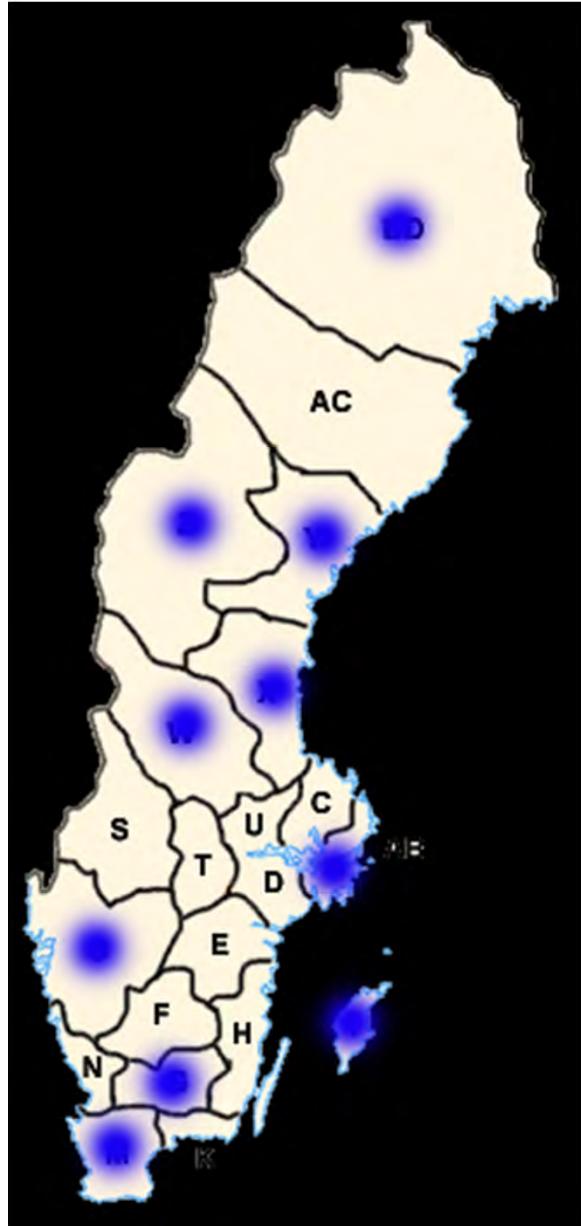


WEBBINARIUM FÖR FÖRVALTARE

ATT TA FRAM NATURVÄGLEDNING MED HJÄLP AV CHECKLISTAN FÖR VÄRLDSLEDANDE PEDAGOGIK

ANORDNAS AV SLU CENTRUM FÖR NATURVÄGLEDNING
PÅ UPPDRAG AV NATURVÅRDSVERKET

16 maj 2022



Naturvägledning bidrar till att deltagaren utvecklar sin egen relation till naturen och kulturlandskapet.
www.slu.se/cnv/naturvagledning.



Prenumerera på utskick från CNV via
www.slu.se/cnv-utskick.



PROGRAM

Att ta fram naturvägledning
med hjälp av checklistan för världsledande pedagogik

1. Introduktion
2. **Checklistan**
Eva Sandberg, CNV
3. Vad görs redan?
4. Inspiratörer:
 1. **Världarvet Höga Kusten / Kvarkens skärgård**
Malin Henriksson
 2. **Hadrian's wall**
Nigel Mills
5. Paus
6. Gruppsamtal
7. Lärdomar. Vad ta med oss?



CHECKLISTAN FÖR VÄRLDSLEDANDE PEDAGOGIK

EVA SANDBERG
SLU CENTRUM FÖR NATURVÄGLEDNING



Checklista
för världsledande
pedagogik





CHECKLISTA FÖR VÄRLDSLEDANDE PEDAGOGIK

– för förvaltare och andra som utvecklar kommunikation och naturvägledning i nationalparkerna

Formuleringen ”världsledande pedagogik” ingår i programförklaringen för varumärket Sveriges nationalparker. Det betyder att arbetet med kommunikation och besökarnas upplevelser ska prioriteras.

Meningen är inte att exakt definiera eller mäta ”världsledande pedagogik” – men att vi ska ha en hög ambition för arbetet med upplevelser och naturvägledning.

Naturupplevelser
Kvalitet
Kunskap





CHECKLISTA FÖR VÄRLDSLEDANDE NATURVÄGLEDNING I NATIONALPARKER

Utgångspunkt i varumärket – skapa samsyn

CNV, Naturvårdsverket och NP referensgrupp

TIO PUNKTER att beakta med förklaring och goda
exempel (ska fyllas på framåt) i besöksförvaltningen

Olika förutsättningar för besöksförvaltning i olika
nationalparker



CHECK 1

Ha en klar idé om vad ni vill kommunicera och varför – utgå från nationalparkens unika värden och hur besökarna kan uppleva dem.

Fördjupa kunskap, stärka upplevelser, skapa engagemang
Vad är viktigast att berätta/kommunicera? Allemansrätt/föreskrifter
lokala naturvärden och globala mål? Vad vill ni lära av besökarna?
Vad vill ni att besökarna ska få se och uppleva och var kan de göra det? Röd tråd.



CHECK 2

Välj de metoder som passar hos er
– välj metoder lämpliga för er nationalpark och era
besökare. Utgå från vad ni vill uppnå.

”message before media” naturum, naturstig, skyltar, vevlådor, poesi
eller konstprojekt



CHECK 3

Tänk på att allt kommunicerar
– det är helheten som räknas, med alla ingående delar.

Webb, entré, formgivning, sociala medier, bemötande, värdskap, placering av skyltar och deras skick, hur andra pratar om parken osv. Gå i besökarens skor.



CHECK 4

Lär känna besökarna

– kommunikation sker på besökarnas villkor och varje besökare är unik.

