Plan Overview

A Data Management Plan created using DMPonline

Title: Project Nivica Archaeology

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Template: University of Bristol Postgraduate Template

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Project abstract:

Project Nivica Archaeology, a key component of the broader 100+ Fshatrat initiative in Albania, focuses on archaeological exploration and community development in the Kurvelesh region, specifically around the village of Nivica. This project integrates cutting-edge three-dimensional recording and reconstruction techniques from the planning stage through the entire lifecycle of archaeological investigations.

The project's primary aim is to uncover and understand the influence of coastal Illyrian and Epirote cultures on the material culture of the inland mountain regions, challenging contemporary notions of isolation and connectivity. It seeks to unravel how Nivica's inhabitants have historically shaped their identity in response to various external powers, including the Epirote Republic, the Roman Empire, and the Ottoman Empire. Beyond its archaeological focus, Project Nivica Archaeology aligns with the United Nations Sustainable Development Goals, promoting heritage practice and community engagement.

Another aspect of the project is to study is the built landscapes of the upper Kurvelesh region, with a focus on the villages of Nivica and Rexhin with an aim to produce three-dimensional reconstructions centred on a domestic structure damaged in the First Balkan War in the old village of Nivica or 'Kala' site

Operating since spring 2018, the project is supported by a collaboration of international and local institutions and community leaders. Despite challenges posed by global events, the project continues to contribute significantly to the cultural and historical understanding of the Upper Kurvelesh region, while also fostering community development and sustainable heritage management in like with the United Nations Sustainable Development Goals.

ID: 137960

Start date: 19-06-2016

End date: 20-11-2023

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Project Nivica Archaeology

Project Summary

Provide a brief description of the project and the research being carried out. State if research is part of a larger project, department(s) and funders involved and where data fits in.

Project Nivica Archaeology, a key component of the broader 100+ Fshatrat initiative in Albania, focuses on archaeological exploration and community development in the Kurvelesh region, specifically around the village of Nivica. This project integrates cutting-edge three-dimensional recording and reconstruction techniques from the planning stage through the entire lifecycle of archaeological investigations.

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Data Types

What types of data will be involved?

The data collected and produced will be the following:

- · Geospatial survey data:
 - Total Station and/or GNSS GPS data.
 - UAV data.
 - Find and excavation data.
 - Geophysical survey data.
 - Created geospatial data from plans.
- Vector Drawings:
 - Plans and sections of buildings and trenches where applicable.
 - Harris Matrix for excavations where applicable.
 - Extended Harris Matrix for reconstructions.
 - Drawings of artefacts.
- Raster Images:
 - Photographs from UAV surveys.
 - Photographs from terrestrial surveys and excavations.
 - Photographs of artefacts.
 - Rendered images of reconstructions.
- Documents:
 - Reports from invasive and non-invasive archaeological work.
 - Reports from lighting analysis.
 - Reports form photogrammetry surveys.
 - Reports from structural analysis.
 - Reports from terrestrial and aerial surveys.
 - Reports of reconstruction paradata.
- Tabular data:
 - Database of building and landscape survey data.
 - Database of excavation and find data
 - Results from structural analysis.
 - Results from lighting analysis.
 - Calibration data for Photogrammetry.
 - Metadata for files.
 - File tree data for project folder.
- Three-Dimensional Reconstructions and Records
 - Three-dimensional model files.
 - Texture files for three-dimensional models.

What file formats will be used?

Data will be stored, recorded, and organised according to the best practices outlined by the Archaeology Data Service (ADS) for the storage and archiving of digital data, including raster and vector data, geophysical data, geospatial data, three-dimensional data, and alpha-numeric documentary data.

Data Type	Archival File Types
Alpha-numerical data	Plain Text (.txt) Delineated Text (.csv)
Documentary data that may consist of just text, or text and pictures.	Plain Text (.txt) Portable Document Format (.pdf/A)
Raster imagery data	Tag Image File Format (.tiff) Portable Network Graphics(.png) Adobe Digital Negative(.dng)
Vector imagery data	Scalable Vector Graphics (.svg) Portable Document Format (.pdf/A) Drawing Exchange Format (.dxf) Graph Modelling Language (.xgml)
Geodatabase	Shapefiles (.shp) [this is accompanied by up to eleven reference files that are equally archival] Delineated Text (.csv) GeoTIFF (.tiff)
Three-Dimensional models (Records or Reconstructions)	Wavefront (.obj) Stereolithography (.stl)
Code	R Code (.R)
Compressed Files	.zip
Metadata & Paradata	Delineated Text (.csv) Plain Text (.txt) Portable Document Format (.pdf/A)

What will be the size of the files?

