## 용적률 게임, 한국에서의 밀도의 문화

The FAR Game and the Culture of Density in the Republic of Korea



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2016년 베니스 비엔날레 한국관에 필자가 참여하게 된 것은 김성홍 교수와의 오랜 인연에서다. 김 교수는 조지 아 공대에서 공부하는 동안 우리 연구실의 주도적 멤버 였고, 1995년 그가 학위를 마친 이후에도 관계를 유지했 다. 지난 10년간은 서울의 건축, 도시, 역사를 연구하는 김 교수와 도시 모폴로지와 도시의 삶에 대한 대화를 주 로 나누었다. 김 교수가 비엔날레 한국관팀의 자문가로 필자를 초대했을 때 그간 나눈 대화를 집중할 수 있는 좋 은 기회라고 생각했다. 한국관 주제는 이미 '용적률 게임' 으로 정해진 후 였다.

2015년 12월 며칠 동안 아테네에서 김 교수와 한국관 주제에 대해 자세히 이야기를 나누었다. 용적률 게임을 둘러싼 고밀화된 한국도시에서의 문화와 사회경제적 역 동성을 좀 더 큰 틀에서 어떻게 엮을 것인가 하는 문제였 다. 두 가지가 필요하다는 데 의견이 모아졌다. 첫째, 법 과 제도의 제약, 부동산 개발 압력 속에서 건축적 창의성 을 드러내는 부제를 조어(造語)하는 일이었다. 둘째, 다 양한 관점에서 밀도의 문화를 다룰 글과 보완 전시물의 필요성이었다. 그 이유는 건축, 문화, 개발의 역동성의 삼각관계를 최대한 포용하는 것에 있었다. 그 후 서울의 큐레이팅 팀이 작업을 하면서 한국관의 목표가 점차 뚜 렷해지자, 관심사는 전시 디자인이 다룰 내용과 형식으 로 옮겨갔다. 집중적으로 논의한 두 가지는 전시장을 찾 아온 관람객의 관점에서 본 전시 형식과 관계가 있었다. 첫째, 길어야 1~2분 정도 전시장에 머물 보통의 관람객

이 핵심 메시지를 파악할 수 있어야 한다는 사실이었다. 둘째, 전시의 핵심이 될 36개 건축물을 설명하는 공통의 다이어그램 언어와 정량적 언어(quantitative language) 를 어떻게 만들 것인가 하는 것이었다. 첫째, 다이어그 램 언어는 36개 각각의 대지 안에서 조닝과 법 안에서 지 을 수 있는 가상의 매스와 구현된 건축물의 3D 모형으 로 표현하고자 했다. 둘째, 개별 건축물의 디자인 특이 성(design idioms)을 넘어, 전시의 명료함과 통합성뿐만 아니라 건축물에서 나타나는 중요한 유사함과 차이점을 규명하는 사색적이고 비판적인 작업(reflective task)을 위한 정량적 언어의 필요성이었다. 다양한 유형적 주제 를 탐구하기 위한 전제조건으로 비교언어(comparative language)를 찾는 연구였다. 일련의 작업을 통해 36개 건 축물에서 건축가들이 구사한 평면, 단면, 볼륨의 디자인 전략을 추상적이면서도 체계적으로 전시하는 방향으로 의견이 수렴되었다.

2015년 12월 이후 필자의 역할은 큐레이팅 팀이 주제 를 단단하게 하는데 필요한 의사 결정에 도움을 주는 것 이었다. 그로부터 5개월 뒤인 2016년 5월 베니스의 한국 관을 찾았을 때, 지적으로 체계적이며, 시각적으로 일관 된, 엄청난 전시가 불과 몇 달 동안의 짧은 기간에 만들 어졌다는 사실에 놀랄 수밖에 없었다. 협력적이며, 창의 적이고, 조직화된 프로세스, 진행 과정에서 일련의 발견 들, 날카로웠던 주제가 풍부한 내용으로 전환된 감동은 필자가 전시를 마주하기 전에는 놓쳤던 것들이다. 한국 관 큐레이팅 팀들이 이룬 성과와 전 세계 건축계를 초대 한 한국관 주제에 관한 필자의 생각을 다음과 같이 정리

<sup>\*</sup> 구체적 내용에 관심 있는 독자를 위해 원문전문을 그대로 싣되. 이해를 돕고자 전반 도입부를 의역하였다.

