Quality in Architecture - A Disputed Concept

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ABSTRACT: The overall aim of this article is to clarify the concept of quality in architecture and urban design. Quality in design is connected to a set of values. The fact that the perception of quality connotes values, varies with time and is different among individuals does not free professional judges from taking a stand on essential quality questions. Therefore quality in architecture and urban design appears to be a fundamentally arguable concept that is subject to a wide range of interpretations. The hypothesis is that quality in architecture and urban design should be understood as an open and debatable key concept resulting in disagreement and discussion. New cases of quality arise continuously. The concept itself is value-laden and quality is interpreted with support of value charged criteria. Quality is something positive which meets with public approval. This type of knowledge is obtained by having good examples and interesting cases pointed out. The target is high quality. A special historical understanding is needed to reach this goal. The concept of quality even reflects the holistic approach of the architectural profession to design projects. The built environment is of public interest. Thus there are different interpretations of the meaning of the concept quality, its scope and status.

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INTRODUCTION

“Objective elements shouldn't be relied on initially. Instead 'go for quality first' he said and meant that quality judgments were preferable” (Hemlin et al, 1990, p 59). That statement made by an expert when appointing a professor of architecture hits the nail on the head: what is quality in architecture and urban design? What do architects mean when they talk about quality? How do they understand architectural quality?

In this paper I will discuss and clarify the concept of quality. The purpose is to demonstrate and explain how the questions of quality in architecture and urban design can be understood from a European point of view. Architecture is a field of knowledge embedded with values. Quality represents something good, a well-designed object. But what does it mean? The theory is that architectural quality as a key concept is basically disputable; this shows up in the design and appraisal of architecture and urban design projects as well as when the built environment is evaluated.

The Swedish National Encyclopaedia gives several different examples of this concept. This can be used as a starting point. Quality can, firstly, be seen as a set of good attributes. Object O can be described as attractive: “O is of good quality”, “O has several good characteristics” or “O has a high and even quality”. Quality may also have negative implications: “O is of poor quality” or “O unfortunately has many shortcomings”. A comparison may reveal that object O 1 is worth more than object O 2. These examples have in common that quality is a concept related to evaluation
that can be open or hidden in a message. Quality is a trait that either is good, bad or missing. In this case we want to be able to judge the worth of products and services.

Secondly, quality can be related to personal capacities, knowledge or inner characteristics of specific individuals. A person $P$ may be described as being quality-conscious or well informed about quality questions. Examples of such descriptions are “$P$ is an excellent artistic leader”, “$P$ is a skilled architect with exceptional feelings for using concrete material” or “$P$ is an exciting architect who has been winning several international design competitions.” Quality in this sense has an evaluation aspect. It is a sign of competence based on an ability to judge aesthetic dimensions. Good judgment in quality questions results in confidence.

Thirdly, quality can be understood as a specific relationship to a place. It is typical for architecture and urban design. In this case quality is attributed to projects that represent a whole and fit into a unique context. This perspective is found in architectural policy programs in Europe. The Danish Architecture policy, A Nation of Architecture Denmark, from 2007 is an illustrative example. According to the policy program, there is a "widespread agreement that architectural quality is experienced when form, function and building techniques are brought together and implemented in a complete, artistic idea. Architecture of high quality relates to the surroundings as a co-player or as a challenger. The architecture stresses, strengthens and interprets the cultural character and uniqueness of the surroundings." (p 9). From this point of view, there are no general answers to architectural quality issues. Places always have unique characteristics. For this reason, quality must be design based on the understanding of the existing architectural qualities of the plot, surrounding buildings and the location.

Fourthly, quality can refer to a certain type of material or technological production of a product. Perhaps as a customer I want to know how the quality was determined, what material was used or which performances the technical solutions should meet. The answer from the salesperson, supplier and manufacturer could very well be “product $P$ is a quality product which has received quality award $Q$”. That means that $P$ has been approved after testing according to a number of quality requirements. We get a quality concept that is specified with the help of measurable parameters. The point of departure is the idea of quality as something which can be assured by specific procedures; quality work, quality controls and quality management. Right quality is defined as zero defects. But it is not enough just to deliver the ordered products to generate a positive experience of quality. More is required if you want good quality. The design has to be connected to positive experiences and seen as valuable in the environment. Instead of looking for defects in products the design phase becomes a strategic phase in the production process.