Data Type	Estimated File Size (Uncompressed)
Alpha-numerical data	< 01 GB
Documentary data that may consist of just text, or text and pictures.	< 01 GB
Raster imagery data	< 40 GB
Vector imagery data	< 05 GB
Geodatabase	< 05 GB
Three-Dimensional models (Records or Reconstructions)	< 40 GB
Metadata & Paradata	< 01 GB
Total (Uncompressed)	< 90 GB
Total (Compressed)	~ 54 GB

Data Storage and Preservation

How will the data be stored and kept safe?

Data prior to processing will be stored on University of Bristol SharePoint servers with two off-site backup of all data.

Once archived all data will be stored in The University of Bristol Research Data Storage Facility (RDSF), which provides secure, long-term storage for research data. This major investment provides nightly backup of all data, with further resilience provided by three geographically distinct storage locations. A tape library is used for backup purposes and also for long-term, offline data storage. Only authorised users can access data stored within the RDSF. The RDSF is managed by Bristol's Advanced Computing Research Centre (ACRC) which has a dedicated steering group and a rigorous data storage policy (https://www.acrc.bris.ac.uk/acrc/RDSF_policy.pdf). The RDSF upholds and reinforces Bristol's wider Information Security Policy(www.bris.ac.uk/infosec/policies/docs/isp-01.pdf).

Data Organisation

How will data be organised?

Primary Folder - Level One	Level Two	Level Three	Level Four	Level Five	Level Six
3D_MODELLING					
	PROJECT FOLDER				
		EXPORTED MODELS			
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		CAMERAS	
		LIGHTS	
	REF_DIGI		
		REF_CAD	
		REF_DIGI	
		REF_HUMAN	
		REF_GEOREF	
	LANDSCAPE		
		PHASE01	
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				ARCHITECTURE_DOORS_DOOF
				ARCHITECTURE_FASCIAS_FASC
				ARCHITECTURE_FLOORS_FLOO
				ARCHITECTURE_FURNITURE_F
				ARCHITECTURE_GUTTERS_GU
				ARCHITECTURE_LANDING_STA
				ARCHITECTURE_RAILINGS_RAI
				ARCHITECTURE_RAILINGS_STA
				ARCHITECTURE_RAILINGS_RAI
				ARCHITECTURE_RAMPS_RAMP
				ARCHITECTURE_ROADS_ROAD
				ARCHITECTURE_ROOF SOFFITS
				ARCHITECTURE_ROOFS_ROOF
				ARCHITECTURE_ROOMS_ROOM
				ARCHITECTURE_STAIRS_STAIR
				ARCHITECTURE_STAIRS_STAIR
				ARCHITECTURE_SUPPORT_STA
				ARCHITECTURE_SUPPORTS_R/
				ARCHITECTURE_TERMINATION
				ARCHITECTURE_WALL SWEEPS
				ARCHITECTURE_WALLS_WALL!
				ARCHITECTURE_WINDOWS_WI
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	MATERIAL LIBRARIES			OTHER_PIPES_PIPES OTHER_PIPES_PIPECURVES
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	RENDER OUTPUT RENDER PRESETS		ANIMATIONS	OTHER_PIPES_PIPES OTHER_PIPES_PIPECURVES

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	STRUCTURAL ANALYSIS				
	STUDY FOLDER				
		EXPORT			
		IMPORT			
		PARTS			
		ASSEMBLIES			
		REPORTS			
		REPORTS			
	LIGHTING STUDY				
	FOLDER				
		MODELS			
		RESULTS	DATA		
			FIGURES		
3D_RECORDING					
	POINT-CLOUDS				
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	MODELS				
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			IMAGE FILES	
		DOCUMENTS_GEOPHYSICS		
			PROJECT NOTES	
			PROJECT REPORT	
		METADATA_GEOPHYSICS		
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			GEODATA_GEOPHYSICS	
			METADATA_PROJECT	
			METADATA_FILEDESCRIPTION	
DATA_SURVEY				
	SURVEY_PROCESSED			
	SURVEY_RAW			
DOCUMENTS_FIELDWORK				
	MASONRY			

