## Mines of Rammelsberg, Historic Town of Goslar and Upper Harz Water Management System

## 1. World Heritage Property Data

#### 1.1 - Name of World Heritage property

Mines of Rammelsberg, Historic Town of Goslar and Upper Harz Water Management System

#### 1.2 - World Heritage property details

#### 1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
	0/0	?	?	?	
	0/0	?	?	?	
Mines of Rammelsberg and Historic Town of Goslar	51.89 / 10.421	363.3	376.1	739.4	2008
Upper Harz Water Management System	51.82 / 10.34	1009.89	5654.69	6664.58	2010
Total (ha)		1373.19	6030.79	7403.98	

#### 1.4 - Map(s)

Title	Date	Link to source
Upper Harz Water Management System 2010	2008	
Mines of Rammelsberg and the historic Town of Goslar	2008	

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

- 1. Bergwerk Rammelsberg und Altstadt von Goslar (Deutsche UNESCO- Kommission)(german only)
- 2. <u>UNESCO Commission of Germany</u>
- 3. https://www.welterbeimharz.de https://www.facebook.com/welterbeimharz/ https://twitter.com/welterbeimharz\_https://www.instagram.com/welterbe im\_harz/
- 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?

Nο

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?

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

Nο

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?

No

## 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 <b>no contact</b> 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 <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> 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 <b>no contact</b> with the Focal Point(s) of this designation/programme.	×
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> 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 <b>no contact</b> 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 <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is <b>no contact</b> 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 <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is <b>no contact</b> 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 <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	

## 2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

There is a cooperation agreement between the World Heritage Foundation in the Harz Mountains and the UNESCO Global Geopark Harz - Braunschweiger Land - Ostfalen. Likewise, an employee of the foundation is a member of the Geopark advisory board.

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?

No

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

Intangible Cultural Heritage of which you are aware

There ist no UNESCO Intangible Cultural Heritage but Nationwide Directory of Intangible Cultural Heritage: Finch maneuver in the Harz Mountains (since 2014).

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

Yes

# 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.

UNESCO Documentary Heritage "Correspondence of Gottfried Wilhelm Leibniz" (since 2007)

#### 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**

The copper, lead and tin mines of Rammelsberg mountain, in the Harz region, were worked continuously from the 11th century until the 1980s. They bear outstanding testimony to mining installations and practices in Europe, both in terms of surface and underground remains, particularly from the Middle Ages and the Renaissance period.

The remains of the Cistercian monastery of Walkenried and the mines of the Upper Harz bear testimony to the first attempts to systematically extract non-ferrous metal ores (including silver, lead, tin and copper) in Europe, and to develop water-management systems for this purpose.

Located close to the Rammelsberg mines, the town of Goslar played an important part in the Hanseatic League because of the richness of the Rammelsberg metal-ore veins. From the 10th to the 12th century it became one of the seats of the Holy Roman Empire. Its historic centre, which dates back to the Middle Ages, is perfectly preserved, and includes some 1,500 timber-framed houses from the 15th to 19th centuries. The Upper Harz water-management system, through its extensive surface area, including a large number of artificial ponds and ditches, together with drains and underground shafts, bears testimony to the importance of the management and use of water for mining purposes, from the Middle Ages until the end of the 20th century.

Criterion (i): The historic mining network of the Mines of Rammelsberg, the Historic Town of Goslar and the Upper Harz Water-Management System constitutes one of the largest mining and metallurgical complexes for non-ferrous metals in Europe. Known to have existed since ancient times, it has been in continuous use since the Middle Ages, initially under the impetus of Cistercian monks, and in later periods under the control of regional princes and of the Holy Roman Empire, of which Goslar was one of the capitals. The ensemble is an outstanding example of human creative genius in the fields of mining techniques and industrial water-management.

Criterion (ii): The historic mining network of the Mines Rammelsberg, the Historic Town of Goslar and the Upper Harz Water-Management System exhibits an important interchange of human values, in the field of mining and water management techniques, from the Middle Ages until the modern and contemporary periods in Europe. It was the inspiration for Agricola's De re metallica, the authoritative work on metalluray and mining in the Renaissance.

Criterion (iv): The historic mining network of the Mines of Rammelsberg, the Historic Town of Goslar and the Upper Harz Water-Management System constitutes an outstanding and very comprehensive technological ensemble in the fields of mining techniques, non-ferrous metallurgy and the management of water for drainage and power. Its extent and its period of continuous operation are exceptional. It also provides a characteristic example of administrative and commercial organization in the Middle Ages and the Renaissance period, through the remains of the monastery of Walkenried and the town planning of the Historic Town of Goslar.

#### Integrity and authenticity

The integrity of the water-management system is excellent in terms of its very comprehensive embodiment in the property, its functional dimension which is still in use, and the quality of the associated landscapes in the Upper Harz mountains. It bears testimony however primarily to alterations dating from the Renaissance until the contemporary era. In some specific cases, efforts to preserve ancient and traditional water-management elements are essential.

With regard to the industrial and technical elements of the Rammelsberg mine, the authenticity of the surviving elements is unquestionable. Inevitably alterations and reconstructions have taken place at Goslar over a period of almost ten centuries, but most of the current historic centre is fully authentic. The monastery of Walkenried contains both well conserved elements and ruins. Its authenticity is unquestionable.

#### Protection and management requirements

In 1977 the Upper Harz Water Management System was classified as a technical monument by the State of Lower Saxony. The Monument Protection Act (Niedersächsischen Denkmalschutzgesetz) of 1978 protects all the architectural elements and industrial structures of the property proposed for the extension.

Individually, each of the constituent parts of the property is satisfactorily managed, and is provided with adequate structures and competent staff. An architectural restoration and conservation programme has thus been carried out in the historic town of Goslar, and the development of an interpretation centre has been undertaken at Rammelsberg. The same applies to the extension of the property to include the Upper Harz, where each part of the property has individual management structures which are generally effective: the water-management system by the technical company Harzwasserwerke, the monastery by a foundation, and the various mining, museum and tourism sites by foundations, associations or bodies linked to the municipal authorities. There is however no overall management system for the serial property, no common scientific committee for the serial property, and no overarching authority bringing together all the stakeholders involved in the conservation and management of the serial property. These shortcomings must be rapidly corrected, and a general management plan must be drawn up, with an overall vision of the conservation of the property's OUV and its future prospects, particularly in terms of the development of tourism.

#### Comment

A small transmission error has occurred here in the listing of the type of deposits. In the Brief Synthesis it says tin instead of zinc.

# 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	The mining network consisting of the mines at Rammelsberg, including the underground mine workings and in-situ facilities, the Old Town of Goslar connected to it, and the system of Upper Harz Water Management with its complexity of hydraulic engineering facilities above and below ground, mines and Walkenried Monastery.	×			
3.2.2	The legible, diverse overlapping time layers of the mines at the Rammelsberg, the old town of Goslar with its representative architectural structures and the system of the Upper Harz Water Management.	×			
3.2.3	The comprehensive technological ensemble of the mines at Rammelsberg and the extensive water engineering facilities in the Upper Harz with associated outstanding mines.	×			
3.2.4	The multitude of innovative installations of mining technology and pre-industrial and industrial water management above and below ground.	×			

3.2.5	The Urban structure and development, as well as sacral and monastic, feudal and bourgeois building culture.	×		
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

## 4. Factors Affecting the Property

## 4.1. Buildings and Development

## 4.1.1 - Housing

Previous answer Cycle 2 (10/07/2013):

Not relevant

× Relevant				Not relevant			
	Impact Origin		Origin	igin Trend of impac		ıct	
Impact	Current	Potential	Inside	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing
O Positive X		×	×			<b>→</b>	
		×	×			$\rightarrow$	

### 4.1.2 - Commercial development

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	• Inside	<b>©</b> Outside	<b>▶</b> Decreasing	→ Stable	Increasing	
O Positive								
Negative X		×		×		<b>→</b>		

## 4.1.3 - Industrial areas

Previous answer Cycle 2 (10/07/2013):

• Not relevant

Relevant	X Not relevant

## 4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Current, Potential, Inside, Outside

✗ Relevant	Not relevant						
	Impact Origin		Origin	Origin Trend of impac		pact	
Impact	Current	Potential	Inside	<b>©</b> Outside	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive 🗶	×	×	×	×		$\rightarrow$	
		×		×		<b>→</b>	

