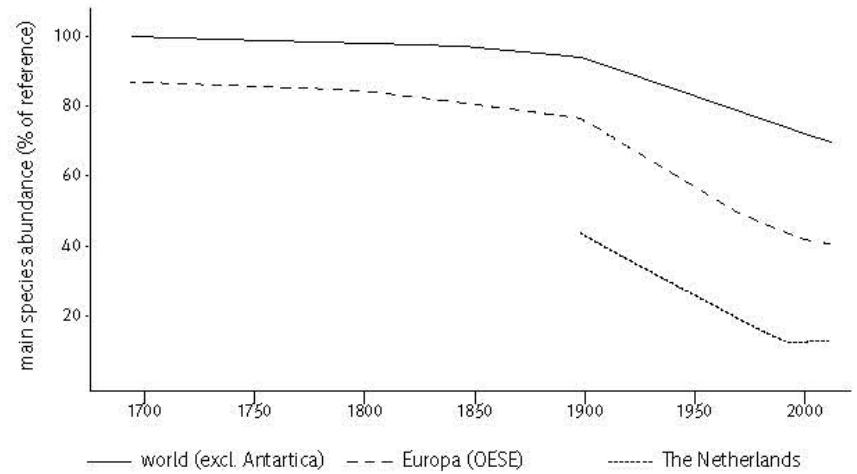
. tools for nature inclusive design



quality of live+



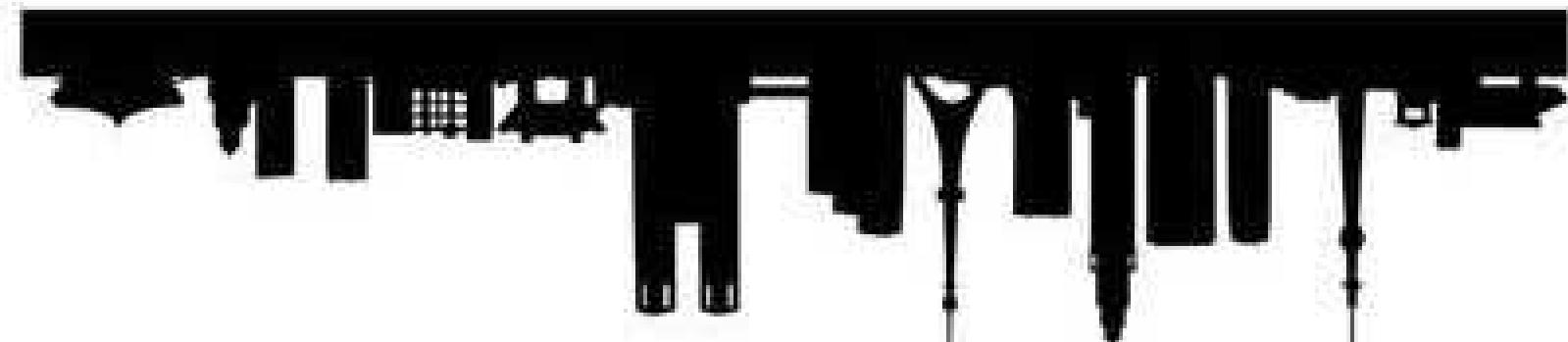
The growth of the world population only takes place in cities.
Herman Sittrop grafisch realisatiebureau, Biowetenschappen en Maatschappij



Main species abundance
PBL Netherlands Environmental Assessment Agency, 2013

the time is right

quality of live+



“If you took the city of Tokyo and turned it upside down and shook it you would be amazed at the animals that fall out: badgers, wolves, boa constrictors, crocodiles, ostriches, baboons, capybaras, wild boars, leopards, manatees, ruminants, in untold numbers.”

Yann Martel - Life of Pi

quality of live+

Bosco Verticale is improving the quality of life of the inhabitants and the neighbourhood