The four statements link architectural quality to values, knowledge, places and quality assurance procedures. Quality is therefore understood from different perspectives. At the same time there is a common goal saying that architecture should be both enjoyed and suit its purpose. Since architecture has use as its goal it combines artistic ambitions and intentions with requirements for functions, method, material and economic solutions. The concept has both aesthetic and technical dimensions. The quality concept may be compared with soap in the bath water. When we try to establish what architectural quality is, clarity slips between our fingers. Good solutions to design problems are visible, can be experienced and can be pointed out. But they are very hard to grasp. There is something that escapes, is ambiguous, in the phenomenon and usage of the concept. Fault free and correctly dimensioned plans do not guarantee that a structure results in a positive quality experience. A well proofread manuscript free of typographical
errors does not necessarily communicate an interesting message to the reader. Quality has to be more than zero defects. Absent friends do not promote good feelings. We need a generator. There must be an enhanced value for the object, an addition to the environment that communicates a feeling of quality to the user. This points back to the very heart of the concept of quality in architecture and urban design.

Key ideas

This paper is about how we can understand quality as a key-concept in architecture and urban design in a fruitful way. The methods are “close” reading of documents (architectural policy programs, competition documents and referral opinions regarding changes in building legislation), conceptual analysis and re-use of interviews carried out 2005-2007. 18 experienced jury members, architects and urban planners, from Finland, Norway, Denmark and Sweden were interviewed in a Nordic study on contemporary architectural competition (Rönn, 2010). The theoretical framework for the investigation consists of Gallie’s idea of “essentially contested concepts”, which he published in 1956 in The Proceedings of the Aristotelian Society and in 1964 in the book Philosophy and the Historical Understanding. Gallie provides a tool for the analyses of quality and how this concept is used in the building sector.

My reason for re-using interviews and documents in the investigation is the belief that praxis reveals how professional practitioners speak, think and act in quality issues. In architectural and urban design quality concepts are communicated through drawings, sketches, illustrations, photomontages, plans, and descriptive texts. Quality is a dynamic concept, changing as new models are introduced, established and scrutinized. There are also many answers to the question of quality in architecture and urban design. But even if quality is difficult to grasp, there are a number of fundamental criteria from which to start. These criteria are about how design ideas are expressed and how they influence the public, users, clients or citizens. Architects and urban planners use criteria to identify, interpret experience, understand and judge signs of quality in the design field. Prize-winning architecture and urban design are all based on this assumption. The premises is that quality is a concept which can be judged in society; there are undertakings, structures and environments created to be attractive, arouse interest and be of value in some way.

Throughout Western history, starting with philosophers in ancient Greece, quality is perceived as a conflict between an objective and a subjective position; as a relationship between objects and how we perceive them through our senses. The objective position can be seen as speaking of qualities and means an impartial judgment devoid of self-interest. But that is not the same as saying that quality is found in the objects and their designs. The demand for objectivity only means that the quality assessment shall be based on facts and without bias. Objectivity in this case is an expression of honesty and the pursuit of truth on behalf of the judge. It should also be possible to control objective quality assessment in an acceptable way. But objectivity is not something that is either present or missing in an assessment; it is a scientific standard. It is a norm met to varying degrees when discussing quality in artistic undertakings, architectural works and designed environments.

A subjective position need not be problematic as long as the departure point is a personal meeting. Credibility in such quality assessments can be sought with the person who passes judgment and how it is justified. The subjective position is an aesthetic choice and is justified through learning and knowledge. The more educated the assessor is the more credibility is given to the subjective quality experiences. We trust the assessments of well-educated and
experienced persons with good judgment. Quality as an experience requires an individual encounter with the undertakings and works; that a relationship is established which influences people. There are even some collective traits in people’s quality experience related to their cultural backgrounds and professional practice.

Thus far linguistic usage doesn't present any great difficulties. Architectural quality is about distinguishing, describing, interpreting, understanding and explaining to the people around you what is good, better or poor in undertakings and structures. It sounds like a reasonable programme. The problem arises when we want to deepen the discussion in order to understand quality as a key-concept. Then the answer is no longer so obvious. To identify quality in product design, architecture and urban design in a meaningful way we need to choose a point of departure for the questions. Gallie offers a starting point for the discussion, a theoretical framework that gives meaning to quality conflicts in the building sector. We can learn about these differences by investigating how designers, architects and urban planners express quality. Which qualities can be demonstrated in artistic undertakings, architectural works and urban environments? How can the qualities in the environment be made accessible for credible assessments? To what extent may we trust quality evaluations? These crucial questions force us back to the starting point: how can quality be understood in architecture and urban design in a meaningful way?

