

Ani in Context Workshop

September 28–October 5, 2013
Kars, Turkey



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Ani in Context workshop participants—front row, left to right: Christina Maranci, Rachel Goshgarian, Maryam Jodeiererajaie, Duygu Erkan, Yaruz Özkaya, Armen Kazaryan. Back Row: David Kertmenyan, Philippe Dangles, Stephen J. Kelley, Felix Ter-Martirosov, Gizem Dörter, Karen Matrosyan, Samantha Earl, Alin Pontioğlu, Johannes Paludan-Müller, Carsten Paludan-Müller, Mark Weber, Regin Leithe Meyer, Ashot Manassian, Omer Karayagli, Predrag Gavrilovic.

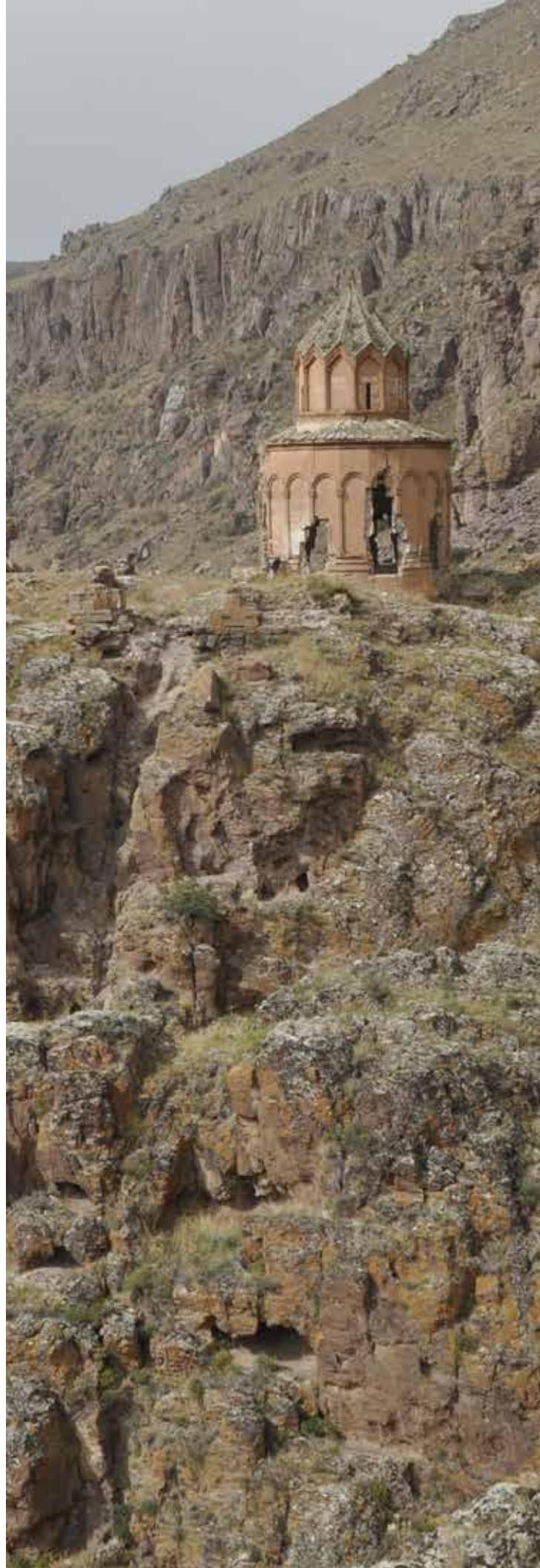
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Foreword

From September 28 to October 5, 2013, an international workshop called *Ani in Context* was convened in Turkey's Kars region. The workshop coincided with an increased interest in Ani since a 2012 initiative by the Turkish government to enter the walled medieval city on the tentative list for World Heritage.

The purpose of the workshop was to extend the focus to include other important heritage sites in the region with a relationship to Ani, and to assess current conditions, as well as the significance and preservation potential of the surveyed sites.

By gathering a team of experts from Turkey, Armenia, Russia, Macedonia, the United States, France, and Norway, it was possible to explore the sites through a number of expert lenses and thus develop a richer and more comprehensive understanding of the architectural heritage of the region. This report presents the main findings of the workshop, and includes some suggestions for possible follow-up activities.

The findings and recommendations of the report are structured around the following main parameters:

- Documenting individual sites to determine the historical, art historical (including architectural and epigraphical elements), and archaeological significance of each site or monument;
- Assessing risk levels for each site to determine current structural conditions and make suggestions, where feasible, for strategic interventions;
- Identifying local stakeholders and other related issues that are of importance for making decisions about the future management of the sites. The goal would be to create a sense of common interest for the preservation and management of these heritage assets, and in turn a vision for sustainable regional tourism around Kars.

The title of the workshop emphasizes context. This is by no means accidental. We are convinced that cultural heritage must be seen within its larger context and use a long-term perspective; this is the only way to fully integrate all of the values and interests that are attached to the rich heritage present in a region such as the one that surrounds Ani.

We see both tremendous potential and considerable challenges attached to this goal. One of the greatest potential outcomes is to develop some of the monuments and sites as a resource for



the local communities that surround them. This is an approach that will benefit both the monuments and the local communities by creating shared common interest in the preservation and sustainable management of these unique objects. On a larger scale, this can also encourage the development of a viable and sustainable tourism industry in the Kars region as a whole.

We also see great potential in emphasizing the richness and diversity of the history and cultural impulses that have shaped the region, where, for instance, we find masterpieces of early Christian architecture alongside Anatolia's earliest mosque. This diversity and sense of history's great tides converging have the potential to go well beyond a local audience and become fascinating and attractive to an international group of travelers.

As in many parts of the world with rich and abundant cultural heritage, the challenges are considerable. Preservation and sustainable management are not easily extended to every object that one would wish to preserve, and much has already been damaged beyond affordable repair. However, much still remains that could be saved for the future by an early but reasonable allocation of resources.

In the report we have tried to prioritize those sites that are particularly important, as well as those with issues that must be dealt with urgently in order to stabilize and safeguard them for the future.

It is our hope that this report can be used as a contribution and inspiration to supplement and encourage the ongoing work in the region and to secure its cultural heritage as an important resource for the future of the area surrounding Ani.

The workshop and this report have benefitted from a fruitful cooperation on an institutional level between Anadolu Kültür, World Monuments Fund, NIKU, Research Center for Anatolian Civilizations at Koç University, and in particular the Norwegian Embassy in Turkey, that so generously allocated the funds to make this initiative possible. We thank all involved for their enthusiasm and support.

Carsten Paludan-Müller
General Director, NIKU
Norwegian Institute for Cultural Heritage Research



Executive Summary

Between September 29 and October 4, 2013, site visits were realized in the Kars region. On October 5, the wrap up session was held in Kars at the Büyükkale Hotel where the participants stayed. The workshop was made possible with funding from the Norwegian Embassy in Ankara.

Goals of workshop

The purpose of the workshop was to convene an array of experts to review conditions and share knowledge of a series of important monuments historically linked to the walled city of Ani, most of which retain their architectural forms and features and bear testimony to Armenian tradition. The cultural landscape of the region surrounding Kars is characterized by these numerous historic structures and architectural remains, which enliven and complete Ani's rich history. It is a heritage that potentially could be developed into an economic asset for local communities.

On the first day of the workshop, the group visited Ani to familiarize itself with the site and to review the range of conservation issues that it presents. Of particular interest was the ongoing work at Ani Cathedral and Church of the Holy Savior (Surp Amenap'rkitch) that represents a collaborative effort between World Monuments Fund and the Turkish Ministry of Culture and Tourism. In 1996, WMF listed both sites as part of its Watch program to raise awareness and build advocacy on an international level. In subsequent cycles, WMF selected the sites for repeated inclusion, demonstrating both the urgent need and significant cultural importance of Ani.

Since inclusion in the Watch, WMF has undertaken and supported the documentation and conservation program that will result in the stabilization of Ani Cathedral and Church of the Holy Savior, as well as improved public presentation and interpretation of the Ani archaeological landscape. The interest of the Norwegian Institute for Cultural Heritage Research (NIKU) in Ani complements WMF's work and advocacy at the site and provided a powerful and valuable forum for expanding appreciation and international participation in the research and interpretation associated with the project.

The 22 sites that were visited were chosen for study because they are within the immediate vicinity of Ani, no more than an hour and a half away. Many of the monuments in question are of high cultural value, but in desperate need of remedial action. This heritage lies on both sides of the Armenian-Turkish border. This workshop focused on the monuments on the Turkish side.

Group methodology for report

While the field visits were exploratory and meant for gathering information and collaborative exchange, on the final day the entire group participated in an official wrap-up/closing meeting to refine lessons learned and determine next steps. The sites were reviewed, and a prioritized list was established that weighed historical significance and vulnerability as deciding factors in terms of recommended urgency of intervention. This ranking formed the basis of the *Risk Assessment Matrix* that is an integral part of this report.

The outcomes and results of the workshop were multifold. First, the workshop participants were able to establish a list of priority sites which are in need of immediate action. The Cathedral of Mren, Horomos Monastery, Tignis Fortress, and the monastic complex of Khtzkonk fall into the group's top-tier ranking for their combined significance and vulnerability, and it is these four sites that are recommended for first possible interventions, as elucidated in the section *Ani in Context: Introduction and Priority Sites*. In addition to generating a list of priority sites, the group decided to focus on Khtzkonk Monastery as a test case study (see Appendix A), detailing a multi-disciplinary assessment and formulating a list of suggested actions, including the exploration of options for income generation in the local community. Similar analyses could be performed on the additional sites in the future.

Through the site visits and the creation of the *Risk Assessment Matrix*, the workshop participants were able to generate an overview of the 22 sites that were visited, many of which are little-known. The *Risk Assessment Matrix* is strongly reflected in the brief *Site Survey*, and the two should be considered in tandem.

Risk Assessment Matrix

The *Risk Assessment Matrix* is considered a preliminary, cursory snapshot of the sites visited by *Ani in Context* team members. It is based upon the book *Risk Preparedness: A Management Manual for World Cultural Heritage* by Herb Stovel (ICCROM Rome 1998). All assessment work was visual only, and no exploratory investigative work (such as sondages or material sample testing) was performed. The time devoted to each site was two hours or less. If these sites are assessed further, it will be appropriate to re-evaluate the matrix. In addition, many of the sites were at one time composed of more than one structure, but where these structures no longer exist, they are not included. Cemeteries, mausoleums, and secondary structures were not the focus of the workshop, but these elements may be useful for further study on subsequent visits.

To create the *Risk Assessment Matrix* the visited sites were given numerical rankings from 1 to 25 for significance and 1 to 35 for vulnerability. These were based on a variety of established factors with the terms used in the significance rankings defined as follows:

- **Heritage significance:** How much previous research existed on the structure? Was the name of the building known?
- **Building form:** To what extent could the building's form be understood based on observations made from the exterior?
- **Exterior significant fabric:** How much of the (decorative) fabric remained on the building's exterior?
- **Interior significant fabric:** How much of the (decorative) fabric remained on the interior?
- **Archaeological remains:** From an archaeological standpoint, how significant were the remains that were found?

Using the rankings generated by the matrix, the sites were then grouped according to the urgency of intervention. The four sites that appear in Group 1 of the matrix, Cathedral of Mren, Khtzkonk Monastery, Horomos Monastery, and Tignis Fortress, are in need of immediate action.