#### 4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Inside

<b>X</b> Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	• Inside	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing	
Positive X	×		×	×			7	
Negative X		×	×				1	

# 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

## 4.2. Transportation Infrastructure

#### 4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Outside

× Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	<b>→</b> Decreasing	→ Stable	Increasing
O Positive X		×	×			$\rightarrow$	
○ Negative X	×		×	×		<b>→</b>	

## 4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

#### 4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

## 4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

#### 4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (10/07/2013):

Not relevant

<b>X</b> Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	⇒ Stable	Increasing
O Positive X		×			<b>S</b>		
Negative X	×			×	<b>&gt;</b>		

# 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

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Inside, Outside

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	© Outside	<b>▶</b> Decreasing	→ Stable	Increasing
○ Positive    ★	×	×	×				7
Negative X		×	×			$\rightarrow$	

## 4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Inside, Outside

× Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>→</b> Decreasing	⇒ Stable	Increasing	
O Positive X		×	×				7	
Negative X	×	×	×	×			1	

## 4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

#### 4.3.4 - Localised utilities

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Outside

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>→</b> Decreasing	<b>⇒</b> Stable	Increasing
O Positive 🗶	×			×		<b>→</b>	
	×	×		×		$\rightarrow$	

## 4.3.5 - Major linear utilities

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	• Inside	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing	
Positive X		×		×		$\rightarrow$		
Negative X		×	×	×		<b>→</b>		

# 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

Previous answer Cycle 2 (10/07/2013):

Not relevant

Polovont	V N
Relevant	X Not relevant

## 4.4.2 - Ground water pollution

Previous answer Cycle 2 (10/07/2013):

• Not relevant

Relevant	X Not relevant

#### 4.4.3 - Surface water pollution

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	© Outside	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive 🗶		×	×	×	<b>S</b>		
Negative X	×		×	×	<b>S</b>		

#### 4.4.4 - Air pollution

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

#### 4.4.5 - Solid waste

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Potential, Inside, Outside

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	<b>G</b> Current	Potential	Inside	Outside	<b>№</b> Decreasing	⇒ Stable	Increasing
O Positive							
Negative X	×	×	×		<b>S</b>		

#### 4.4.6 - Input of excess energy

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

# 4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively

Mine water containing heavy metals at the Rammelsberg mine, Domestic waste dump at Ottiliae shaft

4.5. Biological resource use/modification

## 4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Outside

<b>≭</b> Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	<b>G</b> Current	Potential	Inside	<b>Outside</b>	<b>№</b> Decreasing	⇒ Stable	Increasing
O Positive X	×		×			<b>→</b>	
Negative							

## 4.5.2 - Aquaculture

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

## 4.5.3 - Land conversion

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Current, Outside

× Relevant			Not relevant	
	Impact	Origin		Trend of impact

Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive 🗶	×			×	<b>S</b>		
○ Negative X		×		×			,

#### 4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Current, Outside

Relevant	× Not relevant
	** Not relevant

#### 4.5.5 - Crop production

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

#### 4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (10/07/2013):

Not relevant

ıt	X Not relevant
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#### 4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Outside

Relevant	✗ Not relevant
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#### 4.5.8 - Commercial hunting

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Outside

Polovont		
Not relevant	Relevant	X Not relevant

## 4.5.9 - Subsistence hunting

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant
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#### 4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Current, Outside

✗ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	© Outside	<b>№</b> Decreasing	→ Stable	Increasing
O Positive 🗶	×		×	×		→	
Negative X	×	×	×	×			1

# 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

Silvicultural Operations in the direct surroundings of the WHS due to wind breakage, bark beetles as a result of climatic changes, especially increase of drought years

#### 4.6. Physical resource extraction

#### 4.6.1 - Mining

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Outside

Relevant	X Not relevant

#### 4.6.2 - Quarrying

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	✗ Not relevant
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#### 4.6.3 - Oil and gas

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

## 4.6.4 - Water (extraction)

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Potential, Inside, Outside

× Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing
O Positive X	×	×	×	×		$\rightarrow$	
Negative							

# 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

Water management system of six ponds of the WHS for drinking water production, in dry years further parts for use,

## 4.7. Local conditions affecting physical fabric

#### 4.7.1 - Wind

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	© Outside	<b>→</b> Decreasing	⇒ Stable	Increasing
Positive							
○ Negative X	×	×	×	×			-

#### 4.7.2 - Relative humidity

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

<b>≭</b> Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	<b>G</b> Current	Potential	Inside	<b>©</b> Outside	<b>→</b> Decreasing	→ Stable	Increasing
Positive							
Negative X	×	×	×	×			1

## 4.7.3 - Temperature

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

<b>≭</b> Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>▶</b> Decreasing	⇒ Stable	Increasing
O Positive							
Negative X	×	×	×	×			1

## 4.7.4 - Radiation/Light

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

#### 4.7.5 - Dust

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	© Outside	<b>→</b> Decreasing	→ Stable	Increasing
O Positive							
Negative X	×		×	×		<b>→</b>	

## 4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Current, Outside

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>©</b> Outside	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive 🗶	×	×	×	×		$\rightarrow$	
○ Negative X	×	×	×	×			7

#### 4.7.7 - Pests

Previous answer Cycle 2 (10/07/2013):

Not relevant

× Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	<b>©</b> Outside	<b>▶</b> Decreasing	⇒ Stable	Increasing
Positive							
	×	×	×	×			/

## 4.7.8 - Micro-organisms

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	✗ Not relevant
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# 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

Bark beetle infestation leading to increased silvicultural operations, fungal infestation of wood components underground, increase in extreme events (floods, storms, drought)

## 4.8. Social/Cultural uses of heritage

## 4.8.1 - Ritual/Spiritual/Religious and associative uses

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Inside, Outside

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	<b>G</b> Outside	<b>→</b> Decreasing	→ Stable	Increasing
Positive	×		×	×		$\rightarrow$	
Negative							

## 4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Inside, Outside

X Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>№</b> Decreasing	→ Stable	Increasing
② Positive X	×		×	×		<b>→</b>	
	×	×	×				1

## 4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Outside

Relevant	X Not relevant
----------	----------------

## 4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	X Not relevant

## 4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	<b>G</b> Current	Potential	Inside	© Outside	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive X	×		×	×		$\rightarrow$	
Negative							

## 4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Negative, Potential, Inside, Outside

× Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>№</b> Decreasing	<b>⇒</b> Stable	Increasing	
Positive X	×		×	×		<b>→</b>		
Negative X	×	×	×				1	

# 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

## 4.9. Other human activities

#### 4.9.1 - Illegal activities

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Outside

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing
O Positive							
Negative X	×	×	×	×		<b>→</b>	

## 4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	✗ Not relevant

#### 4.9.3 - Military training

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

## 4.9.4 - War

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

## 4.9.5 - Terrorism

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

#### 4.9.6 - Civil unrest

Previous answer Cycle 2 (10/07/2013):

Not relevant

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

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing
O Positive							
○ Negative X	×	×	×	×			7

#### 4.10.2 - Flooding

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Outside

X Relevant				Not relevant				
	Impact		Origin		Trend of impact			
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing	
Positive								
○ Negative X	×	×	×	×			1	

## 4.10.3 - Drought

Previous answer Cycle 2 (10/07/2013):

Not relevant

× Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>▶</b> Decreasing	⇒ Stable	Increasing
Positive							
Negative X	×	×	×	×			<i>P</i>

#### 4.10.4 - Desertification

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

#### 4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

#### 4.10.6 - Temperature change

Previous answer Cycle 2 (10/07/2013):

Not relevant

<b>X</b> Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive							
Negative X	×	×	×	×			7

#### 4.10.7 - Other climate change impacts

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

# 4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively

The rising temperature influences the system of the Upper Harz water management indirectly by higher dryness and thus change of the surrounding forests and their current infestation with bark beetle and the necessary forestry measures. Due to the change in water temperature, additional installations are necessary in the ponds used as drinking water ponds to ensure the supply of drinking water.

