# ARCHITECTURAL SCIENCES AND ECOLOGICAL APPROACHES

EDIT●RS Dr. Hüseyin Berk TÜRKER Dr. Fatmagül B●LAT



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# Architectural Sciences and Ecological Approaches

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#### **PREFACE**

Our ecological challenges call for innovative approaches that transcend traditional disciplinary boundaries. It is with great pleasure that we present this book, "Ecological Approaches," which brings together diverse perspectives from spatial planning and design and agriculture.

This book embraces the ethos of interdisciplinary collaboration, aiming to foster a deeper understanding of the complex relationship between the built environment and the natural world. By integrating architectural sciences, we believe in the potential to shape a more livable world that harmonizes human needs with ecological sustainability.

In the spirit of fostering knowledge exchange and scholarly discourse, this book extends the pioneering efforts initiated by the "Journal of Architectural Sciences and Applications (JASA)." Since its inception in 2016, JASA has provided a platform for collective studies in related disciplines. The dedicated editors of JASA have played a crucial role in curating original works and disseminating the latest developments in the field through various publications.

This volume, curated by esteemed experts in the field, showcases a rich collection of research and innovative practices that highlight ecological approaches within spatial planning and design.

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We hope this book serves as a valuable resource for academics,

researchers, practitioners, and students, inspiring further exploration

and contributing to advancing ecological thinking in our built

environment.

We extend our sincere gratitude to the contributors who have shared

their expertise and insights and the diligent researchers who have

dedicated their time and effort to bring this publication to fruition.

We invite readers to embark on a journey that explores the

interconnectedness of ecological principles and spatial design,

paving the way for a more sustainable and resilient future.

18.05.2023

**EDITORS** 

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Dr. Fatmagül BOLAT

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# **Ecology and Landscape Planning: Evolution in the World and Türkiye**

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#### 1. Introduction

Spatial planning can be called as ecological spatial planning when the process carried out in a "nature-based" manner. When such an action is carried out based on landscape knowledge, then the process is called landscape planning. The landscape knowledge in question is first and foremost nature-based. Within the scope of landscape knowledge, the concept of nature-base can be expressed within the context of the mechanisms that form/characterize a landscape. Those mechanisms can be identified by landscape structure, function, and change. The concept of landscape is about the whole that its components form it together, rather than the singular expressions of the components that compose it. In other words, any landscape component can be included within the scope of landscape knowledge, when it is explained in the context of the whole. Then, landscape knowledge can be conceptualized as the spatial and temporal expression of ongoing interactions in a certain area. Such a landscape-based spatial planning approach is called as landscape planning, and it is critically significant as the most fundamental basis for securing the benefit of "healthy natural environment for all" expected from spatial development decisions.

According to the modernist spatial planning approach, which is still influential today, space is an object to be shaped for social purposes. Therefore, urban space has a value only within the scope of a certain social project (Işık, 1993). It would not be wrong to say that such a human-centered planning approach did not provide an answer to the problems it promised to solve within the framework of the worldview dominated by

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modernism, and even added many more problems and carried the world to the environmental crises of today. It is not possible to say that this approach which has been started to be abandoned since the first half of the 20th century, found a response all over the world. First and foremost, the worrying aspect of modernist planning approach from the perspective of ecology is its tendency to see nature and its elements as "the other". What is most surprising is that such marginalization still goes unnoticed by the legally authorized individuals and institutions for spatial planning in developing or undeveloped countries. The most obvious proof of this explanation is the absence or inadequacy of actions in national laws and regulations to ensure the implementation of landscape planning. It is possible to say that there is almost obvious resistance to the ecological planning approach (landscape planning) mentioned in this section. For example, while Türkiye is considered among the G20 countries in the world, which focuses, inter-alia, sustainable development, health, climate change (G20, 2023), it is surprising that the landscape plans in question have not yet been legally included in the spatial planning process. Evidence and consequences of this discourse can be traced from the practices of urbanism, architecture and even landscape architecture that interfere with nature. Of course, there are successful practices of landscape planning in the developed world. However, if landscape planning does not find widespread execution in the world, the fragmented practices will not be able to protect the fragile world from global environmental problems. Therefore, the most fundamental problem is that the ecological perspective and the concept of landscape planning, design and management, which

