

# Brú na Bóinne - Archaeological Ensemble of the Bend of the Boyne

## 1. World Heritage Property Data

### 1.1 - Name of World Heritage property

Brú na Bóinne - Archaeological Ensemble of the Bend of the Boyne

### 1.2 - World Heritage property details

### 1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Brú na Bóinne - Archaeological Ensemble of the Bend of the Boyne	53.695 / -6.475	770	2560	3330	1993
Total (ha)		770	2560	3330	

### 1.4 - Map(s)

Title	Date	Link to source
Archaeological Ensemble of the Bend of the Boyne with its immediate natural and built environment, scale: 1:50,000	1992	
Precise delineation of the Archaeological Ensemble of the Bend of the Boyne and the sites within it, scale approx: 1:20,000	1992	
Archaeological Ensemble of the Bend of the Boyne (Brú na Bóinne), scale 1:10,000	2008	

### Comment

A GIS based map will be submitted to the World Heritage Centre as soon as possible, this is an updated map in accordance with WHC request accompanied by voluntary submission of GIS data.

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

1. [World Heritage Ireland](#)
2. [Heritage of Ireland](#)

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

### 2.2 - Please provide comments on 2.1 if necessary

2.1.2 The inclusion of the site on the List of Cultural Property under Enhanced Protection is under consideration, and brought to the attention of the Irish 1954 Hague Convention National Advisory Committee.

**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?**

No

**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?**

No

**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?**

No

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

No

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

<b>2.7.1</b>	<b>1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict</b>	
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 <b>also manages</b> this designation/programme.	
<b>2.7.2</b>	<b>Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict</b>	
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 <b>also manages</b> this designation/programme.	
<b>2.7.3</b>	<b>Convention on Wetlands of International Importance (Ramsar Convention)</b>	
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 <b>also manages</b> this designation/programme.	
<b>2.7.4</b>	<b>Man and the Biosphere (MAB) Programme</b>	
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 <b>also manages</b> this designation/programme.	
<b>2.7.5</b>	<b>UNESCO Global Geoparks</b>	
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 <b>also manages</b> this designation/programme.	

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

Focal Point of the WH Convention and 1954 Hague Convention are based in the same Government Department and building stable relationship, we foresee collaboration increasing overtime.

**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**

No elements are associated with the World Heritage Property are inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage. However, Ireland is developing a National Inventory of Ireland's Intangible Cultural Heritage, the inventory includes the Boyne Currach Making tradition that might in future be put forward for inscription under the UNESCO Convention.

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

## Heritage property?

No

## 2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you are aware.

NA

## 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

Bounded on the south by a bend in the River Boyne, the prehistoric site of Brú na Bóinne is dominated by the three great burial mounds of Knowth, Newgrange and Dowth. Surrounded by about forty satellite passage graves, they constitute a funerary landscape recognised as having great ritual significance, subsequently attracting later monuments of the Iron Age, early Christian and medieval periods.

Located about 40 km north of Dublin on a ridge between the rivers Boyne and Mattock, within several kilometres of other prehistoric mounds, the site is part of an area rich in stories of Ireland's ancient past. Predominantly agricultural at the present time the area has been extensively explored for more than a hundred years by archaeologists and historians, with excavations revealing many features.

The Knowth group, where the earliest features date from the Neolithic period and the latest from the Anglo-Norman period, has produced thirty monuments and sites that figure on the official inventory; these include passage graves adorned with petroglyphs, enclosures, occupation sites and field systems. The Newgrange group is purely prehistoric, with a ringfort, cursus, passage graves and a henge. The Dowth group is similar to that at Newgrange but there is medieval evidence in the form of a church and a castle.

**Criterion (i):** The Brú na Bóinne monuments represent the largest and most important expression of prehistoric megalithic plastic art in Europe.

**Criterion (iii):** The concentration of social, economic and funerary monuments at this important ritual centre and the long continuity from prehistory to the late medieval period make this one of the most significant archaeological sites in Europe.

**Criterion (iv):** The passage grave, here brought to its finest expression, was a feature of outstanding importance in prehistoric Europe and beyond.

##### Integrity

The 780 ha area of the World Heritage property Brú na Bóinne encapsulates the attributes for which the property was inscribed on the World Heritage List. In addition to the large passage tombs of Knowth, Newgrange and Dowth, 90 recorded monuments – as well as an unknown quantity of as yet unrecorded sites – remain scattered across the ridge above the Boyne and over the low-lying areas and floodplain closer to (the present course of) the rivers.

The buffer zone is comprised of 2,500 hectares, the boundary lines respecting carefully mapped views into and out of the property. Since inscription in 1993, views out of the property have been impacted by the M1 bridge crossing the River Boyne to the east of the property; the addition of a third chimney and other structures to the cement factory on the skyline to the east south-east near Duleek; the addition of an incinerator stack to the skyline at Carranstown and a housing development. The ambiance of the ritual centre is vulnerable to such disturbances which could potentially threaten the integrity of the property. The local authority (Meath County Council) has in place planning policies and procedures to deal with applications for developments which may either incrementally or individually have potential impact on the integrity of the World Heritage property.

##### Authenticity

The archaeological remains on the site, both above and below ground are wholly authentic.

Major excavations have been carried out at Newgrange and Knowth and have been fully published. Many small excavations and surveys have been carried out in the area. The main conservation works have concentrated on the two main passage tombs at Newgrange and Knowth subsequent to the excavations undertaken at these sites. All conservation and restoration work has been carried out by skilled professional staff.

At Newgrange, there has been comprehensive anastylis of the kerbstones and the revetment wall, though the latter has been curtailed to allow access by visitors. The passage roof was completely dismantled to allow the orthostats to be returned to the vertical, with the introduction of reinforcement, and a cowl has been constructed over the chamber area. The cairn itself has been stabilised by means of thin revetments of cairn stones.

At Knowth, structures from all periods are being conserved. In some passage tombs outer support walls have been built for the burial chambers, involving the use of modern materials such as cement and plastic. Where such new additions are visible they are clearly distinguished in appearance from original materials, but in other cases they are completely concealed.

The restoration work on these monuments, the result of close collaboration between archaeologists and conservation architects, conforms with the principles enunciated in Article 7 of the International Charter for Archaeological Heritage Management of 1990.