Målgrupper är viktigt, men försök lära känna på fler sätt än det generaliserade. Experten, facilitatorn, upplevelsesökaren o s v. Kunskap, motiv, intressen, oro, konflikter och förhoppningar.



CHECK 5

Hjälp besökarna att hitta in i naturen
– ta hjälp av alla sinnen och ge besökare möjlighet att förstå och skapa en relation till nationalparken.

Detta är naturvägledning i praktiken. Konsten att hjälpa besökarna att personligen lära känna en plats. Att lyfta fram det ni tycker är viktigt samtidigt som ni bryr er om vad som är viktigt för besökaren.



CHECK 6

Var tillgängliga både före och efter besök
– ge besökare goda möjligheter att förbereda och följa upp sitt besök.

Känna till, Vilja till. Hitta till. Hitta där. Hitta in. Minnas/Dela
Besökets faser: Beslut. Ankomst. Anknytning. Exit

CHECK 7



Ta reda på vad besökarna upplever i parken
– hitta vägar till kommunikation med besökare och ta vara på feedback

Här finns många metoder utöver enkäter och mycket att lära till exempel från naturum och museivärlden.



CHECK 8

Involvera alla som ”äger” parken
– ge möjlighet för aktörer i och kring nationalparken att vara delaktiga

Planering och samsyn, naturvägledning och förvaltning – bjud in och samarbeta med föreningar, nädboende och natur-/turismföretag för att genom upplevelser engagera besökare för naturvård och områdets värden.

CHECK 9



Hitta former för delaktighet, interaktivitet och dialog
– intressera er för besökarnas berättelser, åsikter,
tankar om parken och sitt besök.

Öppna också för samtal om konflikter och kontroversiella frågor.



CHECK 10

Sträva efter ständig utveckling
– sätt mål för arbetet och följ upp dem.

Planering för och utveckling av naturvägledning är en pågående process. Omvärlsbevaka. Följ upp.

Planera, genomför, utvärdera och utveckla!

SLUTLIGEN

- Hög ambition och allt fler besökare – kräver tillräckliga resurser
- ”Det beror på”
- Dela med er av goda exempel
- Aktörsutbildningar
- Stöd att få hos CNV – Handbok för planering
- Naturvägledningsplanering, utveckling pågår
- Två exempel

HUR JOBBAR VI REDAN MED DETTA?

Frågeformulär

Svara om varje rekommendation i checklistan:

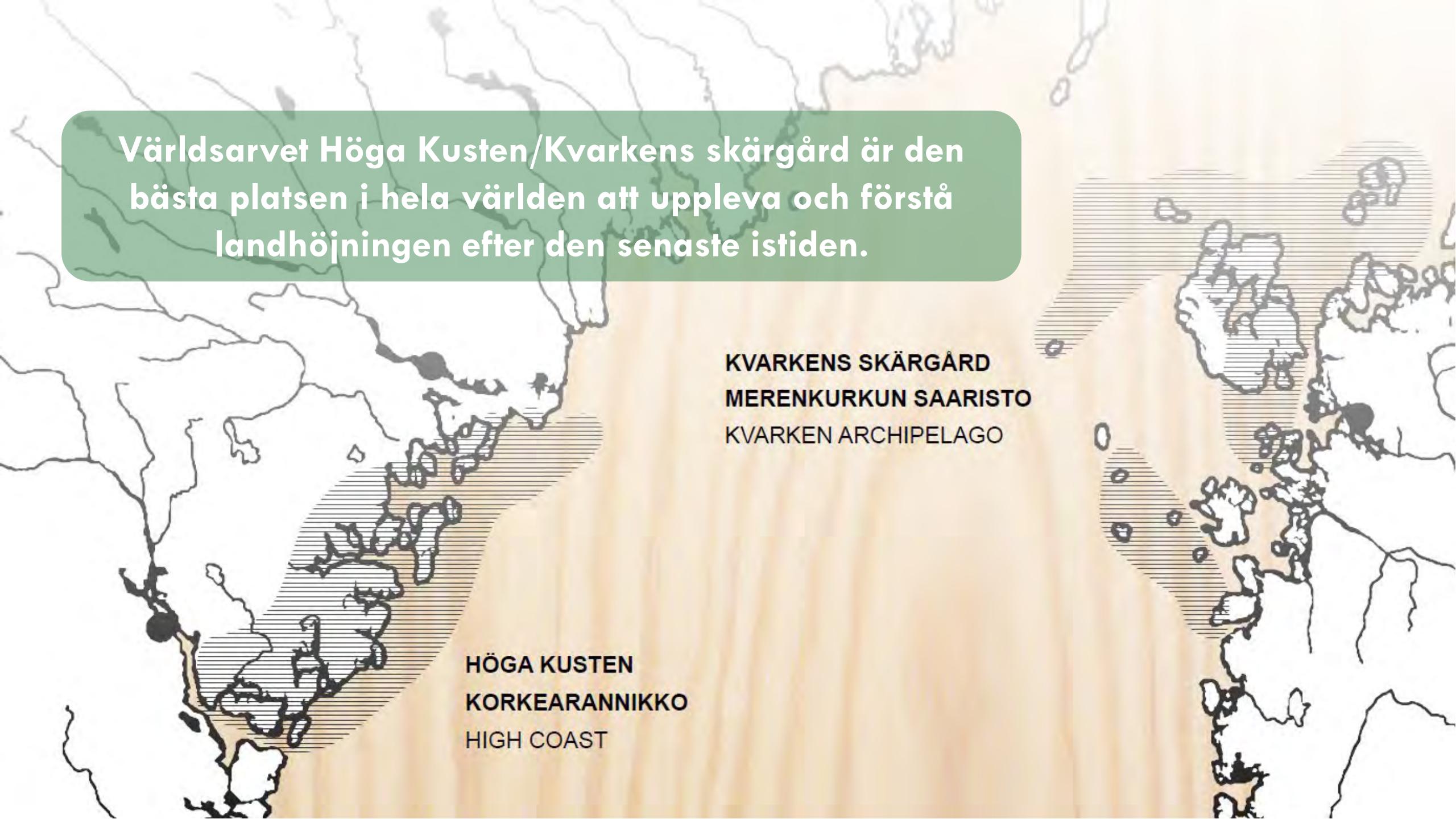
- Vi jobbar bra med detta
- Vi behöver jobba mer med detta
- Jag vet inte hur vi jobbar med detta

