Krzemionki Prehistoric Striped Flint Mining Region

1. World Heritage Property Data

1.1 - Name of World Heritage property

Krzemionki Prehistoric Striped Flint Mining Region

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Krzemionki Opatowskie Mining Field	50.968 / 21.502	311.3	1327.9	1639.2	
Borownia Mining Field	50.926 / 21.564	11.6	120.4	132	
Korycizna Mining Field	50.912 / 21.604	9.9	133.8	143.7	
Gawroniec Settlement	50.884 / 21.529	16.4	246.6	263	
Total (ha)		349.2	1828.7	2177.9	

1.4 - Map(s)

Title	Date	Link to source
Krzemionki Prehistoric Striped Flint Mining Region - Maps of the inscribed property	2019	

1.5 - Web and Social Media data of the property (if applicable)

- 1. Archaeological Museum and the Krzemionki Reserve
- 2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)
- 2.1 Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) is not designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

Not applicable

- 2.4 Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years?

 Not applicable
- 2.5 Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if

No

No

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

2.7.1	1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.2	Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

- 2.8 Please add any further comments on cooperation with the other designation(s)/programme(s)
- 2.9 Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

Not aware

- 2.10 Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware
- 2.11 Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

Not aware

- 2.12 Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you aware.
- 3. Statement of Outstanding Universal Value
- 3.1 Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value

Brief synthesis

Krzemionki Prehistoric Striped Flint Mining Region (in short: Krzemionki) is located in the north-eastern fringe of the wi tokrzyskie (Holy Cross) Mountains in central Poland on both sides of Kamienna River. It is a serial property comprised of four component parts: the principal Krzemionki Opatowskie Mining Field; two smaller mining fields, Borownia and Korycizna, aligned on the same geological structure; and the Gawroniec prehistoric miners' permanent settlement that received semi products of flint axes from the mines for finishing and polishing prior to distribution. The property dates from 3,900 BCE to 1,600 BCE (Neolithic to Early Bronze Age) and is one of the largest known complexes of its type in the Neolithic Period. It is also the most completely preserved and wholly readable socio-technical system of prehistoric underground flint mining and processing and illustrates the greatest range of prehistoric flint mining techniques known in a single property. Attributes include great chambers with a floor area of over 500 nt hat are unknown from any other site. At the property, a unique type of flint – striped flint banded in exceptional zebra-like patterns of alternating shades of grey – was mined and fashioned into axes and distributed in a verifiable radius of 650 km from the complex, in present-day Germany, Czech Republic, Slovakia, Ukraine, Belarus and Lithuania.

A diverse range of mine types are also identified with different surface expressions in a remarkably intact anthropogenic surface that presents a rare prehistoric industrial landscape of shaft depressions and up-cast waste, remnants of flint workshops, miners' camps and communication routes. Gawroniec Settlement, integral to the functioning of the deposit management system, is a legible testimony to the organisation of a prehistoric community based around mining.

Criterion (iii): Krzemionki Prehistoric Striped Flint Mining Region is illustrative of the living and working patterns of settled prehistoric communities that distinguish the Neolithic period from that which preceded it. The serial property bears witness to the economic and social organisation of segments of the Neolithic society, which were linked to the extraction of flint and its use for the production of polished axes.

The attributes of the property, including the integral Gawroniec Settlement are further enhanced by the proven distribution of striped-flint axes that have been identified in a radius of over 650 km from the complex – the largest recorded range for prehistoric flint axes which act as significant indicators for prehistoric movements

Criterion (iv): Krzemionki Prehistoric Striped Flint Mining Region represents an exceptional type of Neolithic mining landscape, bearing witness both to a complex technical and social system and to human adaptation to the conditions of natural resource exploitation that is a landmark in the history of mining. It provides evidence that the prehistoric period brought flint mining to produce tools in the largest known example for the prehistoric exploitation of flint. The serial property illustrates diverse underground prehistoric mining structures comprising open-pit, niche-gallery, gallery, pillar-chamber and chamber mines – and primary workshops, which survive intact in well over 4,000 shafts and pits.

Integrity

Krzemionki Prehistoric Striped Flint Mining Region, as a whole, comprises the best preserved, most technically diverse and complete prehistoric flint mining assemblage known in a European context. All attributes necessary to express the Outstanding Universal Value are included in the serial property that represents the exploitation of the only known deposit of striped flint to be mined in prehistory. Principle features and attributes have been confirmed in detail using a combination of archaeological research methods, including Airborne Laser Scanning that has accurately mapped the sites in 3D under forest cover. The permanent settlement site, on a promontory in open agricultural fields, was archaeologically excavated in the late-1940s and 1950s and the boundary exceeds the archaeological site boundary that contains all known evidence of prehistoric settlement.

The property does not suffer from current adverse development or neglect. The preserved visual setting of the property is protected by means of restrictive buffer zone management and the rigorous application of heritage impact assessments including to quarries used in recent times.

Authenticity

Krzemionki Prehistoric Striped Flint Mining Region is authentic in all its attributes, expressed by information sources, that include: the well preserved form and structure of the underground structures, such as shafts, chambers, communication galleries, transport corridors, supporting pillars or waste heaps of mining and processing, as well as the aboveground industrial mining landscape consisting of shaft depressions and waste tips, remnants of flint workshops, miners' camps and communication routes. The majority of the mining fields are left unexcavated. At Krzemionki Opatowskie Mining Field, a small segment of the mining field has been excavated archaeologically and, after some conservation work, illustrates a combination of attributes that have remained almost unchanged for over 5,000 years. Attributes of Gawroniec Settlement are equally easily legible in terms of location and setting, form, and archaeological evidence that is tangible proof of organisation and process directly tied to the mining fields. Archaeological excavations were conducted between 1947 and 1961 and apart from plentiful waste from flint processing, dateable evidence included pottery (large storage vessels, funnel-shaped flasks and vases, ceramic pipes, and ceramic weaving spindles) and organic remains which were radiocarbon-dated to between 3,500 and 3,200 BCE.

