

# Italcementi

trAILs - Alpine Industrial Landscapes Transformation

Project studies in the Winterterm 2018 - 2019 Chair of Landscape Architecture and Industrial Landscape Prof. Dr. Udo Weilacher Department of Architecture at Technical University of Munich





## **Content:**

Italcementi Project studies on the pilot-site in Borgo San Dalmazzo1
trAILs Alpine Industrial Landscapes Transformation2
Background analysis A comprehensive site analysis4
autoPLANT Italcementi Master's Thesis Theresa Finkel6
Bachelor-Projects: reBinding Borgo Fabian Konopka, Jan Rościszewski, Carling Soui10
italframmenti Alexandra Grama, Sabrina Trampen14
Italcementi Campus Daniela Jell, Pasha Vredenbregt18
LEVEL UP Larissa Böhrkircher, Josef Östblom, Lotta Steger22
reMOVE.it Sophie Allendorf, Alina Kersten26
Findings and prospect

### **ITALCEMENTI**

Project studies on the trAILs pilot-site in Borgo San Dalmazzo

The city of Borgo San Dalmazzo lies at the foot of the Mediterranean Alps, in the transition zone of the steep mountain topography and the vast plains of Torino, the capital of the Piedmont region. Its relicts from historic times date back to the year 300 BC, when the city was founded by the Romans on top of the descending slopes. The landscape just south of the city's foothills is not only characterized by the Alpine panorama and the Gesso and Vermenagna torrents, but particularly defined by the immense industrial colossus of the cement factory. Protected from the river by a solid bank reinforcement and surrounded by high walls, fuel tanks, chimneys, towers and huge halls with rotating ovens lie like artificial rocks in the valley of the Gesso. The Alps delivered limestone and hydropower, two important resources for construction and production as well as energy generation. These natural resources alongside an existing railway connection provided for an ideal location for a cement plant that was eventually built in 1945 after a construction delay due to the second world war. The plant never really recovered from the economic break-ins during the last world economic crisis and was facing an imminent closedown



in 2009. The takeover by Heidelberg Cement in 2019 brought about an easing of tension, however, the future of the location remains uncertain. Therefore, the city is looking for a sustainable perspective for this potential industrial wasteland which could contribute to a successful urban development.

In October 2018 landscape architecture students from the Chair of Landscape Architecture and Industrial Landscapes visited the former Italcementi cement plant in Borgo San Dalmazzo (Cuneo), which is one of the pilot areas of the research project trAILs (Alpine Industrial Landscapes Transformation), see following page. During the site analysis students visited the factory, a former quarry and the landscape context of the Gesso-valley. In a cooperative workshop the students have elaborated first concepts for the site transformation and shared them with project partner LAMORO and key local stakeholders like the Mayors and representatives of Borgo San Dalmazzo and Valdieri municipalities.

After the project excursion to Borgo San Dalmazzo, five teams of 7<sup>th</sup> semester bachelor students in the design studio and the masters student Theresa Finkel which developed her master's thesis about the cement plant Italcementi have worked on suitable transformation concepts. The results show different approaches such as partial renaturation, establishing recreational areas, developing a research campus, a cultural campus or launching a creative lab. The final projects will be integrated in the trAILs WP T3 workshop foreseen for September 2019.

The rotating ovens are one of the most characteristic remnants of the former cement plant 1

### trAILs Alpine Industrial Landscapes Transformation

The decline of traditional heavy and manufacturing industry is occurring nowadays even in peripheral and less urbanized regions, such as the Alps. Here, in the so-called "green heart of Europe", this process is leaving behind impressive former productive landscapes of relevant size and complexity: Alpine Industrial Landscapes (AILs). The potential value of AILs in terms of sustainable development is strongly connected to Alpine-wide ecological, economical and social key challenges. such as the regeneration/improvement of blue and green infrastructures, the reactivation/upgrade of regional economies and the promotion of local identity and cultural heritage. However, at the present only few AILs have been reused and transformed for these purposes, mostly those located in proximity or within large Alpine cities and urban applomerations, where good accessibility and a rather developed socio-economic environment have allowed so. The majority of AILs are indeed to be found in small municipalities and economically marginal contexts. burdened by financial, technical and planning limitations.