A photograph of two women standing on a wooden deck overlooking a body of water and a forested shoreline. The woman on the left has blonde hair tied back and is wearing a grey long-sleeved shirt, pointing towards the horizon. The woman on the right is wearing a blue hoodie and a tan baseball cap, looking up and smiling. The sky is clear and blue.

ATT KOMMUNICERA ISTID OCH LANDHÖJNING

CNV webinarium
16 maj 2022

Malin Henriksson
Forststyrelsen



Världsarvet Höga Kusten/Kvarkens skärgård är den bästa platsen i hela världen att uppleva och förstå landhöjningen efter den senaste istiden.

**KVARKENS SKÄRGÅRD
MERENKURKUN SAARISTO
KVARKEN ARCHIPELAGO**

**HÖGA KUSTEN
KORKEARANNIKKO
HIGH COAST**

VÄGLEDNINGSPLANERING - VÅRA VARFÖR OCH HUR

Varför är Höga Kusten och Kvarkens skärgård ett världsarv?

Hur berättar vi om det på bästa sätt åt olika grupper?

Var vill vi berätta det?



Interreg
Botnia-Atlantica

EUROPEISKA UNIONEN

Europeiska regionala utvecklingsfonden



VÄRLDSARVETS PLAN OCH CHECKLISTAN

- 1. Ha en klar idé om vad ni vill kommunicera**
2. Välj de metoder som passar hos er
- 3. Tänk på att allt kommuniceras**
- 4. Lär känna besökarna**
5. Hjälp besökarna att hitta in i naturen
6. Var tillgängliga både före och efter besök
7. Ta reda på vad besökarna upplever i parken
- 8. Involvera alla som "äger" parken**
9. Hitta former för delaktighet, interaktivitet och dialog
- 10. Sträva efter ständig utveckling**



MÅLGRUPPER & PLATSER

Var finns besökarna och var vill vi ha dem?

Vad vill vi kommunicera på de olika platserna?

Målgrupper:

Fysiska

förutsättningar:

-ej så rörliga

-barnfamiljer

-friluftsfolk

Intresse och

förkunskap:

-okunnigt nyfikna

-specialisterna

-scannarna

-naturentusiasterna





TACK!

<https://highcoastkvarken.org>

METSÄHALLITUS
FORSTSTYRELSEN
MEAHCIRÁÐÐEHUS

Ta fram naturvägledning med
checklistan för världsledande
pedagogik

Nigel Mills

(Nigel Mills Heritage)

NigelMills heritage



Case study from Hadrian's Wall World Heritage Site



United Nations
Educational, Scientific and
Cultural Organization



Frontiers of the
Roman Empire
Inscribed on the World
Heritage List in 2005



HADRIAN'S WALL
COUNTRY

What will be covered?

- Strategic planning for interpreting the World Heritage Site for visitors
- Visitor research – understanding both current visitors AND potential visitors (those who currently don't visit, but who might if the offer is right)
- Partnership working

Fit with the checklist:

- **Communicating the unique values of special places** in ways that appeal to and interest visitors
- **Understanding visitors and potential visitors**, so communication is effective
- Using interpretation to **enable visitors to connect with the unique values and to understand and help with protecting and maintaining those special values**
- Thinking about the visitor experience in a **holistic way, pre-, during and post- visit and in all its forms** (interpretation runs through the whole visitor journey - pre and post visit)
- Working together, in partnership, **to jointly deliver common goals**

- 
- Hadrian's Wall and Hadrian's Wall Country – large, extensive areas
 - Lots of different locations and things to do and see
 - Many different access points
 - Lots of both cultural and natural heritage

Five big challenges

- **Repetition** - different locations can all end up doing and saying the same things for the same audiences.
- **Inspiring and motivating visitors** – NOT just giving them information
- **Partnership working** - different interests, different organisations, working differently to different timescales, with different priorities
- **Redundancy** - plans and strategies can rapidly become redundant. Need a more flexible approach which can adapt and change over time whilst retaining an overall sense of direction and purpose.
- **Dealing with cultural and natural heritage** - often sit uncomfortably together.

A photograph of Hadrian's Wall at sunset. The sky is filled with vibrant orange, yellow, and purple clouds. In the foreground, the dark, rectangular stones of the wall are visible, leading towards a green field and a line of trees. In the background, a range of hills or mountains is silhouetted against the bright horizon.

Introducing Hadrian's Wall

Hadrian's Wall WHS

- 150 miles long - 80 miles of the Wall itself plus 70 miles of Roman coastal defences down the Cumbrian Coast.
 - Hadrian's Wall Country - 10 miles north and south of the Wall and 10 miles in from the coast – so around 2,000 square miles.

Plan your visit to Hadrian's Wall Country

Your map to the Wall, and so much more!



With information on all the major Roman sites, facts and measures to be found along the Wall, this handy map makes planning your visit to the World Heritage Site a simple and stress-free task.