Protection and management requirements

The property is under full legal protection in its entirety. The management system for Krzemionki Prehistoric Striped Flint Mining Region is implemented by the 'Krzemionki' Archaeological Museum and Reserve (Muzeum Archaeologiczne i Rezerwat "Krzemionki"), a local museum which takes the lead role in the management and protection of Krzemionki. Its activity has been adapted and extended to the other three component parts in the series, as part of a new property management plan process. A cultural park is being created (2020-2025) to facilitate the preparation of a local spatial development plan in integration with the management plan, which will enable planned and coordinated execution of the tasks and protection of the wider setting of the property.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

	Brief identification of attribute	Preserved	Compromised	Seriously compromised	Lost
3.2.1	An extremely wide range of ancient techniques of extracting striped flint in the Neolithic period	×			
3.2.2	Diversified landforms of a well-preserved anthropogenic surface	×			
3.2.3	A socio-technical example of prehistoric extraction and processing of striped flint	×			
3.2.4	Occurrence of unique habitats of animal and plant bioindicators	×			
3.2.5					
3.2.6					
3.2.7					
3.2.8					

3.2.9			
3.2.10			
3.2.11			
3.2.12			
3.2.13			
3.2.14			
3.2.15			

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

The attributes were determined on the basis of the previous findings contained in the nomination application and the results of the latest scientific research.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

X Relevant				Not relevant			
Impact		Origin		Trend of impact			
Impact	Current	Potential	Inside	© Outside	→ Decreasing	→ Stable	Increasing
O Positive							
Negative X	×	×		×		→	

4.1.2 - Commercial development

Polyont	¥ Matadagant
Relevant	X Not relevant

4.1.3 - Industrial areas

Relevant	X Not relevant

4.1.4 - Major visitor accommodation and associated infrastructure

Relevant	X Not relevant
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4.1.5 - Interpretative and visitation facilities

X Relevant				Not relevant			
Impact		Origin		Trend of impact			
Impact	Current	Potential	• Inside	© Outside	▶ Decreasing	→ Stable	Increasing
Positive X	×	×	×	×			,
Negative							

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively

Upgrading the existing museum and removing old, degraded infrastructure; organization of the Striped Flint Mining Trail

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

Relevant	★ Not relevant				
4.2.2 - Underground transport infrastructure					
Relevant	✗ Not relevant				
4.2.3 - Air transport infrastructure					
Relevant	X Not relevant				

4.2.4 - Marine transport infrastructure

Relevant	X Not relevant

4.2.5 - Effects arising from use of transportation infrastructure

Relevant	X Not relevant
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4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Relevant	✗ Not relevant

4.3.2 - Renewable energy facilities

X Relevant				Not relevant			
Impact		Origin		Trend of impact			
Impact	Current	Potential	Inside	© Outside	→ Decreasing	→ Stable	Increasing
O Positive							
Negative X		×		×			7

4.3.3 - Non-renewable energy facilities

Relevant	X Not relevant
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4.3.4 - Localised utilities

Relevant	Not relevant
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4.3.5 - Major linear utilities

Relevant X Not relevant	
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4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

4.4. Pollution

4.4.1 - Pollution of marine waters

Relevant	X Not relevant				
4.4.2 - Ground water pollution					
Relevant	X Not relevant				
4.4.3 - Surface water pollution					
Relevant	X Not relevant				
4.4.4 - Air pollution					
Relevant	➤ Not relevant				

4.4.5 - Solid waste

positively

Relevant	X Not relevant

4.4.6 - Input of excess energy

	Relevant	X Not relevant
4	I.4.7 - Please comment as necessary on how the factors s	elected as relevant in 4.4 are affecting the property either negatively or

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

	Relevant	X Not relevant			
4.5.2 - Aquaculture					
	Relevant	X Not relevant			

4.5.3 - Land conversion

Relevant X Not relevant

4.5.4 - Livestock farming/Grazing of domesticated animals

Relevant X Not relevant

4.5.5 - Crop production

× Relevant			ı	Not relevant			
Impact		Origin		Trend of impact			
Impact	Current	Potential	Inside	Outside	→ Decreasing	⇒ Stable	Increasing
Positive							
○ Negative ※	×			×	•		

4.5.6 - Commercial wild plant collection

Relevant X Not relevant

4.5.7 - Subsistence wild plant collection

Relevant X Not relevant

4.5.8 - Commercial hunting

Relevant X Not relevant

4.5.9 - Subsistence hunting

Relevant X Not relevant

4.5.10 - Forestry/Wood production

Relevant X Not relevant

4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

4.6. Physical resource extraction

4.6.1 - Mining

Relevant X Not relevant

4.6.2 - Quarrying

X Relevant				Not relevant	ot relevant				
Impact			Origin	Trend of impact					
Impact	Current	Potential	• Inside	© Outside	→ Decreasing	⇒ Stable	Increasing		
Positive									
○ Negative X	×	×		×	S				

4.6.3 - Oil and gas

Relevant X Not relevant

4.6.4 - Water (extraction)

Relevant X Not relevant

4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

Relevant X Not relevant

4.7.2 - Relative humidity

Relevant X Not relevant

4.7.3 - Temperature

Relevant

·	
Relevant	X Not relevant
4.7.4 - Radiation/Light	
Relevant	X Not relevant
4.7.5 - Dust	
Relevant	X Not relevant
4.7.6 - Water (rain/water table)	
Relevant	X Not relevant
4.7.7 - Pests	
Relevant	X Not relevant
4.7.8 - Micro-organisms	

4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

× Not relevant

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

Relevant	X Not relevant

4.8.2 - Society's valuing of heritage

Relevar	n t	X Not relevant
Iteleval	n.	Not relevant

4.8.3 - Indigenous hunting, gathering and collecting

Relevant	M Not relevant
	X Not relevant

4.8.4 - Changes in traditional ways of life and knowledge system

ant	✗ Not relevant
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4.8.5 - Identity, social cohesion, changes in local population and community

X Relevant				Not relevant				
Impact			Origin	Trend of impact				
Impact	Current	Potential	Inside	© Outside	▶ Decreasing	⇒ Stable	Increasing	
Positive								
	×	×		×			1	

4.8.6 - Impacts of tourism/Visitation/Recreation

× Relevant	ı	Not relevant					
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	Outside	▶ Decreasing	→ Stable	Increasing
O Positive X	×			×			P
		×		×			

4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

An increased influx of new settlers may result in a tightening of development around the property; an increase in tourist traffic may affect the condition of the monument and the surrounding nature, but it allows visitors to get acquainted directly with prehistoric flint mining

4.9. Other human activities

4.9.1 - Illegal activities

Relevant	✗ Not relevant

4.9.2 - Deliberate destruction of heritage

_	
Relevant	X Not relevant
4.9.3 - Military training	
Relevant	X Not relevant
4.9.4 - War	
Relevant	X Not relevant
4.9.5 - Terrorism	
Relevant	X Not relevant

4.9.6 - Civil unrest

Relevant	X Not relevant

4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively

4.10. Climate change and severe weather events

4.10.1 - Storms

X Relevant				Not relevant			
	Impact			gin Trend of impact			
Impact	Current	Potential	• Inside	© Outside	→ Decreasing	→ Stable	Increasing
O Positive							
Negative X	×	×		×		→	

