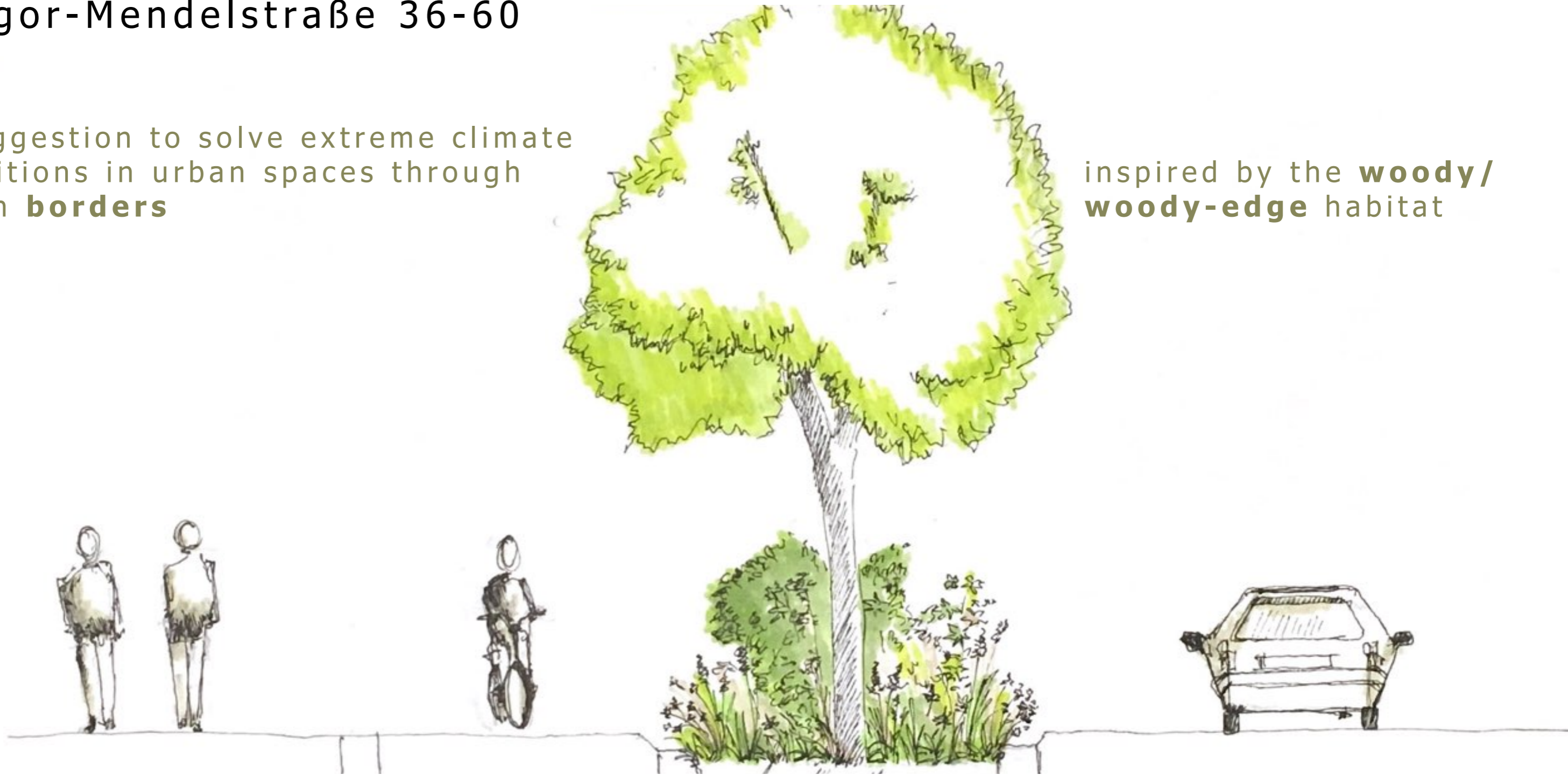


RAINGARDEN

Gregor-Mendelstraße 36-60

A suggestion to solve extreme climate conditions in urban spaces through green **borders**