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form the basis of the existence of the profession of landscape architecture, have not fully taken their place in legislation and practice in many parts of the world and in Türkiye, despite many well-intentioned partial steps. From the perspective of landscape knowledge, the ecological approach is mainly based on the science of landscape ecology. Landscape architecture is the discipline that has established its ecological knowledge and competencies in its educational structures in the world via worldwide program accreditation documents (IFLA Europe 2017; ASLA LAAB, 2021). However, today, still in many countries including Türkiye, the landscape is considered after the city has been planned with a modernist approach and its building architectural development has been decided, even constructed. From the ecological point of view, landscape is not a scientific basis to be evaluated in the last instance, on the contrary, it is a preliminary action area in spatial planning efforts.

In this part of the book, the reasons why ecological planning, more comprehensively landscape planning, are the basis for spatial planning and the information base it will provide is intended to be explained. Then, explanations are provided on the development process of landscape planning in the world and in Türkiye. In conclusion, emphasis is placed upon the necessity and importance of landscape planning as a preliminary action area in spatial planning processes.

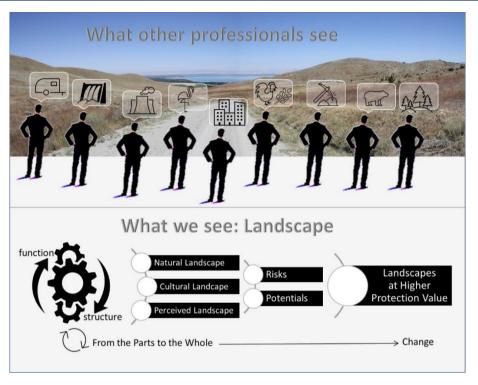
#### 2. Landscape and Ecology

German geographer Alexander von Humbolt (1769-1859) defined the landscape as the total character of a region. Landscape ecology is "a branch of science that deals with the complex cause-effect relationships between

the environmental conditions prevailing in any part of the landscape and living communities as a whole" (Odum and Barrett, 2008). In other words, landscape ecology is the field of scientific endeavor that examines the structure, function and change of the landscape within the framework of an ecological view (Koç and Şahin 1999; Şahin, 2001a,b). This definition, as visualized in Figure 1, also reveals the differences in the focus and evaluations of landscape architects and other disciplines in their view of the same landscape. And precisely indicates that three forming mechanisms (structure, function, and change) are interconnected (Dilek et al, 2008).

The concept of landscape should be understood as an integrated expression of the following words (adapted from Şahin 2009; Şahin et al. 2014):

- "1. Dynamism and continuity: The European Landscape Convention defines landscape as "an area whose characteristics, as perceived by humans, are the result of the interaction and activity of human and/or natural factors". However, this perception does not represent a snapshot but a dynamic, constantly evolving and changing space.
- 2. Perception and reality: The landscape as perceived by people is shaped by natural and cultural processes. The rhythm of the landscape (Thayer, 1994) emerges from the continuum of processes that make up the perceived landscape (landscape structure) (Figure 2). The structure of an ecosystem (or landscape) is the physical expression of its organizational pattern. Process, on the other hand, includes all activities within the scope of the organization pattern (Capra, 1996).



**Figure 1.** The meaning of landscape for the landscape architects and the other disciplines.

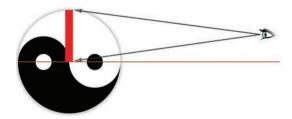


Figure 2. Harmony of the landscape.

Thayer (1994) defines the perceived landscape as "surface values" and the processes on which this landscape depends as "core value". When these two are in harmony, the system is in balance.