4.10.2 - Flooding

Relevant	✗ Not relevant

4.10.3 - Drought

Not relevant	Relevant	✗ Not relevant
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4.10.4 - Desertification

Relevant	X Not relevant
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4.10.5 - Changes to oceanic waters

Relevant	X Not relevant

4.10.6 - Temperature change

Relevant	X Not relevant
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4.10.7 - Other climate change impacts

	Relevant	Not relevant
2	I.10.8 - Please comment as necessary on how the factors	selected as relevant in 4.10 are affecting the property either negatively or

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Relevant	X Not relevant
4.11.2 - Earthquake	
Relevant	X Not relevant

4.11.3 - Tsunami/Tidal wave

Relevant	X Not relevant

4.11.4 - Avalanche/Landslide

Relevant X Not relevant

4.11.5 - Erosion and siltation/Deposition

Relevant X Not relevant

4.11.6 - Fire (wildfire)

× Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	▶ Decreasing	⇒ Stable	Increasing
O Positive							
Negative X		×	×	×		→	

4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Relevant X Not relevant

4.12.2 - Invasive/Alien terrestrial species

★ Relevant		Not relevant					
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	→ Decreasing	→ Stable	Increasing
Positive							
Negative X	×			×		→	

4.12.3 - Invasive/Alien freshwater species

Relevant X Not relevant

4.12.4 - Invasive/Alien marine species

Relevant X Not relevant

4.12.5 - Hyper-abundant species

Relevant X Not relevant

4.12.6 - Modified genetic material

Relevant X Not relevant

4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

Open spaces are inhabited by the invasive species Canadian goldenrod

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

Relevant X Not relevant

4.13.2 - Legal framework

✗ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	© Outside	▶ Decreasing	→ Stable	Increasing
O Positive 🗶	×	×	×	×			,
Negative							

4.13.3 - Governance

Relevant X Not relevant

4.13.4 - Management activities

※ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	▶ Decreasing	→ Stable	Increasing
Positive X	×	×	×				1
Negative							

4.13.5 - Financial resources

× Relevant			1	Not relevant			
	Impact Origin Trend of impact						
Impact	Current	Potential	Inside	Outside	→ Decreasing	→ Stable	Increasing
Positive X	×	×	×	×			,
Negative							

4.13.6 - Human resources

≭ Relevant			1	Not relevant			
Impact Origin					Trend of impact		
Impact	Gurrent	Potential	Inside	Outside	▶ Decreasing	⇒ Stable	Increasing
O Positive X	×	×	×	×			1
Negative							

4.13.7 - Low impact research/monitoring activities

× Relevant				Not relevant				
	Impact Origin							
Impact	Current	Potential	Inside	Outside	▶ Decreasing	→ Stable	Increasing	
O Positive X	×	×	×				1	
Negative								

4.13.8 - High impact research/monitoring activities

Relevant	X Not relevant
Relevant	Not relevant

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively

4.14. Other factor(s)

4.14.1 - Other factor(s)

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact			Origin		Trend
4.1 Buildings and Development						
.1.1 Housing						
		q	9		Œ	\rightarrow
4.1.5 Interpretative and visitation facilities	O	9	9	•	Œ	P
4.3 Services Infrastructures						

4.3.2 Renewable energy facilities						
	(a)		q		F	
4.5 Biological resource use/modification						
4.5.5 Crop production						
		q			F	•
4.6 Physical resource extraction						
4.6.2 Quarrying						
		Ą	9		F	S
4.8 Social/Cultural uses of heritage						
4.8.5 Identity, social cohesion, changes in local population and community						
	a	A	A		্ৰে	,
4.8.6 Impacts of tourism/Visitation/Recreation	<u> </u>		·		. TOP	7
		-,	<i></i> 1		<i>√</i>	•
	9		4		Œ.	
4.10 Climate change and severe weather events						
4.10.1 Storms						
	•	9	9		F	→
4.11 Sudden ecological or geological events						
4.11.6 Fire (wildfire)						
			q	•	Œ	\rightarrow
4.12 Invasive/alien species or hyper-abundant species						
4.12.2 Invasive/Alien terrestrial species						
		F			G	→
4.13 Management and institutional factors						
		man .	en e	(nea.	21
4.13.2 Legal framework	(4	4	Q	G.	
A42 4 Management activities		ø	<i></i> 1			
4.13.4 Management activities	O	4	4	•		
4.13.5 Financial resources	O		9	•	G	7
4.13.6 Human resources	•		9	•	F	7
4.13.7 Low impact research/monitoring activities	•	F	9	•		7
Legend	Inside	ide		Outsi	de	

4.16. Assessment of current and potential positive and negative factors

4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development

Name	Impact			Origin		Trend
4.1.1 Housing						
		A	9		(\rightarrow
Spatial scale - Area affected by the factor						

	Restricted						
×	Localised						
	Extensive						
	Widespread						
Temporal s	cale - Occurence of the impact						
	One off or rare						
	Intermittent or sporadic						
	Frequent						
×	On-going						
Impact - Im	pact on the attributes						
	Insignificant						
×	Minor						
	Significant						
	Major						
Manageme	nt response - Capacity of management to respond						
×	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - De	elopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						
Name	and the sea desiration for this	Impact		~	Origin		Trend
4.1.5 interp	retative and visitation facilities		9	4	•	G.	
Spatial sca	le - Area affected by the factor						
	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal s	cale - Occurence of the impact						
	One off or rare						
	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Im	pact on the attributes						
	Insignificant						
	Minor						
	Significant						
	Major						
	nt response - Capacity of management to respond						

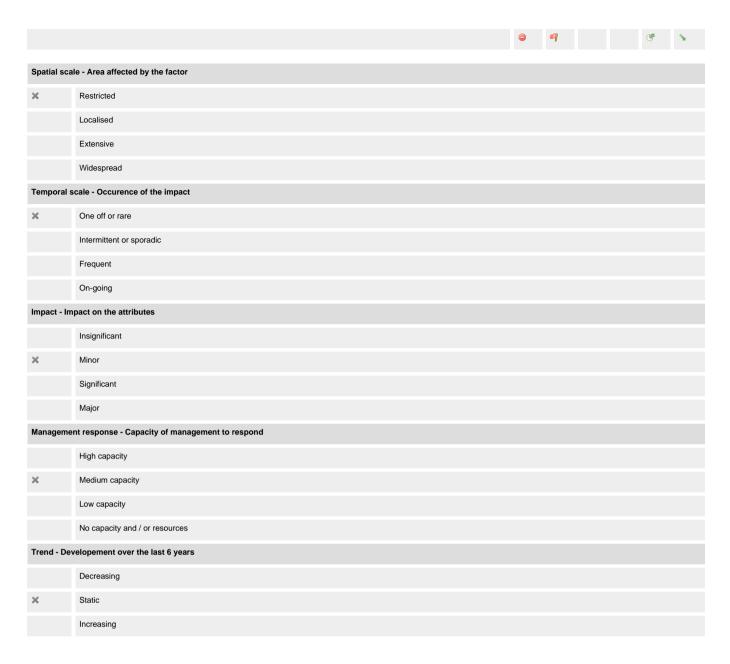
	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Dev	velopement over the last 6 years
	Decreasing
	Static
	Increasing

