

studio rhizomes



Vincent Gravé, Un grand Jardin, textes Gilles Clément dessins, 2016

studio rhizomes

Most plants have roots, but not all of them have rhizomes. The rhizome is the underground part of a plant's root system. It grows horizontally underneath the earth and has the ability to shoot upwards, giving life to individuals having a similar genetic material. Some common examples of rhizomatic species include bamboo, ginger, asparagus or potato. Many weeds successfully expand via their rhizomatic system, like the stinging nettle or the infamously invasive Japanese knotweed.



The ecological relation of roots, John Ernest Weaver, 1919









Rhizomatic systems: bamboo, ginger and ginseng

Urtica dioica, Wurzelatlas, Lichtenegger, E. 1992

A structure of specific interest



Rhizome: Introduction, Gilles Deleuze & Félix Guattari, les éditions de Minuit, 1976

Rhizomes

... have a desirable lack of unity, tending to a heterogenous spatial deve-... can be formed between different species. Wasp and an orchid constitu-

... cannot break, not because of their strength but rather due to their remarkable resilience. ... can be connected to others by multiple entry point and thus do not have a fixed centre. ... are heterogenous and do not comply with stiff hierarchy. lopment. ... expansion relates to cartography. They give shape to a map always likely to be remodelled or amended. ... produce clones and therefore are neither alienated to sexual reproduction nor burdened by genealogy. te for instance an exemplary rhizomatic connection.

A planning methodology

Rhizomes extend through space, covering a large surface without invading everything. They curiously engage with some points of interest but simultaneously neglect others. As such, they hold many similarities to the landscape architecture project, which requires to measure its intervention, reject what is superfluous and select the minimum action needed to have the greatest impact possible. This crucially allows to create bridges between otherwise disconnected ecologies and territories, a vital feature to act upon an era of mass extinction, global heating, and ecological collapse.



Philip H Lewis Jr, Tomorrow By Design: A Regional Design Process for Sustainability, 1996



Herman Jansen, 1910, urban competition for the «Gross-Berlin», from S. Roesler, City, Climate, and Architecture, A Theory of Collective Practice, 2022





A planning methodology

"(...) nature cannot be preserved in isolated eco-islands, surrounded by destruction everywhere else." Elizabeth Barham, «Ecological Boundaries as Communities Boundaries: The politics of Watershed», 2001



Duvigneaud (P.), La Synthèse écologique 1974



Project sites

1:10.000 1×2m = 20 km2



1. Mittelland - Bocage structures

2. Lausanne - Waterways space

3. Chur - Pastures and tree migrations

4. Basel - Gravel pits and extraction





5. Ticino - Chestnut heritage

Vaud - Watershed space





Joseph-Auguste Knip , The Flon Valley, 1844-47





DE SOURCE SÛRE, LA QUALITÉ DES COURS D'EAU VAUDOIS Direction Générale de l'Environnement, Vaud, 2017

Canalisation of the Flon river, ca. 1850

Ticino - Chestnut heritage





Kerner, J.S., Abbildungen aller ökonomischen Pflanzen, vol. 5, 1792



Valle di Peccia, Ticino, restored chestnut orchard



Grisons - Tree migrations





Dying pine in Reichenau in the Churer Rhine Valley



Panorma Haldenstein

Mont Blanc, 9403! 5 Lat. 45° 50'N

S15 0

(W.M+6")-4",0 Gr. S! Bernhard, 1285. Ala, virid_Ehed Dorf St Teran, 1046 t Pin , Cembr Pin.ab. Pin Picca Glätsch. Mittelhöhr Briangon 67 Ret.Alba Fag. Sylvat . Quer Jugl. Regia Cart. + 12 (W. M. 2/"

Profil durch die Alpen, aus dem Berghaus-Atlas (1845-1862)

ALPEN U. PIRÄNEEN Monte Rosa, 2370[†] Lat. 45"56' si ! Böchste Wohnung in während 2 Monar Pic Nethou, 1746,5. Lat. 42" as' Montperdu, 1715! L. 42"40' 3; 8. (W.M.+ 6") Tin. rubr. P.Inc. Pin Fie. Dorf Breuil 1020⁴am Guere . Gavarnie 740* Cast.

Swiss Plateau - Bocage networks





W. Nägeli, Les Bayards (NE), 1947

Soltner, l arbre et la haie, 1991



Les Bayards, aerial picture



Rhine valley - Gravel extraction





Abb. 5.1. Idealisiertes Zonationsprofil für das Bahngelände Basel – Weil-Haltingen. Für die Beschreibung der Pflanzengesellschaften vgl. Kapitel 5.3 (Zeichnung A. Coray).

Basel, Vegetation along the train tracks



Rhine harbour



PHOLCIM	SUISSE
Trouver un emplacement	~

RK THÜRNE

ERK EIKEN sse 4, 5074 Eiker auf: 058 850 00 4

WERK FÜLLINSDORF asse 26 4414 Füllin ng/Verkauf: 058 850 00 48 ung Kies/Beton: 058 850 61 3 jusqu' à 12:00, 13:00 auj

WERK AESCH reg 62, 4147 Aeso

ZEMENTTERMI NCHENSTEIN



Natur in Kiesgruben und Steinbrüchen Erkennen und Förden, Stiftung Landschaft und kies



Methodology



Landscape



EPFL, FS 2023 Le Hir Hélène



EPFL, FS 2023 Daniela Galván Ortiz





EPFL, HS 2022 Delessert Léa, Le Hir Hélène



EPFL, HS 2022 Reichel Federico, Nicod Julien



EPFL, FS 2023 Gabrielle Benson & Daniel Go



EPFL, FS 2023 Lesoille Noé

Ecology



EPFL, FS 2023 Thomas Brenne



EPFL, FS 2023 Melinda Papi



EPFL, FS 2023

Myriam Daiz



EPFL, FS 2023 Miguel Moreira Silva

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EPFL, FS 2023 Daniela Galván Ortiz



EPFL, FS 2023 Myriam Daiz, Melinda Papi

Studio life

Regular attendance is a prerequisite for taking part in this landscape project. The site visit will be a key moment requiring active participation. Studio work will be carried out in groups and then individually. Table discussions with the students will be punctuated by short exercises, presentations by external speakers and reading groups



depatriarchise design workshop. 2020



KIT, winter semester 2021-22



EPFL, autumn semester 2022



EPFL, spring semester 2022

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