	EXCAVATION		
	BUILDING		
DOCUMENTS_REPORTS			
	REPORTS_SEASONAL		
	REPORTS_BUILDING		
	REPORTS_ANALYSIS		
	REPORTS_3D		
	REPORTS_CATALOGUES		
VECTOR_CAD			
VECTOR_TECHNICAL			
VECTOR_ILLUSTRATIONS			
RASTER_ARTEFACTS			
RASTER_SITEPHOTOS			
RASTER_UAV			
RASTER_PHOTOGRAMMETRY			
RASTER_RECTIFIED			

Data Documentation and Description

What documentation will you keep?

Data will be stored, recorded, and organised according to the best practices outlined by the Archaeology Data Service (ADS) for the storage and archiving of digital data, including raster and vector data, geophysical data, geospatial data, three-dimensional data, and alpha-numeric documentary data.

Project Level Metadata

Human Name	Metadata Name	General Description
Project Title	PROJECT_TITLE	The title (and any alternatives such as site codes) for the dataset.
Description	PROJECT_DESCRIPTION	A brief summary of the main aims and objectives of the research project from which the data collection arose together with a brief summary description of the content of the dataset.
Subject	PROJECT_SUBJECT	Keywords for the subject content of the dataset (qualified using controlled terms such as those supplied by the Forum on Information Standards in Heritage (FISH))

Coverage	PROJECT_COVERAGE	This is both spatial and temporal coverage. For spatial coverage it should include the current and contemporary name(s) of the country, region, county, town or village covered by the data collection and, where possible, a standardised reference should be used. If names or administrative units were different during the time period covered by the data they should be recorded separately. Site coordinates can also be entered as a National grid reference in a number of different ways e.g., as a point (useful to describe a small project area via a central coordinates; as a line (e.g., at least two coordinates to represent the linear limits of the site); as a polygon (for a more complex site area, three or more coordinates are used to describe the boundaries). If applicable, the full postal code for the site can be included. For
		polygon (for a more complex site area, three or more coordinates are used to describe the boundaries). If applicable, the full postal code for the site can be
Projection System	PROJECT_PCS	Projected Coordinate System used.
Coordinate System	PROJECT_GCS	Geographic Coordinate System used.

Creators	PROJECT_ CREATORS	Details of the creator(s), compiler(s), funding agencies, or other bodies or people intellectually responsible for the data collection. Information should include forename, surname, affiliation, address, phone, fax, email, or URL.
Publisher	PROJECT_PUBLISHER	Details about any organisation which has published this data.
Contributors	PROJECT_CONTRIBUTORS	Other individuals or organisations who have contributed to the resource.
Identifiers	PROJECT_PROJECTID	Project or reference numbers or site codes used to identify the dataset.
Dates	PROJECT_DATES	Dates indicating when the dataset was created, when the archaeological project was carried out, processing dates, or computerisation dates as
Copyright	PROJECT_COPYRIGHT	appropriate. The name of the copyright holder for the dataset. If the collection was created during work by an employee, the copyright holder will normally be the employer. If the material is covered by a specific copyright (e.g., Crown copyright) please indicate this.

Relations	PROJECT_RELATIONS	If the data collection was derived in whole or in part from published or unpublished sources, whether printed or machine-readable, this element should include references to the original material, details of where the sources are held and how they are identified there (e.g., by accession number). If the collection is derived from other sources include an indication of whether the data represents a complete or partial transcription/copy and the methodology used for its digitisation. Also include full references to any publications about or based upon the data collection.
Language	PROJECT_LANGUAGE	Indication of which language(s) the dataset is in (e.g., English, French, Spanish).
Resource Type	PROJECT_TYPE	Whether the dataset is best described as primary data, processed data, an interpretation of data, or a final report.
Format	PROJECT_FORMAT	The formats the data within the project is saved in (e.g., WordPerfect 5.1, HTML, AutoCAD).

General File Level Metadata.