##### Protection and management requirements

The protection and conservation of Brú na Bóinne is provided by a range of national legislation, international guidelines, statutory and non-statutory guidance. These provisions include the National Monuments Acts of 1930-2004, the Wildlife Acts of 1976 and 2000, the Planning and Development Acts, various EU Directives and international charters. The national monuments legislative code makes provision for the protection and preservation of national monuments and for the preservation of archaeological objects in the State. The Planning and Development Acts provide a framework to protect against undesirable development.

Most of the 780 hectare site is in private ownership. At the time of inscription only 32 hectares, largely around Knowth and Newgrange, were in State ownership (in 2011, 42.75 hectares are in State ownership). The State-owned part of the property has been under the direct management of the Office of Public Works. This State Office uses its professional staff of conservation architects, engineers, land managers and craftsmen in the day to day management activities. Archaeological input to the conservation and presentation of the property is provided by the National Monuments Service of the Department of Arts, Heritage and the Gaeltacht. The State Exchequer provides the funding needed for maintenance, management and conservation.

The local authority development plan (Meath County Development Plan) for the area in which Brú na Bóinne is situated seeks to protect the archaeological and cultural landscape and to enhance views within and adjacent to the World Heritage property. The protection of views within and out of the property is a major factor contributing to retention of the property's integrity.

The Brú na Bóinne Visitor Centre opened to the public in June 1997. Its primary purpose is to manage the flow of visitors to the megalithic tombs of Newgrange and Knowth. Education, public awareness and an emphasis on local engagement are also central to the role of the Centre. The number of visitors to these monuments each day is limited to the maximum that can be accommodated with due regard to the protection of the monuments. Access to the monuments is by guided tour only.

## Comment

The State is in the process of assessing factual errors in the retrospective Statement of OUV, and will contact the World Heritage Centre as soon as the assessment is finalised. The legislative system is also undergoing major changes and improvements and these will be soon reflected in an updated Protection and Management section.

### 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	Extensive funerary landscape of great ritual significance in a bend of the River Boyne with a concentration of social, economic and funerary monuments including 40+ passage graves	✕			
3.2.2	Views into and out of the property		✕		
3.2.3	Time depth of Brú na Bóinne from the Neolithic to late medieval periods	✕			
3.2.4	Finest expression of passage graves in prehistoric Europe	✕			
3.2.5	Largest and most important expression of prehistoric megalithic plastic art in Europe	✕			
3.2.6	Design of the passage graves in relation to the skies and astronomy	✕			
3.2.7	The three great burial mounds of Knowth, Newgrange and Dowth and the sites surrounding them	✕			
3.2.8	Knowth group with use spanning from the Neolithic to the Anglo-Norman periods, including passage graves, enclosures, occupation sites and field systems	✕			
3.2.9	Newgrange group of prehistoric sites including passage graves, henge, cursus, and stone circle	✕			
3.2.10	Dowth group of prehistoric and Iron Age, early Christian and early medieval sites including the great burial mound, megalithic tombs, many smaller burial mounds, henge, standing stone, and late medieval church and castle	✕			
3.2.11	Other prehistoric, Iron Age, early Christian and medieval sites spread across the landscape	✕			
3.2.12	Part of an area rich in stories of Ireland's ancient past	✕			
3.2.13	Ambiance of the ritual centre	✕			
3.2.14					
3.2.15					

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

Views into and out of the property are only partially compromised by the elements already listed in the Statement of OUV in the Integrity section. An extensive baseline survey of the state of conservation of the mounds and the megalithic art is required and will inform future conservation and management decisions.

## 4. Factors Affecting the Property

### 4.1. Buildings and Development

#### 4.1.1 - Housing

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Outside

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive ✕		✕	✕			➡	
🔴 Negative ✕	✕	✕	✕			➡	

#### 4.1.2 - Commercial development

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Outside

✕ Relevant			Not relevant				
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							

⊖ Negative ✕	✕	✕		✕		→	
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#### 4.1.3 - Industrial areas

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
⊕ Positive							
⊖ Negative ✕	✕	✕		✕		→	

#### 4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
⊕ Positive ✕		✕		✕		→	
⊖ Negative ✕	✕	✕	✕	✕		→	

#### 4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
⊕ Positive ✕	✕	✕	✕	✕			↗
⊖ Negative							

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

A number of these factors could potentially impact on the OUV, but there are no current threat associated with these. On the other hand there is room to improve signage and interpretation at the property.

### 4.2. Transportation Infrastructure

#### 4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Current, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
⊕ Positive ✕	✕	✕	✕	✕			↗
⊖ Negative ✕	✕			✕			↗

#### 4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Current, Inside

Relevant	✕ Not relevant
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#### 4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
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#### 4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

Relevant	✕ Not relevant
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#### 4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (24/07/2013):

- Not relevant

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕			✕			↗
➖ Negative ✕		✕		✕	↘		

#### 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

The old buses servicing the visitor center and the monuments are currently being replaced with new sustainable electric vehicles, in line with the actions of our National Biodiversity Plan. A new Local Link route numbered 188 was introduced linking Drogheda to the Battle of the Boyne Visitor Centre, Donore village and Brú na Bóinne (Newgrange) Visitor centre. An new Heritage Impact Assessment is currently underway in respect of the Slane Bypass and its findings will be relayed to the WHC.

### 4.3. Services Infrastructures

#### 4.3.1 - Water infrastructure

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Potential, Inside, Outside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕	✕		→	
➖ Negative							

#### 4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕			→	
➖ Negative ✕		✕		✕		→	

#### 4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
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#### 4.3.4 - Localised utilities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕		✕		→	

### 4.3.5 - Major linear utilities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

### 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

Some of these factors if sensibly managed can improve the sustainability of the Property. Fortunately all the negative ones are under control and not increasing

## 4.4. Pollution

### 4.4.1 - Pollution of marine waters

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

### 4.4.2 - Ground water pollution

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

### 4.4.3 - Surface water pollution

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

### 4.4.4 - Air pollution

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.4.5 - Solid waste

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

#### 4.4.6 - Input of excess energy

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕			→	

#### 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

All these issues are kept under constant review and addressed through the planning system as appropriate.