4.3 Services Infrastructures

Name	ame		Impact			Origin	
4.3.2 Renev	vable energy facilities						
				9		Œ	1
Spatial sca	le - Area affected by the factor						
	Restricted						
×	Localised						
	Extensive						
	Widespread						
Temporal s	cale - Occurence of the impact						
	One off or rare						
×	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Im	pact on the attributes						
	Insignificant						
	Minor						
×	Significant						
	Major						
Manageme	nt response - Capacity of management to respond						
	High capacity						
×	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Dev	relopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						

4.5 Biological resource use/modification

Name	Impact	Origin	Trend
4.5.5 Crop production			



4.6 Physical resource extraction

Name		Impact	ct		Origin		Trend
4.6.2 Quarr	ying						
			9	9		G	•
Snatial sca	le - Area affected by the factor						
opana. coa							
	Restricted						
×	Localised						
	Extensive						
	Widespread						
Temporal s	scale - Occurence of the impact						
	One off or rare						
	Intermittent or sporadic						
	Frequent						
×	On-going						
Impact - Im	pact on the attributes						

	Insignificant
×	Minor
	Significant
	Major
Manageme	nt response - Capacity of management to respond
	High capacity
×	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - De	velopement over the last 6 years
×	Decreasing
	Static
	Increasing

4.8 Social/Cultural uses of heritage

Name	Impact			Origin		Trend
4.8.5 Identity, social cohesion, changes in local population and community						
		9	9		ઉ	1
Spatial scale - Area affected by the factor						
Restricted						
Localised						
Extensive						
Widespread						
Temporal scale - Occurence of the impact						
One off or rare						
Intermittent or sporadic						
Frequent						
On-going						
Impact - Impact on the attributes						
Insignificant						
Minor						
Significant						
Major						
Management response - Capacity of management to respond						
High capacity						
Medium capacity						
Low capacity						
No capacity and / or resources						
Trend - Developement over the last 6 years						
Decreasing						
Static						
Increasing						

Name		Impact		mpact Orig			Trend
4.8.6 Impac	ts of tourism/Visitation/Recreation	•	q			G	1
				9		Œ	
Custial see	le. Asses effected by the feeter						
Spatial Sca	le - Area affected by the factor						
	Restricted						
×	Localised						
	Extensive						
	Widespread						
Temporal s	cale - Occurence of the impact						
	One off or rare						
	Intermittent or sporadic						
	Frequent						
×	On-going						
Impact - Im	pact on the attributes						
×	Insignificant						
	Minor						
	Significant						
	Major						
Manageme	nt response - Capacity of management to respond						
×	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Dev	relopement over the last 6 years						
	Decreasing						
×	Static						
	Increasing						

4.10 Climate change and severe weather events

Name			Origin		Trend		
4.10.1 Stor	1.10.1 Storms						
			9	9		©	\rightarrow
Spatial sca	ale - Area affected by the factor						
×	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal	Temporal scale - Occurence of the impact						
×	One off or rare						
	Intermittent or sporadic						

	Frequent
	On-going On-going
Impact - Im	pact on the attributes
×	Insignificant
	Minor
	Significant
	Major
Manageme	ent response - Capacity of management to respond
	High capacity
×	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - De	velopement over the last 6 years
	Decreasing
×	Static
	Increasing

4.11 Sudden ecological or geological events

Name		Impact		oact Origin			Trend
4.11.6 Fire (wildfi	ire)						
	al scale - Area affected by the factor			9	•	Œ	\rightarrow
Spatial scale - Are	rea affected by the factor						
× Rest	tricted						
Loca	alised						
Exter	ensive						
Wide	espread						
Temporal scale -	Occurence of the impact						
X One	off or rare						
Intern	rmittent or sporadic						
Freq	quent						
On-g	going						
Impact - Impact o	on the attributes						
X Insig	gnificant						
Mino	or						
Signi	ificant						
Мајо	or						
Management resp	ponse - Capacity of management to respond						
High	n capacity						
× Medi	lium capacity						
Low	capacity						
No c	capacity and / or resources						
Trend - Develope	ement over the last 6 years						

×	Decreasing
	Static
	Increasing

4.12 Invasive/alien species or hyper-abundant species

Name		Impact		pact			Trend
4.12.2 Invasive/Alien ter	12.2 Invasive/Alien terrestrial species						
	atial scale - Area affected by the factor		9			G	\rightarrow
Spatial scale - Area affe	ted by the factor						
Restricted							
Localised							
Extensive							
Widespread							
Temporal scale - Occur	nce of the impact						
One off or ra	re						
Intermittent	or sporadic						
Frequent							
On-going							
Impact - Impact on the a	tributes						
Insignificant							
Minor							
Significant							
Major							
Management response	Capacity of management to respond						
High capaci	,						
Medium cap	acity						
Low capacit							
	and / or resources						
Trend - Developement of	ver the last 6 years						
Decreasing							
Static							
Increasing							

4.13 Management and institutional factors

Name	Name				Origin	Trend	
4.13.2 Leg	4.13.2 Legal framework		9	9	•	Œ	-
Spatial sca	le - Area affected by the factor						
	Restricted						
	Localised						
×	Extensive						