#### 4.11. Sudden ecological or geological events

#### 4.11.1 - Volcanic eruption

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant

## 4.11.2 - Earthquake

Previous answer Cycle 2 (10/07/2013):

• Not relevant

Relevant X Not relevant

#### 4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (10/07/2013):

• Not relevant

Relevant X Not relevant

#### 4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	© Outside	<b>→</b> Decreasing	→ Stable	Increasing
Positive							
○ Negative X		×	×	×		$\Rightarrow$	

#### 4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (10/07/2013):

Not relevant

X Relevant Not relevant

	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing
<ul><li>Positive</li></ul>							
		×	×	×			P

## 4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (10/07/2013):

Not relevant

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	• Inside	<b>Outside</b>	<b>→</b> Decreasing	→ Stable	Increasing
Positive							
Negative	×	×	×	×			7

# 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

Increasing drought in the summer months leads to a higher risk of fire in the World Heritage Site, heavy rainfall events lead to flooding as in 2017, increased erosion due to forest conversion

### 4.12. Invasive/alien species or hyper-abundant species

#### 4.12.1 - Translocated species

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Outside

Relevant	X Not relevant

## 4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (10/07/2013):

Not relevant

## 4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (10/07/2013):

• Relevant, Negative, Potential, Inside, Outside

Relevant	X Not relevant

#### 4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant X Not relevant	
-------------------------	--

## 4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (10/07/2013):

Not relevant

Relevant	× Not relevant

#### 4.12.6 - Modified genetic material

Previous answer Cycle 2 (10/07/2013):

Not relevant

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 positivelyFor example due to forest conversion, the ditches are no longer shaded, plants grow more vigorously in the ditches, and there is a significant need for maintenance

## 4.13. Management and institutional factors

## 4.13.1 - Management system/Management plan

X Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>№</b> Decreasing	⇒ Stable	Increasing
O Positive X		×	×			<b>→</b>	
	×	×	×	×			P

## 4.13.2 - Legal framework

X Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	<b>⇒</b> Stable	Increasing
O Positive 🗶	×	×	×	×		<b>→</b>	
○ Negative X	×		×	×		<b>→</b>	

## 4.13.3 - Governance

× Relevant			1	Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive X	×	×	×	×		<b>→</b>	
Negative X	×		×			$\rightarrow$	

## 4.13.4 - Management activities

Previous answer Cycle 2 (10/07/2013):

Relevant, Positive, Current, Inside

× Relevant				Not relevant					
	Impact Origin			Trend of impact					
Impact	<b>G</b> Current	Potential	<ul><li>Inside</li></ul>	<b>Outside</b>	<b>▶</b> Decreasing	⇒ Stable	Increasing		
O Positive X	×	×	×	×		$\rightarrow$			
Negative X	×		×				7		

## 4.13.5 - Financial resources

X Relevant				Not relevant						
	Impact		Origin		Trend of impact					
Impact	Current	Potential	Inside	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing			
O Positive X	×	×	×	×		$\rightarrow$				
○ Negative X		×	×				7			

## 4.13.6 - Human resources

× Relevant				Not relevant							
	Impact		Origin		Trend of impact						
Impact	Current	Potential	Inside	© Outside	<b>▶</b> Decreasing	→ Stable	Increasing				
Positive X	×	×	×	×		$\rightarrow$					
○ Negative X	×	×	×				1				

## 4.13.7 - Low impact research/monitoring activities

Previous answer Cycle 2 (10/07/2013):

• Relevant, Positive, Current, Inside

× Relevant	1	Not relevant							
	Impact Origin			Trend of impact					
Impact	Current	Potential	<ul><li>Inside</li></ul>	<b>©</b> Outside	<b>▶</b> Decreasing	⇒ Stable	Increasing		
Positive	×		×			$\Rightarrow$			

# 4.13.8 - High impact research/monitoring activities

Previous answer Cycle 2 (10/07/2013):

Not relevant

Negative

× Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	<b>Outside</b>	<b>▶</b> Decreasing	→ Stable	Increasing
O Positive X		×	×			$\rightarrow$	
Negative X		×	×				7

# 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)

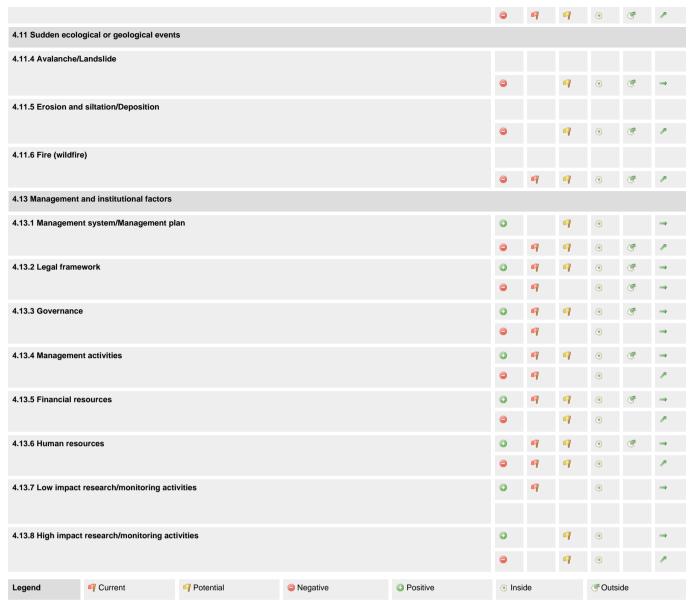
## 4.14.1 - Other factor(s)

## 4.15. Factors Summary Table

## 4.15.1 - Factors Summary Table

Name	Impac	t		Origin		Trend
4.1 Buildings and Development						
4.1.1 Housing	0		9	•		<b>→</b>
			q	•		$\rightarrow$
4.1.2 Commercial development						
			9		Œ	$\rightarrow$
4.1.4 Major visitor accommodation and associated infrastructure	•	9	q	<b>@</b>	Œ	<b>→</b>
			q		Œ	<b>→</b>
4.1.5 Interpretative and visitation facilities	<b>©</b>	q		<b>@</b>	<b>F</b>	-
			q	•		_
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure	•		q	<b>@</b>		<b>→</b>
·		<b>A</b>	Ť	<u>.</u>	<i>₹</i>	<b>→</b>
4.2.5 Effects arising from use of transportation infrastructure	0	•				
		<i></i> 1	-,		ng.	, M
400 miles lafasteratura		7			G	3
4.3 Services Infrastructures						
4.3.1 Water infrastructure	•	9	9	•		
			9	•		<b>→</b>
4.3.2 Renewable energy facilities	•		9	•		1
		9	9	•	Œ	-
4.3.4 Localised utilities	•	9			<b>G</b>	<b>→</b>
		9	9		<b>G</b>	$\rightarrow$
4.3.5 Major linear utilities	•		9		<b>G</b>	<b>→</b>
			q	<b>©</b>	<b>G</b>	<b>→</b>
4.4 Pollution						
4.4.3 Surface water pollution	•		q	•	Œ	•
		q		•	Œ	<b>S</b>
4.4.5 Solid waste						

		9	9	<b>(</b>		•
4.5 Biological resource use/modification						
4.5.1 Fishing/collecting aquatic resources	<b>O</b>	9		<b>@</b>		<b>→</b>
4.5.3 Land conversion	<b>O</b>	9			Œ	<b>S</b>
			9		Œ	-
4.5.10 Forestry/Wood production	<b></b>	9		•	Œ	<b>→</b>
		9	9	•	Œ	<i>P</i>
4.6 Physical resource extraction						
4.6.4 Water (extraction)	<b>O</b>	9	9	•	<b>G</b>	$\rightarrow$
4.7 Local conditions affecting physical fabric						
4.7.1 Wind						
		9	9	•	<b>©</b>	-
4.7.2 Relative humidity						_
4.7.3 Temperature		Ħ	Ħ	<b>(</b> )	<b>G</b>	
4.7.5 Temperature		n a		<b>(</b>	/df	7
4.7.5 Dust		-1	-1		Ģ	
		q		<b>@</b>	<b>C</b>	<b>→</b>
4.7.6 Water (rain/water table)	<b>©</b>	eq.	<b>A</b>	•	F	<b>→</b>
		q	9	•	Œ.	7
4.7.7 Pests						
		9	9	•	Œ	7
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses	<b>O</b>	9		•	Œ	<b>→</b>
4.8.2 Society's valuing of heritage	<b>O</b>	9		•	<b>G</b>	$\rightarrow$
		9	9	•		1
4.8.5 Identity, social cohesion, changes in local population and community	<b>O</b>	9		•	<b>F</b>	$\rightarrow$
4.8.6 Impacts of tourism/Visitation/Recreation	•	9		•	Œ	$\rightarrow$
		9	9	•		1
4.9 Other human activities						
4.9.1 Illegal activities						
		9	9	•	Œ	$\rightarrow$
4.10 Climate change and severe weather events						
4.10.1 Storms						
		9	9	•	<b>G</b>	7
4.10.2 Flooding						
4.10.2 Drought		9	9	•	<b>G</b>	-
4.10.3 Drought		<b>1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>6</b> 3		/dl	
4.10.6 Temperature change		-1	-1	•	Ġ,	