The project trAILs - Alpine Industrial Landscapes Transformation, initiated in 2017 by the Chair of Landscape Architecture and Industrial Landscapes of the Technical University of Munich and officially approved by the Interreg Alpine Space Committee in April 2018, aims to generate significant knowledge about AILs and to develop and test sustainable transformation strategies applicabile and replicable in the whole Alpine space.

To achieve these objectives, the project builds on a strongly multidisciplinary and transnational partnership combining proved expertise in the fields of landscape architecture and environmental sciences (Technical University of Munich, University of Ljubljana), spatial planning (Polytechnic University of Milan, Vienna University of Technology) and socio-economic sciences (University of Verona) with regional and local Alpine



The transnational partnership of trAILs around the Alps

communities represented by regional development agencies in Austria (VESTE/Styria), Italy (LAMORO/Piedmont), France (CAUE84/PACA) and Slovenia (BSC KRANJ/Gorenjska).

The foreseen activities are structured around four work packages. The first one (Map AILs) deals with the implementation of an AILs database starting from the data available in the project pilot regions and the subsequent development of an interactive GIS web-based platform to visualize the current situation across the whole Alpine Space. The second and third work packages (Assess AILs and TestAILs) are based on the project pilot sites (Eisenerz/AT. Borgo San Dalmazzo/ IT. L'Argentière-la-Bessée/La-Roche-de-Rame/FR. Tržič/SLO) and focus respectively on the comprehensive and multi-criteria assessment of AILs actual conditions and the development of a test-design procedure for AILs transformation. Test-design, in particular, represents a core activity of the whole project, since will bring together project partners, regional stakeholders. experts and international observers in a participatory planning process taking place on-site through a workshop format of several days. The last work package (Manage AILs) will transfer the generated knowledge to end-users through the establishment of an AILs knowledge exchange, information and decision support platform as well as the publication of a methodology handbook and a learning module for advisory and training activities.

With this approach, the project will support local and regional stakeholders in the complex process of sustainable AILs transformation, providing them with clear strategic planning tools for the future as well as with hands-on experiences. Several institutions have already expressed their interest in the project activities and outputs, and thus joined the project as observers. Among them, the Regional Authorities of Bavaria, Lombardy, Piedmont, Auvergne Rhône-Alpes and Provence-Alpes-Côte



Workers of Italcementi guided the students and teachers of the design studio over the site

d'Azur, the Slovenian Ministry of Spatial Planning and Environment, Alpine-wide organizations such as the Permanent Secretariat of the Alpine Convention and CIPRA International, and the universities of Graz, Zürich and Bergamo.

Marcello Modica

The project is founded within the EU-Interreg Alpine Space Programme (Priority 3 - Liveable Alpine Space, Specific objective 1 - Sustainably valorize Alpine Space cultural and natural heritage) with 2.187.400,30 Euro and will last until April 2021.

More information, news and events can be found on the project website: https://www.alpine-space.eu/projects/trails

### **Background analysis**

#### SITE BORGO SAN DALMAZZO

After the Second World War, in Borgo San Dalmazzo and Valle Vermenagna, some of the most important heavy industries in the province came into operation. The first settlement of heavy industry in the Province of Cuneo was the Italcementi Spa plant in Borgo San Dalmazzo Municipality. In 1947 Italcementi started the first two furnaces for the production of lime and two hydroelectric power plants. In 1955 and 1956, two other furnaces were added in order to encourage greater production. Until 2008 three furnaces were active. The Borgo San Dalmazzo plant boasts a long history on the territory and, for many years, the cement factory was one of the best sources of work for those who lived in the area, from Cuneo to the valleys. Since 2009, the economic contraction and the obsolete plant type almost to a shutdown. After strikes, protests and interventions of various kinds, the closure was implored and the plant was transformed into a grinding center. As a result, the number of employees dropped drastically. Today only 20 employees remain.<sup>1</sup>



(above) The former cement plant lies in the transition zone of the steep mountain topography and the vast plains of Torino (down) The site is bordered by the medieval core of Borgo San Dalmazzo in the North and of the torrent Gesso in the South



1 LAMORO 2018: P. 31 et seq.



Location of the industrial conversion landscape in 4 the Piedmont region in North Italy.

