

You have achieved the listing of ONE World Heritage Property:

Sites of Japan's Meiji Industrial Revolution: Iron and Steel, Shipbuilding and Coal Mining



Components of the Property	Function in series	Key dates
II	Proto-industrial	1856
Hagi	sites and	1836
☐ Ebisugahana shipyard	historical socio-	
☐ Hagi reverberatory furnace	cultural setting	
☐ Hagi castle and castle town	for Japanese	ALL SHEET
☐ Ohitayama tatara iron smelting	industrialisation	0.5
site	muustriarisation	
☐ Shokasonjuku Academy		
Kagoshima: Shuseikan factory	Pioneer	1851-67
complex	smelting and	3 (0 - 3)
☐ Shuseikan complex	factory	A STATE OF THE STA
☐ Machine factory	complex	
☐ Terayama charcoal kiln	The Paris As	A STATE OF
☐ Sekiyoshi leat	0.21	0.00
☐ Foreign Engineers house	H Me Tour	第一人 三十八名
Saga	Pioneering ship	1858
☐ Mietsu ship repair yard	repair and	
	construction	
	yards	AV DE TO
Kamaishi: Hashino iron mining and	First successful	1858-94
smelting site	adaptation of	
☐ Blast furnaces and related	western blast	Cultural Control
infrastructure	furnace	
☐ Iron ore mine	technology in	
☐ Pack trail linking mine and	Asia	
smelters		4 3/4 3
		220
Nirayama	Oldest	1853-56
☐ Reverberatory furnace	surviving intact	All Gellia
A COLUMN TO SERVICE STREET	pioneering iron	0.5
	working site	The state of

Components of the Property	Function in series	Key dates
Nagasaki ☐ Kosuge slipdock ☐ No. 3 drydock, MHI ☐ Hammerhead crane MHI ☐ Pattern shop MHI ☐ Senshokaku guesthouse, MHI ☐ Glover residence	Key early shipbuilding and related coal mining and support sites.	1868- 1909
☐ Takashima and Hashima island coal mines		
Omuta: Miike coal mines and port	Coal mining	1887-
 ☐ Manda and Miyanohara pits ☐ Coal railway ☐ Mike Port ☐ Misumi West Port 	and transportation complex reflecting major changes needed to support industrial development	1909
Yawata Steel Works	First successful	1899-
 ☐ Yawata Repair Workshop ☐ Yawata Smithy ☐ Yawata Head Office ☐ Onga River Pumping Station 	integrated steel works in Asia—maturity of Japan's industrial	1910
	revolution	

Summary of OUV

A series of industrial heritage sites, focused mainly on the Kyushu-Yamaguchi region of south-west of Japan, represent the first successful transfer of industrialization from the West to a non-Western nation. The sites in the series reflect the three phases of this rapid industrialisation achieved over a short space of just over fifty years between 1850s and 1910.

The first phase in the pre-Meiji Bakumatsu isolation period, at the end of Shogun era in the 1850s and early 1860s, was a period of experimentation in iron making and shipbuilding. The second phase from the 1860s accelerated by the new Meiji Era, involved the importation of Western technology and the expertise to operate it; while the third and final phase in the late Meiji period (between 1890 to 1910), was full-blown local industrialization, achieved with newly-acquired Japanese expertise and through the active adaptation of Western technology to best suit Japanese needs and social traditions, on Japan's own terms.

These and the other values of each component site are detailed in the Conservation Management Plan (CMP) for each site.

The World Heritage *Operational Guidelines* promote VALUES BASED MANAGEMENT:

The planning, development and management of a heritage site which achieves the conservation of all the heritage values of the site for the long term.

This principle is the basis for each of the CMPs.

VALUES BASED MANAGEMENT PROCESS:

Accurately assess and recognise <u>all</u> the cultural values of the site

Research and assess conservation and management issues and opportunities with potential to affect these values

Exercise problem solving skills and initiative to solve issues

Develop policies and strategies which result in the conservation of the place's cultural values

Base all management decisions on the aim of conservation of the values



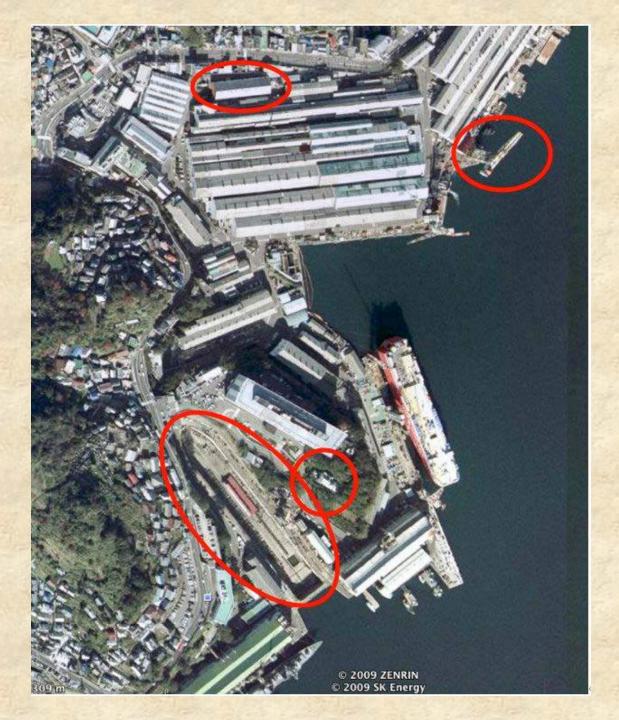
Some management issues:

Respecting evidence of all values and periods

The principle of *Fukugen* ('Put into the original form') is not necessarily a primary objective in industrial sites, where value can build over time with changes in use and technology, and where loss of earlier fabric can be significant.