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 Hous	ing	<b>O</b>		9	•		<b>→</b>
				9	•		<b>→</b>
Custial ass	ale - Area affected by the factor						
Spatial Sca	ile - Alea allected by the factor						
×	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal	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 - Dev	elopement over the last 6 years					
	Decreasing					
×	Static					
	Increasing					
Name		Impact		Origin		Trend
4.1.2 Comm	ercial development					
			<b>6</b>		<b>G</b>	<b>→</b>
Spatial scal	e - 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 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	elopement over the last 6 years					
	Decreasing					
×	Static					
	Increasing					

Name		Impact			Origin		Trend
4.1.4 Major	visitor accommodation and associated infrastructure	<b>O</b>	<b>A</b>	9	•	F	$\rightarrow$
				9		<b>(</b>	$\rightarrow$
Spatial sca	ale - 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 - 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						
Name		Impact			Origin		Trend
4.1.5 Interp	pretative and visitation facilities	<b>O</b>	9		•	<b>(</b>	
				9	•		
Spatial sca	ale - 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 - In	pact on the attributes							
	Insignificant							
×	Minor							
	Significant							
	Major							
Manageme	Management 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							

## 4.2 Transportation Infrastructure

Name		Impact			Origin		Trend
4.2.1 Grou	nd transport infrastructure	0		9	•		$\rightarrow$
			q		•	<b>G</b>	$\rightarrow$
Spatial sc	ale - 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 - In	npact 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	evelopement over the last 6 years						
	Decreasing						
×	Static						

Increasing

Name			Impact		Origin		Trend
4.2.5 Effect	s arising from use of transportation infrastructure	0		9			•
			9			<b>G</b>	*
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 - De	velopement over the last 6 years						
×	Decreasing						
	Static						
	Increasing						

## 4.3 Services Infrastructures

Name	Impact	į		Origin	Trend
4.3.1 Water infrastructure	•	q	4	•	<i>P</i>
			P	•	$\rightarrow$

Spatial sca	ale - Area affected by the factor			
×	Restricted			
	Localizad			
	Localised			
	Extensive			
	LACIGIVE			
	Widespread			
	Macapica			
Tomporal	scale - Occurence of the impact			
Temporar	Scale - Occurrence of the impact			
×	One off or rare			
*	One oil of fare			
	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	elopement over the last 6 years						
	Decreasing						
×	Static						
X Static  Increasing							
Name		Impact			Origin		Trend
4.3.2 Renev	vable energy facilities	<b>O</b>		9	•		7
			q	9	•	<b>(</b>	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						
	Decreasing						

	Chatin						
	Static						
×	Increasing						
Nama		lmmaat			Onlaria		Trend
Name	ised utilities	Impact	q		Origin	Œ	irena
			q	9		<b>G</b>	_
			7	-1		Ģ	_
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 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
4.3.5 Major	linear utilities	•		9		Œ	$\Rightarrow$
				9	•	Œ	$\rightarrow$
Spatial sca	ile - Area affected by the factor						
×	Restricted						
**	Localised						
	Extensive						
	Widespread						
Tomperat							
*							
Temporal s	One off or rare						
	Intermittent or sporadic						

	Frequent
	On-going Control of the Control of t
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

## 4.4 Pollution

Name		Impact			Origin		Trend
4.4.3 Surfa	ce water pollution	<b>O</b>		9	•	<b>G</b>	•
			9		•	<b>G</b>	<b>S</b>
Snatial 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 - De	velopement over the last 6 years						

×	Decreasing					
	Static					
	Increasing					
Name		Impact	npact		Origin	Trend
4.4.5 Solid	waste					
			9	9	•	5
Spatial scal	e - 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					
Managemei	nt response - Capacity of management to respond					
×	High capacity					
	Medium capacity					
	Low capacity					
	No capacity and / or resources					
Trend - Dev	elopement over the last 6 years					
×	Decreasing					
	Static					

# 4.5 Biological resource use/modification

Increasing

Name		Impact			Origin		Trend			
4.5.1 Fishii	ng/collecting aquatic resources	•	<b>A</b>		•		$\rightarrow$			
Spatial sca	Spatial scale - 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 Control of the Control of t						
Impact - In	npact on the attributes						
×	Insignificant						
	Minor						
	Significant						
	Major						
Managemo	ent response - Capacity of management to respond						
	High capacity						
×	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - De	evelopement over the last 6 years						
	Decreasing						
×	Static						
	Increasing						
Name		Impact			Origin		Trend
4.5.3 Land	conversion	<b>O</b>	9			<b>F</b>	•
				<b>(6)</b>		(EF	
				-1		3	
Spatial sc	ale - Area affected by the factor					3	
Spatial sca	ale - Area affected by the factor  Restricted					3	
				-1		y	
	Restricted			-1		3	
	Restricted  Localised						
×	Restricted  Localised  Extensive						
×	Restricted  Localised  Extensive  Widespread						
X	Restricted  Localised  Extensive  Widespread  scale - Occurrence of the impact						
X	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare						
X	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic						
X Temporal	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent						
X Temporal	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going						
X Temporal	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  mpact on the attributes						
Temporal	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  npact on the attributes  Insignificant						
Temporal	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  Inpact on the attributes  Insignificant  Minor						
X Temporal X	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  npact on the attributes  Insignificant  Minor  Significant						
X Temporal X	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  mpact on the attributes  Insignificant  Minor  Significant  Major						
X Temporal X	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  mpact on the attributes  Insignificant  Minor  Significant  Major  ent response - Capacity of management to respond						
X Temporal X Impact - In	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  npact on the attributes  Insignificant  Minor  Significant  Major  ent response - Capacity of management to respond  High capacity						
X Temporal X Impact - In	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  npact on the attributes  Insignificant  Minor  Significant  Major  ent response - Capacity of management to respond  High capacity  Medium capacity						

Trend - Dev	elopement over the last 6 years						
×	Decreasing						
	Static						
	Increasing						
Name		Impact		Origin			Trend
4.5.10 Fore:	stry/Wood production	0	4		•	<b>G</b>	<b>→</b>
			9	9	•	<b>F</b>	
Spatial scal	e - 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	elopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						

## 4.6 Physical resource extraction

Name		Impact			Origin	Trend	
4.6.4 Wate	r (extraction)	•	<b>A</b>	9	•	Œ	$\rightarrow$
Spatial sca	lle - 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 Control of the Control of t
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

## 4.7 Local conditions affecting physical fabric

Name		Impact		Origin		Trend	
4.7.1 Wind							
			q	q	•	C	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 - Developement over the last 6 years					
	Decreasing				
	Static				
×	Increasing				

Name	Impact		Origin			Trend
4.7.2 Relative humidity						
		q	9	•	<b>(</b>	P

4.7.2 Relative humidity						
		9	9	•	Œ	1
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 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	velopement over the last 6 years					
	Decreasing					
	Static					
X	Increasing					

Name	Impact	:		Origin		Trend
4.7.3 Temperature						
			9	•	Œ	

Spatial scale - Area affected by the factor							
	Restricted						
×	Localised						
	Extensive						
	Widespread						

i emporai s	cale - 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	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					
Name		Impact		Origin		Trend
4.7.5 Dust			q	•	Œ	<b>→</b>
			-1	Q	G	7
Spatial sca						
	le - Area affected by the factor					
	Restricted					
×						
×	Restricted					
×	Restricted  Localised					
	Restricted  Localised  Extensive					
	Restricted  Localised  Extensive  Widespread					
	Restricted  Localised  Extensive  Widespread  cale - Occurrence of the impact					
Temporal s	Restricted  Localised  Extensive  Widespread  ccale - Occurence of the impact  One off or rare					
Temporal s	Restricted  Localised  Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic					
Temporal s	Restricted  Localised  Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent					
Temporal s	Restricted  Localised  Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going					
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					
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					
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					
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  Significant					
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  Significant  Major					
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  Significant  Major  Int response - Capacity of management to respond					