#### FCONOMIC AND SOCIAL SITUATION

The major pillars of the economic development in the pilot area is represented by the agriculture and livestock, manufacturing industries, energy production and tourism. Borgo San Dalmazzo also receives the benefits from Cuneo city. As a mountainous territory, the pilot area is characterized by common aspects: depopulation by young people. high rate of ageing people, with the related problems about services for older people, low level of accessibility due to the morphology, lack of infrastructures like internet via fast line and social infrastructures, low level of services like schools, hospitals or health poles. Commercial Structures. like shops, are fragmented. But the economic situation of the pilot area as a total is positive, because the tourism is the leading sector, for example the Limone Piemonte ski infrastructures and Natural Parks facilities.<sup>2</sup> About 12,500 inhabitants (2016) live in the municipality of Borgo San Dalmazzo, which is a density of 560 inhabitants per square kilometer. The Regional Territorial Plan describes the area

where the pilot project is marked, as a region affected by the urban sprawl. Unfortunately, the urban sprawl is increasing, due to the fact that the abandoned villages are no more restored and new buildings are made on free soils.<sup>3</sup> The road infrastructures are important: the railway branches link the capital to the north with Fossano and then Turin, to the south with Nice, and to the east with Mondovi,

#### NATURAL CONDITIONS AND LANDSCAPE

The pilot area is inserted in the Maritime Alps territory which embraces the part of the Alps between the Colle di Tenda (Tenda Pass) and the Colle della Maddalena (Maddalena Pass), including the three valleys that lie on the Italian side of the Maritime Alps: Vermenagna, Gesso, and Stura Valleys.<sup>4</sup> Borgo San Dalmazzo is situated on the edge of the Cuneo plain, which opens at the bottom of a series of vallevs arranged in a fan and dominated, at both ends, by the peaks of Monviso (m 3841) and Argentera (m 3297). Therefore, the area is characterized by a strong hydrography. with rivers running parallel from south-west to north-east towards the greater waterways of the region, the Tanaro and the Po.<sup>5</sup> The pilot area is covered by many protected areas and high mountainous areas over 1600 meter above sea level. As protected areas there are two Natural Parks: the Parco naturale del Marguareis and the Parco naturale delle Alpi Marittime.<sup>6</sup>The climate change will have effects on the environment and ecosystems, as it will involve an overall higher heating during the summer than the winter. Other changes are expected in rainfall, with more frequent summer droughts and greater precipitation during the winter, and moreover an increase in extreme weather events. like floods, heat waves, dryness and so on. These changes pose greater risks for a territory that is fragile from a hydrogeological point of view, for example the risks of landslides and flooding.<sup>7</sup> The climate change will also have an impact on the economic activities derived by the winter tourism, as the amount of snowfall during the winter is decreasing.

2 LAMORO 2018: P. 28

3 LAMOBO 2018: P. 22 Ibid P 7



Ibid. P. 10 et seq.







### autoPLANT- Italcementi

Master's Thesis Theresa Finkel

Landscape architecture as a planning discipline is, from the moment of completion, expected to design spaces that will work for everyone, everything, and almost forever. Constant conflicts of interest, the rapid progress of our society and climate change, however, are only a few factors that show us how these are unfulfillable ideas and that places should not be set in stone. With the awareness that we and our environment follow the rules of evolution and are only components of a larger structure of action, the question arises what sustainable planning should look like at all?