	Widespread					
Temporal s	scale - Occurence of the impact					
	One off or rare					
	Intermittent or sporadic					
	Frequent					
×	On-going					
Impact - Im	pact on the attributes					
	Insignificant					
	Minor					
×	Significant					
	Major					
Manageme	nt response - Capacity of management to respond					
×	High capacity					
	Medium capacity					
	Low capacity					
	No capacity and / or resources					
Trend - De	velopement over the last 6 years					
	Decreasing					
×	Static					
	Increasing					
Name		Impact			Origin	Trend
	agement activities	Impact	9	9	Origin	Trend
	agement activities			9		
4.13.4 Man	agement activities le - Area affected by the factor			9		
4.13.4 Man				9		
4.13.4 Man	le - Area affected by the factor			q		
4.13.4 Man	le - Area affected by the factor Restricted			q		
4.13.4 Man	le - Area affected by the factor Restricted Localised			व		
4.13.4 Man	le - Area affected by the factor Restricted Localised Extensive			व		
4.13.4 Man	le - Area affected by the factor Restricted Localised Extensive Widespread			q		
4.13.4 Man	le - Area affected by the factor Restricted Localised Extensive Widespread scale - Occurence of the impact			q		
4.13.4 Man	le - Area affected by the factor Restricted Localised Extensive Widespread icale - Occurence of the impact One off or rare			q		
4.13.4 Man Spatial sca	Restricted Localised Extensive Widespread Cocale - Occurence of the impact Intermittent or sporadic			q		
4.13.4 Man Spatial sca	le - Area affected by the factor Restricted Localised Extensive Widespread cale - Occurence of the impact One off or rare Intermittent or sporadic Frequent			q		
4.13.4 Man Spatial sca	le - Area affected by the factor Restricted Localised Extensive Widespread cale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going			q		
4.13.4 Man Spatial sca	le - Area affected by the factor Restricted Localised Extensive Widespread scale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going pact on the attributes			q		
4.13.4 Man Spatial sca X Temporal s	le - Area affected by the factor Restricted Localised Extensive Widespread icale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going pact on the attributes Insignificant			q		
4.13.4 Man Spatial sca X Temporal s	Restricted Localised Extensive Widespread cale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going pact on the attributes Insignificant Minor			q		
4.13.4 Man Spatial sca X Temporal s	le - Area affected by the factor Restricted Localised Extensive Widespread Sicale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going pact on the attributes Insignificant Minor Significant			q		
4.13.4 Man Spatial sca X Temporal s	Restricted Localised Extensive Widespread Cocale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going pact on the attributes Insignificant Minor Significant Major			q		

	Low capacity						
	No capacity and / or resources						
Trend - Dev	relopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						
Name		Impact			Origin		Trend
4.13.5 Fina	ncial resources	O	9	A	•	G	7
Spatial sca	le - Area affected by the factor						
	Restricted						
×	Localised						
	Extensive						
	Widespread						
Temporal s	cale - Occurence of the impact						
	One off or rare						
	Intermittent or sporadic						
	Frequent						
×	On-going						
Impact - Im	pact on the attributes						
	Insignificant						
×	Minor						
	Significant						
	Major						
Manageme	· nt response - Capacity of management to respond						
	High capacity						
×	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Dev	relopement over the last 6 years						
Det	Decreasing						
	Static						
~							
×	Increasing						
Name		Impact			Origin		Trend
	an resources	•	9	9	•	G	1
Snatial sca	le - Area affected by the factor						
opatial SCA	Restricted						
~							
×	Localised						
	Extensive Widespread						
	wineshiean						

Temporal	cale - Occurence of the impact					
	One off or rare					
	Intermittent or sporadic					
	Frequent					
×	On-going					
Impact - Im	pact on the attributes					
	Insignificant					
×	Minor					
	Significant					
	Major					
Manageme	nt response - Capacity of management to respond					
	High capacity					
×	Medium capacity					
	Low capacity					
	No capacity and / or resources					
Trend - De	elopement over the last 6 years					
	Decreasing					
	Static					
×	Increasing					
Name		Impact		en e	Origin	Trend
4.13.7 LOW	impact research/monitoring activities	©	4	9	•	
Spatial sca	e - Area affected by the factor					
	Restricted					
×	Localised					
	Extensive					
	Widespread					
Temporal	cale - Occurence of the impact					
	One off or rare					
×	Intermittent or sporadic					
	Frequent					
	On-going On-going					
Impact - In	pact on the attributes					
	Insignificant					
×	Minor					
	Significant					
	Major					
Manageme	nt response - Capacity of management to respond					
	High capacity					
×						

	No capacity and / or resources
Trend - De	velopement over the last 6 years
	Decreasing
×	Static
	Increasing

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

4.1.1 - Krzemionki - The ongoing or planned housing development (buffer zone) 4.3.2 - Krzemionki, Borownia - potential location of photovoltaic farms (buffer zone) 4.5.5 - Krzemionki, Borownia - local farming (buffer zone) 4.6.2 - Korycizna - local quarring (buffer zone) 4.8.6 - Krzemionki 4.10.1, 4.11.6 - Krzemionki, Borownia, Korycizna - forest areas 4.13.1 - all, management plan not fully implemented 4.13.2 - all, the organization of the cultural park has not been completed 4.13.3 - all

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	An extremely wide range of ancient techniques of extracting striped flint in the Neolithic period	×			
4.18.1.2	Diversified landforms of a well-preserved anthropogenic surface	×			
4.18.1.3	A socio-technical example of prehistoric extraction and processing of striped flint	×			
4.18.1.4	Occurrence of unique habitats of animal and plant bioindicators	×			
4.18.1.5					

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries are adequate to maintain the property's Outstanding Universal Value

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries are known by both the management authority and local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The buffer zones are **adequate** to maintain the property's Outstanding Universal Value

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The buffer zones of the World Heritage property are known and recognised by both the management authority and local communities/landowners

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

Comment

Informations in chapter 5.2.2

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

1994 / Memorial of History: Krzemionki – Neolithic era flint mines / Regulation of the President of the Republic of Poland of 8 September 1994, the Official Journal of the Republic of Poland 'Monitor Polski' no. 50, item 419 /

https://eli.gov.pl/api/acts/MP/1994/419/text.pdf

1999 / Change of the Voivodeship Monument Conservator's decision regarding name and boundaries of registered monument / Decision of 15 December 1999 by the Voivodeship Monument Conservator, sgn. WO SOZ Ki-4430/3230/99 /

1981 / The remains of prehistoric striped flint mine 'Borownia' in Ruda Ko cielna / Decision of 15 September 1981 by the Voivodeship Monument Conservator to entry the monument into the Register of monuments (no. A 260), sgn. KL.6-5350/206/81 /

1982 / Striped flint mine 'Korycizna' in Wojciechówka village / Decision of 15 July 1982 by the Voivodeship Monument Conservator to entry the monument into the Register of monuments, (register no. A 265), sgn. KL VI-5330/171/82 /

2019 / An immovable monument in the form of cultural layers and the products of a multicultural settlement complex found in them, within the archaeological site mielów 1 'Gawroniec' / Decision of 28 February 2019 by the Voivodeship Monument Conservator to entry the monument into the Register of monuments, (register no. C.39), sgn. ZATiRA.RA.5134.183.1.2018 /

2020 / A fragment of a mining field as an integral part of an archaeological monument - a complex of prehistoric striped flint mines - an archaeological reserve 'Krzemionki Opatowskie', cadastral parcel 295 in Stoki Stare / Decision of 25 August 2020 by the Voivodeship Monument Conservator to entry the monument into the Register of monuments, sgn.

