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Article

New Realizations at the Archaeological and Funereal Park of Takino Cemetery in Hokkaido (Japan)

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Abstract: For decades, in historical research, archaeological vestiges have been linked with geomancy and cults of the mythical ancestors of a group of population. This particularly verifies in Eastern Asia and especially in China, Korea and Japan. A fundamental problem of Japanese Archaeology is that few of the remnants were realized in stone. One of the most important parts of archaeological sciences is the study of Necropolises or ancient interments. From the 1970s onwards, in the relatively "new" and promising land of Hokkaido, cemeteries were built with the concept of landscape in mind, this is also due to the lavish vegetation features of this northernmost island of Japan. In the case of the Takino cemetery on the plains of Hokkaido, whose construction began in 1982, solemnity and religiousness were incorporated by producing exact stone replicas of famous funerary landmarks from antiquity as such materials were inexistent. This trend included traditional Buddhist funereal monuments like Seokguram grotto and Kamakura sites, but at a certain and exuberant point, under the influence of Isamu Noguchi, reached Stonehenge in England and the Moai from Easter Island in Polynesia (being after all located in a remote isle of the Pacific Ocean). In this article we will outline such process of generation and overall conception, analysing the inclusion and architectural assembly of the different compounds and the recent and extraordinary additions projected and built by the celebrity architect Tadao Ando. We expect in this manner, to facilitate the comprehension of the significance of venerable landscape sublimated through Archaeology for the Nipponese modern civilization.

Keywords: landscape archaeology; heritage of the land; ancient stone monuments; asian architecture; Easter Island; hypogea chambers; architectural retrofits; Tadao Ando

1. Introduction: The Fascination of an Unknown Island

For a variety of reasons, the Japanese archipelago cannot be considered an utterly ancient hinterland [1]. Even from a geological point of view, its variegated igneous nature, still active, seems to eschew extreme antiquity [2,3]. The northernmost of the four large islands, Hokkaido 北海道 passes as even newer from an anthropological point of view [4] as it was only inhabited by aborigines called Ainu (i.e., people) [5], who remained anchored on the verge of the Bronze Age, until well beyond the 19th century. The main foundational texts of the Japanese civilization, like the Kojiki [6], 古事記 strive to convey the grandiosity attributed to immemorial times. Nevertheless, the anvil of History, by virtue of Chinese sources endorsed with recent genetic analyses has revealed that the now prevailing Yamato people only harks back from the 3rd century C.E. at the most [7,8]. The Ainu aborigines or their ancestors termed *Emishi* 蝦夷, commonly a synonym of barbarian, suggest a much older preexistence on these isles, a fact often disregarded or diminished by partisan historians [9].

It is generally accepted that the tumulus or ceremonial mound is the preferred construction on the land or soil erected by many civilizations, [10] and particularly by the peoples of East Asia, with the paramount examples of Korean geomantic tumuli and Japanese Kofun 古墳. These generally



consist of a set of tombs of ancient rulers in which the terracotta statuettes, named haniwa 墳輪 were deposited [11]. Such artificial hills were completely absent from Hokkaido's landscape as the Ainu had other forms of religious worship more centred on living nature and not related to man-made constructions. Moreover, Japanese archaeology faces the important issue that, as construction in stone was rare, very few remnants can be spotted by traditional excavation techniques. Therefore, for designers of ceremonial spaces at all epochs, it was imperative to imbue a sense of antiquity to the places where the ancestors and the deceased were revered, by performing volumetric alterations to the land [12,13], as we can read in Horace's Ode 3.30 [14].

Consider in a parallel with Christendom, the verses of 1808 by William Blake: "And did de Countenance Divine/ Shine forth upon our clouded hills? / And was Jerusalem builded here/ Among these dark Satanic Mills" [15]. These outlandish lines certainly evoke the concept by virtue of which, even on the heathen lands of England, the erection of a sacred monument particularly a funereal one, seems to have demanded a hallowed although natural precinct much in the image of the seven hills of Rome or other orographic formations. [14]

Only ten years later, in 1818, Percy Shelley wrote about the huge statues of Ramses II at Abu Simbel: "My name is Ozymandias, King of Kings:/ Look on my works, ye Mighty, and despair!"/ No thing beside remains. Round the decay/ Of that colossal wreck, boundless and bare/ The lone and level sands stretch far away. [16]

Thus clearly confirming the inspirational power of archaeological vestiges on human memory and behavior as an invariant for the erection of sacred sites and hirothesions.

In the case of the Sapporo area, the first precedent which inaugurated this trend for Japanese architectural design, seems to appear in the Moerenuma Park (Figure 1) in the north area of the city and specially the work known as Play Mountain.



Figure 1. Aerial view of the Moerenuma Park designed by Isamu Noguchi.

In it, the Japanese-American sculptor and landscape artist, Isamu Noguchi takes advantage of the verdant features of Hokkaido to recreate the striking imagery of Maya-like pyramids, as Kukulkan at Chichen Itza or Palenque [18,19] (Figure 2). We need to bear in mind that Noguchi lived for some time in Mexico where the precedent of pre-Hispanic cultures, brought to him by artist acquaintances among which ranks Frida Kahlo, exerted an indubitable attraction if not a pervasive influence [20]. At the so-called Play-Mountain, by means of bare stripes of stone superposed on the sloped turf, he creates the impression that the full potency of an ancient pyramid lies covered under thick vegetation (Figure 3), to the point that the visitors which can occasionally be seen on its summit, play the role of acting king-priests of a forsaken temple [19] (Figure 4).



Figure 2. The pyramid of Palenque. Mexico. Source: author.



Figure 3. Play Mountain at Moerenuma by Isamu Noguchi. Source: Author.



Figure 4. Detail of the play Mountain with stripes resembling ancient stones. Source: Author.

From an ecological point of view, such pervasive creation is only natural if we realize that, as previously mentioned, grass is more abundant in Japan [19] than stone ashlars are.

To prove the previous statement, let us quote a famous haiku by Basho on the lost capital of Hiraizumi: The Summer grass leaves/ Ruins of the Dream/ of the Warriors of Old (Trans. by author). 夏草や兵どもが夢の跡。

It denotes that the only remnants of a once proud capital are the ephemeral leaves of the summer.