This work therefore seeks answers in the theories of autopoiesis. The system-theoretical approach states that closed systems can reproduce themselves and evolve evidently, but are nevertheless aware of their environment and allow for exchange. Autopoiesis finds its origin in biology, in which it describes the dynamics of autonomous systems, such as cells. Apart from that also in sociology and architecture is worked in the tenets of autopoiesis. At the core of the theoretical discussion, autopoiesis is positioned in relation to landscape architecture working out its main criteria. Are these principles directions for a contemporary and at the same time timeless planning strategy?



4 presentation panels (original scale DIN A0)



Using the example of the decommissioned cement plant of Italcementi in Borgo San Dalamzzo (Piedmont, Italy), it is being examined how the rules of autopoiesis can be implemented in the draft. The isolated industrial area lies like a wedge in the middle of the Gesso Valley and cuts the city off the river. In order to reopen the gateway to the Alps at the site, the concept calls for a break-up of the rough factory structures. The abandoned buildings are almost completely dismantled and processed on site in a recycling- concrete plant. In order for the river and the city to get closer again and at the same time to reduce the flood problem, large amounts of earth mass are being excavated to broaden the river bed and used to model a raised city edge.

The transformation cycles follow the principle of autopoiesis of the masses. Finally, the project must be equipped with enough components to pave the way for autonomous development. In return, incentives are offered for as many different players as possible. Among the actors are not only individuals with different interests to understand, but also groups, clubs, business, politics, as well as flora and fauna. The communication between them will then ensure that the place preserves, transforms and develops without the need for a detailed description of all processes by planners. First potential changes are outlined in the scenario in the year 2050 in order to check whether autopoietic design actually holds, what the elaboration of the theory promises.

> Connecting the former divided structures by breaking and opening up the site through restoring to nature, terrain modelling and recycling



Today - Structures of the city, the site and the river landscape are divided from each other.

In the focus design zone the terrain modelling results in three levels - The city, the company grounds and the riverside area





Breaking up the rock

Breaking up the blocking character of the cement plant structures

The functional processes of the transformed site follow the autopoiesis philosophy

-1-1

1

### **REBINDING BORGO**

Fabian Konopka, Jan Rościszewski, Carling Sioui

The vision "reBinding Borgo" addresses the contrasts between the post-industrial site "Italcementi" and its spatial, social and economical context. Contrasts which particularly became unraveled during the process of withdraw over the past 10 years. In their diversity of problems between a declining economy of heavy industries, a loss of future opportunities for upcoming generations, a therefore aging society and by that declining traditional economies and cultural heritage, these contrasts show a high level of complexity and are in this way a symptom for a large process of small cities within the sub-alpine region in North Italy faces.

Seeing these multilayered contrasts not only as a challenge but as a melting-pot of potentials to direct the future of those places and in that way define future principles for a regional problem, the project aims to re-integrate the site in a physical and metaphysical way into the landscape and with its actors. By implementing new functions on the site and spatially integrating it into the context the project focuses the problem of the simultaneous social and a spatial disconnection with the site. Understanding this as a process that develops in space and time rather than a single step builds the backbone of the concept and leads the spatial design principles. The gradient of working with the existing structures and their development in that process builds the core element of the spatial design to reveal hierarchies in space that build the base of a flexible development in time and a poetic clarity.

At the end the integration of these contrasts within the project respect the unique character of this place and at the same time offer new visions which to continue telling the story of that place instead of overwriting it.

### **REBINDING BORGO**













4 presentation panels (original scale DIN A0)







Turn into ruins







Spatial design principles of preservation and transformation



The concept is represented by the implementation of a spatial gradient that defines different spaces with graded levels of functions to mend the cement plant with its spatial and social context.





