

UNESCO/Japanese Funds-in-Trust Project for Support for Silk Roads World Heritage Sites in Central Asia (Phase II): On-site Training Workshop in Uzbekistan (11-20 September 2017)

The UNESCO Japan Funds-in-Trust (Japan-FIT) project *Support for Documentation Standards and Procedures of the Silk Roads World Heritage Serial and Transnational Nomination in Central Asia (Phase I, February 2011–June 2014)* was to support the wishes of five Central Asian countries to have their related Silk Road heritage inscribed as single World Heritages on the List. This led to the decision to inscribe *Silk Roads: the Routes Network of Chang'an-Tianshan Corridor*, a joint submission by Kazakhstan, Kyrgyzstan, and China, on the List in 2014, at the 38th session of the World Heritage Committee, held in Doha, Qatar. Meanwhile, the inscription of *Silk Road: Penjikent-Samarkand-Poykent Corridor*, a joint submission by Tajikistan and Uzbekistan, was postponed.

The UNESCO Japan Funds-in-Trust (Japan-FIT) project *Support for the Silk Roads World Heritage Sites in Central Asia (Phase II, April 2015–April 2018)* was formally launched at the 4th meeting of the Coordinating Committee, held by UNESCO in November 2015 in Almaty, Kazakhstan. This project picked up where Phase I left off, and its objective was to (1) conduct further documentation, archeological surveys, and training on preservation and use plans to guarantee the sustainable management of Silk Road areas; and (2) increase Central Asia's ability to preserve its cultural heritage.

As part of this project, we, the Mukogawa Women's University team, held an on-site training workshop for specialists from Uzbekistan, one of the countries of Central Asia.



Lecture on how to operate the drone

1. Brief overview of the workshop

1-1. Workshop Venue

Tashkent, Samarkand and Khiva



1-2. Lecturers

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|---------------------|--|
| Kazuya Yamauchi | <i>Professor, Research Institute of Cultural Properties, Teikyo University</i> |
| Shigeyuki Okazaki | <i>Professor, Head of Architecture Department, Mukogawa Women's University</i> |
| Kazuhiko Yanagisawa | <i>Professor, Architecture Department, Mukogawa Women's University</i> |
| Noritoshi Sugiura | <i>Associate Professor, Architecture Department, Mukogawa Women's University</i> |
| Hideaki Tembata | <i>Lecturer, Architecture Department, Mukogawa Women's University</i> |

1-3. Objective

Conducting on-site training workshops on preserving, landscaping and utilizing historical buildings, townscapes and landscapes through 3D models, or simulations with videos

1-4. Activities

| | |
|-----------------------|---------------------|
| Workshop at Tashkent | : Program GM |
| Workshop at Samarkand | : Program AM and TS |
| Workshop at Khiva | : Program AM and TS |

Program GM :

Creating 3D geographical models based on photogrammetric processing of photos taken by drone

Program AM :

Creating 3D architecture models based on photogrammetric processing of photos taken by drone

Program TS :

Conducting townscaping simulations with aerial videos taken by drone

2. Summary of the on-site training workshop in Uzbekistan
2-1. Opening ceremony (September 12)



the Ikuo Hirayama International Caravanserai of Culture



Scene from the opening ceremony



Introducing the workshop program



Introducing the drone



Handover ceremony of the drone



Commemorative photograph

The opening ceremony was held at the Ikuo Hirayama International Caravanserai of Culture. *Mr. Badarch DENDEV*, Officer-in-Charge, UNESCO Tashkent Office, UNESCO representative a.i. to Uzbekistan, *Mr. Server ASHIROV*, Principle Department for the Preservation and Utilization of the Cultural Heritage, Ministry of Culture of the Republic of Uzbekistan, *Mr. Soichiro TOYOSHIMA*, Chargés d'Affaires ad interim of Japan to Uzbekistan, *Mr. Roland LIN*, Programme Specialist from the World Heritage Center, UNESCO, Paris, *Mr. Kazuya YAMAUCHI*, Professor of the Research Institute of Cultural Properties, Teikyo University, Japan, made opening speeches respectively. Furthermore, the Mukogawa Women's University team including *Dr. Shigeyuki OKAZAKI*, Professor and Head of Architecture Department, explained about the workshop program and drone. After that, the two sets of drones were transferred from UNESCO to the Ministry of Culture of the Republic of Uzbekistan. Finally, commemorative photos were taken.

2-2. Tashkent workshop (September 13)



the ancient settlement at Kanka



Lecture on how to operate the drone



Lecture on how to operate the drone



Lecture on how to operate the drone



Photo taken by the drone



Program GM



Program GM



Awarding certificates of completion



Commemorative photograph

First, we conducted an on-site workshop at the ancient settlement at Kanka, Uzbekistan. After learning how to operate the drone, each of the participants flew it and took pictures of the settlement. Then, we conducted Program GM at UNESCO Tashkent office, where the participants had the opportunity to create a 3D model of the Kanka settlement.

2-3. Samarkand workshop (September 15)



the Registan Square



Explaining photogrammetry



Taking pictures with a digital camera



Surveying with a laser rangefinder



Program AM



Program TS



Commemorative photograph

First, we conducted an on-site workshop at the Registan Square. The participants each took pictures of the madrasah with digital cameras. They also conducted measurement surveys. Afterward, we conducted Program AM at the inspection office and the participants had the opportunity to create 3D models of the madrasah. In addition, we conducted Program TS, which made use of videos taken at the Registan Square.

2-4. Khiva workshop (September 18, 19)



Townscape of Khiva



Sep. 18: Lecture on how to operate the drone



Sep. 18: Lecture on how to operate the drone



Sep. 18: Taking pictures with the drone



Sep. 18: Program AM



Sep. 19: Lecture on how to operate the drone



Sep. 19: Photo taken by the drone



Sep. 19: Image captured from the drone



Sep. 19: Checking the video taken by the drone



Sep. 19: Program TS



Sep. 19: Commemorative photograph

First, on September 18, we conducted an on-site workshop at the Allah Kuli Khan Madrasah. After learning how to operate the drone, each of the participants flew it and took pictures of the madrasah. Then, we conducted Program AM at the Khorezm Mamun Academy, where the participants had the opportunity to create a 3D model of the madrasah. On September 19, we conducted on-site workshops at the Qutlugh Murad Inaq Madrasah and the Islam-Hoja Minaret. Along with flying the drone and taking pictures there, we also took videos of Itchan Kala, which contained those sites. Finally, we checked those videos at the Khorezm Mamun Academy and used them for Program TS.