Risk Assessment Matrix

| | | Significance | | | | | | Vulnerability | | | | | | | | |
|-----------------------------------|-----------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|------------------------|---------------------|------------------------|----------------------|------------|-----------------------|------------------|----------|---------------|----------------------|------------------------------|
| | | heritage significance | intactness of building form | exterior significant fabric | interior significant fabric | archaeological remains | Significance Rating | structural instability | difficulty of access | earthquake | wind and rain erosion | soil instability | flooding | anthropogenic | Vulnerability Rating | Significance + Vulnerability |
| Group 1—Requires immediate action | Horomos—Surb Minas | 5 | 4 | 4 | 4 | 5 | 22 | 5 | 4 | 5 | 5 | 1 | 4 | 5 | 29 | 51 |
| | Horomos—Surb Gevorg | 5 | 4 | 4 | 4 | 5 | 22 | 5 | 4 | 5 | 5 | 1 | 4 | 5 | 29 | 51 |
| | Cathedral of Mren | 5 | 4 | 5 | 5 | 5 | 24 | 5 | 5 | 5 | 5 | 1 | 0 | 5 | 26 | 50 |
| | Khtzkonk—Surb Sargis | 5 | 5 | 5 | 4 | 5 | 24 | 4 | 5 | 4 | 3 | 2 | 0 | 4 | 22 | 46 |
| | Horomos—Surb Yovhannes | 5 | 4 | 2 | 5 | 5 | 21 | 5 | 3 | 5 | 5 | 0 | 0 | 5 | 23 | 44 |
| | Horomos—Salle Abside | 5 | 3 | 2 | 5 | 5 | 20 | 5 | 3 | 5 | 5 | 0 | 0 | 5 | 23 | 43 |
| | Tignis Fortress | 4 | 3 | 3 | 2 | 5 | 17 | 5 | 3 | 5 | 5 | 2 | 0 | 4 | 24 | 41 |
| | Karmirvank | 4 | 5 | 4 | 4 | 5 | 22 | 4 | 3 | 4 | 3 | 1 | 1 | 3 | 19 | 41 |
| | Taylor Church | 4 | 4 | 4 | 4 | 5 | 21 | 5 | 2 | 5 | 5 | 0 | 0 | 3 | 20 | 41 |
| | Magazberd | 4 | 3 | 3 | 2 | 5 | 17 | 3 | 5 | 5 | 5 | 1 | 0 | 4 | 23 | 40 |
| Group 2—Possible eventual action | Bagnayr—Surb Astvatsatsin | 5 | 3 | 2 | 4 | 5 | 19 | 4 | 0 | 5 | 5 | 0 | 1 | 4 | 19 | 38 |
| | Oğuzlu | 4 | 2 | 4 | 3 | 5 | 18 | 5 | 0 | 5 | 5 | 0 | 0 | 4 | 19 | 37 |
| | Kızılvenk | 2 | 5 | 5 | 4 | 5 | 21 | 1 | 0 | 5 | 2 | 0 | 2 | 5 | 15 | 36 |
| | Bulanık | 3 | 2 | 2 | 1 | 5 | 13 | 5 | 3 | 5 | 5 | 1 | 0 | 3 | 22 | 35 |
| | Nakhichevan | 4 | 1 | 1 | 0 | 5 | 11 | 5 | 0 | 5 | 5 | 0 | 5 | 4 | 24 | 35 |
| | Uzun Church | 2 | 2 | 3 | 3 | 5 | 15 | 5 | 0 | 5 | 5 | 0 | 0 | 4 | 19 | 34 |
| | Horomos—“Triumphal Arch” | 5 | 2 | 2 | 2 | 5 | 16 | 3 | 1 | 3 | 5 | 2 | 0 | 3 | 17 | 33 |
| | Digor | 5 | 2 | 2 | 1 | 5 | 15 | 4 | 1 | 3 | 5 | 2 | 0 | 5 | 18 | 33 |
| | Erazgavors | 4 | 1 | 1 | 1 | 5 | 12 | 4 | 1 | 5 | 5 | 1 | 0 | 4 | 20 | 32 |
| | Shepherd's Church and Baths | 4 | 2 | 1 | 1 | 5 | 13 | 4 | 1 | 5 | 5 | 0 | 0 | 3 | 18 | 31 |
| Group 3—No action necessary | Zibni | 3 | 4 | 3 | 2 | 5 | 17 | 1 | 0 | 3 | 0 | 0 | 0 | 3 | 7 | 24 |
| | Bagaran—Fortress | 5 | 3 | 3 | 3 | 5 | 19 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 4 | 23 |
| | Bagaran—“Red” Church | 5 | 0 | 3 | 3 | 5 | 16 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 17 |
| | Bagaran—Surb Teodoros | 5 | 1 | 1 | 1 | 5 | 13 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 4 | 17 |
| | Argina | 5 | 0 | 1 | 1 | 5 | 12 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 14 |
| | Argo Aritch | 4 | 0 | 1 | 0 | 5 | 10 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 12 |
| | Alaman | 4 | 0 | 0 | 0 | 5 | 9 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 11 |
| | Agarak | 3 | 0 | 0 | 0 | 5 | 8 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 2 | 10 |

Ani in Context: Introduction and Priority Sites

Ani: a royal medieval capital, a center for Silk Route trade, a treasure of art and architecture, a romantic ruin. In the nineteenth century, European travelers were stunned by the quality and number of medieval monuments; today, Ani is recognized across the world as a cultural site of profound significance. Historians of medieval Anatolia and scholars of Armenian, Byzantine, and Islamic architecture have long studied Ani, and a vast bibliography has emerged. Ani has become a focus for projects of archaeological excavation and architectural preservation, and a destination for tourists. But is Ani an isolated phenomenon? What is beyond its walls? To what extent should Ani be understood within the broader cultural landscape of the Kars region? These questions are the focus of the recent workshop, *Ani in Context*.

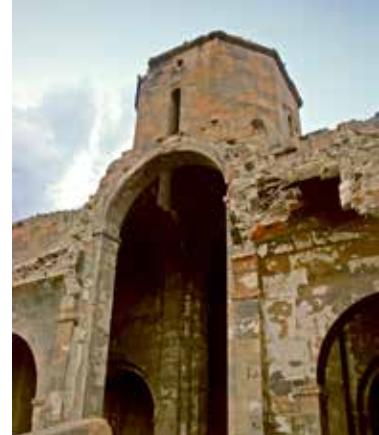


The results that emerged from the workshop show that 1) Ani is not isolated, but forms part of a rich network of medieval cultural heritage that extends throughout the Kars region; 2) this broader network has the potential for both tourism and local development; and 3) such development would hinge on the preservation of monuments that are in many cases perilously close to collapse. These points are exemplified by four monuments: the Cathedral of Mren, Khtzkonk Monastery, Horomos Monastery, and Tignis Fortress.



The Cathedral of Mren

The seventh-century Cathedral of Mren, located south of Ani, is one of the largest domed basilicas preserved from the medieval Caucasus. Mren is celebrated by Byzantinists and Armenologists as rare material evidence for the global wars of the seventh century, an era that witnessed the radical transformation of the political landscape of the Mediterranean and Near East. Mren preserves a unique image of the Byzantine emperor Heraclius, and mentions him in its west façade inscription. The Cathedral of Mren is also a key monument for understanding the architectural developments of the tenth and eleventh centuries at Ani. With its attenuated proportions and elegant profiled piers, it is often regarded as a source for the Cathedral of Ani. The royal Bagratid dynasty, who made Ani their capital in 971, also maintained a summer residence at Mren. Mren remained an active site in the thirteenth century, when a rich individual named Sahmadin constructed a large Islamic-style residence with formal relations to monuments at Ani. The Cathedral of Mren has the potential, therefore, to deepen our knowledge of the tremendous cultural heritage of the Kars region and to demonstrate the interconnected nature of its monuments. Yet the precarious condition of Mren must first be addressed. In 2008, the entire south wall of the church collapsed; now the northwest corner has begun to crack, and the Heraclius lintel is no longer supported from below. The significance of the monument and its unstable condition have recently been acknowledged by World Monuments Fund (WMF), which has included it on its 2014 World Monuments Watch. It is vital that Mren be preserved, not only for world history and architecture, but also for the touristic opportunity it holds for the Kars region.

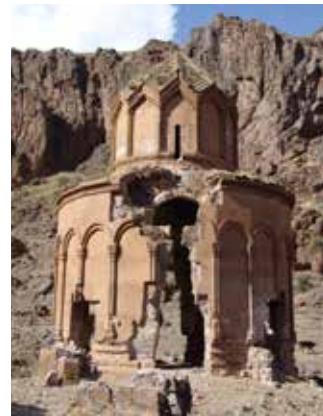


Khtzkonk Monastery

The monastic complex of Khtzkonk is situated on a dramatic promontory overlooking the Digor River valley. Surb Sargis (founded 1029), the only surviving church of the complex, is a striking rotunda, elevated on a stylobate, wrapped in engaged semi-columns, and topped with a rare example of an umbrella-style cupola. In its composition, Khtzkonk Monastery bears precious



evidence for the formation and expansion of the architectural school of Ani. Ani Cathedral and other contemporary monuments call attention to the exterior planes of the building through a coherent envelope of engaged columns and arches. Khtzkonk is a particularly refined example of this phenomenon. The exterior of the church, moreover, is covered in inscriptions that record the many donations to and restorations of the monastery. These texts demonstrate the social, political, and economic interconnection of the elites in the region: indeed, one indicates the gift to the monastery of a vineyard at Mren. With its architectural and decorative features, and its extraordinarily picturesque setting in the landscape, Khtzkonk holds great potential to attract tourism to the region. Yet Surb Sargis, like Mren Cathedral, is no longer structurally stable. Experts in structural engineering and seismology, participants in our workshop, have concluded that emergency measures must be undertaken ensure the safety of tourists and the preservation of the building.



Horomos Monastery

The monastery of Horomos is located ten kilometers north of Ani. It consists of upper and lower monasteries, which were accessed by an extraordinary and unique triumphal arch. Founded in



the tenth century, Horomos is a treasure of architecture, featuring ecclesiastical, memorial, and monastic spaces, several unique decorative and architectural elements, and a range of building styles dating from the tenth to the thirteenth centuries. The gorgeous setting of this site, on a bluff overlooking the Akhuryan/arpaçay River, only enhances its architectural characteristics. Given its size, its royal Bagratid associations, and its strong presence in medieval chronicles, it is thought to be the most important monastery in the vicinity of Ani. The antechamber—or *zhamatun*—of the main church of Upper Horomos is the best known building at the site. Dating to circa 1038, it is regarded as the earliest preserved example in Armenian architecture of a monastic structure attached to the façade of the church. It is also a building of tremendous architectural virtuosity, featuring a flat, stone-paneled ceiling and an open cupola, both with elaborate decoration. As with Khtzkonk Monastery and Mren Cathedral, this structure is in danger; our experts made note of a series of structural problems with the antechamber, including the instability of the cupola. As a whole, Horomos Monastery presents both an opportunity for projects of preservation and the possibility to develop a supremely picturesque tourist site.