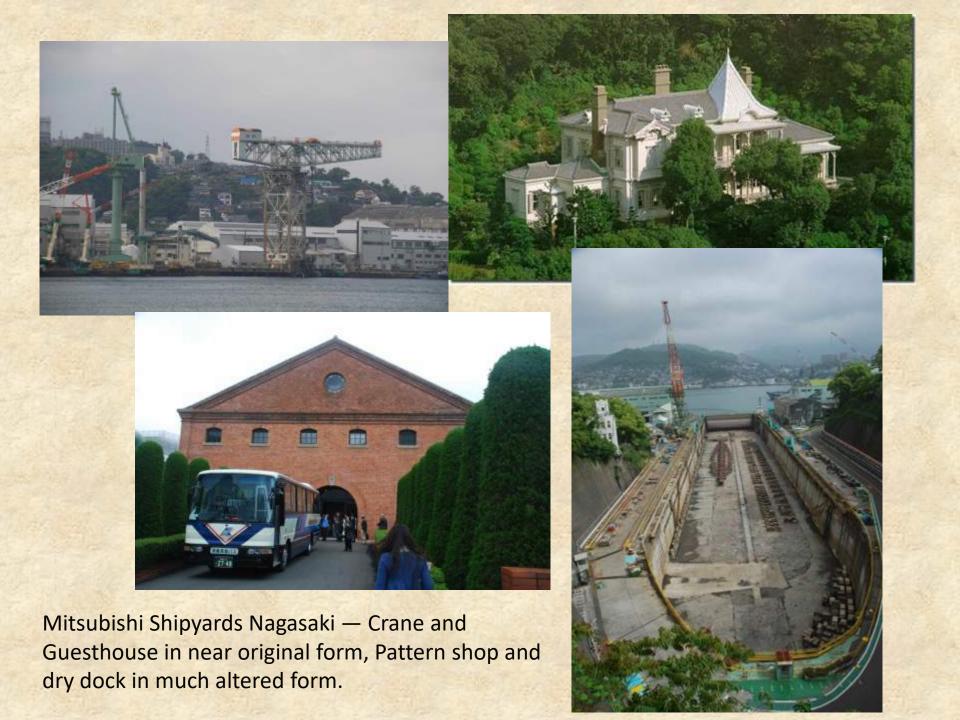
The ICOMOS Venice Charter (Article 11) says:

'The valid contributions of all periods to the building of a monument [or site] must be respected, since unity of style is not the aim of a restoration. When a building [or site] includes the superimposed work of different periods, the revealing of the underlying state can only be justified in exceptional circumstances and when what is removed is of little interest and the material brought to light is of great historical, archaeological or aesthetic values, and its state of preservation good enough to justify the action. Evaluation of the importance of the elements involved and the decision as to what may be destroyed cannot rest solely on the individual in charge of the work.'



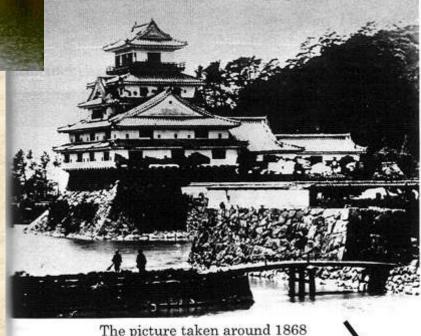
Mitsubishi Shipyard key elements

Returning to an earlier form is not possible





Hagi Castle. Its demolition in 1874 is important evidence of the impact of the Meiji Restoration historically and symbolically. Returning to its original form would distort that evidence.



Reconstructing ruins

Ruins and incomplete structures can tell their own history.

Venice Charter (Article 9) says that:

restoration 'must stop at the point where conjecture begins, and in this case moreover any extra work which is indispensible must be distinct from the architectural composition and must bear a contemporary stamp.'

Article 15 says that in the case of excavated ruins;

'Ruins must be maintained and measures necessary for the permanent conservation and protection of architectural features and of objects discovered must be taken. Furthermore, every means must be taken to facilitate the understanding of the monument (site) and to reveal it wirhout ever distorting its meaning. All reconstruction should however be ruled out a priori. ...'

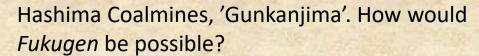
Creation of replicas for interpretative purposes, away from the original ruins or archaeological remains, may be a valid approach to telling the story of a site, but it must not put at risk the original remains and their understanding.