2 million litres of rainwater per year

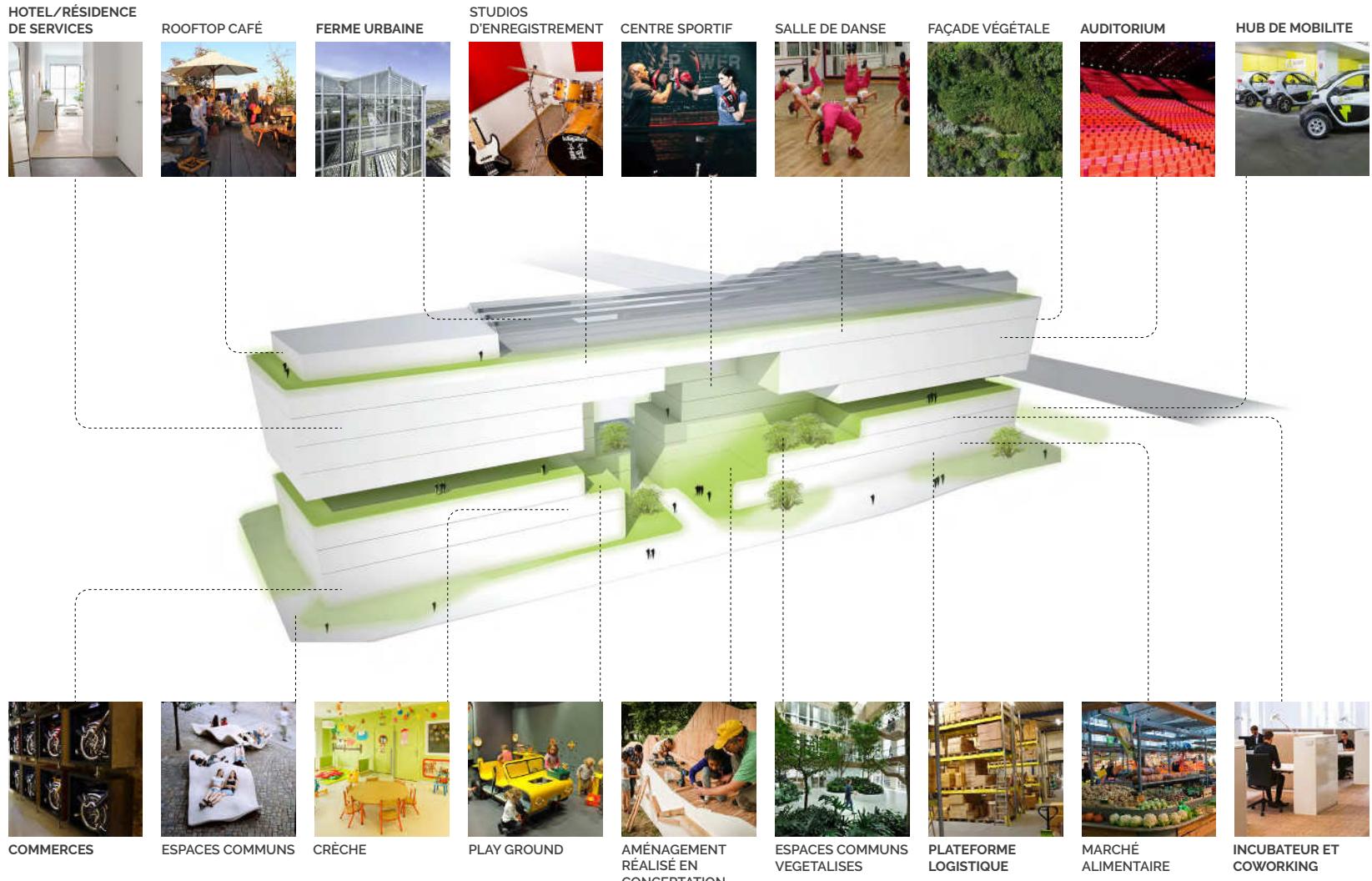
catching **fine dust** particles

producing **O₂** and absorbing **CO₂**

4-6 degrees lower in temperature

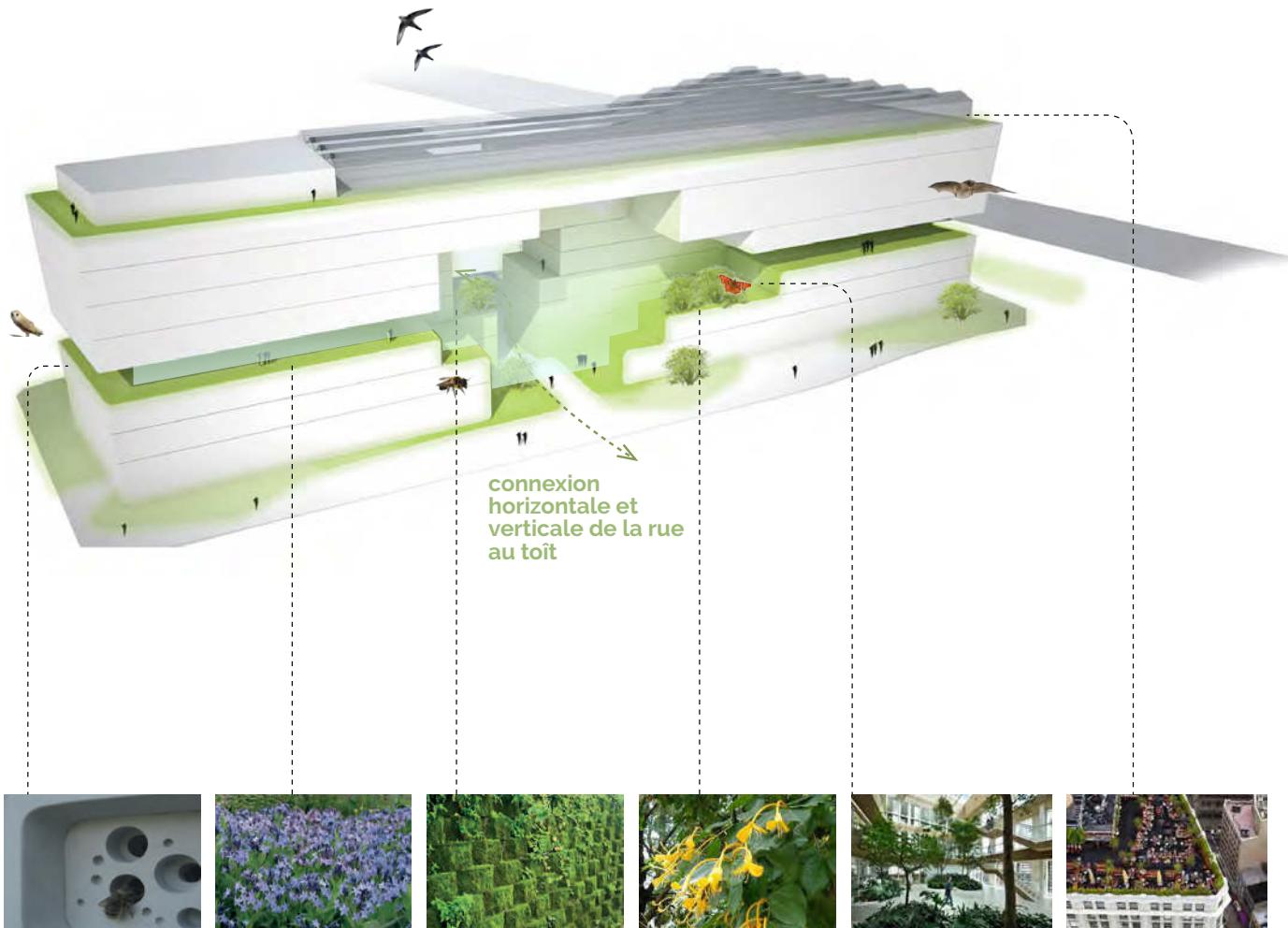
making people **happy and healthy**

quality of live+



the requirements for men

quality of live+



Façade vivante pour la faune et la flore

Fleurs et plantes aux différentes saisons

Façades végétalisés intérieure et extérieure

Plantes comestibles poussant sur le bâtiment

Des arbres dans les espaces communs régulent la qualité de l'air et l'humidité

Une toiture verte fonctionnelle, qui réduit la pollution et crée une atmosphère agréable

the requirements for plants and animals

quality of live+

	vliegopening nestkast			nestkastmaat			ophanghoogte	gevel richting
	breedte in mm	hoogte in mm	doorsnede in mm	breedte in mm	hoogte in mm	diepte in mm		
vogels								
huismus			35	120	260	120	1-10 meter	N-O
steenuil			65-70	300	200	800	2-10 meter	N-O, N-W, N
pimpelmees, matkop, glanskop, kuifmees			26-28	100	200	100	3-5 meter	Z, Z-O, O
koolmees, gekraagde roodstaart, bonte vliegenvanger			32-35	130	250	130	3-5 meter	Z, Z-O, O
spreeuw, kleine bonte specht			32-35	130	250	130	3-5 meter	Z, Z-O, O
middelste bonte specht, groene specht			60	130	500	150	3-5 meter	Z, Z-O, O
bosuil			150	400	600	400	3-5 meter	N-O, N-W, N
kerkuil	150	150		400	600	400	3-5 meter	N-O, N-W, N