Tignis Fortress

The monuments preserved in the territory of Kars include examples of medieval military architecture. The walls of Ani are surely the best known of this genre, but the citadels and urban fortification of Kars and Bagaran and the smaller fortresses of Magazberd and Tignis prove that Ani was not an isolated case, and attest to the history a region coveted by various invaders. The

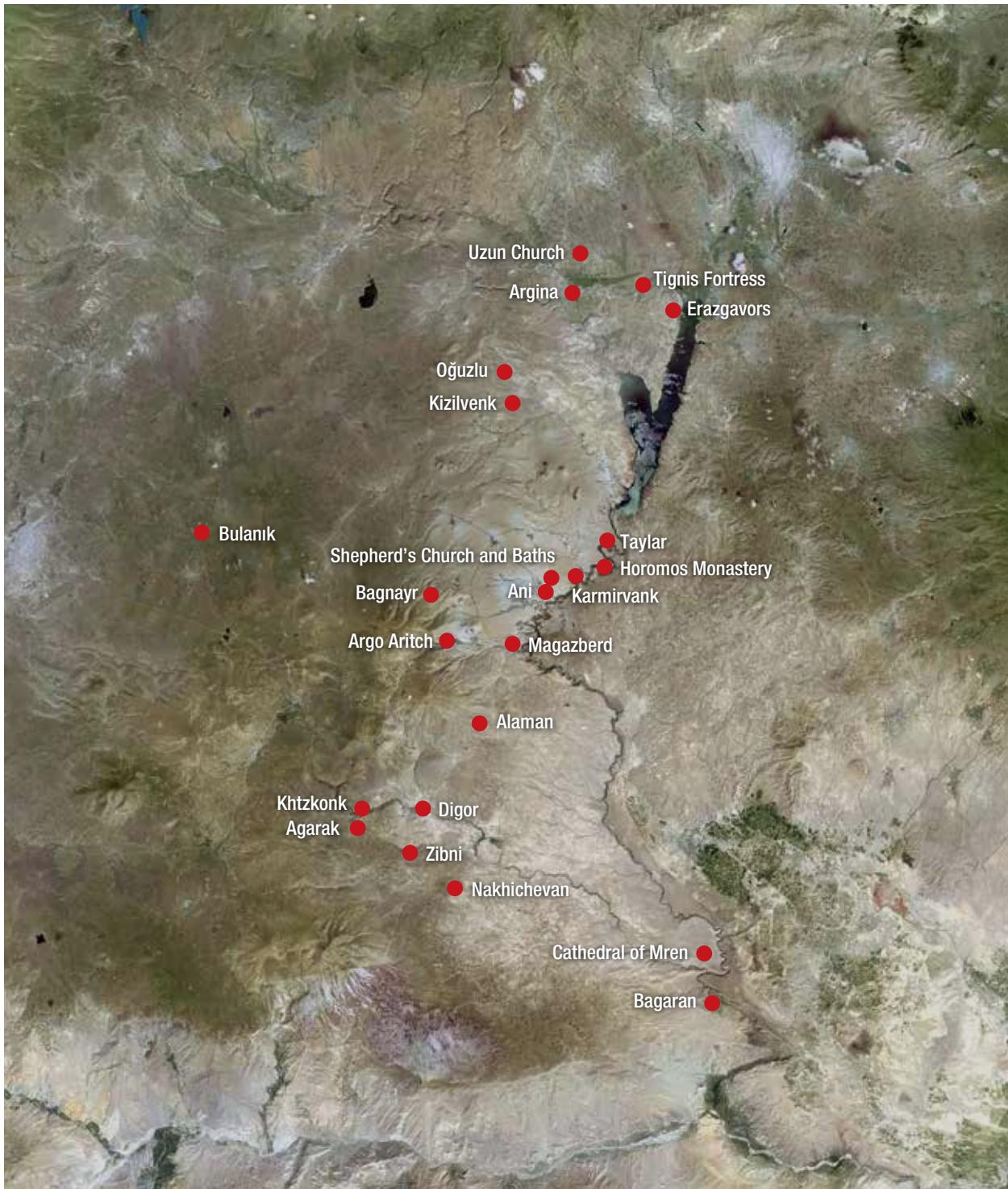


fortress of Tignis, overlooking the village of Kalkankale, preserves parts of both inner and outer circuit walls, towers, and evidence for chambers within the towers. Its history remains largely unknown. The fortress certainly presents an impressive, if fragmentary, sense of the power of military architecture: the remains are quite tall. Unfortunately, they are also unstable. A large part of it has been lost since the beginning of the twentieth century, and it is thought that what remains of this magnificent site will disappear if structural measures are not soon undertaken.

Christina Maranci

*Arthur H. Dadian and Ara T. Oztemel Associate Professor of Armenian Art
Tufts University*

Map of Sites Surveyed



Included in the following survey is the registration status of each site. “Registered” cultural heritage sites and monuments are those that embody characteristics of the period they pertain to and are identified as cultural property, taking into account their history, art, and region. Following identification, the property is registered by the Regional Council for Conservation to be protected, to the extent possible, by the state. For more information on monument registration and protection, see <http://www.kulturvarliklari.gov.tr/TR,43249/law-on-the-conservation-of-cultural-and-natural-propert-.html>.

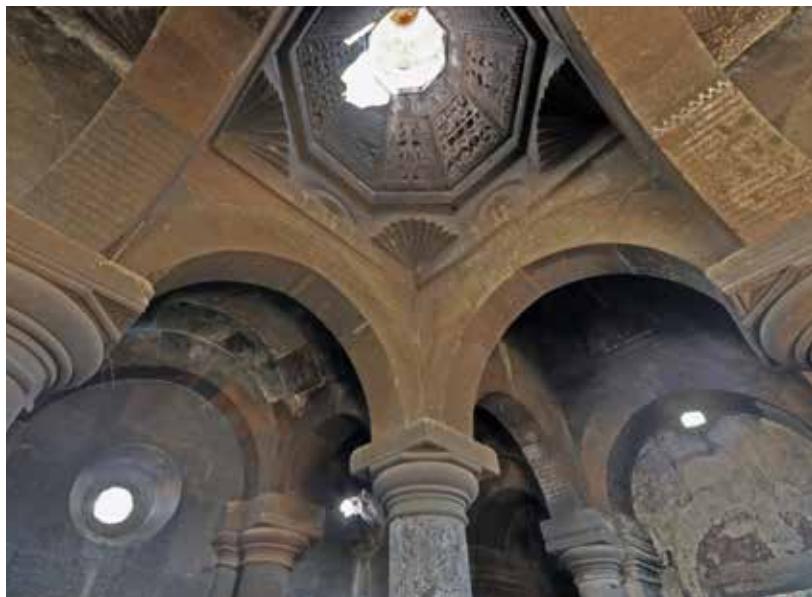
Risk Assessment Matrix Group 1

Horomos Monastery

10th–13th centuries

Site Description and Significance

Horomos was perhaps the most important monastery in the vicinity of Ani, the medieval capital of Armenia. The complex of monastic buildings of Horomos is one of the largest in medieval Armenia and the whole of the Christian east. It consists of Surb Minas, Surb Gevorg, Surb Yovhannes zhamatun, Salle Abside, and the “triumphal arch.” It is an exceptional architectural ensemble that is also admired for its magnificent setting on the natural landscape. There is rich information about the origins and development of the monastery in historical documents and on the epigraphy that lines the walls of numerous monastic buildings.



LOCATION AND ACCESSIBILITY

Merkez/Central District

N 40.519818, E 43.62925

The architectural ensemble is located roughly 10 kilometers north of Ani, on the northwest bank of Akhuryan/Arpaçay River. The complex of Horomos is accessible by vehicle, followed by a half-hour walk each way.

REGISTERED

Condition

The buildings were already in need of repair in the early twentieth century. After decades of natural deterioration, vandalism to the walls, and illegal excavation, they are now in a state of disrepair.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. Some of the smaller constructions of the complex have already disappeared, and the other structures need immediate and extensive stabilization and restoration.





Cathedral of Mren

7th century

Site Description and Significance

Constructed in A.D. 638, at the height of the Byzantine-Persian wars and the start of the Arab conquests, Mren is a touchstone of a world ravaged by conflict and the fruits of collaboration among diverse political constituents. Historians of Armenia, of the late Roman and Persian empires, and of early Islam have studied its inscriptions and sculptures for precious insight into this poorly documented era. At the same time, scholars value Mren as a canonical monument of the “Golden Age” of Armenian architecture, as the largest preserved

domed basilica from seventh-century Armenia, and as an inspiration for the celebrated nearby Cathedral of Ani (A.D. 989). At the same time, Mren is cherished by Armenians internationally as part of their cultural heritage.



LOCATION AND ACCESSIBILITY

Digor District

N 40.24123, E 43.66160

The abandoned Cathedral of Mren stands on a high plateau bordered at the east and south by the Akhuryan/Arpaçay River valley and by a dry gorge to the west. The closest villages are Kilitaşı (3 kilometers due south) and Karabagh (5 kilometers to the west). Mren lies in a military zone and is currently not accessible to the public.

REGISTERED

Condition

Satellite images reveal that Mren is surrounded by an extensive archeological site. On the cathedral itself, there is graffiti and signs of illegal excavations.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. World Monuments Fund included the Cathedral of Mren on its 2014 World Monuments Watch to underscore the extreme urgency of the situation. The south façade has already collapsed and the remainder of the structure is in a very fragile state.

Khtzkonk Monastery

9th–11th centuries

Site Description and Significance

The origins of the monastery date to the post-Arab era, when the first church, Surb Karapet, was built. The monastery had a total of five churches: Surb Karapet, Surb Astuacacin, Surb Stepanos, Surb Gregory, and Surb Sargis, all of which were domed and carefully built out of finely cut stone. Today, only the church of Surb Sargis remains standing.



LOCATION AND ACCESSIBILITY

Digor District
N 40.380384, E 43.376399

Khtzkonk Monastery is not accessible from the road. For access to the site, one must travel west from Digor's town center, through the gorge, for approximately 4.5 kilometers. Alternately, one can access the site directly from Agarak. The descent is more difficult but the total travel time is significantly reduced using this route.

