AGRI-Synergy Brenda Zuijdervliet More than 75 percent of Earth's land areas are substantially degraded, undermining the well-being of 3.2 billion people, (bron:nationalgeographic.com/ 2018) "Land degradation, biodiversity loss, and climate change are three different faces of the same central challenge: the increasingly dangerous impact of our choices on the health of our natural environment," said Sir Robert Watson. (bron: IPCC, IPBES) Synergy is the balance between nature, agriculture and housing. The collaboration is greater as a whole rather than the individual. The accompanying ideology is Permaculture; collaboration is also central here. Important for the design are the 6 functions of plant communities: attractor, repeller, suppressor, mulcher, accumulator, fixer. Since 1990, wild animal populations in open nature reserves and on farmland have halved on average. (bron: AD,WNF/ 2020) wole grains In this project, the aim is to feed and house as many residents as possible on 20.5 ha. In the harmonious collaboration between humans, animals and nature, 94% a vegetarian menu has been chosen. Five biodiverse landscapes have been designed in this, each with specific products and homes for the specific landscape. The 6 functions of plant communities have been taken Of the total surface area of the Netherlands, 54 percent is used as agricultural land, and 13 percent as buildings and traffic areas. (bron: CBS.nl/ 2020) into account in each landscape. For example, with this (bio)diversity of products, AGRI-synergy is 60% self-"Nature should actually be a structural part of architecture.That was also the case in the past, for example you can see it on a 15th-century monastery with swift holes in the facade. Practical, because the swallows could catch mosquitoes." (bron: Trouw/2021) About 9 percent of our food ends up unused in the waste bin every year, which is more than 34 kilos of food per person per year. (bron: milieucentraal.nl) MENU Landscape: vegetable garden vegetable garden fruit orchard fruit orchard, protein swamp ARTICHOKE WATER LENTILS HAZEL Use: vegetable, Use: protein, Use: nuts, oil, Landscape: Landscape: Landscape: Landscape: perennial guild perennial guild protein swamp protein swamp, food forrest Landscape: food Landscape: Landscape: food Landscape: food forrest border perennial guild forrest border forrest border VEGATABLE GARDEN FRUIT ORCHARD PERENNIAL GUILD PROTEIN SWAMP WOODED BANK **AGRICULTURE** amonia, oxygen Habitat: perennial Habitat: protein Main function: Main function: Habitat: food Habitat: farm, Habitat: house Habitat: house forrest border house Habitat: soil Habitat: food Habitat: perennial Habitat: protein protein swamp garden, orchard Main function: Main function: Main function: pollinating pest repeller pest repeller pest repeller \mathbb{N}_2 Habitat: perennial Habitat: perennial Habitat: perennial Habitat: protein guild, food forrest, guild, food forrest, guild, food forrest, swamp garden, orchard, garden, orchard, garden, orchard, protein swamp protein swamp **ARCHITECTURE** Soil: nutrient-poor Soil: wet swale, green alley flower meadow swale, wooded amphibian pool, swale, green alley wooded bank, wooded bank, ditch forrest ditch, swale 10m 2m 6m 2m 10m

FLOWER MEADOW

AMPHIBIAN POOL

GREEN ALLEY

WOODED BANK

NATURAL FORREST

NATURE