**AN ESSENTIALLY CONTESTED KEY CONCEPT**

Architectural quality appears to be a basically contestable key concept with a wide range of interpretations in architecture and urban design. These thoughts were launched by Gallie (1956) and later by Janek (1991). Gallie was a British social theorist, political theorist and philosopher. He was a professor at three different universities. It was Gallie who first coined the expression “essentially contested concepts”. This is a concept that leads to endless disputes about the correct meaning of the notion. Linguistic usage has both aggressive and defensive traits. Such is the case with debates about art, democracy and championship. Gallie uses championship as an enlightening example. In the world of sports, championship is considered to be something appreciated and valuable, a winning concept. The concept changes meaning according to the circumstances. Championship is not only about being best on the field. A champion should also fight well and win the public's heart.

Gallie’s description of an essentially contested concept fits quality well. In architecture and urban design, quality appears as a contested concept. The building sector is composed of professionals with different opinions about what quality is and how the concept should be understood. Architects use three types of rhetoric when describing quality: an offensive (aggressive) usage which attempts to create interpretation advantages. Architects usually claim they are best at designing and judging quality in architecture and the built environment. There is a defensive rhetoric. Architectural quality in society is seen as an overall intention, which the profession guards by means of general language. The defenders try to coordinate the different interested parties with a common ambition. High quality is the requirement. The rhetoric is also used to disarm potential opponents. This is the third type. Few would like to deny the need for a good built environment. It is the positive value implications in the concept that give quality its unifying function. Thus, for example, architectural quality has been used as a common goal for the Danish architectural policy programme (Nygaard, 2006).

When architectural quality is considered as an essentially contested concept eight rhetorical functions appear. These
designs are evident in linguistic usage, both in the interpretation of design projects, in a firm's internal policy document and in the European architectural policy programme, which can be found on the homepage of the European Forum for Architectural Policies (www.efap-fepa.eu/indexb.php?lg=en). A close study of policy programs in northern Europe shows how quality is understood in architecture and urban design. Here I would like to point out eight specific functions connected to quality as a key concept with support of Gallie:

**An open concept**
Architectural quality is an open concept built on knowledge. To know what architectural quality is means that one can recognize, explain and account for illustrative examples. Knowledge about quality is obtained through education, professional practice and research. New examples of quality arise continuously in architecture and urban design. Changes create the need for revising, reinterpreting and specifying the contents of the quality concept. There is no final definition of what characterizes good solutions for design problems in architecture and urban design. The concept becomes meaningful through continuous dialogue. Communication is a prerequisite for architectural quality to continue to be a knowledge-based key concept, both for the profession and societal debate.

Architectural quality as an open concept creates uncertainty. In architectural competitions for example the jury must be able to read and interpret drawings, drafts, illustrations and scale models. The challenge lies in understanding the competition’s task and the design problems. Qualities in the design solutions become wicked problems (Churchman, 1967, Rittel & Webber, 1973). Wicked problems cannot be solved by traditional analyses. It is impossible to objectively evaluate the solution as being right or wrong. Churchman (1967) describes wicked problems in a social planning context as ill-defined problems that have unique causes, nature and solutions.

Design as a professional practice is embedded with wicked problems. The judgment is based on an open concept. You cannot define and understand design problems out of their specific context. The solution and the problem are connected to each other in architecture and urban design. This point is demonstrated by Cross (1992) when he is quoting an architect who says:"I don’t think you can design anything just by absorbing information and then hoping to synthesise it into a solution. What you need to know about the problem only becomes apparent as you’re trying to solve it" (p 20). Typical for architecture and urban design is also that there are always many good solutions to the same design problem. One solution is, generally, never overwhelmingly better than another in competitions. This is a wicked problem from the jury’s perspective in competitions. Since there are several good solutions to choose from, the jury’s quality judgment will be marked by insecurity, a fundamental doubt that normally remains up until the final assessment. This uncertainty is typical among the jury members in architectural competitions where you have to find a winner and it is a consequence of quality as an open concept.