In compounds like the Karesansui 枯山水 (stone miniature landscape) or at Katsura detached palace, ashlars are considered almost as venerable relics [20,21].

The dictum of the artist Joseph Beuys comes to our minds at this point: "It is to us only, to give life to the stones so that they do not lie around, scattered as carcasses." [22].

After a fashion, this square mound echoes a distant pyramidal landmark of south Java, the Temple of Borobudur near Yogyakarta (Indonesia) [23] to which we will refer later on (Figure 5). Comparatively, there are fewer stone monuments on the southern hemisphere than on the northern one, perhaps due to a sparser distribution of the land masses.



Figure 5. View of the Borobudur Temple in JYogyakarta.

All considered, by acting in this seductive manner, Noguchi is able to incorporate important aspects of the aesthetics of Shintoism by revering nature as something supernatural and, at the same time, to beckon the essence of Zen Buddhism that pervades Nipponese idiosyncrasy [24], signaling the misty way of the occult and letting human imagination perform the task of accomplishing what cannot be entirely revealed or uttered [25].

Previously he had pronounced a direct reflection onto Buddhist liturgy in his celebrated piece "Black Slide Mantra" a kind of helical toboggan for children cum carven steps. The playground, sculpted in polished sable stone, [26] is located at Odori Park in central Sapporo (Figure 6).



Figure 6. Black slide mantra. Odori Park. Sapporo.

These references are clearly supplying the Japanese fields and cities with stone monuments of an imaginary archaeology from a culture that, in a sense, never was. However, it could have been this way if the anvil of History would have forged the events otherwise. Slowly but surely these new forms are enriching their idealized past for the future generations and so the creations have received wide acclaim [27].

It was chiefly with such powerful design examples in mind and with an eye on Buddhist rites, that the planning of the Takino funereal park was to take a start in the 1980s.

2. Materials and Methods

In the first place we need to remind that Takino is not just a cemetery tucked in the outskirts of a town in the sense of Europe or the US, but rather and as the name Rei-en 瞳園 suggests, a place of pilgrimage, in which we ascend to a veritable “Sanctuary of Souls”. The departed are not merely buried and rapidly forgotten, instead they are comforted, accompanied and ever-present in the pristine manner inherent to the Japanese ideas of afterlife and netherworld [28].

That said, in the general plan and from an architectural perspective, we can distinguish three main compounds around which the whole landscape sequence orbits (Figure 7).

The sculpture of the Buddha, the Stonehenge circle and the Moai alignment. The methodology will consist in a thorough and systematic analysis of the origin, implications and interplay of these three elements in order to improve the archeological complex and be able to assess the new realizations that have taken place at Takino, especially since 2017.



Figure 7. General plan of the Takino Cemetery.

2.1. The Giant Buddha Statue

As explained previously, the Daibutsu is situated in the first place. This Buddha modelled after the Kamakura statue, is completely central to the precinct of the cemetery (Figure 8), secluded by a hill and from 2017 onwards, it is preceded by a sizeable rectangular pond that impedes direct entrance through the passageway and towards the massive sculpture weighting 1.500 tons and rising to a height of 13.5 meters [29].

The imposing figure is flanked by two symmetrical mounds which, in this way, define an important avenue leading directly to the giant statue.

We must hereby stress that the sculpture is not directly perceptible from the entrance gates to the Funereal Park.



Figure 8. The Daibutsu statue at the Takino cemetery in its original configuration.

We need to outline that, in Japan, traditionally the Buddha image is not exposed to the outside, but rather accommodated in a grand temple of timber frame as in Todai-ji at Nara. The only exception is the Kamakura Daibutsu and this is likely due to the arson that once occurred in the hosting precinct; it was of such magnitude that the high priests of the time decided to leave the bronze statue alone without reconstructing the precedent temple [30].

Besides, stone is not the preferred material for statuary of the Buddha, instead we find mostly wood or gilded bronze in some special cases. This fact builds on the scarcity of permanent remnants in Japanese archaeology already stated. In the case of Takino, to settle these problems of conservation, it was planned that the sculpture would be composed of resistant granite stone and after careful

polishing, left open to the visitors among the gentle slopes of the selected area of 800 hectares (See Figure 8, above).

However, soon enough the towering image exerted an equal spiritual burden on the believers and by-passers. The stone Buddha was considered too solemn, imposing or even melancholic. The gloomy and cold weather of this area might have played a role for such ominous perception [31].

In this respect, we can find an important transition case of an adumbrated but not really visible Buddha at the Byodoin (Temple of Peace) of the town called Uji. The whole precinct is an example of Amitabha Buddhism in which the pilgrimage destination to be reached was the paradise of the West. The travelers were forced to accede to the complex by the river Uji and not by the current entrance from the narrow streets inside the town. It is remarkable that the name Uji in Japanese 宇治 means the Kingdom of Heaven or the Heavenly Paradise [32].

The central hall is called Hôôden 鳳凰殿, the Palace of the Emperor Phoenix. It is in fact crowned by two symmetric phoenixes which, when nested over a temple, auspicated the flow of spiritual and material perfection for the entire realm. Their mere presence suggested a breeze of harmonious sounds echoed by the peculiar wind instrument called Shô. The Hôôden was considered an emblem of Japan to the point of being reproduced life-size as Japanese Pavilion for the Chicago World-Fair of 1893 (Figure 9). The person in charge of that pavilion was the celebrated artist and writer Okakura Kakuzo, the author of The Book of Tea, written solely in English in 1906 [30].



Figure 9. A postcard showing the front of Hôôden in Chicago (no longer extant).

The relevant feature of this temple for the case of Takino is that the lattice work and oval opening of the main gates allowed to contemplate from the outside the countenance of the Buddha without need to penetrate inside the temple (Figures 10 and 11). These elaborate process of visualization of a deity or religious image is called darshan in sanskrit *दर्शन*.



Figure 10. View of the lattice of the Main Gates at the Hōōden in Uji.



Figure 11. 3D reconstruction of the main hall of the Buddha with the elliptic opening to see the Holy Face without entering the precinct. Uji.