- 3. Change: Landscapes are changing constantly. The environmental conditions that exist today are the result of events from the past. It is important to realize that landscape change can take place over a long period of time, which cannot be expressed in the lifetime of a human being, and that there are conditions in which this change can occur immediately.
- 4. Scale and hierarchy: Landscape hierarchically covers local, regional, national and global scales. This hierarchy is significant in terms of landscape characters and its dynamics. For example, while a species tends to decline in a local scale study, the opposite may be the case in a higher scale assessment covering the same area. Or, while resources are recorded as being in good condition at the local scale in terms of water reserves, when evaluated at a higher scale within the scope of the mechanisms that make up that landscape, it may be understood that the supply of the same water resources is at risk.
- 5. Interaction: The interaction between landscape components determines the mechanisms that shape that landscape. For example, two areas with the same degree of soil erosion in existing national data records may have very different values and importance due to the interaction among their landscape components and processes such as vegetation quality, biomass process, hydrogeological landscape structure, slope-related water movements (natural drainage pattern), etc.
- **6.** Authenticity: Each landscape is different from each other in terms of its constituent elements and processes. Although there are spatial repetitions of different landscape types (valleys, waterfalls, wetlands, etc.) in an area,

the landscape that emerges as a result of the interaction of its elements is unique to its location.

7. Boundaries and multilayeredness: At each stage of the spatial hierarchy, the landscape has different spatial boundaries in terms of structure, function and change characteristics, and thus has a multilayered structure. For example, while the watershed boundary should be considered in defining the landscape within the scope of water process, it may be necessary to work in different spatial boundaries in analyzing habitat value, biomass process, biodiversity, visual quality, cultural landscape value, etc."

#### 3. Ecological Planning and Landscape Planning Nexus

Landscape is shaped by the composition of its constituent elements and the processes driven by the mutual interaction of these elements. A change in a single element can change the entire landscape. Landscape is a concept that can be understood with a holistic approach. In contrast to the totalistic approach, the holistic approach argues that the existing structure cannot be understood completely by analyzing individual elements and therefore suggests that systems should be analyzed as a whole. In this context, each element should be considered within the framework of its interaction with other elements within the whole in landscape assessments. In other words, in order to define a landscape, it is necessary to express each of its constituent elements in the context of the whole (Şahin et al., 2013).

Human influence in shaping a landscape is undeniable. Therefore, the landscape ecologist is not only interested in natural processes, but also in cultural landscapes, in other words, in human communities and their

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habitats. From this perspective, ecological planning and landscape planning can be considered equivalent concepts.

In order to understand human interaction with nature, or to understand societies, cultures, and settlements, it is first necessary to understand nature. For this, it is misleading to look at its constituent parts in the conventional way. It is essential to analyze and understand the interaction between these constituent parts. At this point, the most critical question is how humans, who tend to look at nature in a fragmentary way, can analyze these interactions in the whole. Aldo Leopold, considered the father of deep ecology, emphasized the need to "think like a mountain" to understand nature (Türksoy, 2001). To think like a mountain is to put oneself in its place. On the other hand, such empathy will not be enough; one will also need to question his/her own decisions through the eyes of the object in question. Ecological thinking is a field of mental activity that explores the nature-human interaction on such a ground.

For many years, the emphasis on landscape as a criterion in land use planning and management has been on landscape valuation, which makes one area more valuable than another within the framework of land use decisions. Landscape assessment, on the other hand, emerged after the 1980s as a tool that includes landscape character classification and definition, which differentiates one area from another. The end product of landscape classification (or characterization) is a judgement-independent map of landscape character types and/or areas, together with an analysis of the most important key processes that shape that character. The process also identifies forces of change, such as land use changes and pressures

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from development types. The main products of the landscape character judgment phase are the development of landscape strategies, the assignment of a status to landscapes, guidelines for landscape capacity assessment and, as a final product, the landscape plan (Şahin et al., 2013).

#### 3. A Brief History

The history of ecological planning can be found in the literature of the West which is the developing face of the post-industrial world. There is a certain need for further clarification on the place of nature, especially in the context of archaeological periods and the dynamics of planned urbanization in the post-industrial era of the eastern part of the world. The first half of the 1960s was the time when environmental problems began to crystallize in the developed West. This was followed by national and international legal sanctions for environmental control, sensitive to the limits of intervention in nature. At the same time, ecological discourse and ecological planning began to take their place in practice. Of course, scientific studies on ecological planning go back much further. In this context, Ian Lennox McHarg (1920-2001) is perhaps the most famous landscape planner who left his mark on history with his book "Design with Nature" published in 1969. Of course, many others have played a role in the development of the systematic and inclusive ecological planning approach that McHarg (1969) put forward. McHarg was brought to the University of Pennsylvania in 1954 by Dean Prof. G. Holmes Perkins to re-establish the Department of Landscape Architecture (Steiner, 2004). Later, Prof. Holmes, an architect and planner educated at Harvard University, came to Ankara in 1955 with the support of the UN Technical