### 4.5. Biological resource use/modification

#### 4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

#### 4.5.2 - Aquaculture

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

Relevant				✕ Not relevant			
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#### 4.5.3 - Land conversion

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕	✕		→	















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

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		






Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.5.5 - Crop production

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

#### 4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	 Not relevant
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#### 4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	 Not relevant
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#### 4.5.8 - Commercial hunting

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	 Not relevant
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#### 4.5.9 - Subsistence hunting

Previous answer Cycle 2 (24/07/2013):

- Not relevant

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

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

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

### 4.6. Physical resource extraction

#### 4.6.1 - Mining

Previous answer Cycle 2 (24/07/2013):

- Not relevant















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

#### 4.6.2 - Quarrying

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside


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

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.6.3 - Oil and gas

Previous answer Cycle 2 (24/07/2013):

- Not relevant















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

#### 4.6.4 - Water (extraction)

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 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
















#### 4.7. Local conditions affecting physical fabric

##### 4.7.1 - Wind

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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
















	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

##### 4.7.2 - Relative humidity

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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
















	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

##### 4.7.3 - Temperature

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.7.4 - Radiation/Light

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕				↗

#### 4.7.5 - Dust

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕	✕		→	

#### 4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕	✕			↗

#### 4.7.7 - Pests

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕	✕			↗

#### 4.7.8 - Micro-organisms

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕				↗

#### 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

All these factors are linked with climate change issues that Ireland is experiencing as new challenges for conservation. The Built & Archaeological Heritage Climate Change Sectoral Adaptation Plan addresses some of these issues (<https://assets.gov.ie/75639/a0ad0e1d-339c-4e11-bc48-07b4f082b58f.pdf>).

#### 4.8. Social/Cultural uses of heritage

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

Previous answer Cycle 2 (24/07/2013):

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

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔊 Current	🔊 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕		→	
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (24/07/2013):

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

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔊 Current	🔊 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕		→	
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ Not relevant			
----------	--	--	--	----------------	--	--	--

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

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ Not relevant			
----------	--	--	--	----------------	--	--	--

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

Previous answer Cycle 2 (24/07/2013):

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

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔊 Current	🔊 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕		→	
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (24/07/2013):

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

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔊 Current	🔊 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative ✕	✕	✕	✕	✕			↗

#### 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 (24/07/2013):

- Relevant, Negative, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕			→	

#### 4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕	✕		→	

#### 4.9.3 - Military training

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ Not relevant			
----------	--	--	--	----------------	--	--	--

#### 4.9.4 - War

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ Not relevant			
----------	--	--	--	----------------	--	--	--

#### 4.9.5 - Terrorism

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ Not relevant			
----------	--	--	--	----------------	--	--	--

#### 4.9.6 - Civil unrest

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant				✕ 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

Vandalism is extremely rare but one instance was recorded within the boundaries of the property where unauthorised excavation has taken place. Because of the scale of the property it is difficult to control antisocial behavior and in rare occasion graffiti's and small fires have been reported to the State Authorities.

#### 4.10. Climate change and severe weather events

##### 4.10.1 - Storms

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside
















✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔨 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕	✕	✕			↗

##### 4.10.2 - Flooding

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
------------	--	--	--	--------------	--	--	--






















	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.10.3 - Drought

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive 							
 Negative 							

#### 4.10.4 - Desertification

Previous answer Cycle 2 (24/07/2013):

- Not relevant















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

#### 4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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













	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.10.6 - Temperature change

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative 							

#### 4.10.7 - Other climate change impacts

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	 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

It might be surprising that drought was given also a positive value, but it should be noted that the draught of the summer of 2018 has allowed the identification of a number of new monuments in the form of crop-marks that are adding to the knowledge of such a complex ritual landscape and might inform future research.

#### 4.11. Sudden ecological or geological events

##### 4.11.1 - Volcanic eruption

Previous answer Cycle 2 (24/07/2013):

- Not relevant

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

#### 4.11.2 - Earthquake

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

Relevant	✕ Not relevant
----------	----------------

#### 4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

#### 4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

#### 4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕			↗

#### 4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

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

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

##### 4.12.1 - Translocated species

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕	✕	✕		→	

#### 4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (24/07/2013):

- Relevant, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕	✕	✕		→	

#### 4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

#### 4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

#### 4.12.6 - Modified genetic material

Previous answer Cycle 2 (24/07/2013):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

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

The National Parks and Wildlife Services are constantly monitoring these factors.

### 4.13. Management and institutional factors

#### 4.13.1 - Management system/Management plan

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative ✕	✕		✕	✕	↘		

#### 4.13.2 - Legal framework

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							



#### 4.13.3 - Governance

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

#### 4.13.4 - Management activities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Current, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

#### 4.13.5 - Financial resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

#### 4.13.6 - Human resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

#### 4.13.7 - Low impact research/monitoring activities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Current, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative							

#### 4.13.8 - High impact research/monitoring activities

Previous answer Cycle 2 (24/07/2013):

- Relevant, Positive, Negative, Potential, Inside, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕	✕	✕	✕	✕			↗
➖ Negative ✕		✕	✕	✕		→	

#### 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

Both low-impact and high impact research is carried out within the boundaries of the World Heritage property following the principles expressed in the dedicated Research Framework (<https://www.heritagecouncil.ie/projects/br%C3%BA-na-b%C3%B3inne-research-framework-1>). Any research activity that has potential impact on the monuments is done in compliance with the National Monuments Acts 1930 to 2014.

#### 4.14. Other factor(s)

##### 4.14.1 - Other factor(s)

The management plan is dated 2017 and in need of revision. A number of actions have been implemented, others are in progress and some remain outstanding. It has been recognised by State Authorities the need to appoint a World Heritage Coordinator, work is ongoing to progress this action.

#### 4.15. Factors Summary Table

##### 4.15.1 - Factors Summary Table

Name	Impact			Origin		Trend
4.1 Buildings and Development						
4.1.1 Housing						
4.1.2 Commercial development						
4.1.3 Industrial areas						
4.1.4 Major visitor accommodation and associated infrastructure						
4.1.5 Interpretative and visitation facilities						
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure						
4.2.5 Effects arising from use of transportation infrastructure						
4.3 Services Infrastructures						
4.3.1 Water infrastructure						
4.3.2 Renewable energy facilities						
4.3.4 Localised utilities						
4.3.5 Major linear utilities						
4.4 Pollution						
4.4.1 Pollution of marine waters						
4.4.2 Ground water pollution						
4.4.3 Surface water pollution						
4.4.4 Air pollution						