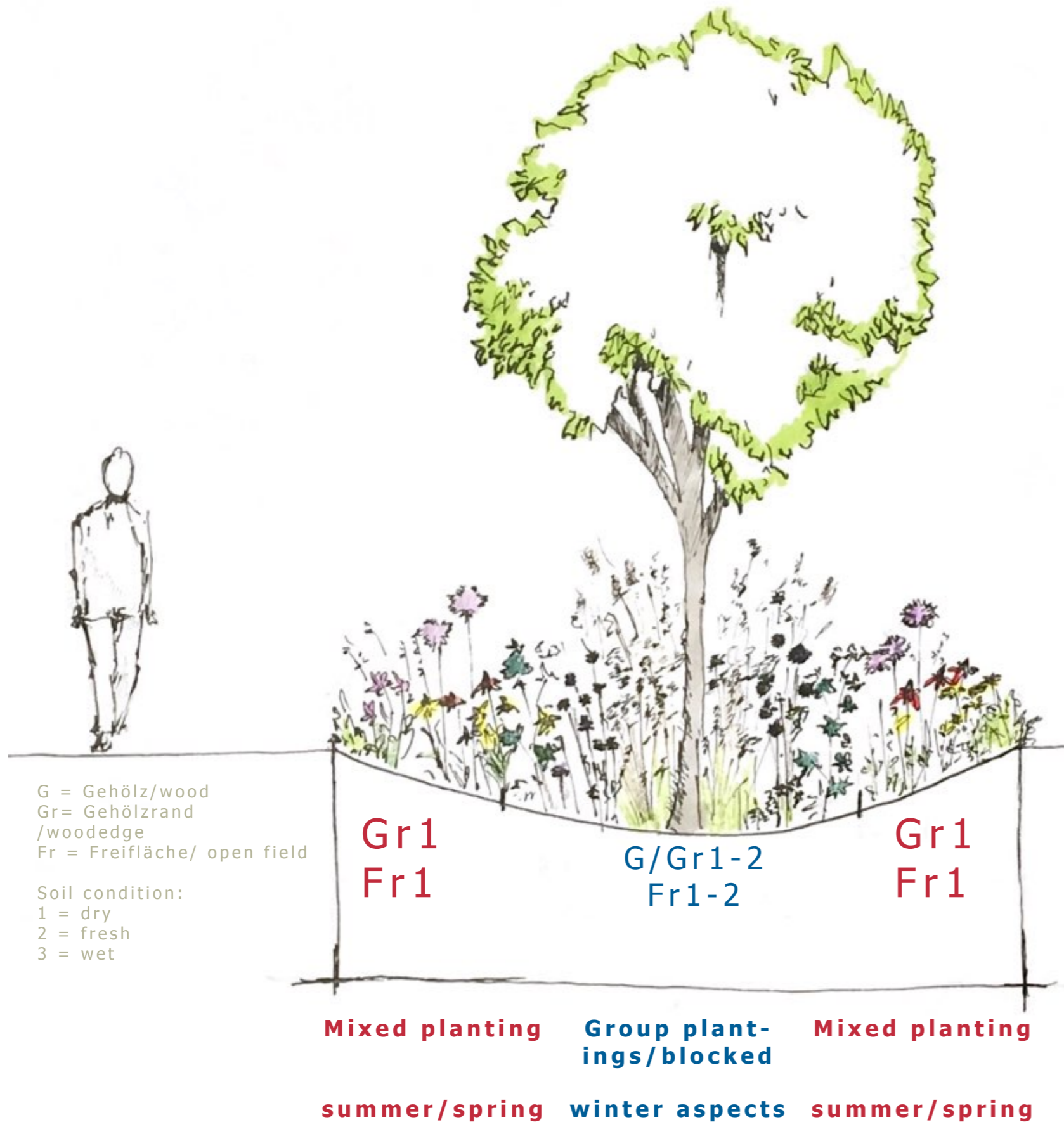
inspired by the **woody/woody-edge** habitat



Lena Holzwig
Lovisa Mokrosinski-Hoel

Planting design and horticultural ecosystem management WS 2021
Sabine Plenk, BOKU

RAINGARDEN - concept



Deichmans gate/Möllergata, Oslo, by Asplan Viak

- plants suitable for extreme weather conditions, mostly **drought**

- water drainage and retention, soil drainage vs. pipes

+ ecosystem services: pollution absorption, noise absorption, pollinator friendly, aesthetic value - summer and winter aspects