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Assistance Unit. During his one-year stay in Türkiye, Prof. Holmes conducted studies that would form the basis for the establishment of the Faculty of Architecture at the Middle East Technical University in Ankara. In the comprehensive report prepared by Prof. Holmes, the most noteworthy issue is his suggestion that building architecture, urbanism and landscape architecture programs should be included together and within the scope of joint education within the Faculty of Architecture (Yorgancıoğlu, 2010). However, only building architecture and urbanism departments were established in Middle East technical University. Perhaps this decision is one of the reasons why landscape architecture, and therefore ecological planning, is not included in spatial planning processes in Türkiye as defined in this study. Moreover, Prof. Holmes was an academic who realized the joint education of these three disciplines during his tenure at Harvard University, then University of Pennsylvania, School of Fine Arts (Yorgancıoğlu, 2010). Harvard University, as the school where McHarg graduated in 1949 (Whitaker and Steiner, 2019) and where the first landscape architecture courses were given by Frederick Olmsted Jr. at the beginning of 1900s (Bayındır Eren, 2014), is one of the universities in the world that has developed the most concepts in ecological planning in the historical process.

McHarg, together with Lewis Mumford, changed the understanding of regional planning in the USA and defined landscape planning as a preaction field of the spatial planning process. It is exciting to notice the traces of the influences of Patrick Geddes (1854-1932), the first person in Europe to call himself a landscape architect, and his thoughts on nature and culture

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on the young Mumford and then McHarg. Cohen (2019), in his book of "Ecohumanism and the Ecological Culture", explains how ecology changed the modernist approach and the contributions of Olmstead, Ebenezer Howard, Geddes, Mumford, MacKaye, Glikson and McHarg on that, respectively and interactively. Cohen (2019) reports that McHarg developed his ecological planning approach between 1930 and 1950. This discourse is already evident in McHarg's biography written during his lifetime (McHarg, 1996) and the subsequent updates of this biography by Frederick Steiner (2019), a member of McHarg's school. McHarg proposed an ecology-based method for landscape architecture and interpreted nature as an interactive process that reveals opportunities and limitations for human use. (McHarg, 1967). Ecological planning becomes a tool for uncovering "interacting and dynamic natural systems that have inherent possibilities and constraints for human use" under what McHarg defines as ecological determinism. In his famous book "Design with Nature" published in 1969, McHarg argues that 'understanding natural process is central to all environmental issues and should be incorporated into all considerations of land use" (Misra, 2022). McHarg's book "Design with Nature", which celebrated its 50th anniversary in 2019, deserves high praise. It is a book that is also the main source of inspiration for the academic life of the author of this Section. It can be stated that McHarg included ecological processes in his spatial planning works within the scope of the ecosystem inventory, which he analyzed according to the cause-and-effect relationship, and also four main values attributes to natural processes listed below (Belknap and Furtado, 1967).

- Attributes or properties inherent to a landscape. Areas of wilderness, scenic beauty, scientific value, and educational value would be included.
- 2. Landscape productivity, which would include agriculture, forestry, extractive minerals and recreation.
- 3. Contribution to the continuity of ecological balance, which might include water storage and drought, and erosion control.
- 4. Potential damages (negative value) as a result of natural processes or improper use of resources.

During the years when McHarg was developing his ecological planning approach, Prof. Philip H. Lewis Jr. in the State of Wisconsin, USA, focused on landscape pattern/structural character and defined landscape connectivity with the concept of "Environmental Corridor" (Belknap and Furtado, 1967). Philip H. Lewis Jr. received a bachelor's degree in landscape architecture in 1950 from the University of Illinois (Wisconsin State Journal, 2017), then earned a master's degree in landscape architecture from Harvard Graduate School of Design (JSTOR, 1953). His approach was reflected and implemented in Wisconsin State laws in USA. Before Lewis, in the first half of the 1900s, landscape connectivity was reflected in Olmsted's Park System concept, which found widespread application in the USA. In both approaches, landscape connectivity is planned in terms of perceptible structural features. Today, this connectivity can also be expressed in different terms. Ecological and landscape planning point of view, the ideal is to establish connectivity based on

character-function/pattern-process approach (Şahin et al., 2014; Doğan, 2012).