torenvalk	400	150		400	300	400	3-5 meter	N-O, N-W, N
gierzwaluw	65	30		300	125	200	3-20 meter	N-O, N-W, N
huiszwaluw (kolonie)	155	75		155	155	170	6-10 meter	Z, Z-O, O
slechtvalk							20-60 meter	Z, Z-O, O, N-O
zoogdieren								
meervleermuis	60	15		140	270	140	5-10 meter	Z, Z-W
baardvleermuis	60	15		140	270	140	3-15 meter	Z, Z-W, Z-O
gewone dwergvleermuis	60	15		140	270	140	4-10 meter	W, Z, O
Franjestaart	60	15		140	270	140	4-10 meter	W, Z, O
Laatvlieger	60	15		140	270	140	10-15 meter	Z, W
ruige dwergvleermuis	60	15		140	270	140	4-10 meter	W, Z, O
gewone grootoorvleermuis	60	15		140	270	140	4-10 meter	W, Z, O
grijze grootoorvleermuis	60	15		140	270	140	4-10 meter	W, Z, O
insecten								
muurspleten en nestelgaten								
hommels:	breedte in mm	hoogte in mm	doorsnede in mm	breedte in mm	hoogte in mm	diepte in mm	boven maaiveld	
Tuinommel	5 - 7						1-10 meter	Z, Z-O
Steenommel	5 - 7						1-10 meter	Z, Z-O
solitaire bijen en wespen:								
Behangersbijen				5 - 6			1-10 meter	Z, Z-O
Klokjesbijen				3 - 6			1-10 meter	Z, Z-O
Maskerbijen				2 - 4			1-10 meter	Z, Z-O
Metselbijen				5 - 7			1-10 meter	Z, Z-O
Tronkenbijen				2 - 5			1-10 meter	Z, Z-O
Wolbijen				12			1-10 meter	Z, Z-O
Muurwespen				3 - 6			1-10 meter	Z, Z-O
overwinterende vlinders:								
Citroenvlinder	8-12	60-100		300	120	280	2-4 meter	Z, Z-O, O
Dagpauwoog	8-12	60-100		300	120	280	2-4 meter	Z, Z-O, O
Gehakkelde Aurelia	8-12	60-100		300	120	280	2-4 meter	Z, Z-O, O