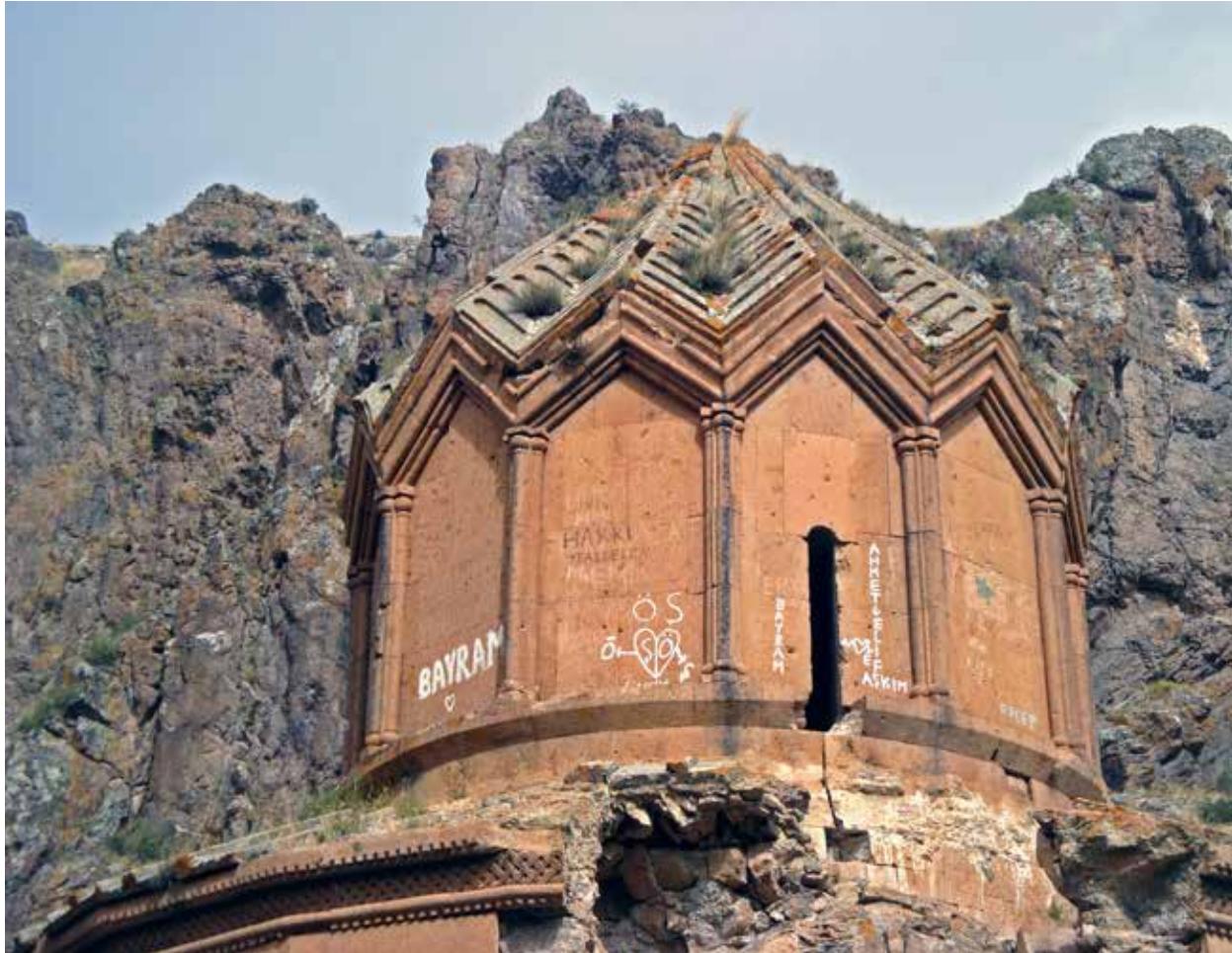
REGISTERED

Condition

There are signs of illegal excavation and fire inside the church and there are significant amounts of graffiti on the walls.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. At present the building is not safe for any purpose including tourist visits, and access to the monument should be prohibited. Emergency measures are necessary to stabilize the structure, followed by more in-depth restoration work. For a more detailed explanation, see Appendix A: Khtzkonk Monastery Assessment.





Tignis Fortress

12th–13th centuries

Site Description and Significance

Tignis is close to Shirakavan, home to the Bagratid princes in the ninth century before the capital was transferred to Ani. At an altitude of roughly 1,500 meters, the fort occupies the edge of a plateau overlooking the valley of the Karakhan çay, a meandering tributary on the west bank of the Akhuryan/Arpaçay River. The remains of Tignis reveal a homogenous, rectangular fort with a regular plan; longer sides face the valley in light of a possible attack. The building technique and materials are typical of medieval structures in the region. It does not appear that Tignis was defending an urban settlement of any kind, but rather was used as a fortified granary or watchtower overlooking a vast and fertile agricultural area.

LOCATION AND ACCESSIBILITY

Above Kalkankale village, Akyaka District
N 40.713338, E 43.71631

Tignis is located approximately 25 kilometers north of Ani, and less than 3 kilometers northwest of the former city of Shirakavan. The site is easily accessible by a dirt road.

REGISTERED



Condition

The fortress is in a ruinous state but some large wall sections remain standing.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. The wall sections that remain standing require urgent attention in order to stabilize them. The structure should be propped in areas where the support walls are missing as an emergency measure until more permanent repairs can take place.

Karmirvank

10th century

Site Description and Significance

Nothing is known about the origin of the church and the monastery, though the walls of the church have inscriptions that elucidate Ani's history in the thirteenth century. The church's plan exhibits the reduced variant of a "domed hall" type, with one western pair of under-dome pylons. It is inscribed in a very compact, roughly square, volume. A cylindrical drum stands over the arches and pendentives. Two pastophories with absidioles are located in the eastern corners and open into the naos. The west façade is highly articulated with moldings. Khachkars inserted in the western facade are typical for the last decades of the tenth century. Monastic buildings, and probably the refectory, were situated southwest of the church.



LOCATION AND ACCESSIBILITY

*At the end of a gorge 2 kilometers north of Ani, Merkez / Central District
N 40.51455, E 43.601308*

Karmirvank is situated just to the east of Ani in the picturesque gorge of the Akhuryan/Arpaçay River. The only possible access to the site requires a 30–40 minute walk down the gorge.

REGISTERED

Condition

The condition of the buildings has rapidly deteriorated in the recent past. As recently as the early twentieth century, the buildings were in considerably better condition than they are currently. Although the roof remains intact and the church is still standing, there is extensive damage, including serious destruction on the west and south façades, where the lower parts of these walls were completely destroyed. Of the monastic buildings located southwest of the church, only walls are partially preserved.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. The church needs urgent restoration. Most pressingly, the structure should be propped up in areas where the support walls are missing as an emergency measure until more permanent repairs can take place. Other monuments of the ensemble are also in need of conservation.





LOCATION AND ACCESSIBILITY

Merkez / Central District

N 40.537294, E 43.637732

Taylor Church is situated next to the village of Taylor, roughly 2 kilometers northeast of Horomos, on a high bank of the Akhuryan/arpaçay River. The church is framed by a canyon on all sides except one, where a wall with an arched gate was constructed. The site is accessible by car.

NOT REGISTERED

Taylor Church

10th century

Site Description and Significance

The plan of Taylor Church represents the Armenian “domed hall” on a smaller scale and in new proportions. Unlike mainstream examples, which depict the evolution of this architectural type in Bagratid times that show the eastern pair of pylons verged on the apse, the architect of Taylor reversed the traditional interpretation and situated the dome over the

center of the naos. As a result, the dome’s position on the exterior is slightly displaced from the center of the main volume to the west.

Condition

The structure is in a dangerous condition. There is serious damage on the southern and eastern support walls and the vault’s close-domed square is completely collapsed. The surfaces are marked with graffiti and the presence of small holes suggests that guns were fired at the walls. There are also indications that the site was previously used as an animal shelter.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. The monument needs urgent and complete restoration. The structure should be propped in areas where the support walls are missing as an emergency measure until more permanent repairs can take place.





Magazberd

5th century /10th–13th centuries

Site Description and Significance

Magazberd consists of a small fortress protecting a ford on the Akhuryan/Arpaçay River, and a large urban fortified settlement above it. The city may have existed as early as the late fifth or early sixth century.

The existing structure of the fortress is most likely contemporary with the walls of Ani (tenth to thirteenth centuries and later). The main surviving part of the fortification consists of a double wall on its northern side, furnished with three closely set semi-circular towers. The plan of the inner and outer walls closely recalls that of the northern walls of Ani. In the territory of the settlement remain the ruins of several buildings and a large cistern.

LOCATION AND ACCESSIBILITY

Digor District
N 40.475624, E 43.541173

Magazberd is located within a military zone, 1.5 kilometers from a military base, and is therefore inaccessible.

REGISTERED



Condition

The site could not be accessed close up and therefore could only be inspected from one side at a distance of about 300 meters. The gate that is flanked by towers appears to be intact and the walls of the fortress are in relatively good condition. The settlement, however, is ruined. It was previously used as a garrison for the Turkish army and both the settlement and fortress are closed to visitors. A more detailed assessment of the condition can be determined after a visit and analysis by experts.

Urgency and Recommended Action

Matrix Group 1—Requires immediate action. Permission should be sought to inspect the fortress close up and to plan for long-term maintenance.

Risk Assessment Matrix Group 2

Bagnayr

10th–14th centuries

Site Description and Significance

Together with Argo Aritch, Karmirvank, and Horomos, Bagnayr was one of the ecclesiastic and cultural centers closest to Ani. It consisted of a large group of interrelated buildings and two separate churches. The main building of the complex is the large, domed hall of Surb Astvatsatsin Monastery, built between the tenth and eleventh centuries. One of the separate churches, Küçük Kozluca Church, also remains standing.

LOCATION AND ACCESSIBILITY

Kozluca, Digor District
N 40.512735, E 43.484026

The remains of the complex are located to the west of Ani, at the slope of Mount Alaga (ancient Argo Aritch), near the small Kurdish village of Kozluca Gulica (former Bagnayr). The two separate churches stand roughly 200 meters to the northwest of the main ensemble.

REGISTERED

Condition

Photographic evidence from the early twentieth century shows the large complex of monastic buildings intact but damaged. In the decades since the middle of the century, however, most of the structures have deteriorated and have been lost. Currently, only one of the original buildings, Küçük Kozluca Church, remains more or less preserved. This six-foil domed church has lost all of the coverings, and almost all of the exterior stone blocks have been scavenged, but the structure remains intact. At the primary building of the complex, Surb Astvatsatsin Mon-

astery, the eastern and northern walls remain along with two columns and the ceilings of the eastern nave of the zhamatun, allowing us to understand the original design.



Urgency and Recommended Action

Matrix group 2—Possible eventual action. Küçük Kozluca Church, along with the zhamatun of the main part of the ensemble, is in need of urgent restoration.





Oğuzlu

9th–11th centuries

Site Description and Significance

A late-ninth-century inscription mentions the donor, Prince Hasan Gntuni, who was a commander of the home of King Smbat Bagratuni according to the chronicle of Catholicos Hovhannes Draskhanakertsi. The church bears a slightly unusual plan that represents a compromised solution between the “domed hall” and inscribed three conchs, the result of which is that the space of the western arm was widened by large niches. Vertical moldings formed the supports under the domes, and the articulation of perspective arches corresponded to them. This feature was then developed in the works of the architect Trdat in Ani.

Condition

It is not clear if the remains of the partially standing church are registered or not. After medieval repairs, the church remained in good condition until the 1950s when it was partially blown up and most of the destroyed portions were removed from the site. Among the removed portions was a unique relief over the south doorway. Presently, only portions of the walls remain standing. There are signs of illegal excavation around the church and the walls have holes in them, indica-

tive of people looking for treasure. Near the church, a typical structure for oil production is visible, although it is not clear if it is contemporary or later than the church or if it is still used. Beside the church there is also an area known as “giant’s graves,” which features stele-type stones lying in the field.

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. The site of the church requires excavation and the preserved part of the building needs conservation.



LOCATION AND ACCESSIBILITY

Yağkesen, Merkez / Central District
N 40.475624, E 43.541173

The church is located in the eastern part of the village of Yağkesen, in a private yard.

REGISTERED

Kizilvenk

10th–13th centuries

Site Description and Significance

The main space of the cross-domed church and the additional chapels in its four corners are compressed into a compact, almost square, volume. A cylindrical drum stands over the arches and pendentives. The western façade features a monumental portal and the other walls have pairs of niches.

Condition

The building suffered damage during the 1877 Russo-Turkish War, but was repaired during the 1880s, according to the inscription on the tympanum over the doorway. Currently, tiles of the roofs are damaged, and some cracks are present. The building is presently used for storage, and on one elevation, animal manure has been stacked against the wall. All of the windows are closed and the rest of the structure is sealed from unwanted intrusion.