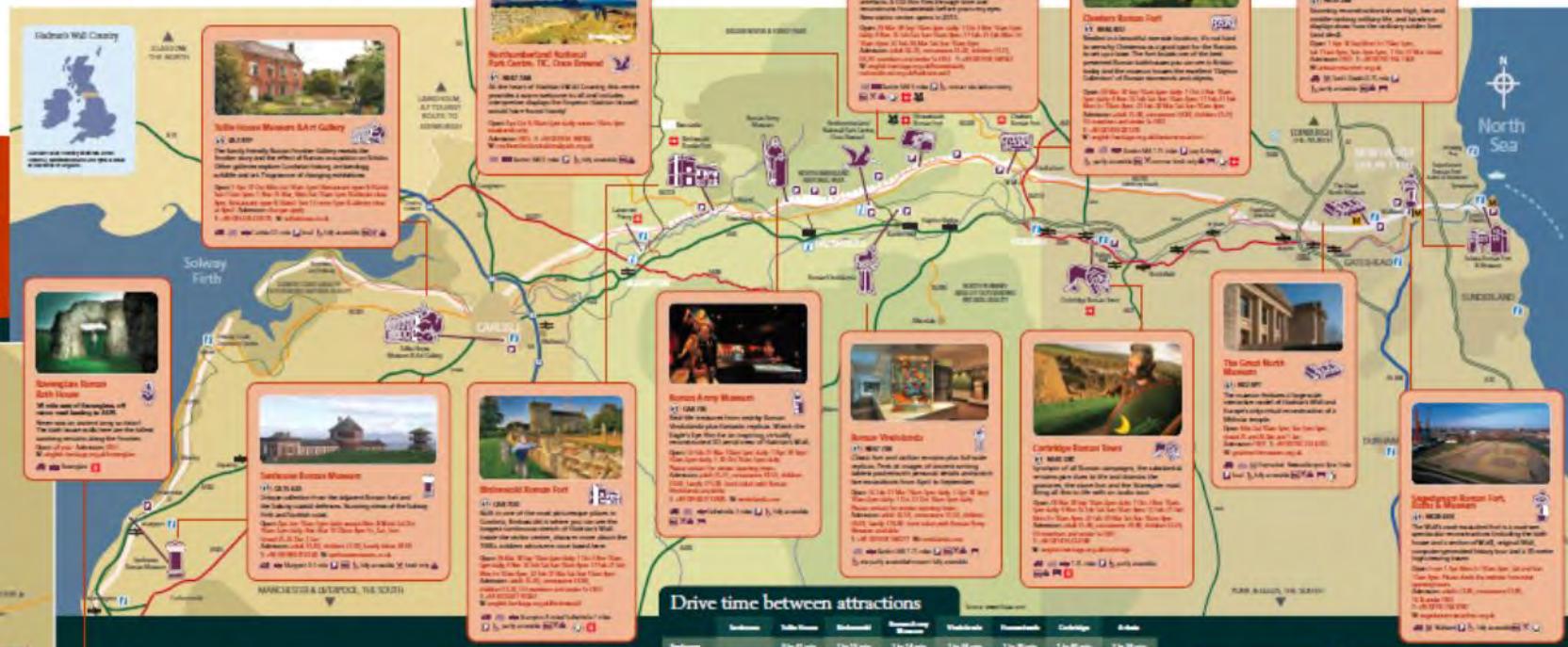
Whether you're visiting one site

touring the length of the Wall or exploring the surrounding area, this is the perfect guide for your holiday, especially when used together with the 2013 Hadrian's Wall Holiday Guide.



Key to map

Symptom	Placebo (%)	Dexamethasone 0.05% (%)	Dexamethasone 0.1% (%)	Dexamethasone 0.3% (%)
Age-related macular degeneration	10	10	10	10
Blurred vision	10	10	10	10
Dry eye	10	10	10	10
Eye strain	10	10	10	10
Eye irritation	10	10	10	10
Itchy eyes	10	10	10	10
Light sensitivity	10	10	10	10
Redness	10	10	10	10
Tired eyes	10	10	10	10