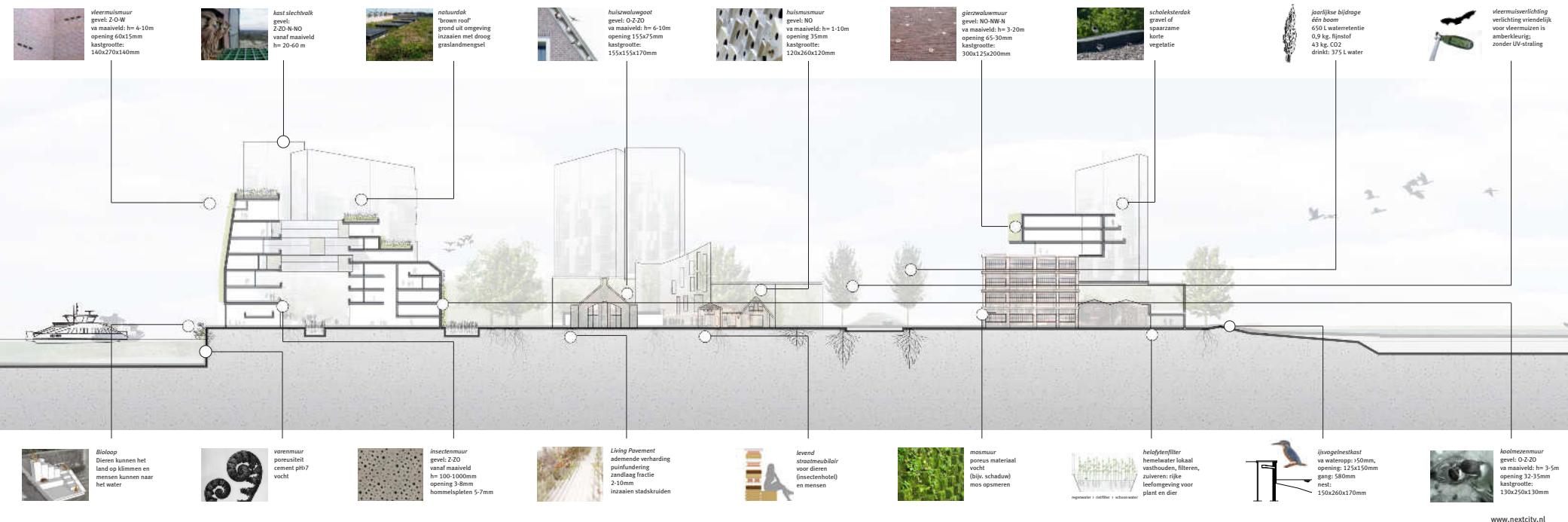
the requirements for plants and animals

quality of live+



the requirements for animals

quality of live+



the requirements for animals in planning phase



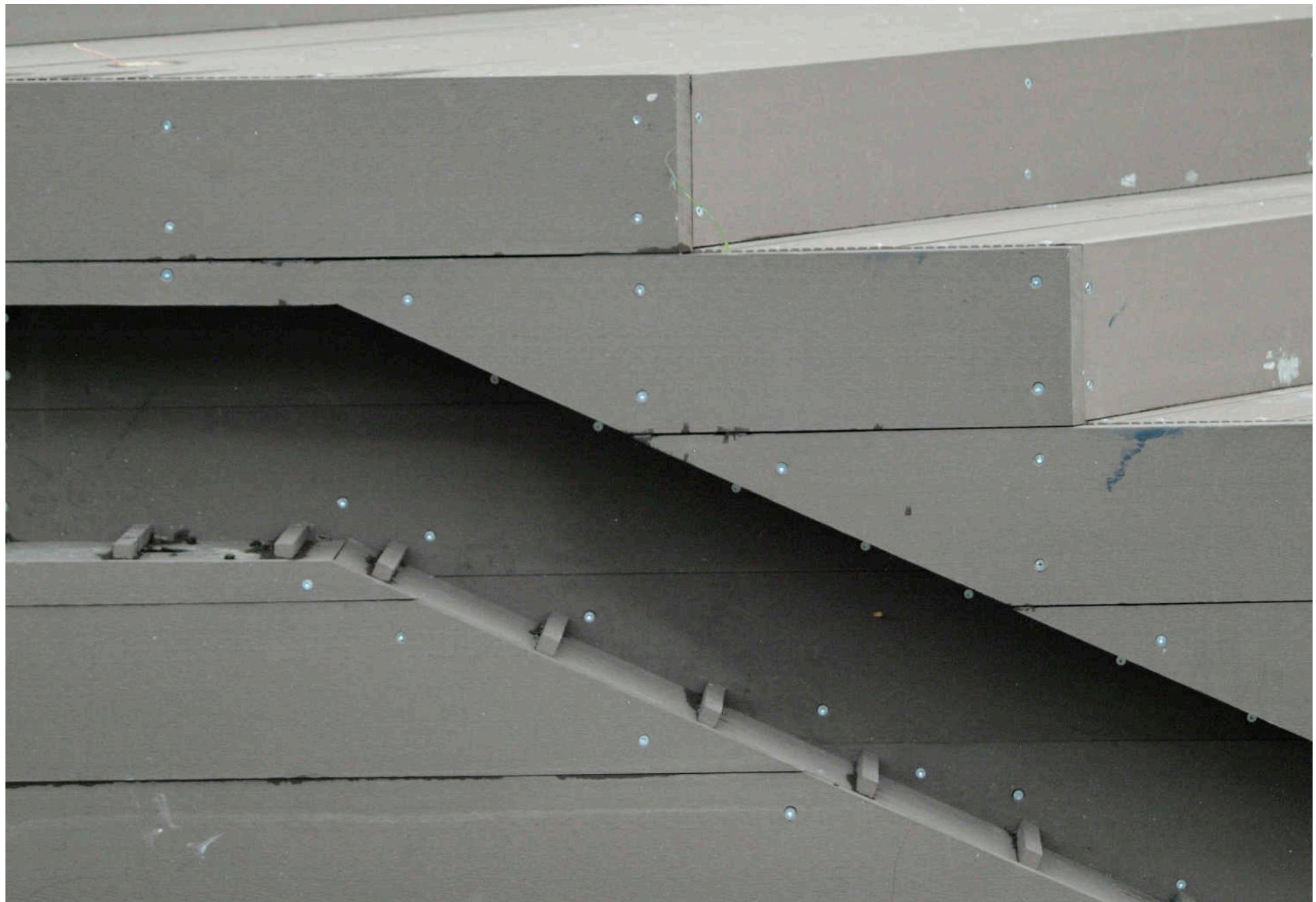
Ecole de biodiversite - Boulogne Billancourt - Parijs