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. It is necessary to clean the church from recent local activity. Repairing parts of the walls and the roof will most likely be necessary in the coming years.





Bulanık

7th century

Site Description and Significance

The history of the church is unknown, but the structure can be described as a simple three-conch layout, typical of seventh-century Armenian churches. Remnants of doors exist on the western and southern exedrae, as well as a door on the eastern end of the northern exedra which, as an exceptional solution, is adjoined to the apse.

Condition

The building is ruined and the fragments are in a dangerous condition. Nevertheless, the floor plan and the main shapes of the arms of the cruciform structure are distinguishable. The ruins consist of part of the preserved window archivolts with carving.

LOCATION AND ACCESSIBILITY

*"Yayla" of Haciveli and Hamzagerek villages,
Merkez / Central District
N 40.557064, E 43.374943*

Bulanık is located between the villages of Bulanık and Haciveli, approximately 8 kilometers from Bulanık via Subatan. The ruins are in the *yayla*, or summer settlement, of the village of Haciveli. Situated 2 kilometers from Bulanık, the best route of access to the ruins is from the town itself, where a dirt road leads away from the main road from Kars to Ani. The crossroad is 10 kilometers from Kars. The walk from Bulanık or Haciveli is roughly 45 minutes or a tractor can be used for access from Bulanık.

NOT REGISTERED



Urgency and Recommended Action

Matrix Group 2—Possible eventual action. The ruined church requires conservation.

Nakhichevan

5th–7th centuries

Site Description and Significance

The early Christian complex consists of the church and the mausoleum. The passage (which also contains a tomb) leading into the mausoleum has an inscription about Prince Artavazd Kamsarakan, who is buried there. The Kamsarakans were the family owners of Shirak and Arsharunik, two important provinces of the Ayrarat land of Greater Armenia until the eighth century. The church also contains a single-line inscription with letters typical of seventh-century Armenian epigraphy and the local school has spolia from the church with inscriptions and decorations dating from the same period.

Condition

Sometime in the 1880s the locals incorporated the half-preserved church into a new one, and it remained in this condition until 1920. Today, after being mostly destroyed, only remnants from

the rubble of three pylons are preserved. The mausoleum has an entrance underground but it is currently filled with mud.



Urgency and Recommended Action

Matrix Group 2—Possible eventual action. The site requires archaeological investigation. Remains of the church's pylons must be preserved, and the mausoleum needs conservation.



LOCATION AND ACCESSIBILITY

Kocaköy, Digor District
N 40.288823, E 43.458006

The Church of Surb Stepanos Protomartyr and the mausoleum are located in the village of Kocaköy on the right bank of the Digor River. The site is accessible by car.

REGISTERED

Uzun Church

10th–11th centuries

Site Description and Significance

There are few historical sources pertaining to this “domed hall” church. Several decades ago its unusually long plan was preserved, a feature reflected by its modern Turkish name, Uzun Kilise.

LOCATION AND ACCESSIBILITY

Esenyayla, Akyaka District

N 40.743095, E 43.652065

Uzun Church is located northeast of Kars, between Argina and Tignis. It is accessible by car.

NOT REGISTERED



Condition

The structure is in a dangerous condition with only two walls partially remaining.

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. What remains of the church requires conservation work. The structure should be propped in areas where the support walls are missing as an emergency measure until more permanent repairs can take place. The surviving part of the monument needs to be measured and archaeological excavation at the site is also necessary.





Digor

5th century

Site Description and Significance

The date of the church's construction and dedication to Surb Sargs in 480 were fixed on the now-lost foundation inscription. It is the first known cross-domed church, with four pylons under the dome, and therefore plays a significant role in helping to better understand the development of Eastern Christian architecture. The church had several interesting architectural shapes, including a large poly-step platform, monumental portals, a row of half columns, and rich carving decoration.

Condition

The church was partially damaged by an earthquake at the end of the nineteenth century and it was later completely demolished, probably in the 1950s. Little remains of the church, which has been scavenged by the village. Currently, only the rubble core of a single wall remains, used to house chickens and other possessions belonging to the villagers. There are also signs and stories of illegal excavations.



LOCATION AND ACCESSIBILITY

*Digor, Diger District
N 40.37501, E 43.41212*

The village of Diger is located 22 kilometers southwest of Ani, accessible by vehicle. Within the village, remains of the large church are situated on the hill on the northwest part of the settlement.

REGISTERED

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. The territory of the former church needs to be cleaned from villagers' household activities and undergo archaeological examination. Remains of the church need delicate conservation and the structure should be propped in areas where the support walls are missing as an emergency measure until more permanent repairs can take place.

Erazgavors

9th century

Site Description and Significance

Erazgavors was a medieval settlement consisting of a cathedral and a number of other churches. In 890, King Smbat I Bagratuni moved the royal center from Bagaran to Erazgavors, and it was the capital of the Bagratuni kingdom until 928, when Abbas Bagratuni moved it to Kars. In the nineteenth century, the

Armenian-populated village of Bash-Shoragyal existed in the same territory.



LOCATION AND ACCESSIBILITY

Çetindurak, Akyaka District

N 40.695509, E 43.738883

The ancient settlement is located roughly 25 kilometers northeast of Ani, near the border of the village of Kalkankale. The settlement was built at the confluence of the Akhuryan/arpaçay and Kars rivers, and the village and monuments are now partially under the waters of the Akhuryan/arpaçay dam. The site is accessible by vehicle via the D060 road.

NOT REGISTERED

Condition

With the exception of the dome, the church remained standing until the 1950s, at which point it was demolished. Now, only several walls and fragments of the pylons and the part of the western façade, including the window archivolt, are visible.

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. Parts of the monument that were previously preserved are, once again, in need of conservation work.





LOCATION AND ACCESSIBILITY

Ocaklı, Merkez / Central District
N 40.519749, E 43.575054

Shepherd's Church and Baths is located just outside of the northern walls of Ani and is accessible by a 20-minute walk.

REGISTERED

Shepherd's Church and Baths

11th–13th centuries

Site Description and Significance

The few remains of the Shepherd's Church and Baths are situated within agricultural land and fields. According to archival photographs and measurement made by nineteenth-century architect Toros Toramanian, the floor plan presented a star-like structure as a hexagram space inscribed into the 18-point outside silhouettes. This first story, presumed to be a memorial hall, was the base of the domed chapel. Outside, the monument had a three-storied composition.

Condition

All that remains of the church and baths are the foundations, part of the northern side of the first-story wall, and the lower portions of two of the eight pillars that originally composed the walls. There are signs of illegal excavation on the outer side of the foundation walls.

Urgency and Recommended Action

Matrix Group 2—Possible eventual action. The site needs archaeological examination, the remains of the building must be conserved, and the structure should be propped in areas where the support walls are missing as an emergency measure until more permanent repairs can take place.



Risk Assessment Matrix Group 3

Zibni

7th–10th centuries

Site Description and Significance

The small cross-plan domed church of Zibni is largely missing from historical sources, although some of its features were of interest to early twentieth-century scholars. Of particular note were the large reliefs of a lion and a bull, although now they are known only through photographs. The plan of the church is similar to that of a large group of Armenian cross-form churches of the seventh century, but carved frames of the windows permit comparison with the works of the Ani school from the tenth century.



Condition

Older residents of the village remember the church, which was destroyed around 1935 by an earthquake. It was later repaired to be used as a mosque, although the carvings and inscription on the outer walls remain. In an effort to protect the monument, the villagers recently renovated it, covering the interior with wood, but part of the accompanying cemetery was demolished during the road construction.

Urgency and Recommended Action

Matrix Group 3—No action required.



LOCATION AND ACCESSIBILITY

Varli, Digor District

N 40.326033, E 43.407473

Zibni is located in the village of Varli, south of Digor, and is accessible by vehicle. On the hill, to the west of the former church, there is an expansive ancient cemetery with large graves.

REGISTERED



LOCATION AND ACCESSIBILITY

Kilittaşı, Digor District
N 40.216853, E 43.660681

The ancient settlement of Bagaran is situated on the west bank of the Akhuryan/arpaçay to the southeast of Ani and 4–5 kilometers from Mren, in the village of Kilittaşı, 6 kilometers east of Kars on the İğdır road. The church of Surb Teodoros stood at the eastern end of the settlement. Another church, probably built at the end of the tenth century and known according to the description of nineteenth-century architect Toros Toramanyan, was situated under the fortress, in the western portion of the settlement. The nineteenth-century church is located on high rocks at the northern end of the fortress. On the rock ledge of the opposite riverbank, on the Armenian side of the border, only one medieval church remains preserved.

REGISTERED

Bagaran

2nd century B.C.–A.D. 19th century

Site Description and Significance

The name Bagaran supposedly derives from the pre-Christian religious center in town that dates from the second century B.C. After receiving the Armenian title “Ishkhan,” Ashot Msaker Bagratuni founded his residence there. During the ninth century, Bagaran was an important religious and administrative center of medieval Armenia and the burial place of the Bagratuni family. The best-known structure of Bagaran was the church of Surb Teodoros (c. 624–631), which has been completely demolished.

Condition

An astonishing amount of the ancient settlement’s walls are intact, and they were most likely used during the medieval period. Cross reliefs are visible on some stones. Surb Teodoros is largely ruined and only consists of remains of the walls with two courses of masonry. The tenth-century church is not preserved. The existing walls of the nineteenth-century church include two reused large and elegant thirteenth-century khachkars.

Urgency and Recommended Action

Matrix Group 3—No action necessary. The fortress at the western end of Bagaran remains mostly standing, while the rest of the structures of the medieval town are archaeological remains. Archaeological investigations of the entire territory, settlement, and fortress, seems necessary. The settlement and fortress have not been measured and remains of the fortress and the nineteenth-century church need conservation. The remains of Surb Teodoros also require excavation and conservation.





Argina

10th century

Site Description and Significance

In the tenth century, Argina was one of the most important centers of the Bagratid kingdom. In the time of catholikos Ananis Mokatsi, the patriarchal see was relocated here from Aghtamar Island and it remained in Argina until its next relocation to Ani

LOCATION AND ACCESSIBILITY

*Kayaköprü, Akyaka District
N 40.720234, E 43.643421*

The ancient settlement of Argina is located 24 kilometers to the northwest of Ani, near Kayaköprü village. It is accessible by vehicle via the D060 road.

REGISTERED

in 1001. According to Stepanos Taronatsi (also known as Asoghik), the architect Trdat designed the cathedral and three other churches of Argina, as well as the reconstructed patriarchal palace.

Condition

The church was mostly demolished in the 1950s/60s. Part of the northern apse was preserved, and some ornamentation and detailing can still be seen on the remaining stones. Local residents tried to prevent the demolition because, at the time, the church was used to store hay and, according to some, the space could hold up to 300 tons. There is currently an oil production facility at the site.

Urgency and Recommended Action

Matrix Group 3—No action necessary. The church is virtually nonexistent but archaeological investigation would be beneficial.



Argo Aritch

10th century

Site Description and Significance

The monastery was likely founded during the Bagratid period but the earliest date on the remaining inscriptions is 1207. In 1211, Haghbat's Gospel, the only known gospel fully written in Ani, was presented to Argo Aritch Monastery by the priest Sahak, who notes that his ancestors constructed a church here.



LOCATION AND ACCESSIBILITY

Alaca, Digor District

N 40.484641, E 43.490119

Argo Aritch is located within Alaca village, 7 kilometers west of Ani, 2.5 kilometers from Üçbölük. The monastery remains are located on the eastern slope of Mount Argo Aritch (later Alaga), on the edge of a small gorge. Because the site is situated within the village, it is easily accessible by car.