ZATIRA.RA.5134.184.1.2019 /

1995 / Krzemionki Opatowskie Nature Reserve / Order of the Minister of Environmental Protection, Natural Resources and Forestry of 27 June 1995; the Official Journal of the Republic of Poland 'Monitor Polski' no. 33 of 1995, item 396 /

2009 / Krzemionki Opatowskie Natura 2000 Site of Community Importance (SCI) / PLH 260024 data form /

2009 / Dolina Kamiennej Natura 2000 Site of Community Importance (SCI) / PLH 260019 data form /

2022 / Mining and settlement region of exploitation and processing of minerals on the Kamienna River / Notification on the initiation of proceedings regarding the entry of an area in the register of archaeological monuments, Voivodeship Monument Conservator's letter of 31 August 2022, sgn. ZATiRA.RA.5140.1.2022 /

2023 / 'Rudzki' Cultural Park / President's of the City mielów Council public notice on the initiation of proceedings regarding the establishment of 'Rudzki' Cultural Park of 30 March 2023 /

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an adequate basis for effective management and protection

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The legal framework for the broader setting of the World Heritage property provides an adequate basis for effective management and protection of the property, contributing to the maintenance of its Outstanding Universal Value including conditions of Authenticity and/or Integrity

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There is adequate capacity/resources to enforce legislation and/or regulation in the World Heritage property

- 5.2.7 Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice
- 5.2.8 Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property
- 5.3. Management System/Management Plan
- 5.3.1 Please check the box which most closely match the character of the governance and management system of the property Public management system joint national/ local

If 'Other', please specify

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

Other forms of statutory or non-statutory plans (e.g. strategic plans)

Agreed 'Memorandums of Understanding' between different managing institutions, groups or others, including documents agreed with local communities for management

A management plan

An annual work plan or business plan

A disaster, climate or conflict risk management plan

A visitor/visitation management plan

An assessment of biological and cultural diversity and ecosystem services provided by the property

5.3.3 - Please give a brief description of the management system currently in place at your property

5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Management Plan	N/A	Available	2019	

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

The 2011 Recommendation on the Historic Urban Landscape is **not relevant** to this property

- 5.3.6 If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.
- 5.3.7 Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

- 5.3.8 If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:
- 5.3.9 Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property?

 No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties
- 5.3.10 If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done
- 5.3.11 Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property

There is adequate coordination between all bodies/levels involved in the management of the property

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

The management system/plan is fully adequate to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

The management system is being fully implemented and monitored

5.3.14 - Is there an annual work/action plan and is it being implemented?

An annual work/action plan exists and many of its activities are being implemented

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
5.3.15.1	Local communities				×	
5.3.15.2	Local authorities					×
5.3.15.3	Landowners in the property and the buffer zone				×	
5.3.15.4	Indigenous peoples	×				
5.3.15.5	Women	×				
5.3.15.6	Other specific groups	×				
	If you selected, 'Other specific groups' please specify					

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities					×
5.3.16.2	Local/Municipal authorities				×	
5.3.16.3	Indigenous peoples	×				
5.3.16.4	Landowners				×	
5.3.16.5	Women	×				
5.3.16.6	Youth/Children					×
5.3.16.7	Researchers					×
5.3.16.8	Local Visitors/Tourists				×	
5.3.16.9	National/International tourists					×
5.3.16.10	Tourism Industry				×	
5.3.16.11	Local businesses and industries				×	
5.3.16.12	NGOs					×
5.3.16.13	Other specific groups	×				
	If you selected 'Other specific groups', please specify					

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the World Heritage Convention

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality	×				
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)				×	
5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status	×				
5.3.17.4	The management system of the property integrates a human rights-based approach	×				
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood			×		
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property			×		

- 5.3.18 Please provide further details on the ratings of the management system given in the table above
- 5.3.19 Comments, conclusions and/or recommendations related to the management system/plan
- 6. Financial and Human Resources
- 6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	58 %	42 %
6.1.1.7	Governmental (regional/provincial/state)	0 %	0 %
6.1.1.8	Governmental (local/municipal)	42 %	42 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	16 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	0 %	0 %
		Total 100 %	Total 100 %

- 6.1.2 Please comment here on any other aspects of funding sources not covered in the table above
- 6.1.3 Is the current budget sufficient to manage the World Heritage property effectively?

The available **budget is acceptable** but **could be further improved** to fully meet the management needs

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are $\ensuremath{\textit{secure over both the medium-}}$ and $\ensuremath{\textit{long-term}}$

- 6.1.5 Comments, conclusion, and/or recommendations related to finance and infrastructure
- 6.1.6 Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

		From local communities %	From elsewhere %
6.1.6.1	Men	55 %	0 %
6.1.6.2	Women	45 %	0 %
		Total 100 %	Total 0 %

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources partly meet the management needs of the World Heritage property

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Conservation	Good
Environmental sustainability	Fair
Community participation and inclusion	Fair
Risk preparedness	Fair
Capacity development and education	Fair
Administration	Good
Research and monitoring	Good
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Good
Enforcement (custodians, police)	Fair

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Conservation	Fair
Environmental sustainability	Fair
Community participation and inclusion	Fair
Risk preparedness	Good
Capacity development and education	Fair
Administration	Good
Research and monitoring	Fair
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Fair
Enforcement (custodians, police)	Not applicable

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property?

Some use has been made of the World Heritage Strategy for Capacity Building

- 6.1.11 If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.
- 6.1.12 Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff

- 6.1.13 Comments, conclusions and/or recommendations related to human resources, expertise and training
- 7. Scientific Studies and Research Projects
- 7.1 Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values and attributes of the World Heritage property is acceptable for most key areas but there are gaps

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is a **comprehensive**, **integrated programme** of research, which is relevant to management needs and/or improving understanding of Outstanding Universal

7.3 - Are results from research programmes publicly available and disseminated?

Research results are shared widely with active outreach to local communities and national and international audiences

- 7.4 Comments, conclusions and/or recommendations related to scientific studies and research projects
- 8. Education, Information and Awareness Building
- 8.1 Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities	Fair
Local/municipal authorities	Poor
Indigenous peoples	Not applicable
Landowners	Poor
Women	Not applicable
Youth/children	Fair
Researchers	Good
Local visitors	Fair
National/international tourists	Good
Tourism industry	Fair
Local businesses and industries	Poor
NGOs	Good
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue?