### **ITALFRAMMENTI**

Alexandra Grama, Sabrina Trampen

The design concept 'italframmenti' is bringing nature back onto the site through minimal interventions, while also preserving the identity of the cement plant by keeping the key elements of the industry. The overall concept will tie in on an already existing nature park and will follow its goals of integration social usage and reviving the image of landscape and biodiversity. Thus, social, economic and ecological goals should be achieved by engaging in tourism and education services. With this design, the cement plant will be integrated into its surroundings, gain infrastructural accessibility, in order to change the perception of a seemingly isolated element in its landscape. After carefully analyzing the essential factors of this landscape, the most important spatial elements can be filtered, which are then to be preserved. Furthermore, the addition of new elements in order to connect key layers and overlay the spacial elements of the site, can be revised. A concept. which works as a long-term strategy to bring back nature on an industrial site and to make it visible and enjoyable to people. This will be achieved by removing built structures, which do not serve the purpose of reuse or exhibiting a landmark-like character, as well as breaking the concrete pavement open, in order to initiate spontaneous succession. Earthbound and elevated walkways for pedestrians, joggers, and cyclists are increasing orientation in the park. Secondary walkways let the visitor explore and experience nature very closely. A central square showcases cultural activities. educational buildings like museums and workshops, sports activities and recreational facilities. A marketplace for regional products and a cafe shall strengthen social interaction and local identity in the alpine region. All demographics will be brought together onto the site, so kids, parents and seniors can enjoy the landscape they are used to and call their home. Over the years, they will witness italframmenti come together.

#### ITALFRAMMENTI



3 presentation panels (original scale DIN A0)









Characteristic elements of the factory are preserved to keep the identity while nature takes over the site



The design concept brings nature back onto the site and connects the area to an already existing natuRe park, while preserving the identity of the cement plant through the preservation of industrial remnants.





### **ITALCEMENTI CAMPUS**

Daniela Jell, Pasha Vredenbregt

The concept 'Thinking outside the box' solves these problems and at the same time offers a solution for other abandoned industrial conversion areas.

Establishing a barrier in form of a wall within the site creates two clearly separated zones. Both zones host similar conditions but develop in a contrasting way, since they are maintained differently. The zone inside the wall is an area where no human impact is possible. It's a natural zone, where industrial structures get overgrown. In contrast, the outer zone is an area with high human impact, where a research and education campus is based. The natural zone serves as the object that is observed and monitored by the surrounding campus. It can be seen as a test field to find out if succession in combination with old industrial structures are benefiting the local ecology. If so, this concept can be implemented to other abandoned cement plant sites.

On the campus itself, study and working places as well as community areas are provided. These include an information center, lecture halls, seminar rooms, test and research fields, offices and a café at a main plaza. The two zones are linked through observation rooms, which are located within the natural zone and can be reached by enclosed pathways. In this way people can get an insight into the enclosed area without interfering with it. Letting people see and experience nature slowly taking over the manmade structures makes them aware of the impact they had on the natural landscape by building industrial factories like the Italcementi cement plant.

#### **ITALCEMENTI CAMPUS** THINKING OUTSIDE THE BOX





















4 presentation panels (original scale DIN A0)





Different observation stations offer inviews into the "Jungle Box" and the developing nature.

The principal axis leads from the main entrance on the east side along the research campus and the "Jungle Box" to the west side

Establishing a barrier in form of a wall within the site creates two clearly separated zones. Both zones host similar conditions but develop in a contrasting way, since they are maintained differently.



### LEVEL UP

Larissa Böhrkircher, Josef Östblom, Lotta Steger

The concept 'LEVEL UP' targets social, economical and ecological aspects by abstracting the terrace structures of the surrounding landscape and uses them simultaneously to tackle the very prominent high risk of flooding at the site and the nearby areas. Subdividing the intervention into three partially floodable levels, the design approach reconnects the river Gesso to the town both physically and mentally. By keeping and reusing elements of the existing factory, the identity of Italcementi and therefore its history is being kept, while the site takes new forms, offering a variety of possible uses and space for a further future development. A key aspect of the project is to overcome barriers and to create new connections. May it be between the two currently separated towns Borgo San Dalmazzo and Roccavione or between the former industrial site and the pilgrimage church of Monserrato, which is of great importance to the people of the villages. Through this a clear and positive position is taken, showing that former industrial sites can indeed have a positive impact and are a rightful part of the alpine landscape.