하였다. (이하 원문 참조)

My involvement with the Korean Pavilion for the 2016 Venice Biennale follows from my collaboration, over many years, with Professor Kim Sung Hong who was a leading member of my research team when he studied towards the doctoral thesis that he submitted to the Georgia Institute of Technology in 1995. In the last ten years our discussions were mostly about urban morphology and urban life, given his studies of Seoul, the history of its planning, its growth, and its architecture. Thus, when he invited me to work with his team as councilor, after his appointment as curator for the Korean Pavilion, I felt that this unique honor was also an opportunity to bring into focus many years of dialogue. The theme of the pavilion was already set: 'the FAR game'.

In December 2015 Professor Kim spent a few days in Athens, Greece, to discuss the pavilion agenda in some detail. Conversations addressed the relationship between the 'FAR game' and the larger issues associated with the culture and the socio-economic dynamics of Korean cities as they become increasingly dense. Two requirements were crystallized: first, the necessity to come up with a subtitle that places the emphasis on architectural creativity, given regulatory restrictions and real estate development pressures; second, the importance of inviting essays and commissioning complementary exhibits that would address the larger culture of density from various perspectives. The aim was to embrace, as much as possible, the whole triangle of relationships between architecture, culture, and development dynamics. As the aims of the pavilion became increasingly clear, with continuous inputs from the curatorial team in Seoul, so our attention shifted to the issues that had to be addressed by the design of the exhibition. The two aims we most discussed were linked to the extremities of the span of anticipated visitor attention. First, the curatorial team had to ensure that a visitor who only stays in the pavilion for a very brief period of time, perhaps no more than a minute or two, should get a clear primary message. Second, the curatorial team had to embrace the difficult task of finding a common diagrammatic and quantitative language for the description of all 36 buildings at the core of the exhibition. The first aim would be satisfied by juxtaposing, for every site, the 3d models of the theoretical solid allowed by zoning and regulation law to 3d models of the final architecture of buildings. The second aim, finding a common language, was fundamental not merely to the clarity and visual integrity of the exhibition but also to the more reflective task of identifying important similarities and differences between buildings, over and above the design idioms of individual architects. This was a research task: the comparative language was a precondition for the exploration of different typological themes. After much subsequent work, the 36 buildings could be systematically arranged in the abstract design space defined by planimetric, sectional and volumetric design strategies deployed by architects.

After December 2015 my communications with the curatorial team addressed specific questions, helping to make sure that the chain of decisions enhanced the programmatic agenda. On visiting the pavilion, in May 2016, I had to make an effort to convince myself that the extraordinary work on display, intellectually systematic and visually consistent, had been completed in the short time of only a few months. While I had been afforded a privileged overview, I had clearly missed a tightly organized process of collective creativity, a series of discoveries along the way, the excitement of turning a focused agenda into rich content. Below are my thoughts on the achievements of the curatorial team and the issues that they invite the international community to reflect upon.

The most fundamental statement made by the Korean Pavilion at the 2016 Biennale is that the fronts of architecture that we need to attend today are not only those at the edges of cities, societies, cultures and economies, but also those at their very center. The focus is upon mid-sized buildings in the heart of Seoul and other major Korean cities designed to serve mostly private real estate development interests. The main question asked is how architects respond to regulatory constraints, particularly those that govern the density of coverage of the ground and the density of built volumes in urban areas. Architects are placed under pressure to design buildings as large as allowed by the regulations and to provide the maximum rentable area and the greatest commercial value. The visitor is led to see how they also strive to enhance the quality of space, the quality of life of building occupants, and the environmental performance of buildings. The designs on display offer a greater sense of spaciousness by taking advantage of all regulatory allowances for balcony spaces, open spaces, attics or spaces accessible to the public.