**Promoting debates**
Architectural quality is a concept that promotes debate. There are basic discrepancies in the different views of quality. The concept is controversial. Disagreement is a driving force. The breadth of the linguistic usage reflects the different attitudes toward what quality is, how quality work should be carried out and how quality goals should be expressed in the design of architectural and town building projects. At the bottom of the disagreement lies the desire to steer the agenda in order to acquire interpretation seniority, status in society and assignments. Architects maintain that they are best qualified to judge architectural quality thanks to their education and professional experience. Since there is
no single way to solve conceptual differences the debate can continue forever. At the same time there is a need for common understanding within the professional building sector. Building is a collective process accomplished by many professional groups. Shortcomings in quality must be avoided during all phases. With this in mind a debate about quality is used to clarify the concept and help define appropriate criteria for the design and assessment of projects.

In the building sector the discussion on quality has an aesthetic dimension and a technical dimension. This is a typical foundation for disagreements between architects and engineers at construction companies, at least in Nordic countries. The aesthetic dimension of quality in architecture and urban design is a question of experience and evaluation. The technical dimension of quality concerns traits in products that can be controlled during the production process. These two aspects are very difficult to unite in a quality concept. There is disagreement as to what architectural quality is, how appealing environments can be created, and how they should be assessed. I think we have to accept the fact that there are different ways to understand the concept of quality. They represent different kinds of knowledge. Both the aesthetic dimension and a technical dimension are therefore legitimate in architectural design and construction. Based on this insight we should build "conceptual bridges" to ensure better understanding between the key players in the building sector.

The aesthetic dimension dominated the debate in Denmark during the 1990s. The architectural community launched architectural quality as an offensive and future-oriented solution to the problem of quality shortcomings in building (Nygaard, 2006; Christofersen, 2007). Architectural quality was a goal that had a significant impact thanks to its positive force and ability to define a common direction for architectural policy. The aesthetic dimension in the concept received status and was included in the policy programmes in Denmark (1994 in Danish Architecture, in Architecture 1996 and 2007 in Nation of Architecture Denmark). In Swedish discourse shortcomings in building were seen primarily as technical problems. It was expected that promoters and building firms provide the solutions. In 1994, requirements for quality responsibility were incorporated into the planning and building laws. Shortcomings in quality were redressed through measurable requirements, internal controls, and certificates. The reforms stemmed from a technically oriented concept. The aesthetic aspects of the quality concept were highlighted later on in the Swedish debate. That was in 1997 when the government proposed a national policy for architecture and design called Forms for the future (Framtidsformer).

**Charged with values**

Architectural quality is a concept charged with values. “This is quality” is a judgment expressed in a complimentary way. The concept infers valuation. Quality is seen as something basically positive, even if often expressed in terms of good/bad and beautiful/unattractive. Such values express either approval or dislike. Quality is then bound to values, which in a decisive way stray from the normalized quality concept incorporated into the ISO 9000 (standard). Quality in this technical perspective is seen as general characteristics, function and performance. They are characteristics that can be measured, guaranteed and controlled (Nashed, 2005; Nelson, 2006). The record is the proof of quality. This is regarded as evidence for how a proposal meets the specifications. The strategy is fault minimization. In this case quality is an operative concept used for controlling, defining and measuring qualities in terms of right and wrong. The difference in viewpoint may be described as the right quality and good quality. They represent two diametrically opposed ways of relating to the quality concept in the building sector. The right quality means zero defects. Requirements have been implemented. The delivery corresponds to the quality specifications. A product of good
quality is accredited with positive worth and has a certain number of desirable characteristics for someone or something. Good quality assumes that the delivered product is experienced as attractive or appealing.

• Value-charged design criteria

Architectural quality is a concept that is interpreted with the help of value-charged design criteria. Architecture is judged from criteria which include opinions, values, ideals and impressions of desirable characteristics. Thus a building project may be evaluated externally using quality design criteria based on requirements for suitability to the surroundings, natural materials and a design that spreads joy to the users and visitors. According to Birgit Cold (1989), professor at the Department of Architecture at the Norwegian University of Science and Technology, quality is usually ascribed to beautiful buildings with well thought through functions. That is an example of value-charged criteria describing an architectural attitude that includes values such as wholeness, durability, adjustment to the surroundings, genuineness, aesthetic honesty, beauty, readability, usefulness and professionalism. News-worthiness and originality are criteria that encourage renewal of traditions and overstepping conventions and experience-based professional guidelines.