#### LEVEL UP TAKING ITAL CEMENTI TO THE NEXT STEP











4 presentation panels (original scale DIN A0)







RETE TILES EDG













LAI TUM





In the concept, the river is given back its space and the formerly present river branch is reintroduced. Terraces structure the steeper topography and contribute to the adaption of the site into its surrounding landscape.





### reMOVE.it

Sophie Allendorf, Alina Kersten

The mountain river Gesso has been forming the landscape around Borgo San Dalmazzo. In late spring, it regularly triggers flood events in Cuneo, which are becoming more and more extreme and frequent at times of progressive climate change. Due to the construction of the cement plant in the 1940s, bank reinforcements severely interfered with the course and dynamics of the torrent in order to prevent the flooding of the factory site. The connection to the city of Borgo and the accessibility to the river Gesso was interrupted as well. The preservation of the factory buildings is no longer justifiable due to the loss of their economic benefits and the negative social and ecological effects on people and landscape. reMOVE.it thus holds the view, that the cement plant must be dismantled so that the torrent Gesso can regain its proper space. On the northern edge of the area along the railway, a connecting strip is formed, which is strengthened by the reshaped dynamic river landscape. The southwestern part of the strip will be a building area, creating a promenade-like situation with a magnificent view of the Maritime Alps. By establishing a conference and congress center. Borgo will gain supra-regional radiance and in turn profit from the leisure tourism. In addition, facilities for the needs of the inhabitants of Borgo and the region are being created, such as co-working spaces or an event hall. The promenade, rising with the topography, should be considered as part of the landscape and forms a final strong edge to the wild river area. reMOVE.it wants to recreate the dynamic of the torrent Gesso and transfer it to its surroundings. In this way, the site won't remain in a silent state of an empty factory but will be transformed and moved towards a promising future.



4 presentation panels (original scale DIN A0)





The promenade, rising with the topography, should be considered as part of the landscape and forms a final strong edge to the wild river area.



# Findings and Prospect by Fabian Konopka

The special thanks of the students go to the responsible workers of the Italcementi cement plant and the key stakeholders like the mayors and representatives of Borgo San Dalmazzo and Valdieri municipalities. All of them contribute their time to introduce the students into the different aspects of the project and made it possible to get a solid insight into the situation on site. In particular due to the high complexity of the project, their support was highly valuable.

The project itself offered many complex challenges for the students. Especially the immense scale of the former cement plant, the spatial and immaterial contrasts between the site and the city of Borgo San Dalmazzo with the river landscape and most of all the unique location on the foothills of the Mediterranean Alps contribute to the complexity of the project. Within the process of searching, finding and working out transformation concepts, the students built models, implemented flowing studies of water in an artificial river landscape and analyzed other industrial areas all over the world.

One other aspect of the design studio was the experimental analysis on site in the context of a video-workshop. During the site analysis students filmed the cement plant and the landscape context in their own way. The filmed material resulted in five different short movies. Next to the short movies as a result. the video-workshop helped the students to get a new view and unexpected insights on the site and the landscape context which gave an orientation during the design process. At the end of the design studio a large range of different transformation concepts were presented. Different visions like the restoration of the torrente Gesso with a new promenade park, the transformation of the structures into a cultural design

campus or the implementation of a transformation concept under the philosophy of the autopoiesis theory represent the vast variation of developed ideas. In this way all the approaches reveal the unique character and value of this industrial conversion landscape. The visions may show different levels of feasibility, but definitely contribute a solid and creative base for the discussion about the future visions of the cement plant and other industrial sites within the unique context of the Alps.