NOT REGISTERED

Condition

Argo Aritch features ruins high along the stream with part of the monastic wall still in existence. There are, however, multiple signs and local stories of illegal excavations.

Urgency and Recommended Action

Matrix Group 3—No action necessary. The buildings have been demolished and only a limited amount of remnants and khachkars have endured.



Alaman

7th century

Site Description and Significance

According to a single-line epigraphic description, the church at Alaman was built by Grigor Eghustr and his wife Mariam when the emperor Heraclius was 27 years old, in the times of Narseh, the overlord of Shirak and Arsharunik, and Teopighos, the bishop of Arsharuneans. This description was located on the south façade of the apse and sat level with the bottom of the altar window.



LOCATION AND ACCESSIBILITY

Alem, Digor District

N 40.427357, E 43.509935

The village of Alem is situated on the south slope of the Alaja mount, to the south of Ani along the old route to Digor. It is 7 kilometers southwest of Üçbölük and can be reached by vehicle through the Kösele village or through Kars, via the İğdir road. The structure was never found, but if it was located in the village, as suggested, it is 11 kilometers to the northeast of Digor from the Kars-İğdir road.

NOT REGISTERED

Condition

Until the early twentieth century the church was still in existence, albeit with some damage to the portals and the outer facings, and missing a section of the roof. In the 1960s, the church was demolished, and today almost nothing remains.

Urgency and Recommended Action

Matrix Group 3—No action necessary. Nothing remains of the church in the village. It could not be located and locals gave conflicting information on its previous location.





Agarak

5th–7th centuries

Site Description and Significance

Agarak was an early Christian complex that consisted of two churches: a single-nave basilica and a tetraconch called Surb Stepanos Nakhavka. The village contains several ancient building remains, and it has been suggested that there was a castle and town here in pre-Bagratid times.

Condition

Today, both churches are demolished and the remaining stones are scattered on the site. In the field near the road leading from Digor to Derinöz, some of the foundation walls remain visible. Part of an ancient cemetery with several gravestones still exists on the hill to the west of the complex. There are indications of illegal excavations at the site by the remaining wall foundations.



LOCATION AND ACCESSIBILITY

Derinöz, Digor District
N 40.371463, E 43.371209

The ancient settlement is located near the gorge of the Digor River, on the ancient road between Nakhchevan and Digor. Agarak is accessible by vehicle as it is near the road going from Digor to the village of Derinöz. Alternately, it is a half-hour walk from Khtzkonk Monastery, located on the same ancient road.

REGISTERED

Urgency and Recommended Action

Matrix Group 3—No action necessary. It is likely that the stones of the old church were reused in the construction of the nearby village of Derinöz. An investigation and survey of the walls in the village might be useful in the future.

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Appendix A: Khtzkonk Monastery Assessment

As a pilot test case, the *Ani in Context* group members decided to focus on Khtzkonk, composed of a remarkable church—Surb Sargis (Sergius)—and the remains of a monastic ensemble from the ninth to eleventh centuries, perched high above a rocky gorge, and located 2 to 3 kilometers west of Digor. Khtzkonk is also on a half-hour walking route from the ancient village of Agarak, and thus seems well-positioned to grow as a potential tourist route in the future.

In order to make the most of the group's range of expertise, it was decided to create breakout working groups that consisted of:

- 1) Architecture and structural
- 2) Art, interior finishes, painting, relief, epigraphy
- 3) Archaeology
- 4) Site ownership, access, tourism, logistics, local cultural aspects

World Monuments Fund offered to coordinate production of the report, and once back in New York established an FTP site where participants could upload and share materials over the next several months. The results were then edited and compiled into this report. In the future, it is hoped that the group will be able to use its collective expertise to build similar dossiers for a number of other sites in the region.

A. Ownership and Logistics

Location: Digor, Kars; Elevation 1,754 meters; N 40.380384, E 43.376399

Khtzkonk is 25 kilometers southwest of Ani, near Digor



FIGURE 1.

Access

Khtzkonk is not currently vehicle-accessible, but there are three main ways to access the site (Figure 1). The first option is to walk west from Digor's town center through the gorge for approximately 4.5 kilometers. The first half of the walk is through fields, and then up onto the right bank of the gorge for the rest of the way. There is no road or pathway in the fields. The second option is along a mountain path that leads from the road between Dagpinar and Digor. The path is barely visible up through the mountain and in some areas is obstructed by fallen rocks. Difficulty level of access is medium-high. Access is also limited by seasonal conditions. The final option is to access the site from the ancient settlement of Agarak, located south of Khtzkonk. The descent is more difficult but the total travel time is significantly reduced using this route.



FIGURE 2.



FIGURE 3.

Twenty wall facets are articulated by a blind arcade with double-columns and elegant archivolts. A tall 12-faceted upper drum contains tripartite columns, visually supporting the wide cornice of the umbrella-shaped cupola. The entire composition of this rotunda, including the foundation, the unpreserved portal, and the ornamentation, reflect the dominant influence of classical antiquity on the early eleventh-century Ani school of Armenian architecture.

To the north of the church of Surb Sargis was a memorial monument with a khachkar in an arched niche; it stood on a high foundation. Details of the monument date it to the 1020s–1030s.

The monastery was occupied until the invasion of the region by the Mongols (1236–1244) and then abandoned for over six centuries. The buildings bordering the site to the west and south were built at that time. Photographs from the early twentieth century show that these structures were modest and in poor condition at this time, with holes in the roof.

In 1878, after the Russian conquest of the Kars region, Khtzkonk was returned to the Armenian Church. The buildings were renovated and religious life resumed within the monastery. The monastery remained in use until 1920 (Figure 3). Additional accommodations for monks and pilgrims were constructed to the south and west of the main group of the churches in 1892–93.

In 1950 the monastery was deliberately destroyed. The monastic buildings and four of the churches disappeared almost completely, leaving only Surb Sargis today (Figure 4.).

Ownership Status

Prime Ministry Undersecretariat of Treasury owns the monument, with responsibility assigned to the Ministry of Culture and Tourism. It was registered as “Beşler Kilise” on March 17, 1989. The Kars Regional Conservation Board is responsible for approving conservation/restoration plans for the monument.

B. History and Description

The origins of the monastery date to the post-Arab era, when the first church of Surb Karapet (John the Baptist) was built. The earliest inscription is dated 1001 or 1006, and mentions the name Katranide, a wife of *shahinshah* Gagik Bagratuni. According to Samuel Anetsi (twelfth century), the church of Surb Sargis was built in 1024 by the prince Vast Sargis.

The monastery had a total of five churches, all of them domed and carefully built out of finely cut stone. The churches were Surb Karapet, Surb Astuacacin, Surb Stepanos, Surb Gregory, and Surb Sargis. Only the church of Surb Sargis is standing today.

Surb Sargis (1024), a masterpiece of architecture, is a tetriconch with corner chapels set into the round volume of the outer wall. The dome sits on pendentives. There is a wide, profiled belt around the interior on the level where the walls meet the ceilings. The external composition is formed by two polygonal volumes. The lower main space stands over a high profiled foundation and terminates in the horizontal cornice.



FIGURE 4.

C. Architectural Assessment

In his day the very distinguished Vest Sargis, after building many fortresses and churches, built the glorious monastery of Khtskōnk.

—Kirakos Gandzakets'i, c.1200–71

Surb Sargis is the only surviving church of the monastic complex of Khtzkonk and bears precious evidence for the formation of Armenian monumental decoration during the tenth and eleventh centuries, the period of Bagratid rule. The first tier of the rotunda is sheathed in a series of narrow arcades on slender twin colonnettes, which rest on a tall, molded base (Figure 5). The second tier echoes this decorative scheme; here, however, the bundled colonnettes rise into triangular gables (Figure 6), echoing the umbrella shape of the cupola. The latter form offers a rare preserved example of the umbrella cupola, bearing important formal relations with preserved examples such as the main church of the monastery of Marmashen in the Armenian Republic.

The elaborate arcades of the church form part of a new decorative vocabulary of the tenth and eleventh centuries. They may be understood in relation to the architectural developments present, for example, in the Cathedral of Ani, where the monument is likewise clad with a network of colonnettes and arcades. In comparison to seventh-century monuments, such as the Cathedral of Mren, Ani Cathedral and other contemporary monuments, such as Khtzkonk, call greater attention to the exterior planes of the monument through a coherent envelope of architectonic forms. In this sense, we can see how the basic forms of architecture—columns, capitals, arches, bases—become

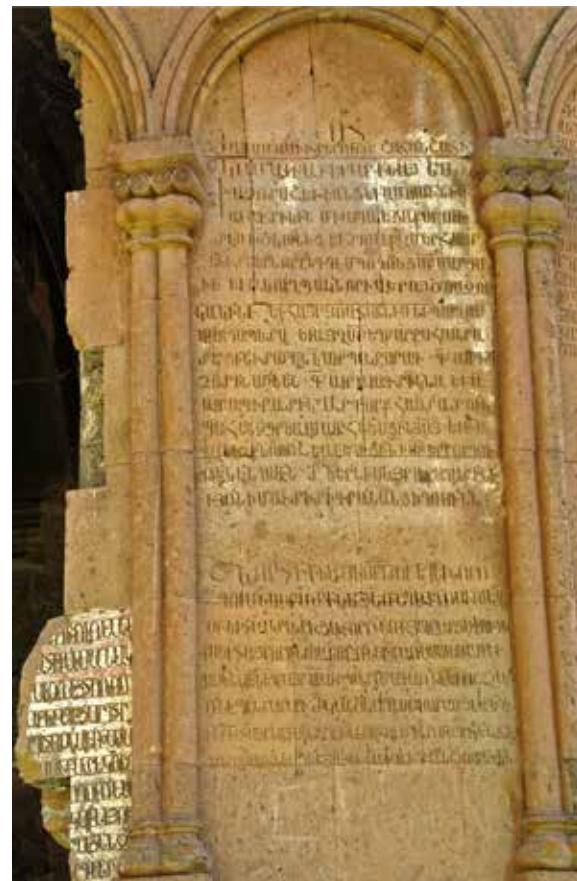


FIGURE 5.

an ornamental language. Khtzkonk is a crucial example of a preserved rotunda using this architectonic vocabulary. With its superimposed levels of arcades and gables, moreover, it is a particularly refined representative of the type.

Two other decorative features of Surb Sargis deserve note here. First, the capitals of the colonnettes, on both interior and exterior. The capitals of the lower tier of arcading are topped with abaci of four circular forms, which project into cylinders toward the surface of the church (Figure 7). This form of abacus may be seen as a development from the stylized Ionic capital known from other examples of Armenian church architecture. A nearby form, but more closely related to the Ionic order of capital from whence it was derived, may be found in the capital program of the now-ruined church of Gagkashen, at Ani.