Another type of value-charged design criteria was found in a Nordic study of architectural competitions at the School of Architecture and the Built Environment in Stockholm 2005-2008. The evaluation criteria in briefs were examined during 1999-2000 (Rönn 2010). These criteria vary from competition to competition. But there was also a stable pattern, a number of design criteria, which appeared time and again in competitions and influenced the jury’s quality judgment on a deeper level. All competition entries, in principle, were judged by these design criteria even if they were not specifically outlined in the competition programme. The following design criteria were found in almost every competition brief and jury statement: Wholeness and fundamental idea; is there a powerful design idea in the project? Coherence and surroundings; how do the proposals fit the site? Entrance position; how has the competitor solved the entry into the area, site and buildings? Suitability and functional set up; how has the competitor solved the spatial organization in relation to the planned activities? Economical and technical solutions; How is the proposal technically produced? Development possibilities; To what extent can the proposal be further developed? These design criteria are part of an assessment based on dialogue and have two principal functions. They tell the jury members what is important to judge and how to proceed. The first step is to direct the juror’s attention. This is the “what”. The second step is a question and represents the “how”. The jury acquires knowledge by posing questions about the proposal. Quality in architecture and urban design is revealed by these design criteria, representing professional ideas about good design.

• Learning form

Architectural quality is part of a learning form related to design and critical review. Knowledge is developed and expressed by design and the assessment of solutions. This evaluation of architecture and urban design is not true or false. Architectural values cannot be controlled as being scientifically right or wrong. There is simply no empirical support for such conclusions. On the other hand, it is of course possible to formulate well-founded and plausible judgments about what is good for some (designers, clients, end-users) in a specific context. This is what the jury members do in architectural competitions when they select a single winner after examining the best design solutions. Competent assessors, with broad experience from similar cases, may examine quality in terms of goal fulfilment, efficiency, usefulness, technology, artistry and economy. The purpose is not to portray reality but to develop models,
concepts and criteria to facilitate the two main aspects of quality work: design and assessment. Quality is visualized and identified by seeing, comparing and interpreting. It is learning based on designated good examples, instructive cases, architectural reviews, critique and reflections about ideal solutions to design problems. Juries for architectural competitions use scale models in their final assessments when choosing a contest winner. Scale models are made of the best entries. These enable the jury to see with their own eyes how the solutions will suit the site. Such models also enable the jury to pose clear quality questions to the participants. It's learning by seeing quality rather than by looking at drawings and illustrations.

• The whole
Architectural quality is the combination of elements that form a whole. This is fundamental for the assessment of projects, especially in early stages. Quality in architecture and urban design is seen as a holistic idea among professionals. Here quality is viewed upon as an overlapping summary: a composite entity of aesthetic dimensions and technical aspects along with requirements for economy, environmental friendliness and social conditions. According to this view it is a combination of aesthetics, technology, economy and environment in a working entity that characterizes the quality concept in the field of design. It is typical for architectural practitioners in the Nordic countries. They understand the concept as a contradiction to the idea of quality as one of several limited aspects of design in architecture, urban design and town planning projects.

The idea of quality as an overlapping and composite entity is a consistent theme in the statement of the 1997 investigation Architectural Quality (Arkitektonisk kvalitet) from The National Board of Housing, Building and Planning (Boverket). The Swedish association for architect and engineering firms (arkitekt- och ingenjörsföretagen) states that architectural quality should include aesthetic, functional, technical and social qualities as well as environmental and economical considerations. The Swedish Local Council Organization (Svenska Kommunförbundet) maintains that good architecture can be recognized by the successful blending of aesthetic, functional, economic and technical requirements. The County Government Board (Länsstyrelsen) in Kalmar states that architectural quality is a concept that has a wider scope than just aesthetic design. According to The County Government Board, architectural quality also includes the building's design with regard to function, material, building technology and adaptation to the surroundings.