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

Name	Impact			Origin	Trend	
4.7.6 Water (rain/water table)		q	9	•	<b>(</b>	$\rightarrow$
		9	9	•	Œ	-

4.7.6 Water (rain/water table)			E-j	4	<b>(</b> )	<b>E</b>	$\rightarrow$
					•	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	velopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						

Name	Impact			Origin	Trend	
4.7.7 Pests						
			<b>A</b>	•	F	<b>P</b>

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

# 4.8 Social/Cultural uses of heritage

4.8.1 Ritual/Spiritual/Religious and associative uses  Spatial scale - Area affected by the factor  X Restricted Localised  Extensive Widespread  Temporal scale - Occurence of the impact  X One off or rare Intermitent or sporadic  Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity Low capacity Low capacity	Name		Impact		Origin		Trend	
Restricted Localised Extensive Widespread  Temporal scale - Occurence of the impact  X One off or rare Intermittent or sporadic Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity	4.8.1 Ritual/Spiritual/Religious and associative uses		•	q		•	<b>G</b>	<b>→</b>
Restricted Localised Extensive Widespread  Temporal scale - Occurence of the Impact  X One off or rare Intermittent or sporadic Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity								
Restricted Localised Extensive Widespread  Temporal scale - Occurence of the impact  X One off or rare Intermittent or sporadic Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity	Custial as	ale. Associated by the feeter						
Localised  Extensive  Widespread  Temporal scale - Occurence of the impact  X One off or rare  Intermittent or sporadic  Frequent  On-going  Impact - Impact on the attributes  X Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  X High capacity  Medium capacity								
Extensive  Widespread  Temporal scale - Occurence of the impact  X One off or rare  Intermittent or sporadic  Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity	×	Restricted						
Widespread  Temporal scale - Occurence of the impact  X One off or rare Intermittent or sporadic Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity		Localised						
Temporal scale - Occurence of the impact  X One off or rare Intermittent or sporadic Frequent On-going Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity		Extensive						
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		Widespread						
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	Temporal	scale - Occurence of the impact						
Frequent On-going Impact - Impact on the attributes  Insignificant Minor Significant Major  Management response - Capacity of management to respond  High capacity Medium capacity	×	One off or rare						
Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  X High capacity Medium capacity		Intermittent or sporadic						
Impact - Impact on the attributes  X Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  X High capacity  Medium capacity		Frequent						
Minor Significant Major Management response - Capacity of management to respond High capacity Medium capacity		On-going On-going						
Minor  Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity	Impact - I	mpact on the attributes						
Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity	×	Insignificant						
Management response - Capacity of management to respond  High capacity  Medium capacity		Minor						
Management response - Capacity of management to respond  High capacity  Medium capacity		Significant						
High capacity  Medium capacity		Major						
Medium capacity	Managem	ent response - Capacity of management to respond						
	×	High capacity						
Low capacity		Medium capacity						
		Low capacity						

	No capacity and / or resources						
Trend - Dev	velopement over the last 6 years						
	Decreasing						
×	Static						
	Increasing						
Name		Impact			Origin		Trend
4.8.2 Socie	ty's valuing of heritage	0	9		•	<b>(</b>	<b>→</b>
			q	9	•		
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	velopement over the last 6 years						
	Decreasing						
	Static						
×	Increasing						
Name		Impact			Origin		Trend
4.8.5 Identi	ty, social cohesion, changes in local population and community	•	9		•	<b>(</b>	<b>→</b>
Spatial sca	le - Area affected by the factor						
	Restricted						
×	Localised						
	Extensive						

remporars	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						
Name		Impact			Origin		Trend
4.8.6 Impac	ts of tourism/Visitation/Recreation	0	9	_	•	<b>(</b>	<b>→</b>
			9	9	•		
Spatial sca	e - Area affected by the factor						
	Restricted						
	Localised						
×	Localised  Extensive						
×							
	Extensive						
	Extensive Widespread						
	Extensive  Widespread  cale - Occurence of the impact						
	Extensive  Widespread  cale - Occurrence of the impact  One off or rare						
	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic						
Temporal s	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent						
Temporal s	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going						
Temporal s	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes						
Temporal s	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes  Insignificant						
Temporal s  X Impact - Im	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes  Insignificant  Minor						
X Impact - Im	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes  Insignificant  Minor  Significant						
X Impact - Im	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes  Insignificant  Minor  Significant  Major						
X Impact - Im	Extensive  Widespread  cale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  pact on the attributes  Insignificant  Minor  Significant  Major  Int response - Capacity of management to respond						

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

## 4.9 Other human activities

A.9.1 Illegal activities	Name		Impact		Origin		Trend	
Spatial scale - Area affected by the factor  Restricted  X Localised  Extensive  Widespread  Temporal scale - Occurence of the impact  One off or rare  X Intermittent or sporadic  Froquent  On-pring  Impact - Impact on the attributes  X Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity  X Low capacity  No capacity  No capacity of resources  Trend - Developement over the last 6 years  Decreasing  X Static	4.9.1 Illega	activities						
Restricted  X Localised  Extensive  Widespread  Temporal scale - Occurence of the Impact  One off or rare  X Intermittent or sporadic  Frequent  On-going  Impact - Impact on the attributes  X Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity  X Low capacity  No capacity of capacity  No capacity of capacity  Trend - Developement over the last 6 years  Decreasing  X Static				9	9	•	Œ	$\Rightarrow$
Extensive Widespread  Temporal scale - Occurrence of the impact One off or rare  X Intermittent or sporadic Frequent On-going Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond  High capacity Medium capacity X Low capacity No capacity	Spatial sca	le - Area affected by the factor						
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  X Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  X Static		Restricted						
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  X Low capacity No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  X Static	×	Localised						
Temporal scale - Occurence of the impact  One off or rare  X Intermittent or sporadic  Frequent  On-going  Impact - Impact on the attributes  X Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity  X Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  X Static		Extensive						
Cone 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		Widespread						
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  X Low capacity No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing X Static	Temporal s	scale - Occurence of the impact						
Frequent On-going  Impact - Impact on the attributes  X Insignificant Minor Significant Major  Management response - Capacity of management to respond High capacity Medium capacity  X Low capacity No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  X Static		One off or rare						
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  X Static	×	Intermittent or sporadic						
Impact - Impact on the attributes  X		Frequent						
Insignificant  Minor  Significant  Major  Management response - Capacity of management to respond  High capacity  Medium capacity  X Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  X Static		On-going On-going						
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  X Static	Impact - Im	pact on the attributes						
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  X Static	×	Insignificant						
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  X Static		Minor						
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  X Static		Significant						
High capacity  Medium capacity  Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  Static		Major						
Medium capacity  Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  Static	Manageme	nt response - Capacity of management to respond						
Low capacity  No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  Static		High capacity						
No capacity and / or resources  Trend - Developement over the last 6 years  Decreasing  Static		Medium capacity						
Trend - Developement over the last 6 years  Decreasing  Static	×	Low capacity						
Decreasing  ** Static		No capacity and / or resources						
X Static	Trend - De	velopement over the last 6 years						
		Decreasing						
	×	Static						
Increasing		Increasing						

## 4.10 Climate change and severe weather events

Name	In		Impact			Origin		
4.10.1 Storms								
			q	9	•	Œ	1	
Spatial so	ale - 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 On-going			
Impact - Im	pact on the attributes			
	Insignificant			
×	Minor			
	Significant			
	Major			
Managemei	nt response - Capacity of management to respond			
	High capacity			
×	Medium capacity			
	Low capacity			
	No capacity and / or resources			
Trend - Dev	elopement over the last 6 years			
	Decreasing			
×	Static			
	Increasing			
Name		Impact	Origin	Trend

Name	Impact		Origin		Trend	
4.10.2 Flooding						
		q	q	•	Œ	P

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 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	velopement over the last 6 years
	Decreasing
	Static
×	Increasing

	mpact		Origin		Trend
4.10.3 Drought					
	9	9	•	<b>(</b>	P

				•		
4.10.3 Drou	ight					
		q	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 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	velopement over the last 6 years					
	Decreasing					
	Static					
×	Increasing					