There is a planned and effective education and awareness programme for children and youth that contributes to the protection of the World Heritage property

8.3 - Who are the target audiences for education and awareness programmes at your property?

Local communities
Youth/children
Local Visitors
National/international tourists

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

Visitor centre	Fair
Site museum	Good
Information booths	Fair
Guided tours	Good
Trails/routes	Fair
Printed information materials	Good
Online (website, social media, etc.)	Good
Transportation facilities	Good
Other	Not needed
If 'Other' is selected, please specify	

- 8.5 Comments, conclusions and/or recommendations related to education, information and awareness building
- 9. Visitor Management
- 9.1 Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries

Visitor surveys

9.3 - What is the average length stay of a visitor to the World Heritage property?

One to three hours

9.4 - Please provide the source of information

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

40 / 15 / 20 / 10 / 25 / 15 /

9.6 - Please provide the source of information

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?

There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation

9.8 - Please provide any comments relating to the answer provided above in question 9.7

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

Visitor use of the World Heritage property is effectively managed and does not impact its Outstanding Universal Value

9.10 - Is the effectiveness of tourism management regularly monitored?

Yes, using a different system

If a different system, please specify

Internal tourism management system in Archaeological Museum and Reserve Krzemionki

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the Outstanding Universal Value of the World Heritage property?

There is limited cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?

The Outstanding Universal Value of the property is adequately presented and interpreted

9.13 - At how many locations is the World Heritage emblem displayed at the property?

In one location and easily visible to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property? Fees are collected, and make some contribution to the management of the World Heritage property

9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

Organization of tourist trails by local associations.

9.16 - Are the benefits of tourism shared with local communities?

Yes

If 'Yes', please specify

An impact on social integration around the property and improve the state of knowledge.

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?

There is considerable monitoring but it is not directed towards management needs and/or improving the understanding of Outstanding Universal Value

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?

Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation			×	
10.3.2	Effectiveness of the management system			×	
10.3.3	Character of governance			×	
10.3.4	Appropriate synergy with other conservation designations			×	
10.3.5	Contribution to sustainable development			×	
10.3.6	Capacity development			×	

10.4 - Please provide information on relevant key indicators adopted at the property

10.5 - Please rate the level of involvement in monitoring of the following groups:

World Heritage managers/coordinators and staff	Good
Local/municipal authorities	Fair
Local communities	Fair
Indigenous peoples	Not applicable
Landowners	Poor
Women	Not applicable
Researchers	Good
Tourism industry	Poor
Local businesses and industry	Poor
NGOs	Good
Other specific groups	Not applicable
If you selected 'Other specific groups', please specify	

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee? Implementation is underway

- 10.7 Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.
- 10.8 Comments, conclusions and/or recommendations related to Monitoring
- 11. Identification of Priority Management Needs
- 11.1 Identification of Priority Management Needs

5.2	Protective Measures	
5.2.4	An adequate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	×
5.3	Management System/Management Plan	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	
5.3.17	 In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage property 	×
6.1	Funding	
6.1.3	The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property	×
6.1.7	Human resources partly meet the management needs of the World Heritage property	×
6.1.10	Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	×
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	×

9	Visitor Management					
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation	×				
9.11	There is limited cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation	×				
10	Monitoring					
10.1	There is considerable monitoring at the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	×				
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	×				
Please select 0 more issues.						
☑ Please save this question to reflect changes						

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.1	Buildings an	d Development					
1.1.1	Housing	Threat of disturbing the cultural landscape in the buffer zone of the property due to too intensive residential development.	Work on the organization of a cultural park; land purchase project for the state treasury.	Consultation meetings with representatives of local governments.	2017-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, local governments, Ministry of Culture and National Heritage, land owners.	
4.3	Services Infrastructures						
4.3.2	Renewable energy facilities	Threat of disturbing the cultural landscape in the buffer zone of the property due to the planned construction of photovoltaic power plants.	Work on the organization of a cultural park.	Consultation meetings with representatives of local governments.	2021-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, local governments, local society.	
4.5	Biological re	source use/modification					
4.5.5	Crop production	Threat to archaeological settlement and production sites due to too deep plowing.	Work on the organization of a cultural park; land purchase project for the state treasury.	Consultations with land owners, monitoring of land surface.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, land owners, Ministry of Culture and National Heritage, local governments.	
1.6	6 Physical resource extraction						
4.6.2	Quarrying	Opencast mining of limestone in the buffer zone of component 3 - Korycizna and the potential possibility of starting mining in the buffer zone of component 1 - Krzemionki Opatowskie.	Work on the organization of a cultural park; actions to change the local law.	Monitoring the activities of local governments; refusal of positive environmental decisions for mining investments.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, local governments.	-
4.8	Social/Cultural uses of heritage						
4.8.6	Impacts of tourism/Visitation/F	Tourist traffic in the area of the property.	Tourism management	Observation of changes and trends in tourist traffic; measurements of underground microclimate changes in Krzemionki.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski.	-

4.10.1	Storms	The blowing of trees by the wind.	Thinning of the forest cover in the mining field in Krzemionki; removal of fallen trees.	Removal of trees at risk of falling over; monitoring of forest areas.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, National forests.	
4.11	Sudden ecologic	al or geological eve	nts				
4.11.6	Fire (wildfire)	Forest fire.	Launch of video monitoring in the area of the Museum in Krzemionki; education about behavior in the forest.	Patrols in forest areas; litter moisture control; weather monitoring.	Permanent	National forests, Historical and - Archaeological Museum in Ostrowiec wi tokrzyski.	
Summary - Factors affecting the Property completed							

12.2. Summary - Management Needs

Actions An adequate legal relation of a cultural park legal relation of the transport of the transport of the transport of the transport of the World Heritage property, and/or therapy of the World Heritage property o	le fra th	•	Actions		Timeframe		Load agoney (and	d athens invelved)	More info / comme	
In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood enancer, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood enancer, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood enancer, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood enancer, the management development, and to enhancing livelihood enancer.	le fra th	•					Lead agency (and	a otners involved)		nt
5.3.17 In a limited manner, the management system of the World Heritage property does contribute to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to conflict property does contribute to conflict prevention, including respect for cultural diversity	th Ut in cc Ar ar of Hr pr bt	amework in the buffer zone for maintaining the Outstanding niversal Value cluding notitions of tuthenticity and/or Integrity of the World teritage troperty exists tut there are tome efficiencies in	and an entry in		2020-2025		in Ostrowiec wi	tokrzyski, mielów deship Monument		
manner, the management system of the World Heritage property, protection of monuments and increase system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to fostering inclusive local economic development, and to enhancing livelihood In a limited manner, the management system of the World Heritage property does contribute to conflict prevention, including respect for cultural diversity	5.3	Management S	System/Manag	ement Plan						
around the World Heritage property	5.3.17	manne manage system World Heritag propert contrilt fosterir inclusi local econor develo and to enhane livelihe In a lim manne manage system World Heritag propert contrilt conflic preven includi respec cultura diversi within arounc World Heritag	r, the ement of the e y does suite to ng ye mic pment, sing sod nited r, the ement of the e y does suite to ttion, ng t for il ty and l the	of the World Heritage	e property, ents and increase	2020-2023		Ostrowiec wi tokrz Association, Friends	yski, M.O.S.T.	