visithadrianswall.co.uk

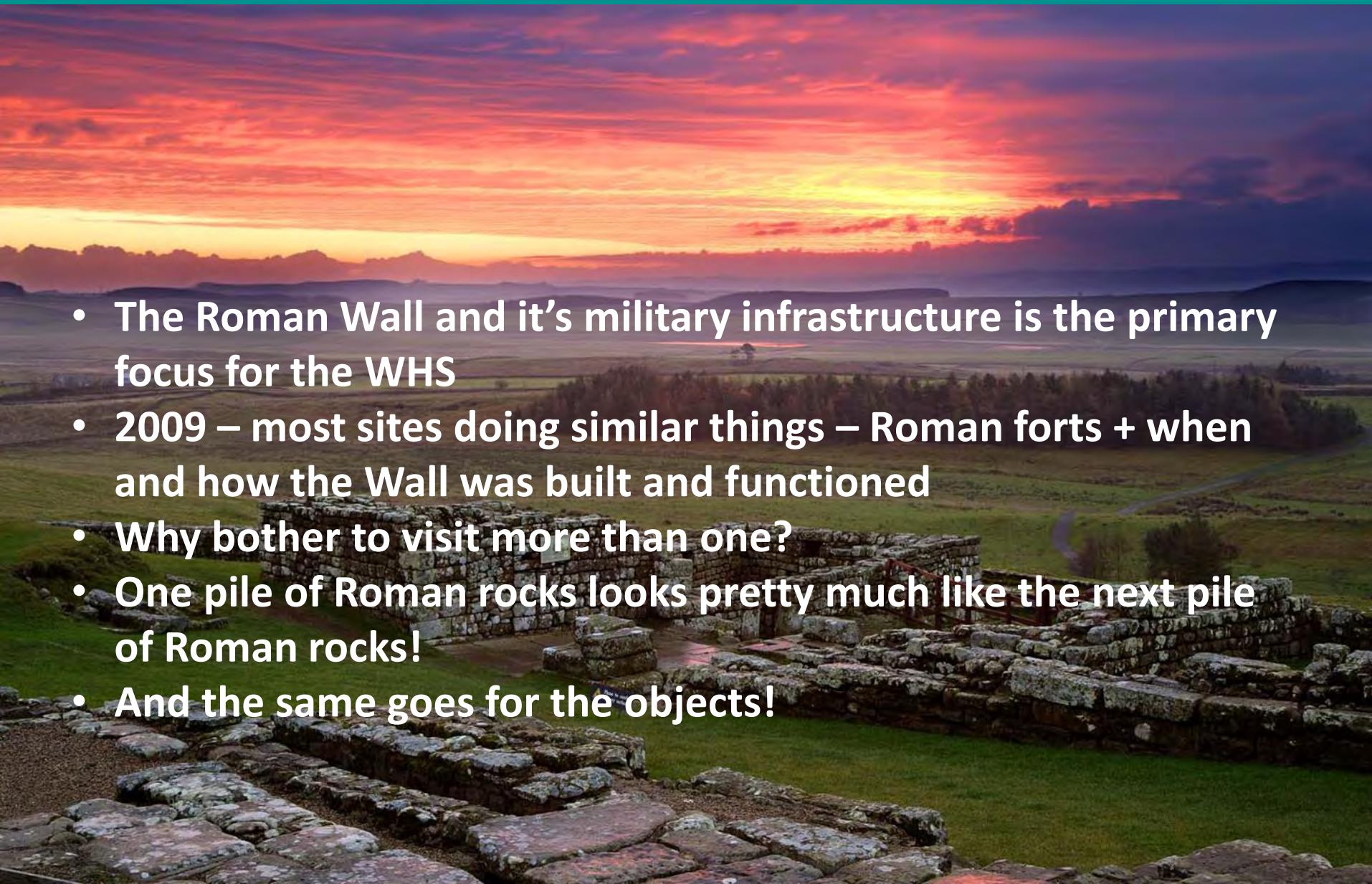
Local Tourist Information Centres

Emergency services		Emergency services
Maryport	T+M 01900 811 850	Penrith 01768 620 000
Carlisle	T+M 01228 625 600	Whitehaven 01946 200 000
Hawthorn	T+M 01434 613 220	Workington 01697 720 000
Newcastle	T+M 0191 277 8000	

A complicated partnership landscape

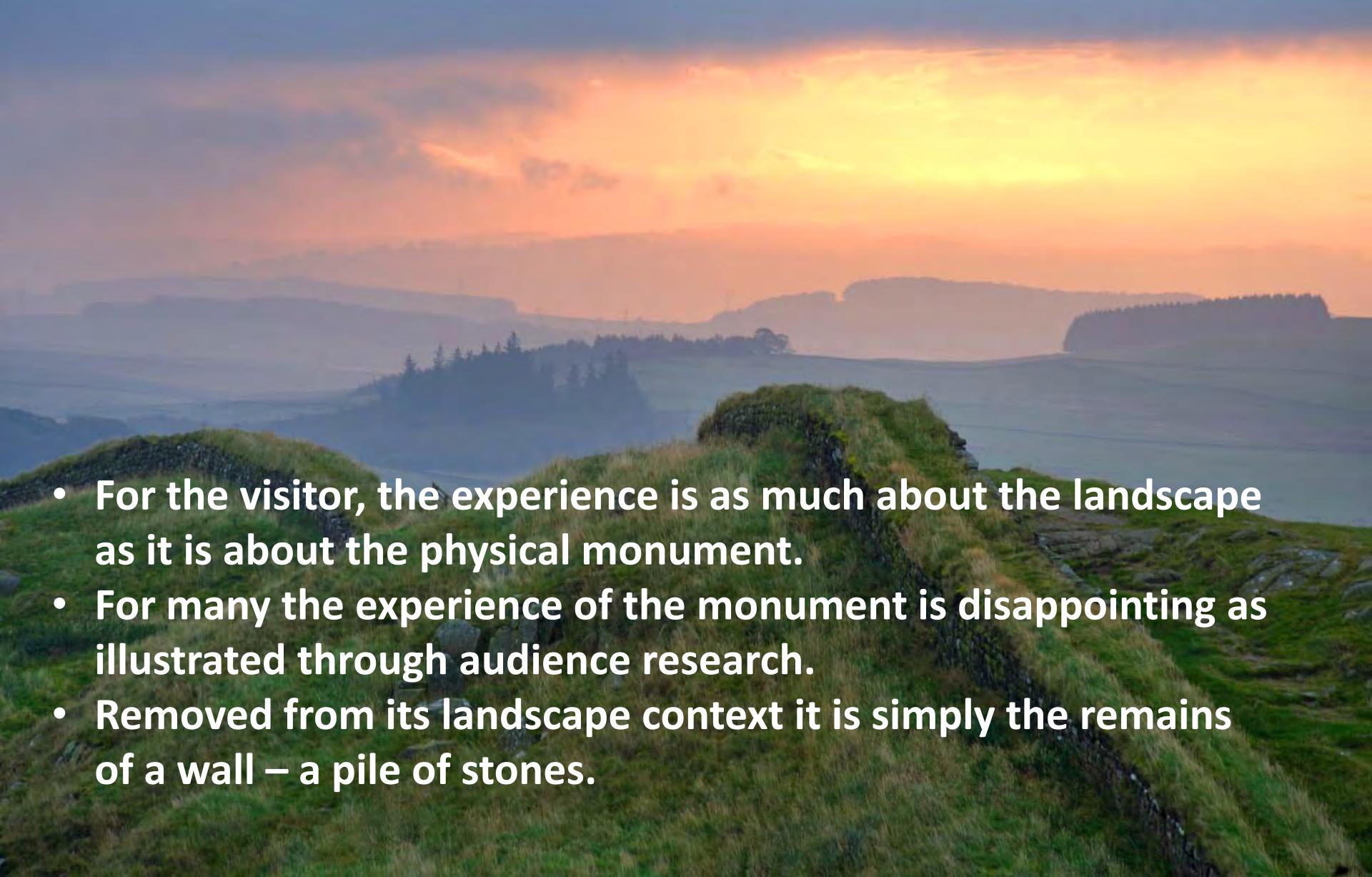
- **12 Roman sites and museums operated by five organisations**
- **1 other WHS (The Lake District)**
- **2 National Parks**
- **2 Areas of Outstanding Natural Beauty**
- **10 Local authorities**
- **3 Tourism Destination Management organisations**
- **Hundreds of landowners**
- **Over 1 million people living in Hadrian's Wall Country**
- **Many local communities**
- **Many different access points**
- **Two main N/S corridors to the E and to the W**
- **Lots of subsidiary access points**