4.4.5 Solid waste						
4.4.6 Input of excess energy						
4.5 Biological resource use/modification						
4.5.1 Fishing/collecting aquatic resources						
4.5.3 Land conversion						
4.5.4 Livestock farming/Grazing of domesticated animals						
4.5.5 Crop production						
4.5.10 Forestry/Wood production						
4.6 Physical resource extraction						
4.6.2 Quarrying						
4.6.4 Water (extraction)						
4.7 Local conditions affecting physical fabric						
4.7.1 Wind						
4.7.2 Relative humidity						
4.7.3 Temperature						
4.7.4 Radiation/Light						
4.7.5 Dust						
4.7.6 Water (rain/water table)						
4.7.7 Pests						
4.7.8 Micro-organisms						
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses						
4.8.2 Society's valuing of heritage						
4.8.5 Identity, social cohesion, changes in local population and community						

4.8.6 Impacts of tourism/Visitation/Recreation						
4.9 Other human activities						
4.9.1 Illegal activities						
4.9.2 Deliberate destruction of heritage						
4.10 Climate change and severe weather events						
4.10.1 Storms						
4.10.2 Flooding						
4.10.3 Drought						
4.10.5 Changes to oceanic waters						
4.10.6 Temperature change						
4.11 Sudden ecological or geological events						
4.11.4 Avalanche/Landslide						
4.11.5 Erosion and siltation/Deposition						
4.11.6 Fire (wildfire)						
4.12 Invasive/alien species or hyper-abundant species						
4.12.1 Translocated species						
4.12.2 Invasive/Alien terrestrial species						
4.12.3 Invasive/Alien freshwater species						
4.13 Management and institutional factors						
4.13.1 Management system/Management plan						
4.13.2 Legal framework						
4.13.3 Governance						
4.13.4 Management activities						
4.13.5 Financial resources						
4.13.6 Human resources						

4.13.7 Low impact research/monitoring activities						
4.13.8 High impact research/monitoring activities						
<b>Legend</b>	Current	Potential	Negative	Positive	Inside	Outside

## 4.16. Assessment of current and potential positive and negative factors

### 4.16.1 - Assessment of current and potential negative and positive factors

#### 4.1 Buildings and Development






Name	Impact			Origin		Trend
4.1.1 Housing						

Spatial scale - Area affected by the factor	
	Restricted
<input checked="" type="checkbox"/>	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
<input checked="" type="checkbox"/>	Minor
	Significant
	Major
Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
<input checked="" type="checkbox"/>	Static
	Increasing

Name	Impact			Origin		Trend
4.1.2 Commercial development						






Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted

	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.1.3 Industrial areas						
						

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	

✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.1.4 Major visitor accommodation and associated infrastructure			
			




<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread

<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major

<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources




<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.1.5 Interpretative and visitation facilities			
			

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised

	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing








## 4.2 Transportation Infrastructure

Name	Impact	Origin	Trend
4.2.1 Ground transport infrastructure	  	 	
	 		

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	








✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.2.5 Effects arising from use of transportation infrastructure	 		 
	 		 

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

### 4.3 Services Infrastructures

Name	Impact	Origin	Trend
4.3.1 Water infrastructure	 	 	
<b>Spatial scale - Area affected by the factor</b>			

✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.3.2 Renewable energy facilities	+		📌	📍		➡
	-		📌		🔄	➡

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence 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	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.3.4 Localised utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going

Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major

Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.3.5 Major linear utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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






	Restricted
✕	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

## 4.4 Pollution

Name	Impact			Origin		Trend
4.4.1 Pollution of marine waters						

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant

	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.4.2 Ground water pollution			
	    		




<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread

<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going






<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major

<b>Management response - Capacity of management to respond</b>	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources

<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing







Name	Impact	Origin	Trend
4.4.3 Surface water pollution			
	    		

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.4.4 Air pollution						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing





Name	Impact	Origin	Trend
4.4.5 Solid waste			
	     		

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

Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major





Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.4.6 Input of excess energy			
	     		

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

✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing







## 4.5 Biological resource use/modification

Name	Impact			Origin		Trend
4.5.1 Fishing/collecting aquatic resources						
						

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant



	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.5.3 Land conversion			
			
			







<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread

<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major






<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.5.4 Livestock farming/Grazing of domesticated animals			
			
			






<b>Spatial scale - Area affected by the factor</b>	
--	--

	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.5.5 Crop production						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.5.10 Forestry/Wood production			
	     		





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

Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going




Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

## 4.6 Physical resource extraction

Name	Impact	Origin	Trend
4.6.2 Quarrying			
	    		






Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.6.4 Water (extraction)						
						

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant

	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

#### 4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
4.7.1 Wind			
			
			

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing






Name	Impact	Origin	Trend
4.7.2 Relative humidity			

<b>Spatial scale - Area affected by the factor</b>							
	Restricted						
✕	Localised						
	Extensive						
	Widespread						
<b>Temporal scale - Occurrence of the impact</b>							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
✕	On-going						
<b>Impact - Impact on the attributes</b>							
	Insignificant						
✕	Minor						
	Significant						
	Major						
<b>Management response - Capacity of management to respond</b>							
	High capacity						
✕	Medium capacity						
	Low capacity						
	No capacity and / or resources						
<b>Trend - Development over the last 6 years</b>							
	Decreasing						
	Static						
✕	Increasing						

Name	Impact			Origin		Trend
4.7.3 Temperature						

<b>Spatial scale - Area affected by the factor</b>							
	Restricted						
	Localised						
✕	Extensive						
	Widespread						
<b>Temporal scale - Occurrence of the impact</b>							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
✕	On-going						
<b>Impact - Impact on the attributes</b>							
	Insignificant						
✕	Minor						

	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.7.4 Radiation/Light			
	   		

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread

<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major

<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.7.5 Dust			

<b>Spatial scale - Area affected by the factor</b>							
	Restricted						
✕	Localised						
	Extensive						
	Widespread						
<b>Temporal scale - Occurrence of the impact</b>							
	One off or rare						
✕	Intermittent or sporadic						
	Frequent						
	On-going						
<b>Impact - Impact on the attributes</b>							
✕	Insignificant						
	Minor						
	Significant						
	Major						
<b>Management response - Capacity of management to respond</b>							
	High capacity						
✕	Medium capacity						
	Low capacity						
	No capacity and / or resources						
<b>Trend - Development over the last 6 years</b>							
	Decreasing						
✕	Static						
	Increasing						

Name	Impact			Origin		Trend
4.7.6 Water (rain/water table)						

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
	Localised
✕	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor



✕	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.7.7 Pests						

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread

<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major

<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.7.8 Micro-organisms						

<b>Spatial scale - Area affected by the factor</b>							
	Restricted						
	Localised						
	Extensive						
	Widespread						
<b>Temporal scale - Occurrence of the impact</b>							
	One off or rare						
	Intermittent or sporadic						
	Frequent						
	On-going						
<b>Impact - Impact on the attributes</b>							
	Insignificant						
	Minor						
	Significant						
	Major						
<b>Management response - Capacity of management to respond</b>							
	High capacity						
	Medium capacity						
	Low capacity						
	No capacity and / or resources						
<b>Trend - Development over the last 6 years</b>							
	Decreasing						
	Static						
	Increasing						

## 4.8 Social/Cultural uses of heritage

Name	Impact	Origin	Trend
4.8.1 Ritual/Spiritual/Religious and associative uses			
<b>Spatial scale - Area affected by the factor</b>			
	Restricted		
	Localised		
	Extensive		
	Widespread		
<b>Temporal scale - Occurrence of the impact</b>			
	One off or rare		
	Intermittent or sporadic		
	Frequent		
	On-going		
<b>Impact - Impact on the attributes</b>			
	Insignificant		

✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.8.2 Society's valuing of heritage			

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.8.5 Identity, social cohesion, changes in local population and community			

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Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.8.6 Impacts of tourism/Visitation/Recreation			

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input checked="" type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor

	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

## 4.9 Other human activities

Name	Impact	Origin	Trend
4.9.1 Illegal activities			
			

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor
✕	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
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4.9.2 Deliberate destruction of heritage							

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing






## 4.10 Climate change and severe weather events

Name	Impact	Origin	Trend
4.10.1 Storms			










  

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	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 - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.10.2 Flooding						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.10.3 Drought	  	 	
	  	 	







Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.5 Changes to oceanic waters			
	 	 	

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	





✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing




Name	Impact			Origin		Trend
4.10.6 Temperature change						
						

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
✕	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

## 4.11 Sudden ecological or geological events





Name	Impact	Origin	Trend
4.11.4 Avalanche/Landslide			
			

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.11.5 Erosion and siltation/Deposition			
			

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic







	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor
✕	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.11.6 Fire (wildfire)						
						






<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread
<b>Temporal scale - Occurrence of the impact</b>	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing

✕	Static
	Increasing

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






Name	Impact	Origin	Trend
4.12.1 Translocated species			
	  	 	

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.12.2 Invasive/Alien terrestrial species			
	  	 	

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare








	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.12.3 Invasive/Alien freshwater species						
						






Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
✕	Static
	Increasing

#### 4.13 Management and institutional factors





Name	Impact	Origin	Trend
4.13.1 Management system/Management plan	  	 	
	 	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.2 Legal framework	  	 	







Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	

	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.3 Governance	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.4 Management activities	  	 	

#### Spatial scale - Area affected by the factor

	Restricted
	Localised
	Extensive
✕	Widespread

#### Temporal scale - Occurrence of the impact

	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

#### Impact - Impact on the attributes





	Insignificant
	Minor
✕	Significant
	Major

#### Management response - Capacity of management to respond

✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources

#### Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.5 Financial resources	  	 	

#### Spatial scale - Area affected by the factor





	Restricted
	Localised
✕	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

	One off or rare
--	-----------------








	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.6 Human resources	  	 	

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing

	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	  	 	

#### Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

#### Impact - Impact on the attributes









	Insignificant
	Minor
✕	Significant
	Major

#### Management response - Capacity of management to respond

✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources

#### Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.8 High impact research/monitoring activities	  	 	
	  	 	

#### Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

	One off or rare
✕	Intermittent or sporadic

	Frequent
	On-going
<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major
<b>Management response - Capacity of management to respond</b>	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

#### 4.17. Serial inscriptions (national or transnational)

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

Not applicable

#### 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	Extensive funerary landscape of great ritual significance in a bend of the River Boyne with a concentration of social, economic and funerary monuments including 40+ passage graves	✕			
4.18.1.2	Views into and out of the property	✕			
4.18.1.3	The time depth of Brú na Bóinne from the Neolithic to late medieval periods	✕			
4.18.1.4	The finest expression of passage graves in prehistoric Europe	✕			
4.18.1.5	Largest and most important expression of prehistoric megalithic plastic art in Europe		✕		

### 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).**

(Source: Periodic Reporting Cycle 1 (2001-2006))

The Development Plan for County Meath, where the site is situated, provides protection for the site. It is protected under Ireland's National Monuments legislation.

(Advisory Body Evaluation)

Most of the 780 ha site included in the nomination is in private ownership; only 32 ha, largely around Knowth and Newgrange, are in State ownership. Most of the registered monuments listed in the nomination are protected under the National Monuments Acts of 1930, 1954, and 1987. Thirty are in the ownership of the Commission of Public Works, four are subject to Preservation Orders (no disturbance permitted), and twelve are on the official Register of Historic Monuments (proposals to disturb require notification of competent authorities, who have powers to acquire or impose a Preservation Order). Further protection will be conferred by the National Parks and Heritage Areas Bill, which is currently (January 1993) before the Dail (Parliament).

Source: Advisory Body Evaluation and Periodic Reporting Cycle 1

## Comment

The World Heritage Property is protected by a range of national legislation, local mechanisms, international guidelines, statutory and non-statutory guidance. These legislative provisions include, amongst others, the National Monuments Acts 1930 to 2014 (Currently under review), the Wildlife Act 1976 to 2021, Planning and Development Acts 2000 to 2022, various EU Directives and international charters including the The European Convention on the Protection of the Archaeological Heritage, 1992 etc

### 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

(2021-2027) / Meath County Development Plan for Meath County Council / yes / yes /

<https://consult.meath.ie/en/consultation/meath-adopted-county-development-plan/chapter/08-cultural-and-natural-heritage-strategy>

(2021-2027) / Louth County Development Plan / yes / yes /

<https://www.louthcoco.ie/en/publications/development-plans/louth-county-development-plan-2021-2027/consolidated-louth-county-development-plan-2021-2027.html>

### 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?

The **legal framework** in the buffer zone for the maintenance 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**

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

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

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

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

### 5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

Planning and Development Acts 2000–2014 (currently under revision) Section 10 of the Planning and Development Act 2000, as amended, sets out a list of mandatory objectives to be included in a development plan. A number of these relate to cultural heritage, including - the protection of the World Heritage Property, structures and areas of special interest, the preservation of the character of the landscape, views and prospects. Local Development Plans recognise both WHP and Buffer Zones

### 5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World Heritage property

## 5.3. Management System/Management Plan

### 5.3.1 - Please check the box which most closely match the character of the governance and management system of the property

Public management system joint regional/local

If 'Other', please specify

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

A statutory Management Plan or zoning plan for the property.