6.1.3	The available budget is acceptable but could be further improved to fully meet the management needs of the World Heritage property	Raising funds from outside the budget for specific projects	2021-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, M.O.S.T. Association, Friends of the History of mielów Society.	Financial resources for scientific research, promotion of the property, organization of tourist trails, as well as active protection of monuments
6.1.7	Human resources partly meet the management needs of the World Heritage property	Increasing employment in the field of scientific research and interpretation of the property	2020-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	Lack of people responsible for the care of the World Heritage property in local governments
6.1.10	Some use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	The museum's involvement in the creation of local law protecting the property; Building competencies in the field of individual development of employees.	2019-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	Conservation and research works carried out by the Museum in the area of prehistoric striped flint mines in Krzemionki and other sites related to prehistoric mining in the region.	2019-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	Most of the conservation and research activities are carried out by local staff, but some are carried out by external staff due to project implementation circumstances.
9	Visitor Managemen	t			
9.7	strategy to manage visitors, tourism activity and its derived impacts on the World Heritage	Implementation of the project "Increasing accessibility to the Historical and Archaeological Museum in Ostrowiec wi tokrzyski by improving the infrastructure of the Archaeological Museum and the Krzemionki Reserve and the Wielopolski Palace".	2019-2023	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	A visitor management strategy that takes into account the needs of taking care of the property and the rules of tourist safety exists only for the Krzemionki Opatowskie component.
9.11		Promotion of the World Heritage property at various levels.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	The tourism industry shows limited interest in the components of the property which are not accessible to tourists.
10	Monitoring				

10.1	There is considerable monitoring at the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	Monitoring of monuments related to prehistoric mining in the region	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski, Voivodeship Monuments Conservator	Continuous monitoring is carried out mainly for the Krzemionki component, to a lesser extent for the other components.
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	Monitoring changes in the topography of the mining field; registration of the state of preservation of prehistoric post-mining workings; microclimate monitoring in the underground tourist route.	Permanent	Historical and Archaeological Museum in Ostrowiec wi tokrzyski	Continuous monitoring is carried out mainly for the Krzemionki component, to a small extent for the other components.

Summary - Management Needs completed

- 12.3. Conclusions on the State of Conservation of the Property
- 12.3.1 Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

 The Authenticity of the World Heritage property has been preserved
- 12.3.2 Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property? The Integrity of the World Heritage property is intact
- 12.3.3 Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value has been maintained.

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values and the state of conservation of the World Heritage property are intact

- 12.3.5 Comments. conclusions and/or recommendations related to the state of conservation of the property.
- 13. Impact of World Heritage Status
- 13.1 Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Positive
Research and monitoring	Positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	No impact
Recognition	Very positive
Education	Positive
Infrastructure development	No impact
Funding for the property	Positive
International cooperation	Positive
Political support for conservation	No impact
Legal/Policy framework	No impact
Advocacy	Positive
Institutional coordination	No impact
Security	No impact

Gender equality	Not applicable
Provision of ecosystem services/ benefits to local communities	Positive
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Not applicable
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Not applicable
Other	Not applicable
If 'Other', please specify	

- 13.2 Comments, conclusions and/or recommendations related to World Heritage status and its impacts
- 14. Good Practice in the Implementation of the World Heritage Convention
- 14.1 Example of good practice in World Heritage protection, identification, conservation or management at the property level Cooperation with local associations to improve identification and understanding of the World Heritage property.
- 14.2 Define which topics are covered by this example of best practice at the property level

Synergies
Capacity Building

- 15. Assessment of the Periodic Reporting Exercise
- 15.1. Relevance of Periodic Reporting
- 15.1.1 Has the Periodic Reporting process improved the understanding of the following?

Management effectiveness to maintain the Outstanding Universal Value

Monitoring and reporting

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

State Party	Good
Site Managers	Good
UNESCO World Heritage Centre	Good
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Good

- 15.2. Use of Data
- 15.2.1 How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Fundraising
Awareness raising
Advocacy

- 15.2.2 Comments on use of data from the Cycle of Periodic Reporting
- 15.3. Timing and resources
- 15.3.1 Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Site Manager/Coordinator World Heritage property staff
Focal points of other international conventions/programmes

- 15.3.2 Has a gender balanced contribution and participation been considered in the filling out of this questionnaire? Gender balance has **not been explicitly** considered or implemented in the process.
- 15.3.3 Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire? Yes
- 15.3.4 Please estimate the time (working hours) needed to complete this questionnaire

30 / 5 / 10 /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

Additional resources	No	Yes	

15.3.5.1	Human resources		×
15.3.5.2	Financial resources for organizing consultation meetings/ training	×	

15.4. Format and content of the Periodic Report

15.4.1 - How accessible was the information required to complete this questionnaire?

Most required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire				×
15.4.2.2	Clarity of questions			×	

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

15.5. Training and Guidance

15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire

UNESCO World Heritage Centre	Not applicable
UNESCO (other sectors/field offices)	Good
UNESCO National Commission	Not applicable
ICOMOS International	Not applicable
IUCN International	Not applicable
ICCROM international/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

UNESCO World Heritage Centre	Good
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	Not applicable
National Commission for UNESCO	Not applicable
ICOMOS International	Not applicable
ICCROM International/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable
IUCN International	Not applicable

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire?

Not applicable (i.e. I did not use these resources)

- 15.5.4 If you found that the online training resources were not adequate, what changes would you like to see implemented?
- 15.6. Actions that will require formal consideration by the World Heritage Committee
- 15.6.1 Summary of actions that will require formal consideration by the World Heritage Committee

No item were proposed for update

- 15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise
- 15.7.1 Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise
- 15.7.2 Thank you for having filled in all the questions. Please contact your National Focal Point for validation.