Interpreting the WHS



- The Roman Wall and its military infrastructure is the primary focus for the WHS
- 2009 – most sites doing similar things – Roman forts + when and how the Wall was built and functioned
- Why bother to visit more than one?
- One pile of Roman rocks looks pretty much like the next pile of Roman rocks!
- And the same goes for the objects!

And what about the other stuff?

- 
- A scenic landscape photograph showing rolling hills and mountains under a vibrant sunset or sunrise sky. The colors range from deep blues and purples to bright yellows and oranges. In the foreground, there's a grassy hillside with some rocks. The middle ground shows more hills and a line of trees. The background features distant mountains. The overall atmosphere is peaceful and scenic.
- For the visitor, the experience is as much about the landscape as it is about the physical monument.
 - For many the experience of the monument is disappointing as illustrated through audience research.
 - Removed from its landscape context it is simply the remains of a wall – a pile of stones.

Landscape frames the Wall

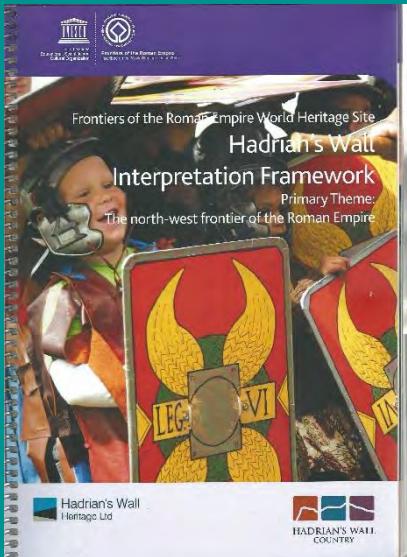
- The drama and beauty of the landscape setting and the feeling created of being on the edge of the civilised world, brings the monument to life as Rome's northern frontier.
- Especially around Housesteads where the visitor looks northwards across an apparently wild moorland vista.
- The landscape serves as a giant and eloquent interpretation panel, requiring no words to impress upon the visitor a core meaning of the monument.

Landscape in WHS Management Plan

- Contribution of wider cultural and natural landscape is recognised in the brand for Hadrian's Wall WHS – ‘Hadrian’s Wall Country’
- But the Management Plan makes little reference to other cultural or natural heritage other than as ‘setting’
- Whilst recognising the existence of the other, the two are set up in opposition so resolution of competing values at any location becomes a form of conflict management



Interpretation Framework



- A **deliberately contextual approach** - for the visitor, the monument and the landscape cannot be separated
- Presentation of the monument needs to **transcend the physical remains to include their cultural and natural context**
- Primary interpretation theme: **the 'north-west frontier of the Roman Empire'**, reflects the core values of the World Heritage Site
- Secondary theme: **the wider cultural and natural landscape** of the WHS



Interpretation Framework

- **An advocacy document** that proposes a thematic approach to interpretation using principles of good interpretation practice.
- **Visitor rather than monument or object focused**, seeing Hadrian's Wall as an object that illustrates the narrative of the Roman Frontier rather simply as a physical monument, and placing the monument in its cultural and landscape context.
- **Focus here on primary theme – ‘the North West Frontier of the Roman Empire’**

Interpretation Framework

- Based on **extensive audience research** - existing and potential visitors, focus groups, site visits, 300 telephone interviews.
- Essentially a **menu of themes and ideas** through which to explore the narrative of the Roman frontier and its cultural and natural context.
- A structure through which interpretation can move beyond the simple presentation of 'things' towards **ideas and themes that visitors can connect with**.
- Select **ideas and themes appropriate to a particular site**, its physical assets, its context, potential audiences and potential for differentiation
- Flexible - giving overall direction and purpose, but **adaptable to changing circumstances and opportunities**.

Audience Research – key findings

- Contrary to expectations, **Hadrian's Wall is NOT well-known and is not perceived as an easy place to visit** '*remote', 'desolate', 'moorland', 'cold and bleak', 'stones and ruins', 'wild open spaces' 'what is there to do?' 'where is it?' 'Is there just a wall?' 'how do I get there?' 'are there any toilets?'*
- **Widening the interpretive offer to encompass the wider narrative of the Roman Frontier (not just the Wall, forts and soldiers)** provides a clear opportunity to broaden the visitor offer and address issues of perception, appeal and attracting new audiences. Multiple narratives.
- **People's prior knowledge is often shaped by early years education.** An important limiting impact on visitor understanding, perception and likelihood of visiting. Not surprising, but needs to be understood.
- **Participants responded positively to the people focused stories and themes proposed in the Interpretation Framework**

From this:



To this:



Provocation:



**“The chief aim of interpretation is not instruction,
but provocation.”**

We are still building frontiers today.....

Prompt visitors to think!