Scratches for bads under the bridge deck, Kattenbrug, KorthTielens architecten, DS



Bioloop, for men and animals - nextcity.nl



Bioloop, for men and animals - nextcity.nl



Passage for mammals, next architects

biodiversity oriented development

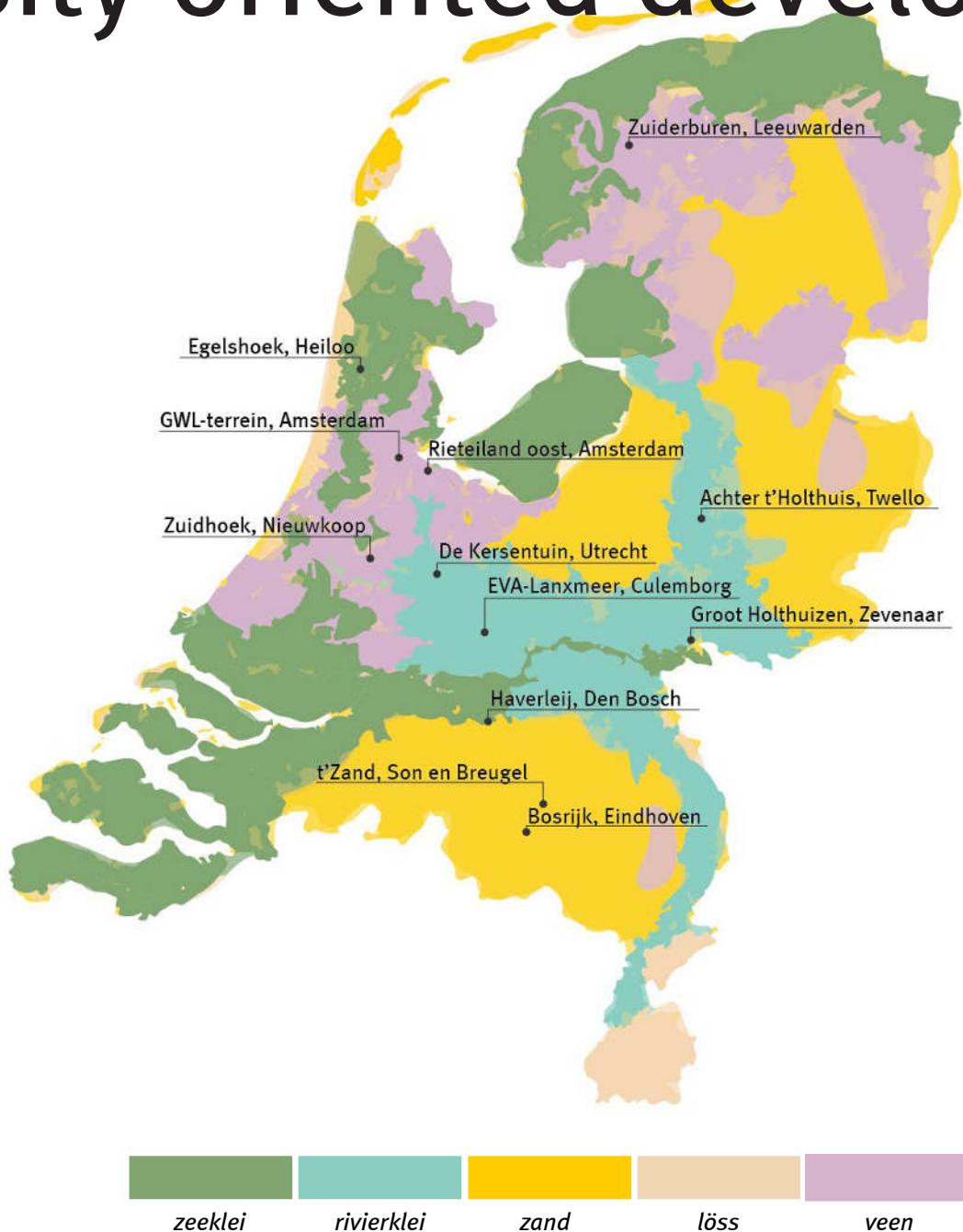
- situation
- starting points
- property
- nature development
- maintenance
- costs and results
- communication and coordination