In addition to McHarg and Lewis, in Canada Angus G. Hills developed an ecological planning process for the land use capacity and suitability of ecological units (Belknap and Furtado, 1967) in 1961 and 1974 (Ndubusi, 2002). The approach, also known as the "Hills Ecosystem/Physiographic Unit Classification", was applied in Canada. Hills' classification involves identifying top-down ecological/physiographic units at different scales and hierarchical structures and developing land use suitability decisions based on the smallest ecological units. Then, these land use decisions are carried to upper scales of sub-regional and regional by reclassifying and reunifying the ecological units. This type of land classification content can be compared with the nowadays terms of landscape character areas and landscape types present in the European discourse and in Turkey following the Council of Europe Landscape Convention in 2000.

A landscape planning process based on also ecological units, however integrated with ecological processes and was developed by Buchwald (1964, 1966, 1973) and his colleagues, as reported by Köseoğlu (1975, 1982), in central Europe, at the Institute for Landscape Planning and Nature Conservation at the Technical University of Hannover parallel to the historical development of ecological planning approaches in the USA and Canada.

As a final remark, it may be remarked that there is a certain need for studies that will reveal the interaction between above mentioned developments in ecological and landscape planning in the western world. All ecological

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approaches in history which were pointed out in this study have, of course, differences in terms of planning methodology. Among the pioneering studies, the most prominent emphasis and scope on ecological processes (landscape functions) was put forward by McHarg. On the other hand, following the pioneers, Bastian's (1998, 2000) work in Germany is a response to the weakness in the landscape function focus. However, there is a need for research on the extent to which this approach has been implemented in practice.

#### 3.1. Advancements in Türkiye

At the first place, it would not be wrong to state that the ecological approach, which is addressed in this article within the scope of spatial planning processes and legislation in our country has still not taken its place in practice despite the exciting developments in recent years, until today, in the first quarter of the 21st century. The McHarg approach, which was first developed in the world between 1930-1950 based on ecological processes has been defined by many planners only by means of overlapping method and the approach has not been fully implemented. Within the scope of scientific studies, the system approach, which McHarg, a landscape architect, defined as an ecological process and which would reveal the interactions of landscape elements with each other, did not take place properly until the second half of the 1990s. Scientific researches were mostly limited to the analysis and evaluation of system elements, or ecological functions were considered as values that limit or enable use, and the intrinsic value of nature was ignored. Therefore, ecology has been analyzed with a human-centered and fragmented

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approach. Capra (1996) described the inadequacy of the fragmentary approach in analyzing the system by stating that "the systems engineer must be able to predict the emergent properties of the system, which are properties that the system has but the parts do not". In this context, it can be stated that the ecological approach involves the expression of each landscape element in the context of the whole, in other words, the examination of the interaction between elements. Capra (1996) reports that while such a systems analysis approach, also referred to as strategic thinking, had a significant impact on management and engineering in the 1950s and 60s, its impact on biology, on the contrary, was almost neglected (until 1996, when his book "The Web of Life" was published). Perhaps this may be one of the reasons for the delay in reflecting the ecological approach or thinking, including biological processes, in planning processes. Considering that the ecological planning approach mentioned in this study is based on landscape ecology, starting from the year of 1968, when landscape architecture education formed at Ankara University in Türkiye, to 1980 can be considered as the period when the academic infrastructure on ecological planning was developed. Around this period of time, Prof. Dr. Mehmet Köseoğlu, Prof. Dr. Türker Altan, Prof. Dr. İlçin Aslanboğa and Prof. Dr. Hayran Çelem, who did their PhD studies at the Institute of Landscape Planning and Nature Conservation at the Technical University of Hannover in Germany and brought the German school of ecological planning to Türkiye. Prof. Dr. Günel Akdoğan, whose research on landscape planning was published in 1967, as well as İsmet Gürses and İsmet Olcay can be mentioned among