RAINGARDEN - plant plan

Gr1 G/Gr1-2 Gr1
Fr1 Fr1-2 Fr1



process sketch

10m



3m

Block plants

-  *Calamagrostis acutiflora* 'Overdam'
-  *Anemone japonica* 'Honore Jobert'
-  *Echinops bannaticus* 'Blue Glow'
-  { *Echinacea purpurea*
Echinacea purpurea 'Alba'
Achillea filipendula
-  *Asler heveyi* 'Twilight'
-  *Limonium latifolium*

Matrix plants

- Gaura lindheimeri*
- Allium altissimum*
- Aquilegia vulgaris*
- Dechampsia cespitosa* ('Goldschleier')

Tree

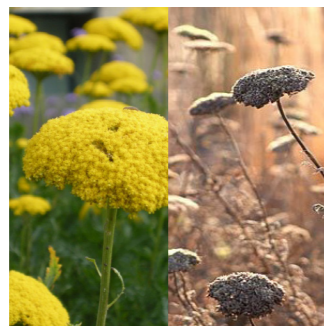
- Prunus padus*

RAINGARDEN - plant list

Nr.	Latin name	English name	Kultivar	growth form	Height, m	Width, m	Plantdistance, m	St./m2	LB	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	Salttolerant	Winterspect	sociality/ properties	Low maintenance
1	<i>Prunus padus</i>	Bird cherry		Tree	10-15	5-10	5-10		G													X		shallow roots	
2	<i>Achillea filipendulina</i>	Fearnleaf Yarrow		Perennial	0.7	0.6-0.9	0.4	6	Fr1-2													X	X	I	X
3	<i>Allium altissimum</i>			Perennial	0.8-1.5	0.1	0.6	2	Fr1-2													X	X	I	X
4	<i>Anemone japonica</i>	Japanese Anemone	'Honorine Jobert'	Perennial	0.9-1.2	0.3-0.6	0.45-0.6	7	Gr1-2													X		I-II	X
5	<i>Aquilegia vulgaris</i>	European Columbine		Perennial	0.3-0.7	0.4-0.8	0.3	11	Gr1-2													X/5		I-II	X
6	<i>Aster x herveyi</i>	Twilight Big Leaf Aster	'Twilight'	Perennial	0.7-0.8	0.4	0.5	4	Gr1-2													X	X	I-II	X
7	<i>Calamagrostis x acutiflora</i>	Feather Reed Grass	'Overdam'	Perennial	0.8-1.3	0.6-1	0.6-1	1-3	Fr1-2													X	X	I	X
8	<i>Deschampsia cespitosa</i>	Tufted Hair Grass	'Goldschleier'	Perennial	0.6-1	0.4-0.8	0.4	3-5	Gr/Fr2-3													X	X	I-II	X
9	<i>Echinacea purpurea</i>	Eastern Coneflower	'Alba'	Perennial	0.8-1	0.4-0.5	0.35	7-9	Fr1													X/5	X	II	X
10	<i>Echinacea purpurea</i>	Eastern Purple Coneflower		Perennial	0.8-1	0.4-0.5	0.35	7-9	Fr1													X/5	X	II	X
11	<i>Echinops bannaticus</i>	Globe Thistle	'Blue glow'	Perennial	0.9-1.2	0.3-0.6	0.6	7	Fr/B/GR1-2														X	I	X
12	<i>Gaura lindheimeri</i>	Whirling Butterflies		Perennial	0.6-1	0.6-0.9	0.4	6-9	Fr1													X		II	X
13	<i>Limonium latifolium</i>	Sea lavender		Perennial	0.6-0.8	0.6-0.8	0.35	8	Fr1													X	X	II	X



1



2



3



4



5



6



7



8



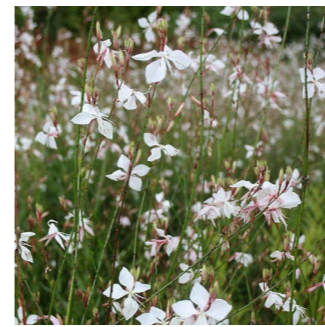
9



10



11



12



13

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