Name	Impact		Origin		Trend
4.10.6 Temperature change					
		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 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	elopement over the last 6 years
	Decreasing
	Static
×	Increasing

### 4.11 Sudden ecological or geological events

Name		Impact		Origin		Trend
4.11.4 Aval	anche/Landslide					
			9	•	F	$\rightarrow$
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					

Management 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

Name	Impact		Origin		Trend
4.11.5 Erosion and siltation/Deposition					
		9	•	Œ	1

			q	•	Œ	/
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 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	
4.11.6 Fire (wildfire)						
		Ą	9	•	C	<i>P</i>

Spatial sca	Spatial scale - Area affected by the factor				
-					
	Destricted				

×	Localised
	Extensive
	Widespread
Temporal s	cale - 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	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

## 4.13 Management and institutional factors

Name		Impact			Origin		Trend
4.13.1 Man	4.13.1 Management system/Management plan			9	•		<b>→</b>
			q	9	•	C	1
Spatial sca	ale - 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	npact 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						
Name		Impact			Origin		Trend
4.13.2 Lega	l framework	<b>O</b>	4	9	•	<b>(</b>	<b>→</b>
			q		•	<b>G</b>	$\Rightarrow$
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						
Name		Impact			Origin		Trend
4.13.3 Gove	ernance	0	q	9	•	Œ	<b>→</b>

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 - Dev	elopement over the last 6 years						
	Decreasing						
×	Static						
	Increasing						
Name					0-1-1-		T
Name 4.13.4 Mana	gement activities	Impact		9	Origin	<b>F</b>	Trend
			q	·	•		<i>&gt;</i>
0 "							
Spatial sca	e - Area affected by the factor						
**	Restricted						
×	Localised  Extensive						
	Widespread						
Tomporals	cale - Occurence of the impact						
remporars	One off or rare						
×	Intermittent or sporadic						
**	Frequent						
	On-going						
Impact - Im	pact on the attributes						
	Insignificant						
×	Minor						
	Significant						
	Major						
Manageme	nt response - Canacity 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			
Name		Impact	Origin	Trend

Name	Impact		Origin	Trend		
4.13.5 Financial resources	<b>O</b>	9	9	•	Œ	$\rightarrow$
			9	•		-

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 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	
4.13.6 Human resources	•	q	9	•	Œ	$\rightarrow$
		q	9	•		<b>/</b>

Spatial scale - 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	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				
		lmnast		Orlain	Tuend
Name	impact research/monitoring activities	Impact		Origin	Trend →
Name	impact research/monitoring activities	Impact ③	q	Origin	Trend ⇒
Name	impact research/monitoring activities				Trend ⇒
Name 4.13.7 Low	impact research/monitoring activities ale - Area affected by the factor				Trend ⇒
Name 4.13.7 Low					Trend →
Name 4.13.7 Low	ale - Area affected by the factor				Trend →
Name 4.13.7 Low	Restricted  Localised  Extensive				Trend ⇒
Name 4.13.7 Low Spatial sca	Restricted  Localised  Extensive  Widespread				Trend →
Name 4.13.7 Low Spatial sca	Restricted  Localised  Extensive  Widespread  scale - Occurrence of the impact				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread scale - Occurence of the impact One off or rare				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread  Cocurence of the impact Untermittent or sporadic				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread scale - Occurence of the impact Intermittent or sporadic Frequent				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread Scale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread  Scale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going				Trend ⇒
Name 4.13.7 Low Spatial sca	Restricted  Localised  Extensive  Widespread  scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  spact on the attributes  Insignificant				Trend →
Name 4.13.7 Low Spatial sca	Restricted Localised Extensive Widespread scale - Occurence of the impact One off or rare Intermittent or sporadic Frequent On-going space on the attributes Insignificant Minor				Trend →
Name 4.13.7 Low Spatial sca	Ide - Area affected by the factor  Restricted  Localised  Extensive  Widespread  Scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  Inpact on the attributes  Insignificant  Minor  Significant				Trend →
Name 4.13.7 Low Spatial sca  X  Temporal s  X	Restricted  Localised  Extensive  Widespread  Scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  Apact on the attributes  Insignificant  Minor  Significant  Major				Trend →
Name 4.13.7 Low Spatial sca  X  Temporal s  X	Ide - Area affected by the factor  Restricted  Localised  Extensive  Widespread  Scale - Occurence of the impact  One off or rare  Intermittent or sporadic  Frequent  On-going  Inpact on the attributes  Insignificant  Minor  Significant				Trend →

×	Medium capacity				
	Low capacity				
	No capacity and / or resources				
Trend - Dev	elopement over the last 6 years				
	Decreasing				
×	Static				
	Increasing				
Name		Impact	~~	Origin	Trend
4.13.8 High	impact research/monitoring activities	0	9	•	<b>→</b>
			9	•	
Spatial scal	e - 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 On-going				
Impact - Imp	pact on the attributes				
	Insignificant				
×	Minor				
	Significant				
	Major				
Managemer	nt response - Capacity of management to respond				
	High capacity				
×	Medium capacity				
	Low capacity				
	No capacity and / or resources				
Trend - Dev	elopement over the last 6 years				
	Decreasing				
	Static				
×	Increasing				
1 17 Cari	al inscriptions (national or transpational)				

- 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
- 4.18. 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					

4.18.1.2		
4.18.1.3		
4.18.1.4		
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).

Article 6 of the Lower Saxony Constitution of 1993 stipulates that the State, the municipalities and the administrative districts protect and support art and culture, and thus the cultural monuments as well. Therefore, the State Constitution also includes the Lower Saxon Monument Protection Act (Appendix E 2).

The whole cultural heritage site nominated for inscription in the UNESCO World Heritage List is protected by the Lower Saxon Monument Protection Act (NDSchG) of 30 May 1978 (Nds. GVBI. p. 517). This involves buildings of historic importance (§ 3, subpar. 2, NDSchG), archaeological sites (§ 3, subpar. 4, NDSchG) and groups of physical structures (§ 3, subpar. 3, NDSchG), whose conservation is of public interest due to their historic, artistic, scientific and urban importance (Appendix E 3).

The monuments are entered in the list of cultural monuments, created and continued by the State Office for Historic Monuments of Lower Saxony (§ 4 subpar. 1 NDSchG). The local agencies for historic monuments and the municipal administrations maintain excerpts from the list for their local region (§ 4, subpar. 2, NDSchG).

According to § 6, subpar. 1, of the NDSchG, the cultural monuments shall be maintained, cared for, preserved from danger, and, if necessary, repaired. According to subparagraph 2, they must not be destroyed, endangered, or changed, or removed from their place in any way that will affect their value as a monument.

It is not permitted to build installations near buildings of historic importance (§ 8 NDSchG) when the appearance of these buildings will be affected. Physical structures near a historic monument also have to be designed and maintained in a way that such interference will not occur.

All constructional measures on or near a historic building or an archaeological site require, according to § 10, NDSchG, authorization from the agencies for preservation of historic monuments.

With regard to water laws, the installations of the Upper Harz Water Management System are considered to be a water body in the context of § 1 No.1a of the Lower Saxon Water Act (NWG). Furthermore, 35 ponds count as reservoir structures in the context of § 86 of the Lower Saxon Water Act and therefore their safety is also monitored by the state "Talsperrenaufsicht" (supervision for reservoir structures) (Appendix E 4).

Installations located in the Landschaftsschutzgebiet Harz (LSG Harz - landscape protection area Harz) are additionally protected by the "Verordnung des Landschaftsschutzgebietes Harz"(LSG-VO) (directive on the landscape protection area Harz) of the District of Goslar of 7 May 2001 and Osterode am Harz of 21 December 2000. In § 2, subpar. 1, where the protective purpose is regulated, it is stipulated in No 1 that the historic pond dams, the ditches and water tunnels, and in No.6 that the areas of the landscape created by the former mining industry with historically and ecologically outstanding importance, are especially protected (Appendix E 5).

According to the Landesraumordnungsprogramm 1994 (LROP), (state development programme), the cultural material goods, i.e. individual cultural monuments and archaeological sites, are to be protected and maintained at their original location and within their cultural context (Appendixes E 11 –E 12).