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pioneering people on ecological planning. However, the need for more detailed studies on the antecedents of ecological planning in the academic sense in Türkiye is clear. Young Dr. Hayran Çelem as research assistant at the Department of Landscape Architecture, who had a PhD in the above mentioned German school in 1975, helped to translate German sources on landscape ecology into Turkish. At the same Department, landscape ecology and rural planning courses were continued by Prof. Dr. Nizamettin Koc who had conducted post-doctoral research at the Institute of Landscape Planning and Nature Conservation at the Technical University of Hannover in Germany too between 1969-1970, transferred his knowledge of landscape ecology to the ecological planning approach in his textbook on rural landscape planning (Koç, 1972; Koç and Şahin, 1999). The ecological planning approach explained in Koç's book, according to Köseoğlu, was developed by Buchwald (1964, 1966, 1969) together with other faculty members, research assistants and students at the Technical University of Hannover. This approach is based on the identification of ecological units (now called landscape units in landscape planning) and the possibilities and constraints they present for human uses within the context of their natural potential and resilience. While developing appropriate uses for ecological units, it is aimed to protect the natural ecological latent capacity of the planning area and the ecosystem. The criticism that can be made for this method within the scope of ecological planning is its human-oriented planning process. However, it seems that this method has been the basis for the development of ecological planning by the first generation of academic environment in

Türkiye. On the other hand, at the end of the 1970s, the Ian Lennox McHarg ecological planning school was introduced at Ankara University by Prof. Dr. Nur Sözen's. So that, McHarg school began to shape ecological planning alongside the Buchwald (German) school. It should also be noted that, in Prof. Koç's lecture notes, landscape ecology is defined as "an interdisciplinary branch of science that studies and investigates the structure and function of ecosystems or a specific part of an ecosystem from a geographical and ecological point of view". The understanding based on this definition can be counted among the factors that facilitate the inclusion of studies based on landscape function as well as landscape structure in ecological planning in Türkiye.

Until the first half of the 1990s, it is possible to categorize the methods developed and applied in Türkiye for the use, development, and protection of natural resources under two main topics (adapted from Şahin 1996).

1. Use Suitability Analysis: It is based on the determination of the importance of each environmental element in terms of each land use type, and relative scoring the environmental factor's sub-components in terms of their suitability for different land use types. Although the degree of importance of environmental factors in terms of land use categories was taken into consideration, the interaction among the factors was ignored in the practices in Türkiye. Most importantly, key ecological processes (water cycle, matter-energy flow, etc.) were not considered for the sustainability of the natural system. As such, it can be stated that the method was applied with a human-oriented approach in Türkiye and was therefore not ecological.

2. Risk Analysis: It is based on the determination of risk levels according to the severity of the impact of land uses on environment and the sensitivity of the environment to the land uses. The method was predominantly used for the studies to determine the risks arising from existing land uses. It can be stated that the biotope mapping technique, which reveals the structure of the landscape, was predominantly used in the method, but key ecological processes were neglected in the applications.

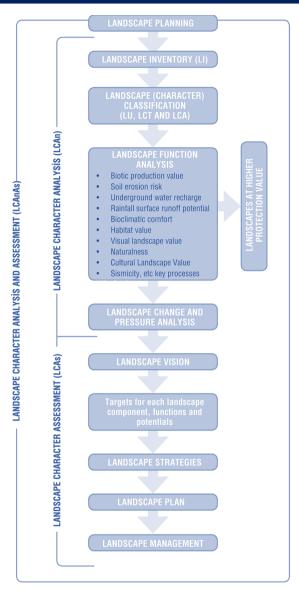
Şahin (1996) developed "Strategic Planning Approach and Holistic Landscape Assessment Method" in her PhD thesis entitled "A Research on Determination and Assessment of Landscape Potential of Dikmen Valley" under the supervision of Prof. Dr. Yalçın Memlük, which made McHarg's ecological planning approach more understandable in Türkiye. The study, conducted at Ankara University, was the first scientific study in which ecological processes can be included in spatial planning. It is also worth to mention here that Prof. Memlük, who was acquainted with the German school at Hannover University, produced information in his doctoral study on the subject that attracts attention as landscape metrics in scientific circles today is a pioneering step too for Türkiye.