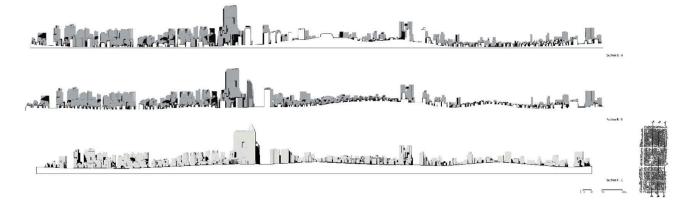
In the exhibition, the primary story is placed against a rich description of background. First, population growth, income growth, and increases in land value are shown to propel increases in urban density - increases in both built area and in population per land area. Second, the growing predominance of multifamily houses, usually with commercial premises on the lower floors, accounts for the typological focus of much architectural ingenuity - high rise apartments are still the residential type of choice but they are not affordable for all. Third, the creative efforts of architects are shown to resonate with the vernacular efforts to maximize usable space, often by building additions and modifications.

Two lessons are suggested. The first is in tune with the traditional understanding of professional responsibility: the architect adds value by serving not only the needs of the client but also the needs of building occupants and the needs of the public as far as the interface of private premises to public space is concerned. The second lesson is that design intelligence can turn constraints into a source of individual and collective creativity, thus leading to distinctive architectural qualities that

transcend stylistic diversity. As an example I would mention the creation of street facades that are animated by movement, the provision of cross-views that provide visual release, and the creation of interlocking volumes that provide richness to everyday habitation. In short, architecture is necessary and possible even at the face of major impersonal forces and crushing pressures arising from market economics.

A larger context is brought to relief by the essays included in the exhibition catalogue. This bears on the ambient spatial culture expressed in the structure of street networks, the disposition and connectivity of major arteries, local main streets and secondary streets; in the admixture of development densities within local areas; in the economic considerations that frame the creation of architecturally more ambitions building envelops; in the conditions that arise at the interface between architecture and urbanism in various locations in Seoul.

Density is typically measured by population per land area or by aggregate building area per land area. The reader of the catalogue is likely to comprehend that density functions according to the physical structure of space whose subtle properties are not captured by the usual numerical indexes. The same population density or building density can have different functional, cognitive and affective consequences depending on the syntax of the street network, on urban design and on the accretion and superimposition of building designs over time. By extension, the Korean Pavilion challenges us to ask how spatial culture, embeddedin and arising from the evolution of the urban fabric and the efforts of architects, contributes to culture at large. The question that we are led to reflect upon is not density in the abstract, but density as articulated and as tuned by the particular sensitivities of a culture, traditional or emerging, authored or anonymous, 'high' or 'popular'. What are the relationships between the vitality of Korean cities and the vitality of Korean culture? The Korean Pavilion invites us to engage this question, it does not purport to close it. This is how it should be.



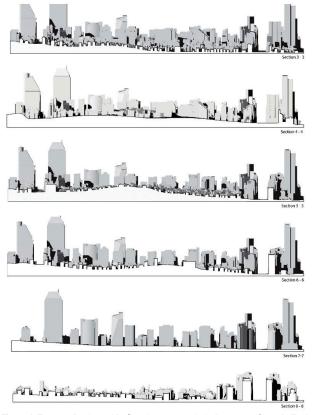


Figure 1. Two studios based in Seoul are currently being run at Georgia Tech by professors John Peponis and Marc Simmons; the illustrations result from the early work of the studio of Professor Peponis. Gangnam presents architectural creativity at a great variety of scales.

This brings me to a related issue which is touched only by implication. How should we evaluate the regulations themselves in the light of a study of their implementation? The exhibition foregrounds what regulations can allow. Surely, a second pass through the record of architectural experimentation and innovation might also help clarify what desirable options regulations might disallow or what less desirable outcomes they still fail to exclude. The question to ask is whether regulations, which are put in place to safeguard or promote public interests and collective benefits, work as intended. How can architects and urban designers reflect on regulations as a project whose output is not a particular building or place, but a framework for the design of buildings and places with desirable properties and effects?