www.kanbouwen.nl

biodiversity oriented development

geographic spreading
over different land-
scape types and
soils

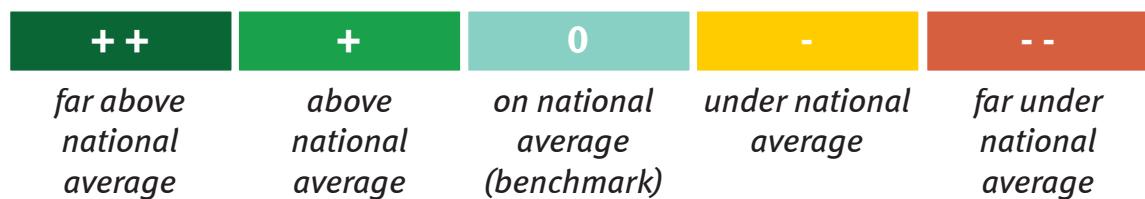


biodiversity oriented development

																	vogels van jonge wikaanplant
	huizenbroeders	holenbroeders	parkvogels	boomvogels	struikvogels												
Egelshoek	+	+	++	++	++												
Rieteiland oost	+	+	+	+	+												
De Kersentuin	+	0	+	+	+												
Haverleij - Leliënhuyze	+	0	+	+	0												
GWL-terrein	0	0	+	+	+												
Zuiderburen	-	-	0	0	0												
't Zand	-	-	0	0	0												

in buildings

Stads vogelindicator: Vogelbescherming NL



Birds are good indicators of the quality of nature

biodiversity oriented development

	verbinding natur omgeving	behoud vegetatie	inheemse vegetatie	water retentie	zelfbeheer en gedeelde tuinen		nestplaatsen	nestkasten	weinig verharding	gemengde hagen	zachte oever	klimplanten	beplante dakken
EVA-Lanxmeer	+	++	++	++	++		++	++	++	++	+-	+-	
De Kersentuin	-	-	++	++	++		++	++	++	++	+	+	
Haverleij - Leliënhuyze	++	-	++	++	-		-	+	+	++	-	-	
GWL-terrein	-	-	++	++	++		+	+	++	++	++	++	
Egelshoek	++	+	++	++	++		++	++	++	++	++	++	
Bosrijk	++	++	++	++	+		-	+	++	++	-	+-	
Achter 't Holthuis	++	++	++	++	-		-	-	++	-	-	-	
Groot Holthuizen	++	+	++	++	+-		-	+	+	-	-	-	
Rieteiland oost	++		+	++	-		-	+	++	+	-	-	
Zuidhoek	++		+	++	-		-	-	+	++	-	-	
't Zand	++	+	++	++	+-		-	-	+	-	-	-	
Zuiderburen	++	+-	+	++	-		-	-	-	-	-	-	

basics

extras

++	+	+-	-	
ruim aanwezig	aanwezig	nauwelijks	niet	n.v.t

Basic tools and extra measures

5 tools

for a biodiversity oriented development



connect it with
the nature around
the site



use indigenous
plants



save existing
vegetation



keep the water
where it falls



share the maintenance
of the site



1. Connect it with the nature around the site



2. Use indigenous vegetation



3. Save existing vegetation on site



4. Keep the water where it falls



5. Share the maintenance of the site

Zoöp

A zoöp is an organisation whose board includes a representative for the voices and interests of non-human life.