Human Name	Metadata Name	General Description
File Name	FILE_NAME	The name of the file e.g., report.doc
File Format	FILE_FORMAT	The file format e.g., PDF/A or Open Office Document
File Location	FILE_LOCATION	The file path i.e. directory and filename e.g., /adsdata/cottam_ba/jpg/fwking_plan.jpg
Software Name	FILE_SOFTWARE	The software used to create the file e.g., Microsoft Word 2007
Hardware used	FILE_HARDWARE	The hardware used to create the file, this is more significant when files are created directly by survey equipment such as laser scanners or GPS devices.
Operating System Used	FILE_OPSYS	The operating system under which the file was made e.g., Windows XP or Mac OS X 10.5.
Date of Creation	FILE_CREATED	When the file was made.
Date of Last Update	FILE_UPDATED	When the file was updated.
Linked Files	FILE_LINKED	This element should be used to highlight relationships between files.
Identifiers	FILE_IDENTIFIER	This element should be used to highlight whether a file is a source file or derived from another.
Creator	FILE_CREATORS	The file path i.e. directory and filename e.g., /adsdata/cottam_ba/jpg/fwking_plan.jpg.
Copyright	FILE_COPYRIGHT	Details of copyright or other rights and holder details.

Raster & Vector File Metadata.

Human	Motodot- News	General
Name	Metadata Name	Description
Title	FILE_TITLE	The title of the image or a suitable caption.
Description	FILE_DESCRIPTION	Description of the image.
Coverage	FILE_COVERAGE	Site location and description. The address, or coordinates for the subject and a description of the subject. Coverage should also include any relevant period terms.
Projection System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Keywords	FILE_KEYWORDS	Keywords e.g., period, site or feature terms. Use suitable thesauri where they exist.
File Format and Version	FILE_VERSION	e.g., TIFF 6.0.
File Size	FILE_SIZE	Size of the file in bytes.
Resolution	FILE_RESOLUTION	The resolution of the image measured in pixels per inch (ppi).
Dimensions	FILE_DIMENSIONS	Dimensions of the image in pixels e.g., 400 x 700px.
Colour Space	FILE_COLOUR	The colour space used in the image e.g., RGB or grayscale.
Bit Depth	FILE_BITDEPTH	e.g., 24bit or 8bit.

Three-Dimensional Record File Level Metadata.

Human	Makadaka Na	General
Name	Metadata Name	Description
		Keywords for the subject content of the
		Description Keywords for the subject content of the dataset (qualified using e.g., the English Heritage NMR Monument Type Thesaurus or the MDA Object Type Thesaurus. The originally intended accuracy or scale that the survey was to achieve. Site location and description. The address, or coordinates for the subject and a description of the subject and a description of the subject. Coverage should also include any relevant period terms. Projected Coordinate System used. Geographic Geographic Coordinate System used. Keywords e.g.
Subject	FILE_SUBJECT	e.g., the English
		Monument Type
		the MDA Object
		Type Thesaurus.
		The originally intended
Intended accuracy		accuracy or
accuracy		survey was to
		Site location
		and description. The address, or
		coordinates for
Coverage	FILE_COVERAGE	a description of
-	_	Coverage
		should also include any
		relevant period terms.
Projection	FILE PCS	Projected
System	FILE_PC3	System used.
Coordinate	FILE GCS	Geographic Coordinate
System	_	System used.
	perio FILE_Keywords Use	period, site or
Keywords		Use suitable
		thesauri where they exist.
		Dates indicating when the
		dataset was
		created, when the
Dates	FILE_DATES	archaeological project was
		carried out, processing
		dates, or computerisation
		dates as appropriate.
		Project or
Identifiers	FILE_PROJECTID	reference numbers or site
identillers		codes used to identify the
		dataset.
Resolution		The resolution of the image
	FILE_RESOLUTION	pixels per inch
Dimensions		(ppi). Dimensions of
	FILE_DIMENSIONS	the image in
		pixels e.g., 400 x 700px.
Colour Space		The colour space used in
	FILE_COLOUR the image e.g. RGB or	the image e.g.,
		grayscale.
Bit Depth	FILE_BITDEPTH	e.g., 24bit or 8bit.