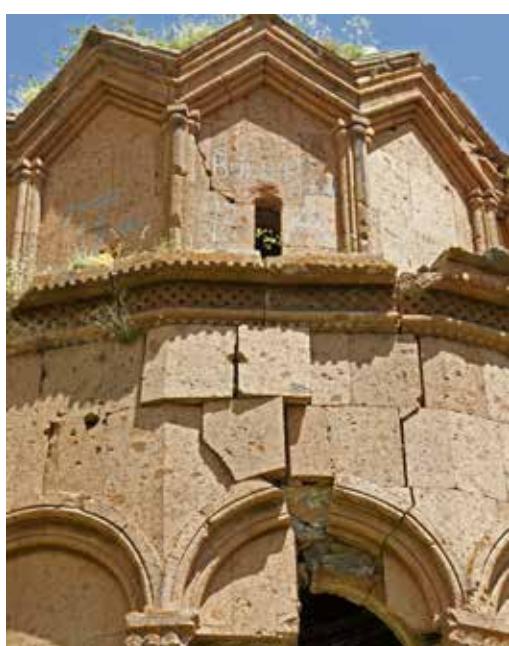


FIGURE 6.



FIGURE 7.

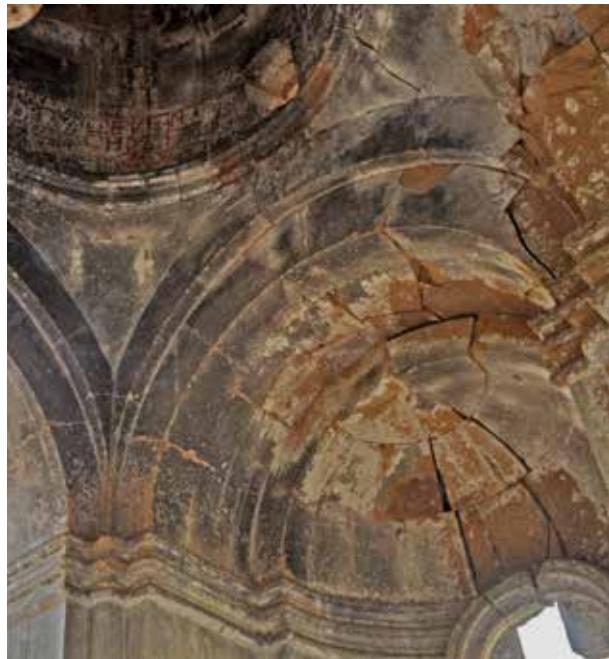


FIGURE 8.

The decorative program of the interior of Surb Sargis includes the lower part of the elevation at the level of the windows, which is ornamented with a continuous and heavily profiled cornice interrupted by a series of window arches (Figure 8). These arches bear the same decorative vocabulary of arcades and capitals found on the exterior. The two framing posts of these arches do not descend, however, to the ground-line of the church interior. Rather, they are pendant arches, terminating about midway down the wall. This is a striking visual feature of the interior, intended to call attention not only to the windows but also, surely, to the dramatic views into the surrounding landscape.



FIGURE 9.

The exterior of Khtzkonk is covered in inscriptions that record both the many restorations and the donations made to the monastery (Figure 9). These texts are fascinating because they demonstrate the social, political, and economic interconnection of the elites in the region, and give immediate meaning to the concept of “Ani in Context.” For example, one of the inscriptions indicates the gift from a certain Brnavor, “servant of Christ,” and his wife Tgha of a vineyard at Mren called Aghtotn (“the Dirty”).

Following the traditions of Armenian architecture from at least the sixth century, epigraphy is positioned here on the outside, rather than the inside of the structure. The texts are, as at Ani, located within the blind arcades of the exterior. The use of the arcades as framing devices for the text echoes the longstanding tradition of canon tables found in Armenian manuscript illumination. Very importantly, and further evoking manuscript production, the epigraphy at Khtzkonk preserves polychrome decoration: elements of text are highlighted with red and white paint. This is a striking and rare example of preserved polychrome on epigraphy, and deserves careful study.

In sum, Surb Sargis at Khtzkonk preserves precious evidence for the development of architectural decoration and epigraphy in medieval Armenian architecture.

D. Structural Assessment

A visual assessment of the remaining church of Surb Sargis at Khtzkonk Monastery was performed. All assessment work was done from the floor and the surrounding field only.

Seismicity of the Area

Turkey is located in the Alp-Himalaya earthquake belt that extends from the archipelago of the Azores to Southeast Asia. The North Anatolian Fault Zone extends in the east-west direction at the northern part of Turkey and is quite active. In the northeast of Anatolia, there are lateral faults in Sevan in Armenia, Balıkligöl, İğdır, Ağrı, Dumlu, Çobandede, Kağızman, and Digor in Turkey. The Ministry of Public Works and Settlement published a seismic hazard map of Turkey in 1996 based on the expected maximum acceleration value (Figure 10). Kars City is located in the second-degree earthquake zone in accordance with this map, meaning that that 0.4–0.3 g maximum acceleration is expected.

Since 1924, ten destructive and semi-destructive earthquakes have been reported in the region. The first earthquake occurred on May 13, 1924, affecting Sarıkamış, southwest of Kars. The severest earthquake, with a 6.2 magnitude, occurred in Digor on May 1, 1935. This earthquake affected all the settlements in a 50 kilometer radius.¹ According to newspaper accounts, almost all the houses were destroyed, monuments were severely damaged, and there were many deaths and injuries. Digor and its surroundings experienced 10 aftershocks from this earthquake.² Digor had a series of earthquakes in 1936, 1938, 1941, 1962, 1972, 1975, 1976, and 1983. The district was seriously affected by the 1988 Erivan earthquake. The magnitudes of these earthquakes were 4.5 to 6.9 M_s.³ The buildings not repaired and maintained were completely demolished during these earthquakes.⁴ Landslides and falling rocks are also frequent dangers in this area.

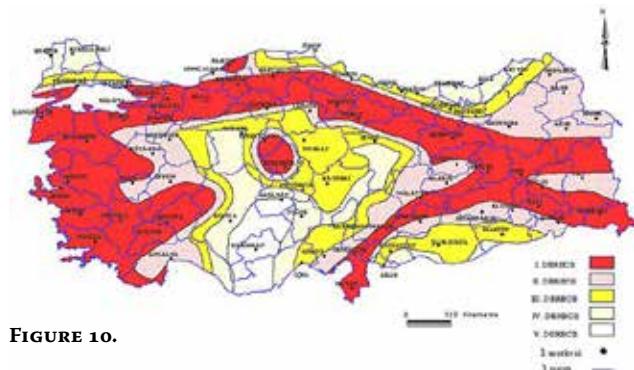


FIGURE 10.



FIGURE 11.

Structural Description

The monument is composed of a lower cylinder that is symmetrically divided into two perpendicular axes by four conches. There are eight vaulted chapels with eastward facing conches in the volume between each conch, four at floor level and four one level above the floor. At the center of the structure rises a drum and dome surmounted by an umbrella-shaped conical roof. There is a sloped roof around the drum for the lower cylinder as well. The drum and dome are respectively cylindrical and spherical on the interior.

The foundation, composed of three courses of stone, is exposed on the east side and reveals that the structure is set on undisturbed stone (Figure 11). It was customary in antiquity for the building masters in seismic areas to avoid resting foundation walls directly on the rock to avoid resonance during seismic events. It is hypothesized that these three courses

1 The Ministry of Public Works, "Disasters condition of the cities," *The Ministry of Public Works publication* (in Turkish).

2 Tekir, S., Earthquakes in Kars and its Surrounding (1924-1941) *International Journal of History Studies* 2012 (in Turkish).

3 The Ministry of Public Works, "Disasters condition of the cities."

4 Tekir, S., Earthquakes in Kars and its Surroundings.

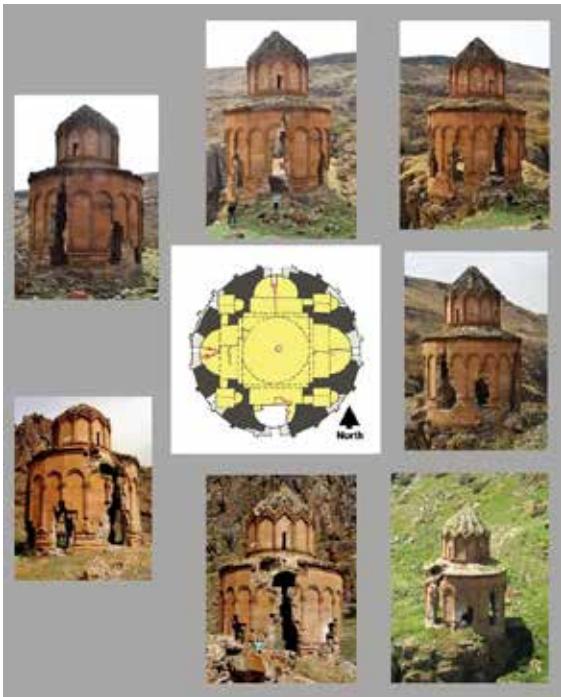


FIGURE 12.

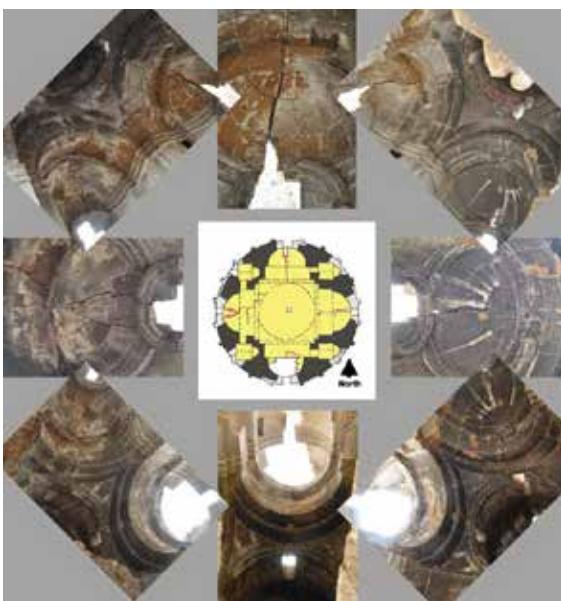


FIGURE 13.

of stones are laid all through the floor to serve as a mat foundation as is found beneath Roman, Ionian, and Byzantine monuments.

The monument is constructed as a “midis wall,” an Armenian term describing rubble masonry faced on both sides with dressed stone. The stone is ocher in color and appears to be limestone. The mortar is most probably khorasin mortar from Turkey that was typically used in the Byzantine, Seljuk, and Ottoman periods. Khorasin mortars are composed of a mixture of a lime binder, volcanic ash, and aggregate and have pozzolanic attributes.

Assessment

The monument has many cracks and some parts have collapsed, yet it is still whole. It is heavily damaged, with compromised structural elements threatened by gravity and especially by seismic activity.

Most noticeable from the exterior are eight breaches in the lower cylinder that correspond to the four conches and the chapels between each conch (Figure 12). These openings are through the thinnest part of the walls. The outer dressed stones of the midis wall at the base and around each of the eight breaches are missing. Some of the stone roofing tiles of the lower roof have disappeared, and plants are growing on both roof levels.

From the interior it was observed that vertical cracks at the center of each conch have divided the lower cylinder into four discreet units (Figure 13). Portions of the south conch have collapsed and one stone has fallen from the north conch. The cracks in the north, east, and west conches are spreading near the top (Figure 14).

Three of the four conch cracks have reached the base of the dome but have not propagated into the dome (Figure 15). Some of the interior stones at the base of the lower cylinder are missing (Figure 16). There is a hole in the apex of the dome. It was observed that some of the stone units at the apex of some of the vaults leading to the top of each conch are loose and could fall to the ground (Figure 17).



FIGURE 14.



FIGURE 15.



FIGURE 16.



FIGURE 17.



FIGURES 18–24.