The design studio of the TU Munich with project partner LAMORO, mayors and representatives of Borgo San Dalmazzo and Valdieri municipalities in the municipality hall of Borgo San Dalmazzo from left to right, top row: Udo Weilacher, Domenico Sanino, Daniela Risso, Gian Paolo Beretta, Jan Rościszewski, Lotta Steger, Sabrina Trampen, Fabian Konopka, Alexandra Grama, Pasha Vredenbregt, Sonia Abluton, Diana Böhm, Umberto Fava, Marcello Modica.

from left to right, bottom row: Josef Östblom, Larissa Böhrkircher, Alina Kersten, Sophie Allendorf, Theresa Finkel, Daniela Jell.

#### Sources

LAMORO Development Agency: WP T1 A.T1.3 Pilot Profile. Asti, 2018 Weilacher U., Modica M. (2019). "Transforming Alpine Industrial Landscapes". In: TUM Department of Architecture (Ed.): Review 2018-2019. München; pp. 52-53.

#### Image Credits

- P. 1, Picture Rotating ovens Italcementi, Foto: Fabian Konopka
- P. 3, Picture Design Studio site visit Italcementi, Foto: Marcello Modica
- P. 4, (top) Italcementi Cement Plant in 1960. Foto: www.delcampe.net (11.06.2019) P. 4, (bottom, right) Aerial Picture Italcementi, from: Google Maps https://www.
- google.com/maps/search/ltalcementi/@44.6870345,7.7033761,10z P. 4, (bottom, left) Map Regions in Italy, from: Wikipedia https://de.wikipedia.org/
- wiki/Piemont
- P. 5 (bottom, left) Topography and infrastructure map, from: Open To Map https:// opentopomap.org/#map=5/49.023/9.998
- P. 5, (bottom right) la planimetria della cementeria, © Italcementi Group; translated by LAI
- P. 30, (bottom, left) Guest Critic Peter Latz during final presentation Foto: Jonas Bellingrodt

- P. 30, (botom, middle) Design Studio during Final Presentation Foto: Jonas Bellingrodt
- P. 30, (bottom, left) Guest Critic Silvia Benedito and Prof. Udo Weilacher during Final Presentation; Foto: Jonas Bellingrodt
- P. 31, Design Studio with representatives of the municipality in the City Hall of Borgo San Dalmazzo, Foto: Carling Sioui

All materials which are not named here belong to the authors. The authors of the different texts are responsible for the contents of the collected texts of this broschure.

#### Imprint

#### Publisher:

Chair of Landscape Architecture and Industrial Landscape Department of Architecture at Technical University of Munich Prof. Dr. sc. ETH Zürich Udo Weilacher

Emil-Ramann-Straße 6 85350 Freising Weihenstephan www.lai.ar.tum.de

#### Supervision:

Prof. Dr. sc. ETH Zürich Udo Weilacher M.A. Martin Augenstein, Dr.-Ing. Diana Böhm M.Sc. Marcello Modica Bernhard Schöner (modelling)

In Kooperation with:

Guest Critics:

trAILs

Silvia Benedito (Associate Professor Harvard University, Graduate School of Design), Peter Latz (Emeritus of Excellence Technical University of Munich)

#### Participants and Authors:

Sophie Allendorf, Larissa Böhrkircher, Theresa Finkel, Alexandra Grama, Daniela Jell, Alina Kersten, Fabian Konopka, Josef Östblom, Jan Rościszewski, Carling Sioui, Lotta Steger, Sabrina Trampen, Pasha Vredenbregt

#### Editorial, Design and Layout:

M.A. Martin Augenstein Fabian Konopka

Print:

d | m | z Druckmedienzentrum Gotha GmbH

#### Edition

100 Copies Digital Version as PDF at www.lai.ar.tum.de

Freising / Juni 2019





Chair of Landscape Architecture and Industrial Landscape Department of Architecture at Technical University of Munich Prof. Dr. Udo Weilacher

Emil-Ramann-Straße 6 85350 Freising Weihenstephan