The Byōdōin scenography and iconography are so meaningful that they have been reconstructed in places far away from Japan as in Oahu, Hawaii (US). In this careful reproduction the access and view from a body of water are duly respected; it was dedicated in 1968 in memory of the Japanese Immigration (Figure 12). Besides the Buddha, historic characters like George Washington are revered in the surroundings under the category of kami.



Figure 12. The Byōdōin at Oahu, Hawaii. Valley of the Temples.

For esoteric theology matters, the hidden Buddha or Hibutsu 秘仏 is an invariant of East Asian religions. Since the historical Buddha Shakyamuni ascended to Heavens after entering paranirvana 涅槃 (nehan in Japanese), it cannot be manifest or appear frequently in the earthen world. Those who could possibly be summoned are the bosatsu, impersonations of the Buddha who voluntarily elected to remain in this world in order to help human beings attain nirvana in their turn [31]. For that reason, it is rare in Japan to find a statue of the Buddha exposed to the outdoors and some of the images in the temples can be regarded only on special occasions, every fifty or even one hundred years. Even the shadow of the Buddha is considered a good omen and this belief has been incorporated into a common expression of everyday Japanese language [33].

A somewhat extreme case of the former attitude is to be found at the previously referred temple of Borobudur in the outskirts of Yogyakarta Indonesia [19], in the third level of the pyramid we would find a retinue of curious bell-shaped stupas, providing some spiritual ring to believers (Figure 13). The stupas are hollow and just through rhomboid apertures we can surmise a finely carved Buddha statue kept within. It is somewhat astounding that the original builders had to take such effort to create the sculptures (Figure 14) only to subtract them later from open view as they are perpetually put to rest behind heavy stone blocks.



Figure 13. The bell-shaped stupas on the third level of Borobudur.



Figure 14. A damaged stupa reveals the hidden Buddha, which could only be described from the loopholes of the stone envelope. Candi Borobudur. Yogyakarta. Source: author.

A less remote example of a covered Buddha is located at Gyeongju in Korea. The hill of Seokguram where it was erected, has been a consistent source of attraction for the local people and foreign travelers as well. The seemingly nondescript artificial cave indicated a novel concept of space [34] for Asia that was subsequently forsaken for centuries, until incidentally rediscovered by the

Japanese because it was mainly built in stone and since then is experiencing a revival to the point of having been declared as a Human Heritage site (Figures 15–17).

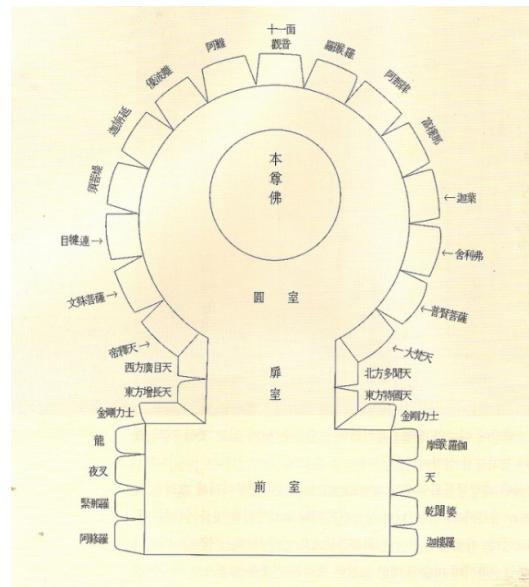


Figure 15. Plan of Seokguram showing (in Chinese characters) the many different guardians and protective figures (four kings and arahats) that surround the Buddha in carved reliefs.

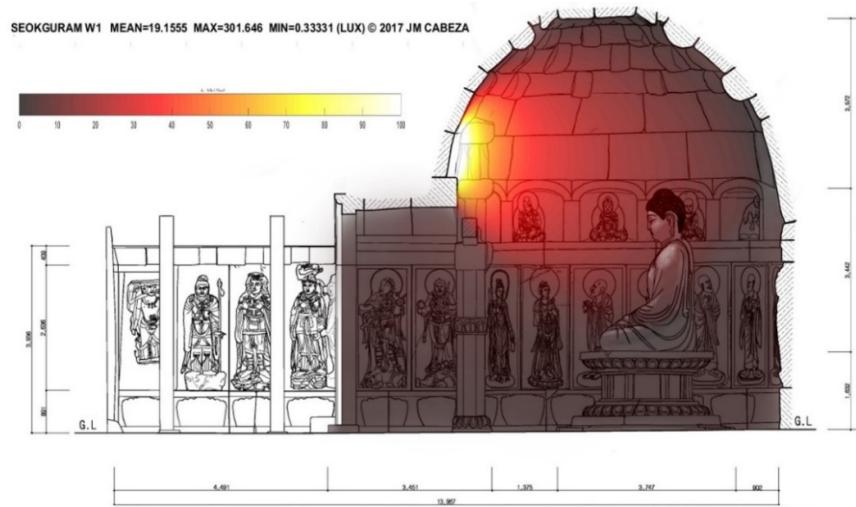


Figure 16. Sectional view of the grotto including simulation of lighting levels by a circular opening no longer extant.

Its main features are as described in the manuscript of Ko Yusoe [33]

This great statue, beginning as a bloodless, passionless lump of granite, has been endowed with a strong pulse, breath, divinity, gentleness and dignity. When unveiled, the joy was surely not limited to the sculptor, but extended throughout Silla and echoed towards the cosmos

And in the book of Joon- Sik Choi [34] we can read these impressions:

You cannot help but wonder how on earth it was possible to carve such a soft and flowing appearance out of granite, a rock that is so hard that it is considered the most difficult stone to sculpt... Isn't it enough for the best works of art simply to exist?

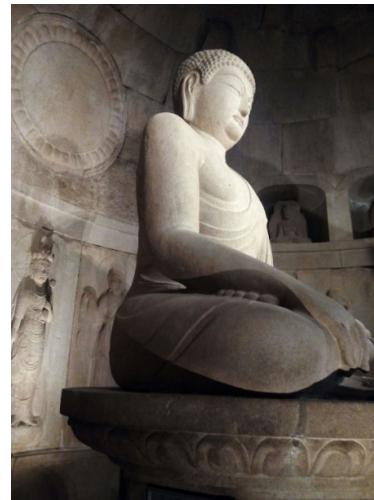


Figure 17. A view of inner harmony at the adytum of Seokguram.