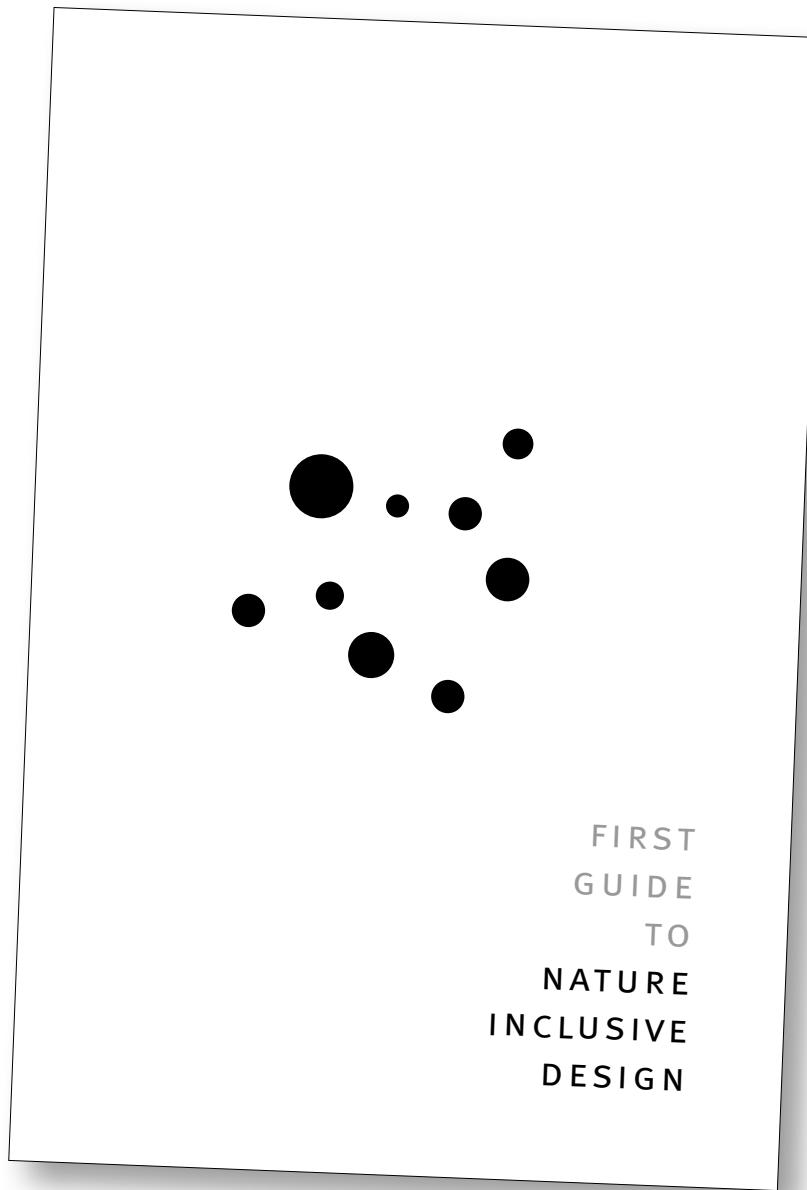
www.zoop.earth





World's first Zoöp “Het Nieuwe Instituut” Rotterdam

e-book via Amazon
€ 9,-



3 tools



1

look at the
landscape as a
mountain area

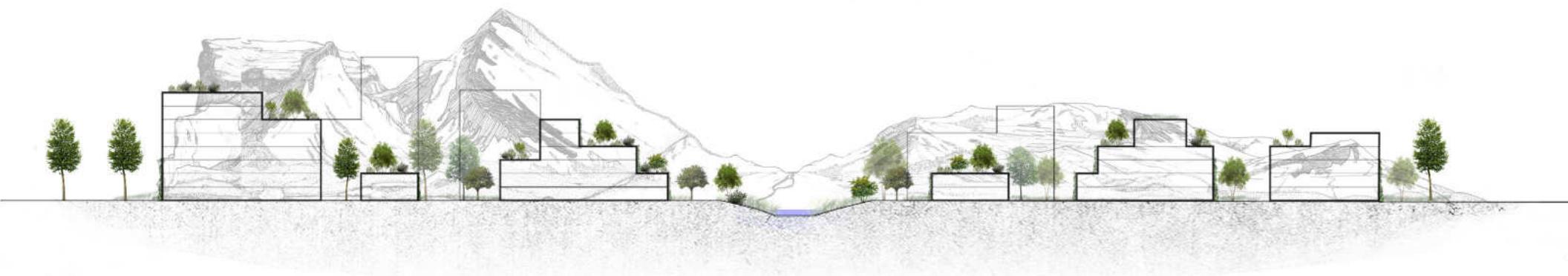


2

select your clients



use the 3 design
tools



1 • Look at the site as a mountain landscape



2 • Select your clients



2. Select your clients



size and scale



porosity



diversity in use
and maintenance

3. Use the nature inclusive design tools



3a. Variation in size and scale in urban context

Example: Sloterdijk N1 + N3 - Amsterdam - team Heijmans vastgoed bv, NL architects, Studio Donna van Milligen Bielke, Space encounters, Chris Collaris, DS landschapsarchitecten, Dakdokters