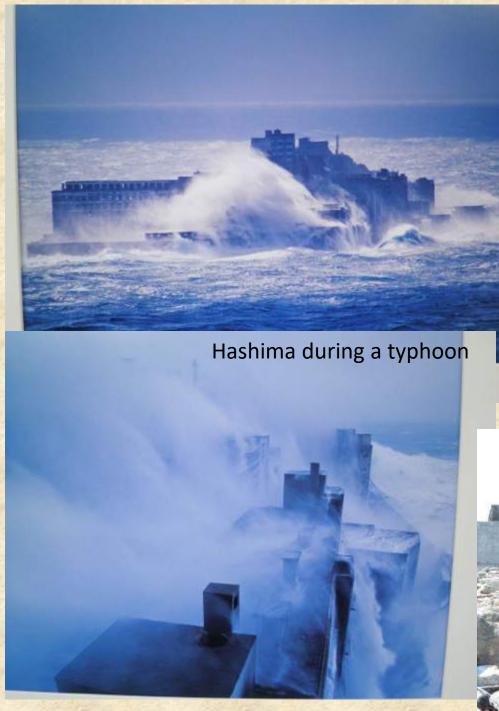


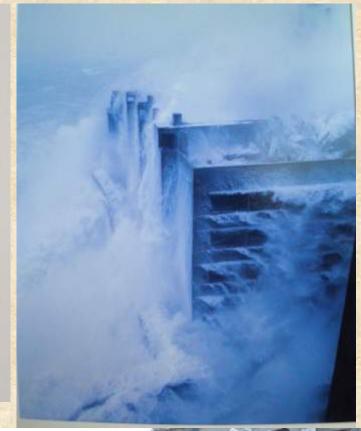




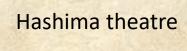
















Memory, history and place: Should *Fukugen* be achieved through interpretation rather than physical reconstruction?

Continued Industrial use

Some sites with industrial heritage significance are still in industrial use.

The Dublin Principles, the Joint ICOMOS-TICCIH Principles for the conservation of industrial heritage, sites, structures, areas and landscapes states (8):

In the case of active industrial structures or sites of heritage significance, it must be recognized that their continued use and function might carry some of their heritage significance and provide adequate conditions for their physical and economic sustainability as a living production or extraction facilities. Their specific technical characteristics and features need to be respected while implementing contemporary regulations such as building codes, environmental requirements or risk reduction strategies to address hazards of natural or human origin.

(10) Appropriate original or alternative and adaptive use is the most frequent way and often the most sustainable way of ensuring the conservation of industrial heritage sites or structures. ...

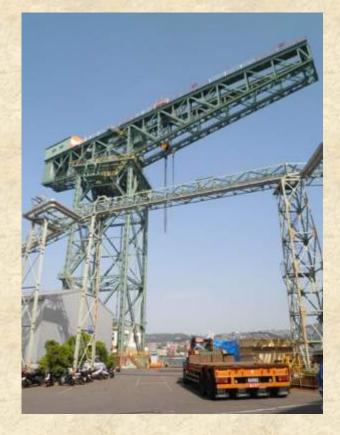


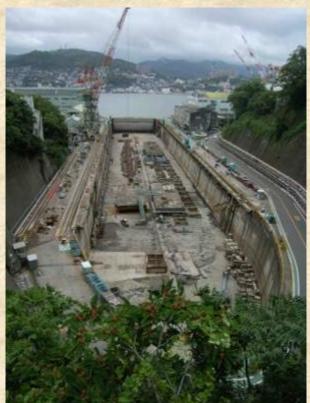






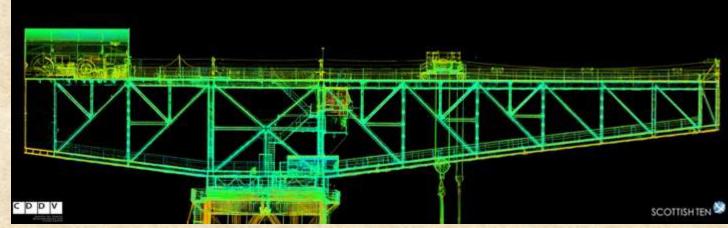
Continuing industrial use: Miike Coal Port, 1908







Continuing industrial use:
Mitsubishi Nagasaki Shipyards



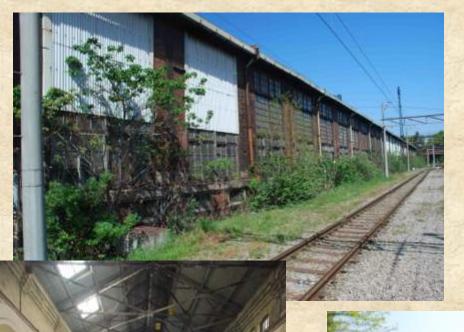








Continuing industrial use: Traditional use, Senshokaku Guest House







Continuing industrial use: Yawata Steel Works Repair Shop and Onga River Pumping Station



Continuing industrial operation: Changes for ongoing use. Onga River Pumping Station, new Weir control house and weir board storage facility, 2014









Continuing industrial operation: Changes for ongoing use.

Milke Port. Reinforcement and heightening of breakwaters