• A specialized way of using history
Architectural quality is part of a specialized way of using history in practice. Architectural history produces models for understanding design problems. Time does not move in only one direction. Architects are free to refer to timeless values in new assignments. There is a practical usefulness built into architectural history. Impressions of ageless values are characteristic of their times and solutions. Vitruvius, who was a Roman architect and builder, formulated a quality idea which is everlasting for the architectural profession. Vitruvius describes architecture as an indivisible combination of beauty (venustas), function (utilitas) and construction (firmitas). It is a 2000 year-old tradition that is still flourishing, a canon to posterity that architects continuously refer to in their profession. The quality of architecture lies in the special way the unit is composed with regard to aesthetic form, function and construction. This is a professional, cultural and historically defined way of understanding quality in architecture and urban design (Rönn, 2009).
The historically influenced idea of quality has a practical point of departure. History is a useful subject. The history of architecture is a heritage of many instructive examples. They may be used as reference points for new assignments and inspiration for solutions to design problems. Even quality concepts typical for certain times such as classicism, national romanticism, functionalism, modernism, brutalism, postmodernism, deconstructionism, and new functionalism contain timeless elements in new settings. The everlasting in design is the result of proportions, volume, scale, sight-line, balance, harmony, rhythm and movement. The notion reflects architecture’s Vitruvian relationship to fundamental quality questions. The relationships between forms, function, material and construction must be continuously worked on and critically examined.

• Interests and design power
Architectural quality is an idea linked to interests in society and design power in the building sector. Power is portrayed through architecture. Quality is produced by actors with different ideas about the notion’s content, scope and status. A balance between private and public interests in planning and building laws is part of the balance of design power in society. This balance influences the reach and direction of quality work in architecture and urban design projects. Official statements about proposed changes in legislation are enlightening. Viewpoints concerning the 1997 investigation of architectural quality from The National Board of Housing, Building and Planning are informative. Several Swedish authorities, including the Gothenburg Town Planning Office (Byggnadsnämnden i Göteborg), wanted to see the law changed so that roads, streets, bridges, town squares and public areas would be subject to architectural quality requirements. Those who oppose this viewpoint consider quality to be a private issue and would rather see the power of public authorities limited. This controversial question also touches upon the extent to which the concept of quality should include aesthetic, cultural-historical, technical, social, environmental and economical aspects.

In its statement Jönköping's County Administration argues that it needs competence in architectural quality when granting building permissions and physical planning. The county administration means they need a city architect at the county level to coordinate the different interest groups in the planning process to reach comprehensive architectural solutions. The Swedish building owner’s association (Sveriges Fastighetsägare) on the other hand doesn't wish to see any changes in the law that would interfere with their right of disposition over their buildings. The crucial point is who should decide what architectural quality is. On this matter the building owners association and the home owners (Villaägarnas Riksförbund) association are very clear. The decision should lie with the private owner not the architectural organization, county town planning office or politically appointed persons. According to the National Homeowners’ Association, building permission for the detail plan may never be undermined due to unpredictable, vague and poorly defined aesthetic requirements. The county should not be able to impose its aesthetic values on a home owner. Criticism of unpredictable requirements would be troublesome if architectural quality should include aesthetic and technical aspects as well as economical, social and environmental features in the design of the surroundings.

DISCUSSION

From the descriptions it can be argued that the structure of the notion of quality is an “essentially contested concept”. Quality has a structure that leads to debate, differences and doubt. But to discuss the concept in a professional...
context as systematically as possible it is necessary to build up serious conceptions of what should or should not be considered quality in architecture and urban design. The life span and stationary situation of a building makes it available as a public text-book on quality. The notion is also developed through discussion among stakeholders. Through historical retrospect you can learn about the quality ideas that were the focal point of debate during various periods and how architects used these models. Equally interesting is the study of quality questions which recur in the choice of solutions to design problems in architecture and town planning projects. This enables an analysis of vital ideas connected to the concept.

Professionals need well-founded recommendations describing how quality ideas should be understood and carried out in projects. But not a formula with clear-cut criteria for what is “right” or “poor” design, but to find an appropriate solution to a design problem. The connection is very important because it gives meaning to the concept of quality. Architecture is an applied art. Architects and clients should both meet the end-users’ needs for a well designed space. The global goal is use. The assignment should result in surroundings utilized by people. Clarity and coherency in the design of architectural and town planning projects are aesthetic preconditions for the future utilization of environs. Therefore, good solutions rely upon knowledge of the cultural setting where the project belongs.

The architect's task during the planning process is to give the project the characteristics, which upon completion – with application – generate well thought out values and experiences of architectural quality. The underlying idea is that already in the design stage, before production, the drawings and models enable you to predict future impressions. The ability to design and assess architectural qualities that can be realized in projects and are evident when the consumer uses the building should be the core of professional competence. That is the fundamental challenge for education, professional practice and research in architecture and urban design. I hope that my investigation, demonstration and discussion of architectural quality as a key concept can contribute to this challenge. The concept has to communicate quality in architecture and urban design in a meaningful way in order to be useful in practice.

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