The regional development programmes, Regionale Raumordnungsprogramme (RROP), of Greater Braunschweig for the districts Goslar and Osterode am Harz show the installations of the historic Upper Harz Water Management System as a "Vorranggebiet kulturelles Schutzgut" (priority area for protection of cultural sites). As a "hervorragendes Kulturdenkmal von internationaler Bedeutung" (outstanding historic monument of international importance), it is assigned to be protected at the highest level of planning (Appendixes E 13 – E 14).

Furthermore, large areas of the historic Upper Harz Water Management System are situated in the registered FFH (Directive on the conservation of natural habitats and of wild fauna and flora) areas. These areas are subject to special preservation measures according to the EUDirective 92/43/EEC on the conservation of natural habitats and of wild fauna and flora, which was especially implemented into national legislation by § 10, subpar. 1, No. 5, Bundesnaturschutzgesetz (BNatG) (Federal Nature Conservation Act), and §§ 34 a – 34 c of the Niedersächsisches Naturschutzgesetz (NNatG) (Lower Saxon Nature Conservation Act) (Appendixes E 6 – E 7).

The landscape plans, Landschaftsrahmenplan (LRP), of the districts of Goslar and Osterode am Harz specify the areas within the nominated property as deciduous and coniferous forests worthy of preservation and also partly as areas of nature and landscape worthy of protection.

The installations of the historic Upper Harz Water Management System are thus protected indirectly and over a wide area.

Furthermore, the installations of the Upper Harz Water Management System are mainly located in the "Gemeindefreies Gebiet Harz", these are areas with no municipalities, which means that the Bauleitplanung (building planning) as a prerequisite of constructional development, which could conflict with the protection of the installations, is completely out of the question.

Because the authority of the Gemeindefreies Gebiet Harz is not legally entitled to grant planning permission, there is no detailed municipal land use plan.

Those parts of the Upper Harz Water Management System located in the area of the Nationalpark Harz, mainly the Oder Teich and the Rehberger Gräben, are additionally protected by § 2, subpar. 4, No. 2, in connection with § 3, No. 7, Gesetz über den Nationalpark Harz (Niedersachsen), (NPGHarzNI) (Legislation for the National Park Harz Lower Saxony). (Appendix E8).

Source: Application for inclusion of the Upper Harz Water Management System in the UNESCO World Heritage List - Extension of the UNESCO World Heritage Site Mines of Rammelsberg and the historic town of Goslar - ../..//uploads/nominations/623ter.pdf

#### Comment

The versions of some laws and regulations must be updated and supplemented.

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

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?

An adequate legal framework exists for the broader setting of the World Heritage property, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property

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

There is acceptable capacity/resources to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain

- 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 Other

### If 'Other', please specify

Public Management System at provincial/regional/local level and Foundation

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)

Traditional ways of management recognised by local communities and other specific groups

Governance mechanisms that foster and respect traditional practices, knowledge and uses of the property

A management plan

An annual work plan or business plan

A visitor/visitation management plan

A joint approach to management of cultural and natural heritage

Other (please specify below)

Technical Security

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

Some use has been made of the 2011 Recommendation on the Historic Urban Landscape

- 5.3.6 If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done. Partly the old town of Goslar
- 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?

Some 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:

Partly the old town of Goslar and the Rammelsberg mine

# 5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property? Some 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

Partly the old town of Goslar and the Rammelsberg mine

# 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 coordination between the range of administrative bodies involved in the management of the property, but it could be improved

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

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

#### 5.3.13 - Is the management system being implemented?

The management system is being only partially implemented

#### 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	Museum Association	

# 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 %	1 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	3 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	47 %	3 %
6.1.1.7	Governmental (regional/provincial/state)	18 %	17 %
6.1.1.8	Governmental (local/municipal)	10 %	38 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	4 %	1 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	25 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	18 %	15 %
		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 secure over the medium-term and planning is underway to secure funding over the 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	60 %	80 %

6.1.6.2	Women	40 %	20 %
		Total 100 %	Total 100 %

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

# 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	Poor
Risk preparedness	Fair
Capacity development and education	Fair
Administration	Fair
Research and monitoring	Fair
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Good
Enforcement (custodians, police)	Fair

### 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.

Development of personnel capacities, especially in the field of tourism, marketing and visitor care, Used within an transformation project for museums,

# 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 considerable research but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value

### 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

Digitization projects, building research, archaeological research, historical research

### 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	Poor
Local/municipal authorities	Fair
Indigenous peoples	Not applicable
Landowners	Fair
Women	Not applicable
Youth/children	Fair
Researchers	Fair
Local visitors	Poor
National/international tourists	Poor
Tourism industry	Fair
Local businesses and industries	Poor
NGOs	Poor
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 education and awareness programme for children and/or youth but it only partly meets the needs

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

Local communities	
Youth/children	
Researchers	
Local Visitors	
National/international tourists	
Tourism industry	

# 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	Good
Site museum	Good
Information booths	Fair
Guided tours	Good
Trails/routes	Good
Printed information materials	Good
Online (website, social media, etc.)	Fair
Transportation facilities	Poor
Other	Not needed

#### 8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

Differences in World Heritage facilities/sites related to different financial and human resources

### 9. Visitor Management

#### 9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

685.367 / 5.923.038 / 410.152 / 553.918 / 513.254 /

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

Entry tickets and registries

Accommodation establishments

Tourism industry

Other

Visitor counting system

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

Two overnight stays

#### 9.4 - Please provide the source of information

Museums (Rammelsberg, Kaiserpfalz, Guided tours Goslar, Walkenried Monastery, Samson Mine, Upper Harz Mining Museum, Goslar Museum, 19-Lachter Adit, Knesebeck mine, Pewter figure museum), Tourism marketing companies (GMG) 2022: 290.367 (museums) + 395.000 (Overnight guests Goslar) 2021: 174.038 (museums) + 249.000 (Overnight guests Goslar) + 5,5 Mio. Day Visitors Goslar 2020: 174.152 (museums) + 236.000 (Overnight guests Goslar) 2019: 349.918 (museums) + 204.000 (Overnight guests Goslar)

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

130 / 19,50 / 0 / 11 / 10 / 16 /

#### 9.6 - Please provide the source of information

Data from all museums, and only for Goslar data about lodging / food and beverage, DWIF study (2019/21): Tourism as an economic factor for the city of Goslar 2019. GOSLAR marketing gmbh, Munich, April 2021 Museums (Rammelsberg, Kaiserpfalz, Guided tours Goslar, Walkenried Monastery, Samson Mine, Upper Harz Mining Museum, Goslar Museum, 19-Lachter Adit, Knesebeck mine, Pewter figure museum)

# 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 no strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property

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

There are concepts for visitor management in the museums and in the old town of Goslar. However, there are no dedicated strategies at the elements or an overarching strategy with an action plan to manage visitors, tourism activities and the associated impacts.

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

Visitor use of the World Heritage property is managed but improvements could be made

### 9.10 - Is the effectiveness of tourism management regularly monitored?

No

If a different system, please specify

# 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 presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made

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

In many locations 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

There is an initative by the regional tourism Agency -

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

### If 'Yes', please specify

Economic benefit, social benefit, conservation benefit

### 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				X
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

Differences at the site elements, which is related to different financial and human resources in addition to management systems. Some have indicators defined other have not or only for some aspects of the elements.

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

World Heritage managers/coordinators and staff	Fair
Local/municipal authorities	Good
Local communities	Fair
Indigenous peoples	Not applicable
Landowners	Fair
Women	Fair
Researchers	Poor
Tourism industry	Fair
Local businesses and industry	Poor
NGOs	Not applicable
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?