The Seokguram enclave links with a cherished Buddhist tradition of hypogea compounds [35,36] that goes back in time to thousands of years and originated mainly in India [17] in coenobiums known as chaitya. The climate of the Indian plateau and the geologic characteristics of its soil favored the introduction of this peculiar system of construction [8] intended for religious or spiritual communities.

The tumuli that formed the stupa [15] began by nominal diggings on the surface of the rock cliffs to serve as mere storage and shelter, until gradually becoming sumptuous hypogea temples devoted to the Buddha and its grand ceremonies. The main reasons for such a procedure were both climatic and spiritual: the imperious necessity of building a covered space to conduct religious ceremonies or to offer prayers when the storms of monsoon weather prevented holy mission or any kind of outdoor activities for monks and disciples alike [5]. Such spaces also reduced the probabilities of incidental stamping or crashing onto swarms of insects that thrived in the damp of the stormy season. However, in Korea, the Seokguram cave, a celebrated Buddhist space, emerged from the antecedent of ritual tumuli [7].

Being a form of revolution, the tumulus or the stupa beckon a cosmic order that is revealed through its external features, aspects that were taken as a prototype in Japan, Korea and China [15,16].

Domes consisting of masses of stones have been used in Korea since ancient times to create a sort of ceremonial mound. Often they are covered with vegetation, mosses and grass. The first tumuli had no inner space, but they implied a geomantic meaning as a sort of altars that required to be encircled for rituals [9]. At a later stage, such Feng Shui of the land was made explicit by the designated sequence of images of the twelve astral beings which compose the Eastern Zodiac. These entities regulated the seasons and the time within the day. (Figures 18 and 19).



Figure 18. Tumulus of Hwangnam-ri. Gyeongju (Korea).

The said astral creatures, provided with common animal heads on a human-like torso, appeared on the base of the tumuli at regular intervals from the solar directions [9], starting with the horse 午 (*Wu* in Chinese), which roughly translates as Meridian or Noon. This astral horse is aligned with due South as it signals midday (Figure 19). The normal sequence of the beings, clarified by the authors is: Rodent (24 h), Ox (2 h), Tiger (4 h), Hare (6 h), Dragon (8 h) Serpent (10 h), Horse (12 h), Ram (14 h), Ape (16 h), Bird (18 h), Dog (20 h) and Boar (22 h). It is interesting to remark that unlike Japan or China, in Korea the entrance to the tumuli has a deviation of five to ten degree from the solar south-north axis.

Ox 丑	Rat 子
Hare 卯	Tiger 寅
Serpent 巳	Dragon 辰
Ram 未	Horse 午
Bird 酉	Ape 申
Boar 戌	Dog 戌

Figure 19. The cosmological group disposition of the twelve animals found at diverse tumuli in Korea. The hour of the rodent coincides with midnight (north), and the hour of the horse stands for midday (south). The order segues from right to left and top to bottom in each inclined column, the duration of each hour was deemed 120 minutes, the double of the current modern hour. The special Chinese characters for every entity are given.

In Japan the twelve beings are frequently presided by four major entities, that is: the dusk war of turtle and serpent, to the north, the turquoise dragon to the east, the vermillion phoenix to the south and the white tiger facing west. Mostly the four Guardian Kings as they are called, appear on the inside of the tumulus or statue concerned and sometimes they are formed outside of the building as in the famous temple of Shitenno-ji in Osaka [37].

So far, we have roughly described the design intentions for the section of the Buddha statue at Takino. Surprisingly, this sculpture was completed with the alignments of Stonehenge and similarly at the main side of the complex by a lengthy retinue of 42 Moai statues similar to those erected on Easter Island. Let us present both archaeological milestones in the following lines.

2.2. The Stonehenge Ring

Although much older in historical apparition, henges are similar to the tumuli described beforehand in the sense that they are both megalithic rings that suggest rituals of circumambulation usually following the solar cycles.

It might seem contradictory to display a reproduction of an ancient British stone circle in the design of the park, in coexistence with the Great Buddha, the reasons for that are variegated (Figure 20).



Figure 20. Stonehenge in Salisbury, England.

Customarily, in Japan a Buddhist temple is completed or connected by syncretism with a Shinto sanctuary. This also happens in China and Korea with the singularity that instead of Shinto we might have a Daoist precinct or a Muist element. Some argue that the Shinto religion is a unique Nipponese evolution of Daoism [38].

Nevertheless, at a funeral necropolis it is inauspicious to bring in or invoke the kami or spirits of the Shinto, which eventually represent the everlasting life-forces of Nature and favor transmigration or transformation in perennial conflict with death conceived as cessation.

Shintoism is the traditional religion of Japan and the only one endorsed by the Imperial Household after the Meiji Restoration. One of its main postulates is remote antiquity (real or feigned) and in an island recently inhabited by the Japanese as Hokkaido it has often been controversial to enforce the "Way of the Gods" [35].

The most representative element of Shinto shrines is the Torii 鳥居. Such element can be defined as an elaborate wooden lintel painted in vermillion (Figure 21). The Torii exerts the complex function of beckoning and attracting the Sun, which is the paramount deity of the Shinto's numerous pantheon (Amaterasu 天) and therefore an adequate symbol of Japan. This is reinforced by the ever-present sacred rope called shimenawa しめ縄, with its zigzag paper fleece, representing sunrays, which decorates and blesses [39] the Torii or its annexed structures as the case may be [40]. Even the character of the word is formed with "bird" in the sense of the vermillion phoenix. The underlying metaphor is that the sun would perch on the Torii much in the fashion the birds do.



Figure 21. The famous Torii of the ocean shrine of Miyajima.

The insular nature of Japan as opposed to the great continent of China, has suffered on occasion the comparison with the British Isles. After all, both island nations retain the system of a religious ruler unlike France and China in which the celestial-line of predestined monarchs was abruptly ended after violent revolutions [41].