E. Additional Studies

I. Inscriptions

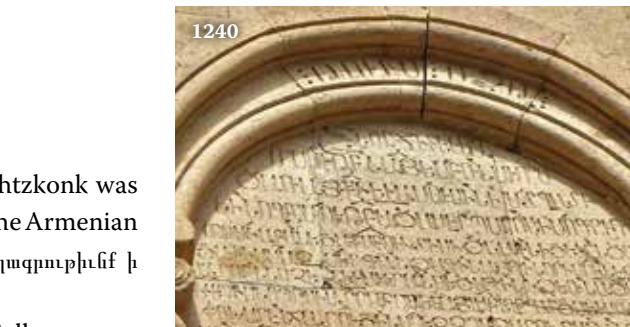
A work on the wall inscriptions of the monastery of Khtzkonk was published in 1864 by Nerses Sargisian, the clergyman of the Armenian monastery of Saint Lazarus, Venice (Ն. Սարգսիան, «Տեղապուրիսի և Փոքր և կ Մեծ Հայոց», Վենետիկ, 1864, p. 208–214).

Currently there are only eight visible inscriptions, partially or completely preserved on the wall of Surb Sargis church, which have the following dates: 1033, 1153, 1211, 1221, 1230, 1233, and 1240 (Figures 18–24).

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Ն ԱՅԱ: Ե
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FIGURE 25.



II. Archaeology

Khtzkonk Monastery is not limited to the five churches built on a ledge halfway up the gorge. It also includes the monastic buildings bordering the site to the west and south, as well as gra-



FIGURE 26.



FIGURE 27.



FIGURE 28.



FIGURE 29.

naries, bulwarks, several burial sites, and most likely a number of caves used for burial or for housing monks. The steep and rocky base of the monastery suggests a relatively weak stratigraphic potential of the ground. It is thus even more important to protect it against damage and hasty excavations.

Observations on Tourism Potential and the Community

- The fields at the entrance to the valley are arable and fertile, and are harvested three times per year (Figure 26). Deeper into the gorge, the rocky topography and narrowness of the land prevents agricultural use. There are shepherds and sheep farming around the rocky areas surrounding the monuments. The stream below also has fish (Figure 27).
- Graffiti, fire, and illegal excavations are a threat to the remains of Surb Sargis. Charred fire remains within the church are most likely left by the local shepherds for either cooking the fish they catch from the stream or for heating purposes. Local youngsters climb up to the walls and the dome easily since there is no security or control at the site. (Figure 28)
- There are indications on the ground that some illegal excavations were done by treasure hunters. Some of the walls of the standing church were most possibly destroyed while the treasure hunters were searching for the “gold,” or just due to acts of vandalism. (Figure 29)
- Digor Kültür Platformu, established in 2012, uses the image of Surb Sargis as their logo, showing that there is some level of pride in the local town for the cultural heritage within their town borders.
- A British solo traveler heading to Khtzkonk was encountered during the trip.

Tourism Potential

- A broad tourism strategy for the region should be encouraged, whereby the local community obtains related educational and capacity-building opportunities. This may include training of masons and craftsmen in the Kars region in traditional techniques to work on monuments of this kind.
- Kars is currently a destination limited to Ani site visits and one-night stays. Kars should be included in tour group programs lasting at least three days, and the local economy should benefit from visits to neighboring sites around the region.

The panoramic and scenic views of the valley leading to Khtzkonk and the monuments would appeal to most of the tourists coming to the area. It could be included in a program as a half-day tour ending with a picnic lunch arranged with simple fare provisioned from the locals. After lunch other monuments in the vicinity of Digor could be visited.

Recommendations

Due to its cylindrical shape, symmetry, and construction materials, Surb Sargis has proven to be amazingly resilient. However, on the basis of the visual assessment, we conclude that the monument in its present condition does not possess adequate structural safety for its location in a seismically active zone. At present the building is not safe for any purpose including tourist visits, and access to the monument should be prohibited.

There is no detailed record of Surb Sargis or the other lost monastery churches. The recommendations below layout emergency measures for Surb Sargis, a comprehensive assessment and repair plans for the church, further research measures, and a comprehensive assessment plan for the monastery site.

Priority 1: Short Term (Emergency measures)

- Wrap Surb Sargis with tension banding at the top of the lower cylinder of the structure to counteract further spread of the walls.
- Support unstable portions of the conches and vaults with interior scaffolding.
- Replace the eight missing portions of the wall at the base of the lower cylinder.

Priority 2A: Comprehensive Assessment and Urgent Repair of Surb Sargis

A more comprehensive examination of the monument is required in order to develop appropriate techniques for repair and strengthening. This examination should include the following:

- Development of a detailed architecture survey to develop accurate plans, sections, and elevations using 3D scanning, photogrammetry, or total station.
- Precise location and dimensions of all damage and decay of Surb Sargis.
- Perform a detailed study with the aid of an accurate topographical survey to document tool marks, workers marks, integration of epigraphy, etc., which will clarify the history of the monument and of the monastery.
- Laboratory analysis of stone and mortar to determine the strength of the monument and to develop appropriate repair materials and technologies.
- Perform long term monitoring and ambient vibration testing.
- Address the existing vertical cracks of the conches and the collapsed lower parts of the lower cylinder.
- Prepare stabilization and consolidation drawings.

Priority 2B: Further Research and Comprehensive Assessment of the Site

- Determine why this place was chosen for building Khtzkonk. The plot of the rock on which the church was constructed is small, and in ancient times churches were often constructed alongside other buildings. It is possible that there was a more ancient Christian sanctuary. As a rule, such a sanctuary would be included in new buildings. It would be useful to clarify the relationship of the monastery to other settlements.
- Map site elements, both below and above ground, using a local GIS system.
- Use a geo-radar survey to detect archaeological remains up to 2 meters below the surface. This would reveal whether there was a wider building footprint, as well as additional structures. This is a useful preliminary measure as it is non-invasive.
- Potentially use LiDAR scanning (scan of landscape from an airplane) to locate constructions not visible on ground level.
- Record and inventory dislocated fragments that were deliberately moved away from the monuments, and/or down the valley. This information should also be mapped before the fragments are possibly manipulated for inventory and study.
- Identify, record, and store significant lapidary remains scattered by destruction. Determine

and indicate if there are any relics that could be stored in another monastery. Check to see if there are any monasteries from that time with a similar list of veneration of the saints, and check to see what the related relics are for those saints.

- From the northeast side of the church a base of stones can be seen showing that the area to build the buildings had at one point been leveled. It is necessary to clean the base of the church to determine the nature of the terrain, and the sequence of building works and history of the site.
- Clear other parts of the area to identify the bases of other buildings and to determine their size and layout. Find the bottom of all religious buildings and fences, as well as residential and commercial buildings.
- Research the source of the stones, where they were shaped, and the ancient roads from which they were transported to the construction site. Also locate where the mortar was prepared.
- In order to clarify the chronology of the construction of the monastery, prepare an analysis of the mortars of the destroyed buildings, and compare it with the mortars of other ancient churches for which datings are clearly established.
- Conduct an analysis of the mortar in the destroyed buildings by comparing it with the formulations of other ancient churches in the region for which dating is clearly established.
- Determine how to inventory and sort the stones from the monastery buildings. Research the stones, which will clarify the dating of the construction and reconstructions of the buildings.
- During archaeological work there will certainly appear new challenges that will require refining the plan.

After the emergency measures under Priority I have been implemented and the site has been deemed safe for the protection and preservation of the ruins of Surb Sargis and the monastery site, consideration should be given to charging a visitation fee as well as creating a transportation surcharge for tourists who wish to visit the monastery.

Appendix B: Workshop Schedule and Participants

Schedule

Day 1: Sunday, Sept. 29

- Ani Archaeological Site
- Shepherd's Church and Baths

Day 2: Monday, Sept. 30

- Horomos Monastery
- Taylar Church
- Karmirvank Church

Day 3: Tuesday, Oct. 1

- Oğuzlu Church
- Kizilvenk Church
- Argina Church
- Uzun Church
- Erazgavor
- Tignis Fortress

Day 4: Wednesday, Oct. 2

- Bulanik
- Bagnayr
- Argo Aritch
- Magazberd
- Ani Archaeological Site

Day 5: Thursday, Oct. 3

- Digor Basilica
- Khtzkonk Monastery
- Agarak Church
- Alaman

Day 6: Friday, Oct. 4

- Nakhichevan
- Bagaran
- Zibni
- Mren Cathedral

Day 7: Saturday, Oct. 5

- Wrap-up session,
- Büyük Kale Hotel

Participants

The Norwegian Institute for Cultural Heritage Research

- **Carsten Paludan-Müller**, General Director, *The Norwegian Institute for Cultural Heritage Research; Oslo, Kingdom of Norway*
- **Regin Leithe Meyer**, Medieval Archaeologist and Restoration Specialist, *The Norwegian Institute for Cultural Heritage Research Oslo, Kingdom of Norway*

World Monuments Fund

- **Mark Weber**, Field Projects Director, *World Monuments Fund; New York, United States of America*
- **Samantha Earl**, Program Associate, *World Monuments Fund; New York, United States of America*

Ani Project Consultants

- **Yavuz Özkaraya**, restoration architect; *Ankara, Republic of Turkey*
- **Stephen J. Kelley**, architect, engineer and Principal at WJE Inc.; *Chicago, United States of America*
- **Dr. Predrag Gavrilovic**, structural engineer, Professor Emeritus, *Institute of Earthquake Engineering and Engineering Seismology; Skopje, Republic of Macedonia*
- **Gizem Dörter**, architectural historian and cultural heritage specialist; *Koç University, Istanbul, Republic of Turkey*
- **Dr. Armen Kazaryan**, Head of Department of Ancient and Medieval Architecture, Research Institute of Theory of Architecture and Town-Planning, Russian Academy of Architecture and Building Sciences; *Moscow, Russian Federation*

International Experts

- **Dr. Karen Matevosyan**, historian specializing in Ani; Head of Department, *Mesrop Mashtots Institute of Ancient Manuscripts; Republic of Armenia*
- **Dr. Felix Ter-Martirosov**, archaeologist specializing in ancient and early medieval periods; Professor, *Institute of Archaeology, Republic of Armenia*
- **Dr. David Kertmenjyan**, historian of medieval architecture, town planning, and monastic planning; Professor, *Yerevan State University, Republic of Armenia*
- **Ashot Manassian**, restoration architect; *Republic of Armenia*
- **Alin Pontioğlu**, restoration architect; *Istanbul, Republic of Turkey*
- **Dr. Christina Maranci**, Associate Professor, *Department of Art and Art History, Tufts University; Medford, United States of America*
- **Dr. Rachel Goshgarian**, Assistant Professor, *Department of History, Lafayette College; Pennsylvania, United States of America*
- **Philippe Dangles**, architect, member of the French Archaeological Team of Ani-Pemza, *Republic of France*
- **Dr. Görün Arun**, Professor, *Yıldız Technical University, ICOMOS Turkey member; Istanbul, Republic of Turkey*

Anadolu Kültür

- **Osman Kavala**, Chairman, *Anadolu Kültür (participant in wrap-up meeting); Istanbul, , Republic of Turkey*

Royal Norwegian Embassy in Ankara

- **Lise Albrechtsen**, First Secretary, *Royal Norwegian Embassy in Ankara (participant in field excursion on day 6 and wrap-up meeting on day 7); Republic of Turkey*



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