No relevant Committee recommendations to implement

- 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	quate legal framework in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage exists but there are some deficiencies in implementation								
5.2.5	An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property								
5.2.6	There is acceptable capacity/resources to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain								
5.3	Management System/Management Plan								
5.3.5	Some use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	×							
5.3.7	Some use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	×							
5.3.9	Some use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	×							
5.3.11	There is <b>coordination</b> between the range of administrative bodies involved in the management of the property, <b>but it could be improved</b>	×							
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	×							
5.3.13	The management system at the property is only being partially implemented	×							
5.3.17	<ul> <li>In a limited manner, the management system of the World Heritage property does contribute to gender equality</li> <li>In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status</li> <li>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</li> </ul>	×							
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								
7	Scientific Studies and Research Projects								
7.2	There is considerable research in the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value								
8	Education, Information and Awareness Building								
8.2	There is a planned education and awareness programme for children and/or youth but it only partly meets the needs	×							
9	Visitor Management								
9.7	There is no strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property								
9.9	Visitor use of the World Heritage property is managed but <b>improvements could be made</b>								
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								
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made								
10	Monitoring								
10.1	There is <b>considerable monitoring</b> 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								
Pleas	se select 0 more issues.								
☑ Ple	☐ 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
- 4.5 Biological resource use/modification

4.5.10	Forestry/Wood production	(i), (iv); affe attributes 3. 3.2.2, 3.2.3	.2.1, T	mplementir Frain compa employees	ng Monitoring, anies and	to be im	nplemented	to I	oe defined	Saxo Low of Fo and Prot Saxo the I	e Forests of ony; together er Saxony I ood, Agricul Consumer ection and lony State O Preservation orical Monu	er with Ministry Iture Lower Office for		ealt with as part anagement plan dated.
4.7	Local conditi	ons affecting p	ohysical fal	bric										
4.7.2	Relative humidity	(iv), affected attributes 3.1.2	2, mea	atrols and asurements	s, technical	to be imp	plemented	to be	e defined	eleme	ent Owners ents (Ramm vasserwerk	ielsberg,	1	no comment
4.7.7	Pests	ests (i), (iv), affected attributes 3.2.1, 3.2.2, 3.2.3		underground wooden structures affected by fungal infestation,		Regularly monitoring of the underground wooden structures; forest monitoring by agency		Saxon Ministr Agricul Protec State ( Preser Monun Weltku Erzber		tate Forests of Lower laxony; Lower Saxony linistry of Food, griculture and Consumer rotection; Lower Saxony tate Office for the loreservation of Historical lonuments, letkulturerbe loreservation describes the lower server ser		To be dealt with as par of the management plato be updated.		
4.8	Social/Cultur	al uses of heri	tage											
4.8.6	Impacts of tourism/Visitation/I	Recreation a	v), affected ttributes 3.1 .1.3, 3.1.4	1.2,	Improve visitor and informatio exclude walka sensitive areas	n, ble	Regularly cor the paths alo ditches to che condition; Im visitor manag	ng the weck the olement	ater	Within the next five years	Wo the tog Ov	undation of orld Heritag Harz Mou gether with vners and c the museur	e Site in ntains the perators	None
4.10	Climate chan	ge and severe	weather ev	vents										
4.10.2	Flooding	(i), (iv), af attributes 3.1.2, 3.1	3.1.1,	Flood I	Protection plan	Progr	ent Monitoring ammes in the W ge site	orld/	Within the five year		Saxony S Preservat	lities and Lo state Office tion of Histo nts, all Stak	for the rical	None
4.10.6	Temperature change	(i), (iv), affer attributes 3 3.1.3, 3.1.5	.1.2, a	_	agement temperature ilding safety	To be in	nplemented	То	be defined	Offic	rer Saxony ce for the servation of orical Monu	:	In the coupdating manage	
4.13	Management	and institution	nal factors											
4.13.1	Management system/Managen plan		d es 3.1.1, i.1.3,	plan and	ed management d local individu r the complex	nt	implemented		025 - 028	for Sci Culture	Saxony Minence and e, all nolders	i i i r r t	olan for the Water Mar t needs to For Goslar master pla manageme he Ramm here is no	management e Upper Harz nagement, but be updated. r there is a in but no ent plan, for elsberg mine management o master plan.
4.13.2	Legal framework	(i), (iv), affe attributes 3. 3.1.5	.1.1, de th th H		t plans for	to be imp	elemented	2025	i-2028	f	Lower Saxo for Science all Stakehol	and Culture	regularity fram	re have been the changes to the ulatory nework over the 15 years, so e is some need adaptation.
4.13.5	Financial resources	(i), (iv), affe attributes 3 3.1.3, 3.1.3	.1.2, fi 6, 3.1.5 e fi iii	Attempt to to financial resease, through foundation industrial coestablished	sources, n a federal for ulture to be	to be impl	emented	to be	defined	for Sc	r Saxony Mi ience and ( akeholders		financiall example case of fi maintena municipa	on is very y weak. For , even in the unded ance projects, the lities are unable heir own share.

4.13.6	Human	(i), (iv), affected	Improve funding, get	to be implemented	to be defined	Lower Saxony Ministry for	None
	resources	attributes 3.1.2,	volunteers more			Science and Culture, all	
		3.1.3, 3.1.3, 3.1.5	involved			Stakeholders	

### Summary - Factors affecting the Property **completed**

### 12.2. Summary - Management Needs

### 12.2.1 - Summary - Management Needs

5.2	Protective Measur	es							
		Actions		Timefra	me		d agency (and others olved)	More info / comment	
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	Integration within the framework of Integrated Management Plan Integration and master plans for World Heritage elements.		2025-2028		Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders		no comment	
5.3	Management Sys	stem/Manag	ement Plan						
5.3.5	Some use has be of the Historic Urb Landscape Recommendation develop policies a practices for the p of the property	oan i to and best	Integration in the context updating the Goslar mass		2025-2026		Town of Goslar	No comment	
5.3.7	of the Policy Docu the Impacts of Cli Change on World	Integration within the frait of Integration within the frait of Integrated Manageme Integration and master p world Heritage elements its at the property		nt Plan ans for	2025-2028		Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders	no comment	
5.3.9	of the Strategy for Risks from Disast	of the Strategy for Reducing of In Risks from Disasters at Integ World Heritage Properties at World		Integration within the framework of Integrated Management Plan Integration and master plans for World Heritage elements.			Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders	No Comment	
5.3.11	between the rang administrative boo involved in the ma	ninistrative bodies lived in the management ne property, <b>but it could</b>		ersons	Till Spring 2024		Lower Saxony Ministry for Science and Culture, Lower Saxony State Office for the Preservation of Monuments And Foundation of the World heritage Site, all Stakeholders	No comment	
5.3.12	The management system/plan is on partially adequat maintain the prop Outstanding Univ	e to erty's		2025-2028		Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders		No comment	
5.3.13	The management the property is <b>on</b> <b>partially impleme</b>	ly being	Preparation of Integrated Management Plan		2025-2028		Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders	No Comment	

5.3.17	In a limited manner, the management system of the World Heritage property does contribute to gender equality In a limited manner, the management system of the World Heritage property does contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status 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	Integration within the frar of Integration and master pi World Heritage elements	nt Plan lans for	S F	Lower Saxony Ministry for Science and Culture And Foundation of the World heritage Site, all Stakeholders	No Comment
6.1	Funding					
6.1.3		oment of sustainable g for management and ation	2024-2026	and Cu	Saxony Ministry for Science ulture And Foundation of the heritage Site, all Stakeholders	No Comment
8	Education, Information and Av	vareness Building				
8.2	planned Heritage ed	n on the topic of World ucation and sustainability ns as well as provision of	2024-2025		ation of the world heritage site, olders of the museums	No comment

- 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	Positive
Recognition	Positive
Education	Positive
Infrastructure development	Positive
Funding for the property	Positive
International cooperation	No impact
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Positive
Security	Not applicable
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	Positive
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Positive
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
- 14.2 Define which topics are covered by this example of best practice at the property level
- 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?

The concept of Outstanding Universal Value

The property's Outstanding Universal Value

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	No follow-up
Site Managers	No follow-up
UNESCO World Heritage Centre	Not needed
Advisory Bodies (ICOMOS, IUCN, ICCROM)	No follow-up

#### 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?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage

Update of management plans

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

Local communities

Other specific groups

State Office for the Preservation of Monuments, owners, museum associations

Other

tourism businesses

## 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?

### 15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

70 / 168 / 9 /

### 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

It was helpful for the various stakeholders that the German focal point provided the questionnaire in German.

### 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)	Not applicable
UNESCO National Commission	Fair
ICOMOS International	Not applicable
IUCN International	Not applicable
ICCROM international/regional	Good
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	Not applicable
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?

Yes

- 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
  - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

    Reason for update: A small transmission error has occurred here in the listing of the type of deposits. In the Brief Synthesis it says tin instead of zinc.

Changes to these items will need to go through the proper processes.

- 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.