The designers of the Takino park, dared to imagine that lintels of recycled stone from the sculpture of the Buddha could be converted into a Stonehenge-like profile, as it would serve their purposes of attracting the public less prone to the Buddhist faith and evocate at the same time primitive beliefs of cosmic and archaeological resonance in an intriguing location (Figure 22) [42].



Figure 22. Stonehenge reproduction at Takino cemetery.

By invoking an improbable proto-historic past, perhaps inadvertently, the promoters of Takino, created a unique opportunity of beholding an extraordinary landmark as pristine as in the same day of its erection, with no foreseeable problems of preservation unlike its Britannic counterpart. To the minds of the authors, the debate on authenticity and originality is somehow skipped since the original monument had no inscriptions, art or reliefs of any sort. As we know, granite is an igneous rock as abundant in Japan as it is in England [19,43].

In this manner, intellectual curiosity for ancient monuments is completely satisfied in an idyllic surrounding and is hardly perturbed by the discrete interments of funeral ashes enshrined under the henge.

The orientation of the stone-blocks was somewhat altered (Figures 23 and 24), as in the replica, shattered fragments of the lintels were not left to scatter on the ground. This has shifted the possible original solar or cosmic alignments although this extreme has not been fully demonstrated.

It is interesting to notice that Stonehenge's replica does not face the central axis formed by the Buddha statue but ends in a parallel path to that axis (See Figure 7)



Figure 23. Plan of Takino's Stonehenge replica. Due North is upside.



Figure 24. Plan of the original Stonehenge monument. It is slightly tilted with respect to Figure 23.

At a given moment, the stone circle incorporated a sheltered altar (Figure 25) with three Buddha figures. This element was later removed. Under the circle there is a glazed locked chamber accessible through stairs and which contains the ashes of the departed in metal niches. Also the sculpture of the Buddha was in direct visual connection with the stone circle. In the new configuration after 2017 this is no longer possible (Figures 8 and 26), with which the importance of the Stonehenge circle is strengthened in the whole picture.



Figure 25. The Stonehenge replica with a former Buddhist altar.



Figure 26. The Stonehenge replica with the Buddha before 2017's renovation.

2.3. *The Moai Alignment*

The third important nexus of the Takino complex is the row of 42 Moai. Moai are probably one of the most notorious remnants of the Rapa Nui People as well as the most recognizable icon of Easter Island. The standard Moai can be briefly defined as a colossal humanoid figure carved from the ashes of the Rano Raraku crater or any other volcanic material, with an oversized and elongated head composed of simplified and geometric lines [44].

Their bodies are minimalist, with arms resting at the sides or on the stomach. The legs are frequently imperceptible, although they suggest a crouched position (Figure 27). The torso rests on a ceremonial platform called ahu which cannot be trodden under any circumstances, it replaces the lower limbs of the bodies. This sacred platform has not been respected at Takino cemetery, which could then be considered a sort of mockery of the original figures (Figure 28). The Moai could be detailed at times by a red crown or hat called Pukao and two rounded eyes made of coral or white conch.



Figure 27. Ahu Akivi. Easter Island. Source: Author.



Figure 28. The row of Moai at Takino cemetery. Source: Author.

Although the true meaning of the Moai is still under discussion, we are certain that they were a central piece of Rapa Nui society and are usually linked to the religious life of the islanders, often being understood as a representation of their deities or ancestors [45].

The Rapa Nui disappeared into the ashes of time, but their enigmatic giants can be compared to a variety of religious practices that exhibit similarities in numerous locations of Polynesia, the Lapita area of influence and East Asia. We can name in this group the Tiki idols, the Filipino Anitos and the Korean Dol Hareubang from Jeju Island, a territory where shamanism is still practiced today.

Korean shamanism, also known as Musok or Mukyo, has demonstrated unparalleled adaptability and has managed to integrate into contemporary society, crossing boundaries even beyond the Han Republic. The Dol Hareubang ("stone grandfather" in Jeju dialect) became an emblematic figure of the Korean pop culture but is also a valuable part of the Jejuans own identity, a friendly and merry character who can be found on souvenirs shops or baguettes, but who is also related to ancient beliefs that are still alive [46].

The Dol Hareubang bear substantial similarities to the Moai, although these are smaller (about the size of an adult or child, but this can vary) and maintain slightly more realistic proportions. The grandfathers are sculpted into the porous basaltic rock of Jeju Island, and their contour and facial features are substantially rounder and caricatured than those of the Moai, with large eyes and a flat, bulbous nose. The headpiece is now integrated into their heads, whose headdress has become a bowler hat, giving them a silhouette oftentimes described as phallic, thus associating the stone idols of Jeju with fertility (Figure 29).



Figure 29. Miniature reproduction of the old man or grandfather of Jeju Island.

The arms typically rest on the tummy. Some Koreans identify this gesture with abundance or pregnancy, and it is said that touching the nose of a Dol Hareubang helps women have offspring, being Jeju Island one of the biggest tourist attractions for newlyweds on the peninsula. They feature integrated feet or bases, which were especially useful as they used to rest at thresholds or crossroads as guardian deities, in an analogous manner to which Haechi, protector and mascot of Seoul, did in mainland Korea [47].

The stone grandparents of Jeju Island are deeply connected with the local shamanism and are also referred as Beoksu Meori, “totem head”. According to the Jeju tradition, the Dol Hareubangs serve as receptacles for the spirits, “grandfather” becoming synonymous with “ancestor.”

Other analogous characteristics can be observed in antique megalithic sculptures of pre-Columbian America, such as the Olmec art or more clearly the Colombian stone idols of San Agustin, the “Andean Easter Island” [45]. These discoveries seemed to reinforce earlier theories of pre-Columbian transoceanic contact, such as those formulated by anthropologist Paul Rivet or Thor Heyerdahl which were later discarded by evidence based on genetic tests [44]. Another archaeological site outside the Pacific where huge stone heads have been identified is the hirothesion of Antiochus I at Nemrut Dağı (Turkey), originally the statues belonged to seated gods but the heads were removed at some point [48], and now they bear a curious resemblance with Atama Daibutsu of Takino as only the head of the Buddha is visible over the hill. Although other authors may consider these coincidences as superficial or extravagant, the ancestral spirituality of the Pacific seems to permeate and symbolically connect, through archaeological vestiges, places like Jeju, Easter Island and Takino Cemetery, at least for the imagery of the people.