A management plan




A joint approach to management of cultural and natural heritage

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

The pattern of ownership of the WHP is varied. A small portion of the WHP surrounding the great mounds of Knowth, Newgrange and Dowth and lands of the Visitor Centre are owned by the State but the greater part is in private ownership. National: Department of Housing, Local Government and Heritage, National Monuments Service National Parks and Wildlife Service, Built Heritage and Architectural Policy, Office of Public Works. Local: County Councils, NGOs, ICOMOS Ireland

### 5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
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National Archaeological Park Boyne Valley: A study in archaeological resource management	N/A	Available	1989	
Brú na Bóinne World Heritage Site Management Plan	N/A	Available	2002	
Management Plan (January 2017)	N/A	Available	2017	

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

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

**5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.**

**5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?**

**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:**

Built & Archaeological Heritage Climate Change Sectoral Adaptation Plan Prepared under the National Adaptation Framework 2019 Daly, C. (2014) A Cultural Heritage Management Methodology for Assessing the Vulnerabilities of Archaeological Sites to Predicted Climate Change Focusing on Ireland's Two World Heritage Sites. Doctoral Thesis. Technological University Dublin. doi:10.21427/D76G65 Available at: <https://arrow.dit.ie/builtoc/13/>

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

**No use** has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

**5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done**

**5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property**

There is **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?**

**No** annual work/action plan exists and it is **not needed**

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

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

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

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities					×
5.3.16.2	Local/Municipal authorities				×	
5.3.16.3	Indigenous peoples	×				
5.3.16.4	Landowners				×	

5.3.16.5	Women					×
5.3.16.6	Youth/Children					×
5.3.16.7	Researchers					×
5.3.16.8	Local Visitors/Tourists					×
5.3.16.9	National/International tourists					×
5.3.16.10	Tourism Industry					×
5.3.16.11	Local businesses and industries				×	
5.3.16.12	NGOs	×				
5.3.16.13	Other specific groups	×				
	If you selected 'Other specific groups', please specify					

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

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

**5.3.18 - Please provide further details on the ratings of the management system given in the table above**

Gender equality, social inclusion and equity are assured by overall National Policies and only indirectly integrated in the Management System.

**5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan**

Progress has been made recently to establish a stakeholder steering group and a local community forum.

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

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

NA

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

The budget changes on a yearly basis depending on overall National Budget and government spending priority.

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	50 %	50 %
6.1.6.2	Women	50 %	50 %
		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	Good
Environmental sustainability	Fair
Community participation and inclusion	Poor
Risk preparedness	Poor
Capacity development and education	Good
Administration	Fair
Research and monitoring	Poor
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Good
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	Poor
Environmental sustainability	Fair
Community participation and inclusion	Poor
Risk preparedness	Poor
Capacity development and education	Fair
Administration	Fair
Research and monitoring	Fair
Awareness raising and public information/communication	Poor
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Fair
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.

A plan to implement the Capacity Building Strategy is underway at national level and it will focus on Heritage Impact Assessment and Management effectiveness on one side, and on raising awareness with communities and other stakeholder on the other.

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?

There is no site-based capacity building plan or programme in place; management is implemented by external staff and skills are not transferred

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

Financial resources are steadily increasing, and they will support the improvement of management capacity. It should be noted that OPW staff assigned to the World Heritage Site continue to provide protection and care to the monuments and their associated property. OPW is also updating its methodology for the protection and maintenance of the sites on an ongoing basis focusing on increasing awareness and capacity to address climate vulnerability in support of adaptation and mitigation measures

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 with local communities and some national agencies

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

[https://www.heritagecouncil.ie/content/files/bru\\_na\\_boinne\\_research\\_framework\\_summary\\_2009\\_7mb.pdf](https://www.heritagecouncil.ie/content/files/bru_na_boinne_research_framework_summary_2009_7mb.pdf) There is a dedicated research strategy that is undergoing review. The government is supporting specific research grants: <https://www.ria.ie/archaeological-research-world-heritage-sites-scheme>

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	Good
Indigenous peoples	Not applicable
Landowners	Poor
Women	Good
Youth/children	Fair
Researchers	Good
Local visitors	Fair
National/international tourists	Good
Tourism industry	Fair
Local businesses and industries	Poor
NGOs	Fair
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
Local/municipal authorities
Indigenous peoples



Youth/children
Researchers
Local Visitors
National/international tourists
NGOs
Other specific groups
Local drama groups IAC-drone trainings stellarium

#### 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	Not needed
Information booths	Not needed
Guided tours	Good
Trails/routes	Fair
Printed information materials	Good
Online (website, social media, etc.)	Good
Transportation facilities	Fair
Other	Not needed
If 'Other' is selected, please specify	On site interpretation could be improved Interpretation is only partially offered in different languages

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

<https://www.gov.ie/en/press-release/548c2-new-knowth-visitor-experience-opens-at-bru-na-boinne-following-18m-investment/>

<https://www.gov.ie/en/press-release/2e2366-new-state-of-the-art-visitor-experience-opens-at-bru-na-boinne-visit/>

### 9. Visitor Management

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

109,439 / 30,119 / 20,644 / 229,338 / 261,340 /

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

Entry tickets and registries
Visitor surveys

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

One day (no overnight stay)

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

Visitor survey done by Fáilte Ireland in October 2022 and visitor numbers are recorded by the Office of Public Works for monuments in state care, but there are no numbers recorded of visits to the wider landscape of the WHP and monuments that are not included in the official tour.

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

NA / 15 euro / 10 euro fuel / 18 / NA / 20 /

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

Visitor survey

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

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

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

A study took place in 2021 led by Fáilte Ireland in collaboration with OPW: 'Brú na Bóinne Orientation and Experience Development' which may lead to a new Visitor Strategy

#### 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?

Yes, using a different system

If a different system, please specify

Internal Office of Public Works system

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 **good 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 **one location**, but **not 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**, but make **no contribution** to the management of the World Heritage property

9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

Crafts events and shops, Boyne river boat trips, Boyne curragh cultural groups

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

Yes

If 'Yes', please specify

the world heritage provides local jobs/ events, local meetings, scouts, football medals, nature walks, sing songs, saint Patrick crafts in action, local children school events(plays) Solstice draw, lecture series/

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

The World Heritage Property is a vast landscape where monuments are not always obvious or accessible, controlled access and increased presentation of less prominent monuments could be promoted.