3a. Variation in size and scale in urban context



3a. Variation in size and scale in urban context

3b. Porosity in facades, roofs and pavings



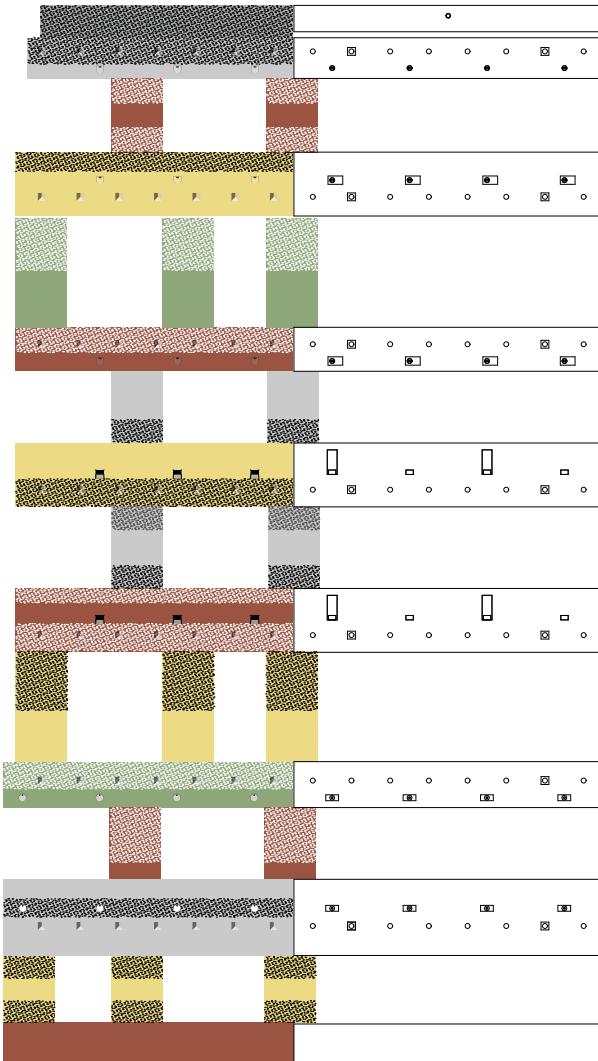


**Studio
Donna van
Milligen
Bielke**

Sloterdijk Toren N1

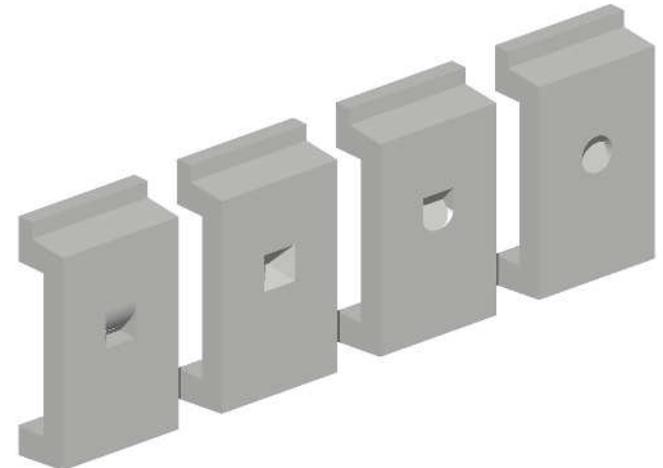


3b. Porosity



**Studio
Donna van
Milligen
Bielke**

Sloterdijk Toren N1
nestkast sparingen veranderen mee met het licht





3b. Porosity



3c. Diversity in use and maintenance activities



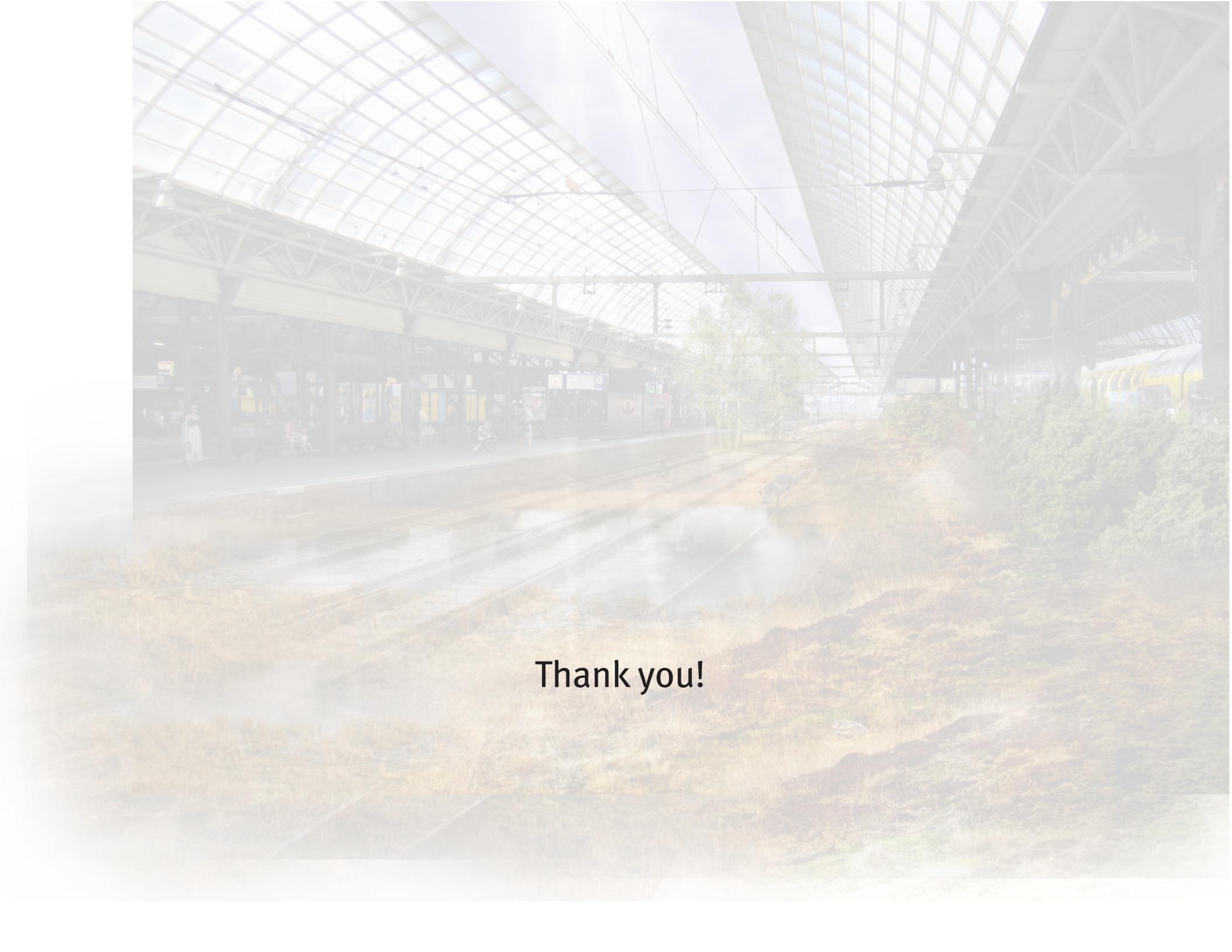
3c. Diversity in use and maintenance activities



3C. Diversity in use and maintenance activities



3c. Diversity in use and maintenance activities

A blurred background image of a modern train station. The station features a large, curved glass roof supported by a steel framework. The platform is visible, with some people and a yellow train in the distance. The overall atmosphere is bright and airy.

Thank you!