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Human	Metadata	General
Name	Name	
	CONTL_X,	
Coordinates	CONTL_X,	
	CONTL_1,	
	CONTL_Z,	
		GPS baseline solution), otherwise provide estimated standard deviation or variance of each coordinate. Textual description of location. Dates indicating when the dataset was created, when the archaeological project was carried out, processing dates, or
		adjustment or
		GPS baseline
	CONTL_CX,	solution),
Covariance	CONTL_CY, otherwise	
	CONTL_CZ	provide
		estimated
		standard
		deviation or
		each
		location. Dates indicating when the dataset was
		Textual
Location	CONTL_Location	description of
		location.
		Dates indicating
		when the
		dataset was
		·
		created, when the
Dates	FILE_DATES	
		dates, or computerisation
Identifiers	FILE_PROJECTID	
		identify the
		dataset.
		Site location
		and description.
		The address, or
		coordinates for
		the subject and
C		a description of
Coverage	FILE_COVERAGE	the subject.
		Coverage
		should also
		include any
		relevant period
		terms.
Projection		Projected
	FILE_PCS	Coordinate
System		System used.
Coordinata		Geographic
Coordinate	FILE_GCS	Coordinate
System		System used.

Geographical Information System File Metadata.

Human Name	Metadata Name	General Description
Nume		Scale/resolution
Scale	FILE SCALE	of data capture,
		e.g., 1:1250
		Method of
Method		original data capture, e.g., Total Station Survey, etc. Dates indicating when the dataset was created, when the
	FILE_Method	capture, e.g.,
		Total Station
		Survey, etc.
		archaeological
Dates	FILE_DATES	project was
	_	carried out,
		processing
		dates, or
		computerisation
		dates as
		appropriate.
		Project or
		reference numbers or site
Identifiers	FILE_PROJECTID	codes used to
		identify the
		dataset.
		Site location
		and description.
		The address, or
		coordinates for
		the subject and
Coverage	FILE COVERAGE	a description of
		the subject.
		Coverage should also
		include any
		relevant period
		terms.
D		Projected
Projection	FILE_PCS	Coordinate
System		System used.
Coordinate		Geographic
System	FILE_GCS	Coordinate
System		System used.
		Project or
		reference
Identifiers	FILE_PROJECTID	numbers or site
		codes used to identify the
		dataset.
		The resolution
		of the image
Resolution	FILE RESOLUTION	
		pixels per inch
		(ppi).
Dimensions		Dimensions of
	FILE DIMENSIONS	the image in
	LIFE DIMENSIONS	pixels e.g., 400
		x 700px.
	FILE_COLOUR	The colour
Colour		space used in
Space		the image e.g.,
		RGB or
		grayscale.
Bit Depth	FILE_BITDEPTH	e.g., 24bit or 8bit.
L		UDIL.

Three-Dimensional Model File Metadata.

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Human Name		General Description
Number of Vertices	FILE_VERT	The number of vertices (points) in the model
Number of Polygons	FILE_POLY	The number of triangles or polygons in the model

Geometry Type	FILE_GEOMTYPE	The type of geometry used within the model (wire frame, parametric, etc. if applicable).
Scale	FILE_UNITSCALE	What scale is
Coverage	FILE_COVERAGE	description of the subject. Coverage should also include any relevant period terms.
System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Basic, Technical, or Extended	file_type	Is the model the master model produced just after raw data processing, or is it a derived model produced from the master (e.g. after hole filling, simplification, smoothing, etc.)?
Level of Detail	FILE_LOD	How detailed is the model, what is the resolution of the scan.
Layers	FILE_LAYERS	Does the model use layers? How many?
Colour and Texture	FILE_TEXTURES	Does the model contain colour or texture information? How is this stored? If raster texture files are used then these have to be archived separately.
Material	FILE_MATERIAL	Information about the material properties of the model and whether they match the physical properties of the actual object.

Light Source(s)	FILE_LIGHT	Number and accuracy of light sources used in the model.
Shader	FILE_SHADER	Have special or extended shaders been used?
Animation	FILE_ANIMATION	Whether animation is used in the model along with description of type (keyframe, motion capture).

Data Sharing

What are your plans for publishing data?

Data will be published through the University of Bristol Research Data Repository (data.bris). The data.bris Repository offers a means for Bristol's researchers to openly share non-confidential research data, without the need for external data users to undergo any form of authentication. Each deposit is accompanied by appropriate metadata and is assigned a unique Digital Object Identifier (DOI) via the DataCite scheme. All data published by the Repository is available under a permissive re-use license.

Are there any ethical, commercial, legal or IPR issues which might apply when publishing your data?

There are no commercial, legal or IPR issues with publishing this data, and no ethical issues relating to human participants or identifiable information of individuals. The location spots of finds of local and potentially national importance have, however, been provided in two formats. The first is a general location, simplifying the find-spot to 100m, and is available for the public. Precise find-spots have been restricted on a request basis.

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