Şahin (1996), in her PhD thesis study, presented a method on how ecological processes can be assessed in the spatial planning process, on the basis of the Ian McHarg school and the landscape structure-function-change approach defined by Forman and Godron (1986) (Şahin, 2001). In the following years, especially after Türkiye signed the Council of Europe Landscape Convention and enacted it into law, landscape planning gained

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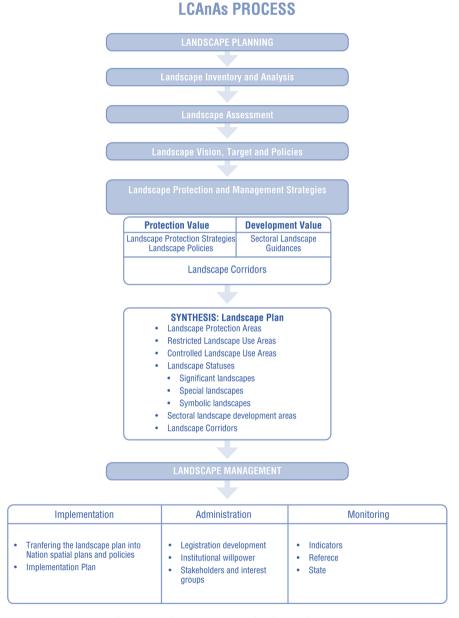
some institutional strength, and the studies of Uzun et al. (2010) and Şahin et al. (2014) based on landscape structure-function-change gave a new direction and momentum to ecological planning. Sahin et al.'s (2014) work entitled "National Technical Guideline for Landscape Character Analysis and Assessment at Regional and Subregional Scale", which is the final output of a project period of 8 years in total from project preparation to the final report, a landscape planning (landscape character analysis and assessment) process was developed (Figure 3a,b). Sahin and Kurum's (2002) concept of "landscapes with higher (protection) value" based on integrated landscape function values was reflected into the process. In Türkiye, the ecological planning approach based on the landscape function and function-based change is being studied in the scientific environment within the scope of landscape planning, especially after second half of 2010. The studies conducted by Yenil (2010), Corbacı (2014), Uzun et al. (2015), Demir and Demirel (2016, 2018), Güneş (2017), Doğan (2017), Alparslan (2017), Aysu (2018) and Yılmaz (2021) can be named among the main ones, although not limited to the given list.

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**Figure 3a.** Landscape Character Analysis and Assessment (LCAnAs) (Şahin et al. 2014).

LC: Landscape Units, LCT: Landscape Character Types, LCA: Landscape Character Areass



**Figure 3b.** Landscape Character Analysis and Assessment (LCAnAs) (Şahin et al. 2014).

#### 4. Conclusion and Suggestions

Ecological planning is an approach that mainly refers to the natural landscape characteristics of the area being studied in the spatial planning process. Landscape planning is a field of action that is based on primarily landscape ecology science and the analysis of the mechanisms that shape the landscape. In this approach, biotic and abiotic elements are analyzed in the context of the structure, function and change of the landscape. It can be predicted that landscape modelling studies based on landscape structure-function-change analysis in an holistic way, will take place more in ecological planning in parallel with scientific and technological advances in the future.

While modernism tended to dominate nature, the classical economic views that developed during this period treated nature with a utilitarian approach. Today, a fundamental change in the understanding of planning and design is required. The essence of this change in terms of ecological concerns is to perceive that nature has an intrinsic value. The reflection of this perception into planning and design creates a field of action that considers ecological values, components, and processes holistically in temporal and spatial dimensions (Şahin 2003). Holism is essential in nature. It is about understanding the interactions within the whole rather than understanding the individual parts and ongoing events in nature.

The isolation of an area, whether rural or urban, from the surrounding systems in the whole ecosystem does not create ecologically sustainable systems. The ecological approach in land use land use decisions is now a generally accepted practice. The basis of the ecological approach in

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planning is the developments and transformations that emerged in the 1960s, which brought to the agenda the concepts of "environmental concern" until the 1980s and "quality of life", "sustainability" and finally "landscape character" after 1980.