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 a **small amount of monitoring**, but it is not planned

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 **sufficient to define key indicators**, but **this has not been done**

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

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

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

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

World Heritage managers/coordinators and staff	Good
Local/municipal authorities	Fair
Local communities	Poor
Indigenous peoples	Not applicable
Landowners	Poor

Women	Poor
Researchers	Fair
Tourism industry	Fair
Local businesses and industry	Poor
NGOs	Fair
Other specific groups	Not applicable
If you selected 'Other specific groups', please specify	

#### 10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is underway

#### 10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

The mission recommended: • that the Office of Public Works develops a methodology for monitoring the state of conservation of the World Heritage Property, particularly the effects of ambient air pollutant on stonework or historical monuments- not yet implemented . • that the State Party might consider commissioning a study of the development issues -Local Authority working on this • consideration of appointing an official with clear overall responsibility for the management - underway

#### 10.8 - Comments, conclusions and/or recommendations related to Monitoring

The state of conservation of the monuments could be monitored in a systematic way to inform future conservation and management decision

### 11. Identification of Priority Management Needs

#### 11.1 - Identification of Priority Management Needs

5.3	Management System/Management Plan	
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	No 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 <b>only partially adequate</b> to maintain the property's Outstanding Universal Value	✗
5.3.13	The management system at the property is <b>only being partially implemented</b>	
5.3.17	<ul style="list-style-type: none"> <li>In a limited manner, the management system of the World Heritage property does <b>provide ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)</b></li> <li>In a limited manner, the management system of the World Heritage property does <b>contribute to fostering inclusive local economic development, and to enhancing livelihood</b></li> </ul>	✗
6.1	Funding	
6.1.3	The available <b>budget is acceptable</b> but <b>could be further improved</b> to fully meet the management needs of the World Heritage property	✗
6.1.7	Human resources <b>partly meet</b> 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	There is <b>no site-based</b> capacity building plan or programme in place; management is implemented by external staff and skills are not transferred	✗
7	Scientific Studies and Research Projects	
7.2	There is <b>considerable research</b> in the World Heritage property but it is <b>not directed towards management needs and/or improving understanding of Outstanding Universal Value</b>	
8	Education, Information and Awareness Building	
8.2	There is a planned education and awareness programme for children and/or youth <b>but it only partly meets the needs</b>	
9	Visitor Management	
9.7	There is a <b>strategy</b> to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are <b>some deficiencies in implementation</b>	✗
9.9	Visitor use of the World Heritage property is managed but <b>improvements could be made</b>	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property <b>is acceptable but improvements could be made</b>	
10	Monitoring	
10.1	There is a <b>small amount of monitoring</b> at the World Heritage property, but it is not planned	✗
10.2	Information on the values of the World Heritage property is <b>sufficient to define key indicators, but this has not been done</b>	

Please select 0 more issues.

☒ Please save this question to reflect changes

## 12. Summary and Conclusions

### 12.1. Summary - Factors affecting the Property

#### 12.1.1 - Summary - Factors affecting the Property

4.4	Pollution						
4.4.4	Air pollution	Criteria (i) (iv) Largest and most important expression of prehistoric megalithic plastic art in Europe	Baseline survey of the state of conservation of the art and the monuments structures accompanied by a structured plan of periodic monitoring	According to monitoring plan	As soon as feasible	Department of Housing Local Government and Heritage and Office of Public Works	Most of the Factors listed below are associated with Climate Change and will be addressed comprehensively. Data will need to be gathered systematically and monitored regularly to allow the design of an effective adaptation strategy.
4.7	Local conditions affecting physical fabric						
4.7.2	Relative humidity	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	none
4.7.3	Temperature	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	none
4.7.4	Radiation/Light	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	none
4.7.6	Water (rain/water table)	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	none
4.7.8	Micro-organisms	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	Same as 4.4.4	none
4.8	Social/Cultural uses of heritage						
4.8.6	Impacts of tourism/Visitation/Recreation	Criteria (i) (iv) Largest and most important expression of prehistoric megalithic plastic art in Europe Ambiance of the ritual centre	Assess the impact of visitors on the state of conservation of the monuments	Regular	as soon as possible	Department of Housing Local Government and Heritage and Office of Public Works	none
4.10	Climate change and severe weather events						
4.10.1	Storms	Criteria (i) (iv) Largest and most important expression of prehistoric megalithic plastic art in Europe	Ad hoc interventions will be designed to respond to extreme weather events	ad hoc	when necessary	Department of Housing Local Government and Heritage and Office of Public Works	none
4.10.6	Temperature change	Criteria (i) (iv) Largest and most important expression of prehistoric megalithic plastic art in Europe	Ad hoc interventions will be designed to respond to extreme weather events	ad hoc	when necessary	Department of Housing Local Government and Heritage and Office of Public Works	none
4.13	Management and institutional factors						
4.13.1	Management system/Management plan	Criteria (i) (iii) (iv)	Management plan will be reviewed	Yearly	The management plan is due a review in four years but works will start well in advance to allow timely completion	Department of Housing Local Government and Heritage and Office of Public Works, Local Authorities and other stakeholders	none