Coming back to the general plan of Takino, the Buddha was situated between two symmetrical mounds which define an important axis leading directly to the giant statue. The Stonehenge compound is at the end of another axis running parallel to the Buddha’s axis. The line of the Moai is segmented and does not follow any of the principal directions related to the Buddha or Stonehenge’s circle. They seem to pass as wraiths encompassing the said landmarks.

Apart from the three main elements analyzed, other milestones were considered for the design of Takino cemetery, among them the archaeological ruins of Tiwanaku (Bolivia) and Machu Picchu (Peru), Angkor Thom (Cambodia) and different kinds of pyramids. However, they were deemed unrecognizable or not sufficiently related with funereal culture and were consequently discarded.

3. Results

The former discussion on the three distinctive elements of Takino funereal park leads us to the situation in which the original design needed significant alterations and these were mainly performed by a thoughtful intervention of architect Tadao Ando.

Ando had designed and constructed several Buddhist temples in the past especially in the island of Awaji although he is better known for projects of Christian chapels (Mt. Rokko and Hotel Alpha in Tomamu).

It is said that working on the construction or decoration of a Buddhist temple or shrine may provide atonement for even the gravest sin and in any case it is considered a powerful boon towards individual afterlife or reincarnation [44]. There are withheld rumours that due to his advanced age, the architect desired to be granted with these spiritual benefits and so accepted the controversial commission.

Let us now discuss the main intentions of the realized project.

The first one could be perhaps something often forgotten but very important for Buddhism, while it is not directly visual, the power of thurification.

Aroma or perfume have in themselves the capacity of converting people to the true faith without being seen, that is why incense it is used consistently at all Buddhist temples. But in the sacred literature we find examples of mountains or hills called incense-burner, fragrant or perfumed, this was achieved by the predominant vegetation joined to favourable breezes [49].

Ando pursued to create one of such fragrant hills on the selected spot. To that aim he resorted to lavenders. They are not native to the island of Hokkaido but have become fashionable after some exports from Provence and given the availability of cultivable land on this region.

To ensure a persistent fragrance he employed an artificial plantation of 150.000 lavenders at regular intervals on the hemispherical hollow hill that he was to create to surround the Buddha.

When the plants are in full bloom, in this case by the end of June, they give the scent of the typical violet or purple flowers which is quite unusual especially for the Japanese landscape. This strategy has become a dominant feature of the landmark (Figure 30).



Figure 30. Tadao Ando, Hill of the Buddha (2017), with Buddha's forehead emerging from a field of lavender shrubs.

In a second important movement, Ando decides that beholding just the forehead of the Buddha is suitable for the visitors of the cemetery much in the same way as in the formerly described temple of Byodoin, therefore he would create a kind of truncated dome, open to the sky, from which only the head will emerge. The dome which encloses the statue had already been used at Seokguram and other rock-hewn monasteries in India and Sri Lanka (Figures 31 and 32), but in that case it was mostly devoid of light.



Figure 31. Tadao Ando, front view of the hill of the Buddha, entrance arcosolium.



Figure 32. Side view of the new realization.

The intervention of Tadao Ando subtly alters the topography of the site until the body of the statue is no longer visible. Still, the people desirous to pray or pay homage to the Great Buddha has accession the this inner massive chamber by an elaborate passageway through the newly created hill. Such corridor is conceived as a half cylindrical tunnel but reinforced with concrete folded plates on the inner vault.

The passageway is frontal to the sculpture which has been rotated and relocated for the new project but progression to it is not straightforward because of the hidden mechanisms that the architect has devised (Figure 33).

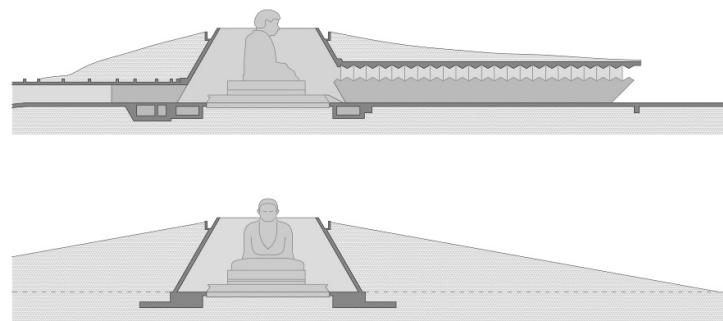


Figure 33. Sectional scheme of the Buddha Hill.

In the new project, we come to a ceremonial pond which cuts the main axis and forces the visitor to take a pronounced detour around it, almost a circumambulation. The basin's surface is concave and prevents water splashes regardless of the wind condition which can be steady around this area. The floor of the stank is made of black marble and that gives the water a swarthy appearance which, added to the myriad of ripples that form in the agitated surface, resembles the mythological Styx river which the deceased were forced to ferry on Charon's boat in order to arrive to the Hades (Figure 34).



Figure 34. Side view of the black pool with aisles and concrete walls.

Thus we are confronted with an eerie entrance to the netherworld of the necropolis. A recreation of sorts of Kyoto's karesansui precincts, not through a vital albeit inorganic garden but with a sullen and lifeless courtyard, it is as Hölderlin described in famous verses [50]: the Walls stay speechless and cold.

For the device of the oblong basin is conjoined with a panelled concrete wall of reduced height. Loft enough to impede the view from the outside while at the same time beckoning the grey sky to a stifled threnody.

With the so-created chicane of the lateral aisles of the pool, which reminds us of the sinuous corridor entrances of Egyptian temples in the ideas of Giedion and Le Corbusier [51], Tadao Ando forces us, all but to crouch to regard the dark flow of water and our gaze inevitably meets the reflection of the obscure cloudy sky on the grey diffuse walls and the liquid surface. We instantly known that we are close to being admitted to the presence of something supernatural.

At this point we could agree with the architect Edoardo Persico, who, praising the racing course at the roof of Fiat Automobile factory of Torino, wrote: Under the skies and before God only the pond (track) is free [52].