Ecological planning or landscape planning approaches, which comprehensively came to the agenda with McHarg's famous book "Design with Nature", have undoubtedly emerged as a result of direct or indirect interactions with each other in the historical progress. In this progress, of course, many names other than those mentioned in this Section have contributed. Undoubtedly, a systematically structured and comprehensive chronological study on the historical development of ecological planning would be beneficial.

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This e-book chapter complies with national and international research and publication ethics. Ethics Committee approval was not required for the study.

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The author contributed fully to the article. There is no conflict of interest.

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**CHAPTER-4** 

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#### **Architectural Sciences and Ecological Approaches**

#### **CHAPTER-4**

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iKSAD Yayınevi tarafından e-kitap olarak		published as e-books by International <b>iKSAD</b>
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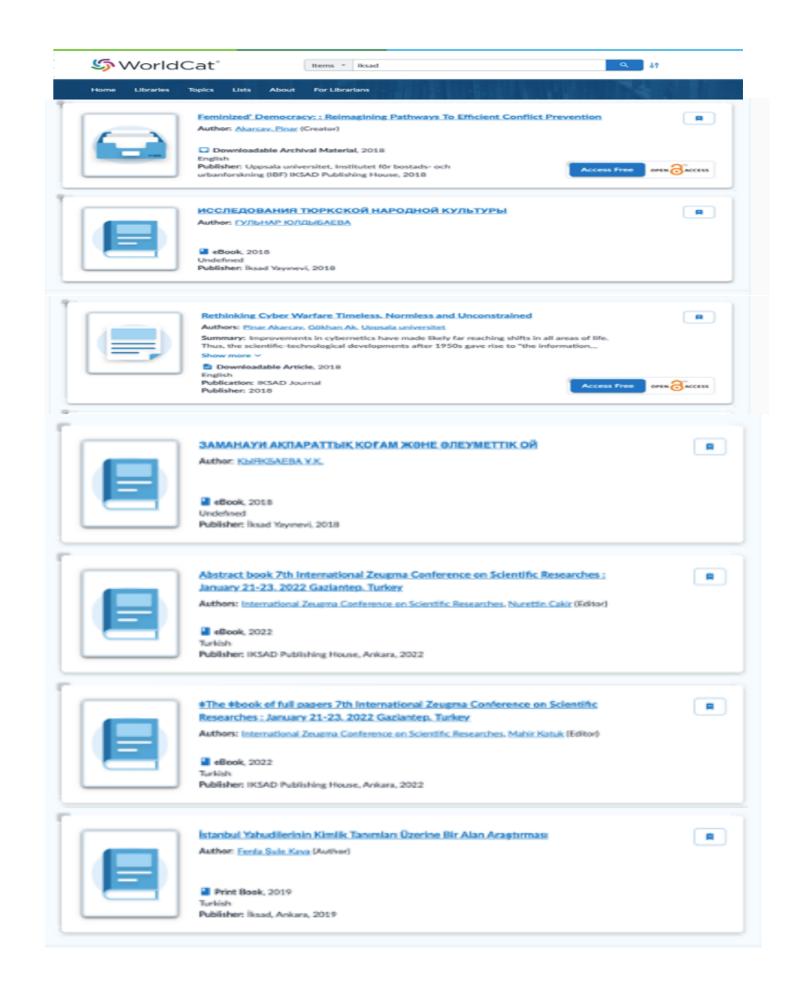
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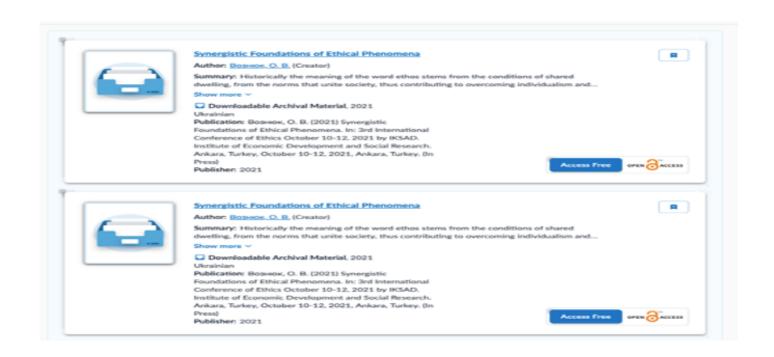
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