Summary - Factors affecting the Property **completed**

## 12.2. Summary - Management Needs

### 12.2.1 - Summary - Management Needs

5.3	<b>Management System/Management Plan</b>				
		<b>Actions</b>	<b>Timeframe</b>	<b>Lead agency (and others involved)</b>	<b>More info / comment</b>
5.3.7	<b>Some use</b> has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	Climate Vulnerability Index needs to be produced to inform future conservation strategies	in the next two years	Department of Housing, Local Government and Heritage in collaboration with Office of Public Works and National Parks and Wildlife	Climate Change is an increased threat and adaptation measures will be designed to protect OUV
5.3.9	<b>No use</b> has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	Disaster Risk Plan will need to be drafted	In the next two years	Department of Housing, Local Government and Heritage in collaboration with Office of Public Works and National Parks and Wildlife	none
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>	Support interagency dialogue	ongoing	Department of Housing Local Government and Heritage and Office of Public Works and all other central takeholders	none
5.3.12	The management system/plan is <b>only partially adequate</b> to maintain the property's Outstanding Universal Value	Increase local participation	ongoing	Department of Housing Local Government	Local Community forum is in the process of being set up
5.3.17	<ul style="list-style-type: none"> <li><b>In a limited manner</b>, the management system of the World Heritage property does <b>provide ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)</b></li> <li><b>In a limited manner</b>, the management system of the World Heritage property does <b>contribute to fostering inclusive local economic development, and to enhancing livelihood</b></li> </ul>	The State, in collaboration with Local Authorities will commission the development of a socio-economic benefit plan for the entire WHP	to be completed in the next two years	Department of Housing Local Government and Heritage, in collaboration with Local Authorities	none
6.1	<b>Funding</b>				
6.1.3	The available <b>budget is acceptable</b> but <b>could be further improved</b> to fully meet the management needs of the World Heritage property	Budgets are steadily increasing	variable	Department of Housing Local Government and Heritage, Office of Public Works, Local Authorities	none
6.1.10	<b>Some use</b> has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	A property specific capacity building plan will be integrated in the national one which will be based on the principles of the WH Strategy	ongoing	Department of Housing Local Government and Heritage, Office of Public Works, Local Authorities	none

6.1.12	There is <b>no site-based</b> capacity building plan or programme in place; management is implemented by external staff and skills are not transferred	A property specific capacity building plan will be integrated in the national one which will be based on the principles of the WH Strategy	ongoing	Department of Housing Local Government and Heritage, Office of Public Works, Local Authorities	none
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9	<b>Visitor Management</b>				
9.7	There is a <b>strategy</b> to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are <b>some deficiencies in implementation</b>	Explore new strategies	ongoing	Department of Housing Local Government and Heritage, Office of Public Works, Local Authorities Fáilte Ireland	Visitors now have only access to state-owned properties and only 2 of the big tombs are included in the tours that leave from the Visitor Centre.

10	<b>Monitoring</b>				
10.1	There is a <b>small amount of monitoring</b> at the World Heritage property, but it is not planned	Design and implement a structured monitoring plan	the next two years	Department of Housing Local Government and Heritage, Office of Public Works,	none

Summary - Management Needs completed

### 12.3. Conclusions on the State of Conservation of the Property

#### 12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

The Authenticity of the World Heritage property **has been preserved**

#### 12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property?

The Integrity of the World Heritage property is **intact**

#### 12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

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

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

Other important cultural and/or natural values are being **partially degraded** but the state of conservation of the World Heritage property has **not been significantly impacted**

#### 12.3.5 - Comments, conclusions and/or recommendations related to the state of conservation of the property.

A more structured plan to monitor the state of conservation of the OUV and its attributes needs to be designed, but work is progressing to address and implement the relevant actions in the Management Plan.

### 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	Positive

Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Positive
Security	Not applicable
Gender equality	Positive
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	Not applicable
Other	Not applicable
If 'Other', please specify	

### 13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

13.1.4 Quality of life for local communities: This is possibly the most difficult impact to evaluate as there are a number of factors that improved the quality of life for the community, but also concerns linked with planning restrictions and insufficient redistribution of economic benefits.

## 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

• The grounds are managed to maximise biodiversity, grass cutting regime at the monuments sites encourages biodiversity • Visitor centre was recently renovated is located at a distance from the monuments, designed sustainably allows controlled access to the monuments and interpretation is up to date, arrangements made to include new information, replica of the chamber for access to people with disabilities. Visitor centre fully accessible, optimising power work scheme across all government buildings • Education is a priority and the monuments are on the school curricula • Guides are highly qualified and motivated • The management contributes to year-round employment for members of the local community • Promotion of local tourism contributes to local economy in the area • Boyne valley field club photographic exhibitions walks and talks in visitor center, arts and crafts exhibition, repeat visitors can experience something new every time they go • Events like Stargazing nights give the community the opportunity to experience the WHP from a different perspective and enhance their perception of the landscape

### 14.2 - Define which topics are covered by this example of best practice at the property level

Sustainable Development
Management
Capacity Building

## 15. Assessment of the Periodic Reporting Exercise

### 15.1. Relevance of Periodic Reporting

#### 15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

The World Heritage Convention
The concept of Outstanding Universal Value
The property's Outstanding Universal Value
The concept of Integrity and/or Authenticity
The property's Integrity and/or Authenticity
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	Fair
Site Managers	No follow-up
UNESCO World Heritage Centre	Fair
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Fair

### 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
Awareness raising
Advocacy
Other
Progress the appointment of a manager for the Property

### 15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

Data will be used to inform the drafting of the new management plan for the site and inform future management and conservation decisions.

## 15.3. Timing and resources

### 15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Governmental institutions responsible for cultural and natural heritage
Site Manager/Coordinator World Heritage property staff
Focal points of other international conventions/programmes
Responsible persons for local designated sites under other international conventions/ programmes
External experts

### 15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire?

Gender balance has been **given limited consideration** and implementation is in process.

### 15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire?

Yes

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

60 / 10 / 40 /

### 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?

**Not all** 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

Section 4.16.1 does not allow for a distinction between positive and negative factors, this undermines the credibility of the internal evaluation, as there might be differences that cannot be contemplated or only briefly discussed in comment box. No accurate data on direct visitors spending at the property is available, therefore the figures are an estimate. The system could track the log in and calculate the time spent online so that then only research time is added to the overall total.

## 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	Good
UNESCO (other sectors/field offices)	Good
UNESCO National Commission	No support
ICOMOS International	No support
IUCN International	No support
ICCROM international/regional	Good
ICOMOS national/regional	Good



IUCN national/regional	Not applicable
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**15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities**

UNESCO World Heritage Centre	Good
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	Good
National Commission for UNESCO	No support
ICOMOS International	No support
ICCROM International/regional	Good
ICOMOS national/regional	Good
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**

- **Map(s)**

Reason for update: A GIS based map will be submitted to the World Heritage Centre as soon as possible, this is an updated map in accordance with WHC request accompanied by voluntary submission of GIS data.

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

Reason for update: The State is in the process of assessing factual errors in the retrospective Statement of OUV, and will contact the World Heritage Centre as soon as the assessment is finalised. The legislative system is also undergoing major changes and improvements and these will be soon reflected in an updated Protection and Management section.

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.**