The extraordinary feature of low-height opaque walls, produces a secluded space which is present at some Zen gardens and yards throughout Japan, although it is perhaps more clearly represented in the Suimui Utaki Garden Temple, at the entrance of Shurijo Palace in Naha (Okinawa). It is known that when the king of the Rikyus visited a temple or shrine outside the Shurijo, he would open the gates and offer prayers at this diminutive shrine, and the priestesses would perform exquisite ceremonies (Figure 35). The plants within the rare masonry wall are banyan trees and Japanese laurels [53].



Figure 35. The Suimui Utaki garden temple. Shuri (Okinawa).

After traversing the black pool (Figure 36), we get through the vaulted arcosolium a sort of tunnel 40 metres long at the end of which stands the surmised body of the statue, a whitish marble light shines at the extreme. Nonetheless, only when we enter the chamber open to the sky are we allowed to contemplate the long-sought hallowed face (Figure 37).



Figure 36. Side cylindrical pavillion at the extreme of the black pool.



Figure 37. The Great Buddha inside an open dome.

Finally we have reached the sacred hall or garbagriha in Sanksrit terms. The space in which the deity manifests and where enlightenment should take place for those who keep a pure vision (Figure 38). This huge conical space is somehow otherworldly, to walk around an inclined wall of huge dimensions is by no means comfortable but then we realize of the small chapels that surround the great Buddha, in them different bosatsu (boddhisattva) and arahats (distinguished disciples) are worshipped. It is again a sublimated space in which the physical body must be transformed into a spirit, only at that moment we raise our heads and look to the zenith سُمْنَت .



Figure 38. Zenithal vision of the conical dome.

4. Discussion

Founded on the previous results, the authors can demonstrate a tendency in Buddhist religious architecture which reveals specific structures colligated to a sort of all-pervading cosmic harmony. This pertains to a well-rooted Asian tradition that should be increasingly recognizable in the years to come. In the authors' theory, such designs based on archaeology show a clear direction for the recreating spaces of spirituality in Eastern Asia [54].

For instance, as we have just seen in the hill of the Buddha at Takino, in fact a concrete shell, with pleated or folded panes, the protruding head of the Buddha is now oriented to the Northwest, exactly the sunrise position on the Summer Solstice, known in Japanese as *Geshi* 夏至.

In this magnificent roofless structure, Tadao Ando is able to reconcile his main two design paradigms and interests. The first one is the sunlit volume revolving around a center that he exemplifies in the Roman Pantheon (Figure 39). He has frequently pointed out that such space cannot exist in nature.

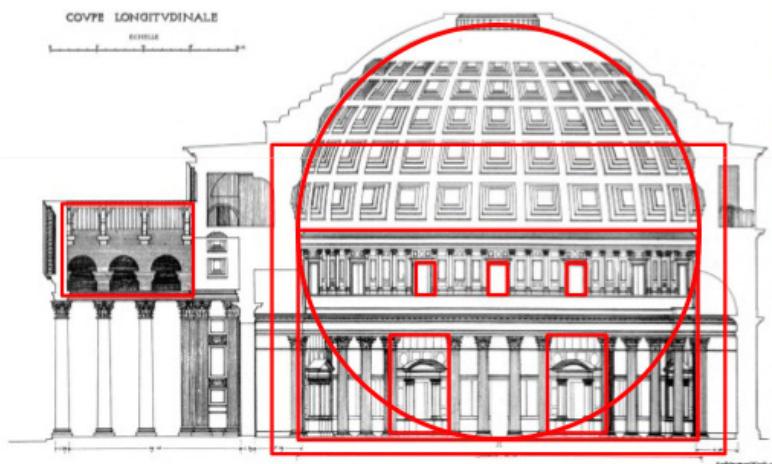


Figure 39. Roman Pantheon. Scheme of proportions.

The second one would be a yearning for total integration with nature and specifically with wind and water, the ingredients that enhance the growth of vegetation and the well-known fundaments of Feng Shui 風水. For instance, with the plantation of blossoming violet lavenders he is capable to ensure a distinctive color in his project for each one of the four seasons in accordance with the Daoist tetralogies, similar to Heidegger's Geviert (The Fourfold, earth, sky, mortals and immortals) [48], for winter it would be the white in the snow, in spring the lush green of the new leaves, fragrant purple flowers of lavender to the summer and finally red brown for the fall.

A thorough cosmic reconstruction of the Universe is performed in this open dome shrine. The philosophical ideas under Buddhist order, such as the concept of *Garan* 伽藍 are sustained. This term originally meant a monastery yard but evolved to signify the harmonic realm created by the Buddha known as *Konpon Daitō* 根本大塔 [54,55] or *axis mundi*). The secluded space conceived for the Buddha along with his entourage radiate and resonate in unison as a celestial harp through the land (Figure 40).

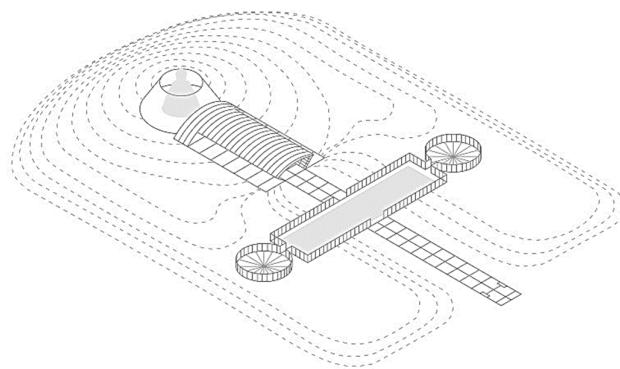


Figure 40. Perspective Scheme of the Buddha Hill and the black pond.

But we must be advised that reducing or concealing the importance of the Buddha, with the hill operation, also implies increasing the effect of the other heathen temples and statues particularly the reconstruction of Stonehenge. There seems to be only a slight connection between them although we believe that deep inside they both honor the ancestral Japanese tradition of Mukaebi 迎え火.