Interpretation concept and themes

“Hadrian’s Wall is at the centre of **the dynamic story of the north-west frontier of the Roman Empire.**

This frontier evolved from the first to the fifth centuries AD in response to **changing political, social, economic and demographic forces** within the Roman Empire, **and the changing role and status of Britain as an Imperial Province**

The heavily militarised frontier zone has left a rich legacy through which we can explore its story **and understand its resonance with the modern world.**”

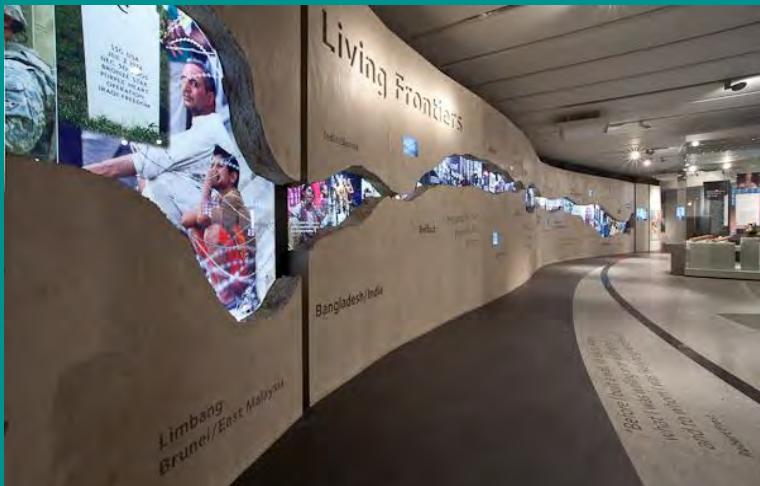
- **People of the Empire**
- **Frontier Lives**
- **Edge of Empire**
- **Britain – a Roman Province**
- **The Roman Army**
- **Before and After**
- **Power and Control**
- **The Frontier and its Environment**

Application of the framework



'I was expecting all these Roman sites and museums to be doing exactly the same thing. I was wondering how I was going to fire the imaginations of my readers to visit different places. But they are all different and it's really interesting to visit each of them and get a different perspective.' (2017)

Application of the Framework



- “I have visited Hadrian’s Wall many times. **This is the first time I have seriously considered the social and personal consequences of the Wall”**
- “**The only museum I have been to that really links the past with the present.** Amazing, moving and relevant. The whole Roman area is fantastic but the ‘wall’ images are so moving and so relevant.

Thank you!

Interpreting the landscape



- A core project recommended under the secondary theme was a place to celebrate the wider cultural and natural landscape of the area
- This has been realised through the National Park's Landscape Interpretation Centre at 'The Sill'

Pre- and post-visit

The screenshot shows a web browser window with three tabs open:

- New Tab
- Visit Hadrian's Wall | Official visit
- taking a screenshot on pc - Google

The main content area displays the website for hadrianswallcountry.co.uk. The header includes navigation links for Visit, History, World Heritage, Learning, Get Involved, and social media links for Facebook and Twitter. Logos for UNESCO and the United Nations Educational, Scientific and Cultural Organization are present, along with the "Frontiers of the Roman Empire" logo.

The "Hadrian's WALL COUNTRY" logo features three stylized squares in orange, blue, and purple representing the wall, hills, and water.

The page features a large banner image of a sunset over the Hadrian's Wall in a green, hilly landscape.

A dropdown menu for "WALKING" is open, listing:

- Walking routes
- Hadrian's Wall Path National Trail
- Code of Respect
- Walking Businesses

At the bottom of the page, the text "WELCOME TO HADRIAN'S WALL" is displayed, along with a link to the walking routes page (<https://hadrianswallcountry.co.uk/walking>).

The browser's address bar shows the URL <https://hadrianswallcountry.co.uk/walking>.

The taskbar at the bottom of the screen shows several open files and windows, including "HWPNT 13.jpg", "HWPNT 12.jpg", "HWPNT 11.png", "HWPNT 12.html", "HWPNT 11.html" (Cancelled), and a search bar with the placeholder "Type here to search". The system tray shows the date and time as "2:51 PM 08-Apr-21".

Legacies – roll out across Roman frontiers



- Two important legacies additional to on-the-ground application.
- First: Interpretation Framework approach rolled out to the Upper German/Austrian frontier and the Dutch Limes.

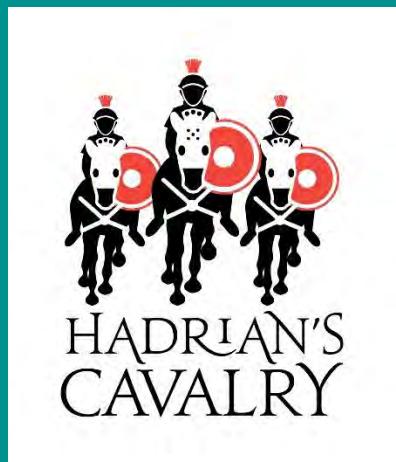
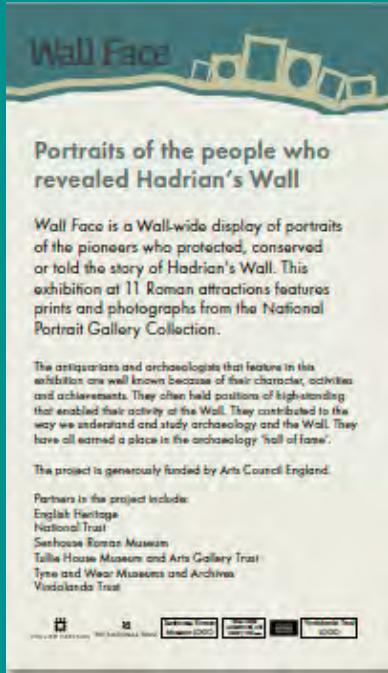


Legacies – Heimat museums in Bavaria



* Lots of objects *no interpretation *each museum very similar *a few, older, volunteers * lack of interpretation & presentation skills * few visitors * no funds

Legacies – partnership working



- **Second: the development of partnership approaches to delivering interpretation across the WHS through the concept of a dispersed exhibition**
- **Simultaneously across all the sites and museums across the whole WHS**
- **Communicating the full scale of the WHS and the diversity of the offer**
- **Encouraging multi-site visiting**
- **Wall Face and Hadrian's Cavalry**

Hadrian's Cavalry – partnership in action



- **6 partner organisations**
- **National and international loans including BM, NMS, Germany, France, Private collections**
- **Events programme including Turma!**
- **Arts and learning programme**
- **April – September 2017**



Partnership in action – management plan

Online only, focused, flexible.