At a time when we have increasingly sophisticated theories and digital tools for the study of the generators and constraints on built form we can model the ranges of design possibility framed by alternative regulatory parameters more effectively. The systematic evaluation of regulations according to what they make possible or impossible in the light of parametric models of built form is a project of great value. It addresses the interface between two facets of architectural and planning creativity: first, design and planning creativity exercised in a particular place for a particular client; and second, design and planning creativity engaged in the clarification of strategic design choices, the publicinterests associated with such choices, and the creation of regulatory frameworks that promote desirable paths of evolution. The two design projects, designing regulatory frameworks and designing particular buildings and places, are equally essential to sustaining urban social vitality, culture and economy.

To recognize this, is to revive interest in the programmatic agendas of architecture. True, the general societal aims that suggest themselves today are commonplace: First, we must address, in our cities, the social inequity that is continuously produced by the internal dynamics of economies and societies as well as by the geopolitical dynamics between economies and societies. Second we must address the environmental problems that are caused by our technological civilization given the present urgency of managing and reversing maninduced climate change. Our responsibility, however, is to interpret these aims in precise ways and to engage in focused, concerted and deliberate efforts so that we can continuously assess what works and what does not work and continuously redefine what is better rather than merely strive for something different.

From this point of view, the Korean Pavilion documents a sense of renewed alertness and empowerment but not an equally clear sense of future direction. As noted earlier, particular modes of architectural practice, exemplified by specific projects, are set against the background of clearly described and quantified forces. This sets the Korean pavilion in the tradition inaugurated ten years ago by the 2006 Biennale curated by Burdett. There, for the first time at such a grand scale since the 1960s, architects confronted a statistical account of the forces and problems which form the context of designing cities, or designing in cities. Today, the information technologies industry seeks to persuade us that new and more deliberate modes of practice are possible, based upon up-to-date 'big data' that can capture the statistical regularities of behavior at any chosen scale from populations, through organizations, localities or groups, to individuals (baring the critical question of privacy). However, an awareness of quantities and quantitative relationships can only serve as the background and testbed for posing questions, formulating intensions and proposing strategies. The richer the data the more pressing the need for clarity and integrity of thought and aim.

The Korean pavilion calls attention this front also, and invites us to formulate ways forward. Given that the issues raised are not likely to go away, one hopes that the discussion will continue and that advances will become evident. As an outsider, I am inspired by the condition that I describe in my own contribution to the catalogue: Korean urbanism, as exemplified in Gangnam, is characterized by an ability to bring together, in many localities, many different scales or urban experience, urban connectivity, and architecture. The plurality of scales results from, and in turn helps sustain a plurality of urban actors (investors, organizations, individuals). This keeps open the promise of a dense pluralist urban culture which I see as a value in its own right but also as a fundamental prerequisite to a sustainable society and economy. The thirty six projects showcased at the exhibition also represent, in my mind, such rich pluralism. They suggest that underneath the FAR game and underneath the design creativity exhibited by architects working to provide a sense of spaciousness within density, we can discern the vitality of a contemporary culture that asserts itself in increasingly powerful ways.

## 필자 소개

존 페포니스 교수는 조지아 공대 건축대학 교수로 재직하고 있다. 건축과 도시 공간의 사회문화적 기능과 의미에 대한 방대한 연구와 집필을 해왔다. 최근에는 서울을 포함한 아시아, 북미와 이슬람 도시의 구조와 역동성을 비교문화적 틀에 서 연구하고 있다. 건축가로서도 협력작업을 병행하고 있으며, 인천국제공항 제 2여객터미널, 용산 국제업무지구 국제현상설계의 심사위원을 맡은 바 있으며, 현재 SPACE의 편집위원이다.