Mukaebi roughly translates as the welcome back fire. In ancient Japan, the ashes of respected ancestors and especially of young children were not interred in communal cemeteries, instead they were deposited near the threshold or entrance fence of a household. By treading over the cinders, the parents pined for the rebirth of their departed infants, especially in the wombs of fertile wives. Such ceremony has been maintained to our days and is performed each year to initiate the Obon season in July or August, depending on the region [56]. When the embers of the homecoming fire are extinguished and turn to ashes they are buried near the small garden conduced to a house and all the members of the family need to walk once over them, pleading for eternity.

In Takino all the cinders are deposited at the entrance of the shrine of the great Buddha or the threshold of the Stonehenge in special chambers, therefore such ancestral ritual is re-enacted almost inadvertently every time a visitor enters the said monuments [23,57].

The notable work of Ando with underground sustainable architectures has led other artists and colleagues inside and out of Japan to explore the concepts of hypogea space like catacomb or necropolis. Some of them are James Turrell (Figures 41 and 42) and Inmaculada Rodriguez Cunill (Figure 43). In Naoshima art garden, Turrell has collaborated with Tadao Ando [58] to produce elliptical voids intended to contemplate the lights from the sun and the sky combined, especially at twilight, one of them has derived into a hotel for visitors (Figure 41)



Figure 41. James Turrell and Tadao Ando. Eco-Hotel at Naoshima.



Figure 42. James Turrell. Second Wind. Vejer de la Frontera. Spain.



Figure 43. Excerpt from the "Wolf Pack City" showing the Necropolis of rage under control. Some of the wings of the building suggest broken swastikas. Work by artist I. Rodriguez Cunill (2021).

In Spain, Turrell's work at the Montenmedio Hacienda (Figure 42), a natural open-air space of international resonance (supported by the CARS), shows echoes of the cases examined above. The

concealment of the central motif and its occasional appearance thanks to the solar cycle, point to an asceticism that characterizes most of Turrell's work [59,60]

On the other hand, the work Wolf Pack City (Figure 43) uses light through recycled materials that reflect luminous flux as if they were gold or silver (but they are not: it is actually refuse), and keeps the remains of despondent citizens through the names of those who could not achieve peace. Far from being a space to rest (it may seem so by the denomination of "necropolis", by the apparent noble materials, etc.) it is rather a space of rage, where we find a "corridor of the putrefaction" of the bodies, or a "corridor of the whitened sepulchres" (alluding to the biblical phrase of Christ). Such peculiar necropolis represents the utmost extreme from a space of tranquillity and transcendence. It is more of a scream than the silence conveyed by the halls discussed previously. The darkness of the catacombs is replaced by the (false) ostentation of the materials that conduct to light through reflection [61].

Although we might be critical with the eventual commercial use of one of the symmetric cylindrical pavilions at the side of the entrance pond (Figure 44), in the end we recognise that Tadao Ando's formidable proposal evolves in the following sense: at first just intends to somehow conceal the towering Buddha which was found intimidating by the visitors. Later he arrives to an very keen solution of surrounding the statue with an artificial hill. Finally, upon the so-created volcanic cone, once it erupts, flowers of Mandala will rain as specified in the Lotus Sutra 雨曼陀羅華. These flowers should have been mysterias (Fuji 藤) but resulting impractical at this place he has substituted them with more resistant lavenders. It is a regal echo of mount Fuji (富士山) and a suitable crown for the Majesty of Death.



Figure 44. Side view of the black pool with cylindrical pavilion for the funeral urns.

5. Conclusions

With these results and discussion, we have brought to the surface how, in a somewhat remote region of Japan, imagined archeological vestiges have been put to work to create an attractive park with serves as an expansive green area and the same time satisfies the afterlife aspirations of the community. An artificial earthen shell that generates an open dome shrine has been executed. The renovated complex is provided with ceremonial access and other facilities intended for religious services. The intervention completed by Tadao Ando is successful as much as it is able to colligate purposes of architectural excellence with religious and teleological yearnings. It is remarkable the power of archeology to provide significance to funereal monuments that are in this way transformed into necropolises, cities of the dead. For instance, we know that Varanasi in India is a city to die in, to avoid reincarnation and the tiresome wheel of samsara. Still, we may wonder if the transition from life to death is operated smoothly in the cities we inhabit or rather the other way round, an enigmatic process that has inspired contemporary artists like Noguchi, Mishima, Turrell and Rodriguez-Cunill.

The latest realization at Takino introduces a new dimension of Buddhism ascetics, probably inaugurated by the Ajanta Caves in India, that is, the hidden grotto. In the manuscript we have

detailed how the evolution from the ceremonial tumuli to the Buddhist chaitya must have been a strenuous process involving years of planning and painstaking labor.

It raised when the adepts of the Buddha especially of the Lesser-Vehicle prevailing branches, at the times of monsoon weather for instance, could not reach out of their monasteries to preach or collect alms and therefore decided to work in the underground to spruce their halls of prayer and meditation. The tradition of showing the face of the Buddha unlike the adytum of Indian temples or the concealed Buddha represents the transition from Hinayana or esoteric Buddhism to the more social religiosity of the Mahayana which prevails now in Japan and Korea and at a former time in China. In Japan it appeared earliest at the Byôdoin Temple.

A revealing example of how this transition has operated in cosmological aspects of the project of the Hill, is that the original position of the Buddha at Takino faced as it was usual to the South but now it has turned to Northwest to mark the sunrise on the Summer Solstice.

At the time of completing the Hill of the Buddha project the promoters of Takino Park, faced another key decision as if to give a new entity and interest to the Stonehenge ring by having veiled the importance of the Buddha.

There was in Japan a historic period referred to as Sakoku 鎮国 or the “enchaîned country” in which no one was permitted outside the archipelago for any reason and that included the Japanese inhabitants themselves. Such extreme insularity has resulted to our minds in a bond with other isles no matter how remote. This would explain why the Moai from Easter Island and the Stonehenge circle have been brought forth to the collective imaginary.

The insight that the authors propose after studying Takino funereal park is that invoking archaeology is a powerful and cost-effective tool to establish a surefooted path of creation towards a more serene landscape architecture, which, in turn, renews the much desired link between human constructions and nature or, in other words, an alternate road to sustainability.

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