The screenshot shows a web browser window with the title "Hadrian's Wall Management Plan" and the URL "hadrianswallcountry.co.uk/hadrians-wall-management-plan". The page content is titled "HADRIAN'S WALL MANAGEMENT PLAN". On the left, there is a large, faint watermark-style illustration of a Roman soldier holding a spear. The main text on the page discusses World Heritage Sites and the Roman Empire. It includes a "Management Plan Contents" section with links to various parts of the plan, such as Attributes, Hadrian's Wall Significance (SOUV), Vision, Policies and Actions, Description, Values, Interested Parties, Glossary and Abbreviations, and Supporting Information inc' maps. Below this, there is information about the World Heritage List and the Frontiers of the Roman Empire. A note at the bottom states that the three mentioned sites formed a small proportion of the Empire's frontiers at its greatest extent in the second century AD. The browser taskbar at the bottom shows other open tabs and the system tray.

Hadrian's Wall Management Plan

hadrianswallcountry.co.uk/hadrians-wall-management-plan

HADRIAN'S WALL MANAGEMENT PLAN

Introduction

WORLD HERITAGE AND THE FRONTIERS OF THE ROMAN EMPIRE

Management Plan Contents.

- [Attributes](#)
- [Hadrian's Wall Significance \(SOUV\)](#)
- [Vision, Policies and Actions](#)
- [Description](#)
- [Values](#)
- [Interested Parties](#)
- [Glossary and Abbreviations](#)
- [Supporting Information inc' maps](#)

World Heritage Sites are very special places that are described as having 'outstanding universal value'; they are irreplaceable sources of inspiration and they belong to all of the peoples of the world.

The Sites are 'inscribed' on the [World Heritage List](#) by UNESCO (the United Nations Educational, Scientific and Cultural Organisation). There are now 1121 World Heritage Sites, worldwide; 32 of them are in the UK and its territories.

Hadrian's Wall is a part of the frontier of a great empire that encompassed much of Europe, the Middle East, and North Africa. It is a symbol of a common heritage. The Wall was inscribed as a World Heritage Site (WHS) in 1987. It is now a component part of a much larger and more ambitious Site: the [Frontiers of the Roman Empire \(FRE\)](#). This is a 'transnational' Site: the result of the German Limes being added in 2005, and the Antonine Wall (between the Forth and the Clyde, in Scotland) in 2008.

However, these three only formed a small proportion of the frontiers of the Empire at its greatest extent, in the second century AD. The intention is that other

The_Late_Roman_li....pdf

Show all

Type here to search

11:07 AM
28-Apr-22

Partnership in action – management plan

Partnership Board

- Local authorities (8)
- Regional tourism agency
- Regional university
- Trail partnership
- National heritage conservation body
- National nature conservation body
- National Park authority
- Heritage attraction/museum managers (5)
- Independent Chair

Delivery groups

- Conservation, planning and heritage management
- Archaeological research
- Marketing and transport
- Learning and interpretation
- (Community engagement an underlying principle, across all areas of activity)

Partnership in action – management plan

Simple, clear aims, achievable objectives, rapidly updateable

The screenshot shows a web browser displaying the "Vision, Policies and Actions" section of the Hadrian's Wall Management Plan website. The URL in the address bar is hadrianswallcountry.co.uk/hadrians-wall-management-plan/policies-and-actions. The page features a header with the United Nations Educational, Scientific and Cultural Organization (UNESCO) logo, the Hadrian's Wall Country logo, and navigation links for Visit, History, World Heritage, Learning, Get Involved, and a "join us on" social media section. A search bar at the top includes fields for "SEARCH FOR INSPIRATION", "Categories", "Locations", and a yellow "Search" button. Below the header, a breadcrumb trail shows "Hadrian's Wall Management Plan / Vision, Policies and Actions". The main content area has a title "VISION, POLICIES AND ACTIONS". A paragraph explains the policies adopted for the 2015-19 period, mentioning the long-term vision for the World Heritage Site and the assignment of actions to specific years. It also notes the reference to the Frontiers of the Roman Empire World Heritage Site (FRE) and the Outstanding Universal Value (OUV). A section titled "MANAGEMENT OF THE WORLD HERITAGE SITE" contains an objective about informed management and communicating universal values, with a "View policies and actions" button. At the bottom, there is a section titled "THE BOUNDARIES OF THE WORLD HERITAGE SITE AND ITS BUFFER ZONE". The taskbar at the bottom of the screen shows other open windows and the date and time as 11:22 AM on 28-Apr-22.

Thanks!

Nigel Mills

(Nigel Mills Heritage)

NigelMills heritage



FLER WEBBINARIER FÖR FÖRVALTARE I ÅR

www.slu.se/np-webbinarier

- Att ta fram en naturvägledningsplan för ett skyddat naturområde
- Att jobba med aktörssamverkan i en nationalpark



Foto: Tomas Årlemo

Tack för att ni deltog!

Inspelning av webbinariet publiceras på
www.slu.se/dokumentation-np-webbinarier.

Frågor? Per.sonnvik@slu.se

slu.se/cnv