



Archaeological research in Senegal from 1891 to the present day has produced a wealth of information. This 'legacy' data is generally on paper, made up of mission reports, record sheets, site distribution maps, collection record books, published and unpublished scientific documents (CRM reports, articles, books, dissertations, theses, and so on). The digitization of these documents, which are often fragile and obsolete, has long remained an urgent challenge, hence the importance of this workstream in the MAEASaM programme.

> Among this legacy data, spatial data figures prominently. It shows that Senegal has more archaeological sites per km² than anywhere in the sub-region.



Legacy data methodology

Georeferencing

Digitization

Despite the abundance of spatial data in maps and other legacy records, the data is generally **obsolete** and sometimes unusable. Digitization is an essential process, enabling us to capture data in a format that is **usable in** the digital instruments of our time.



The georeferencing of archaeological maps is a key step in the digitization process, whereby we assign real-world coordinates to each point in the dataset.



Field verification: Validating the data



Results of georeferencing and digitization: The projection of archaeological sites in Senegal

Province archéologique

ARCADIA

The verification missions undertaken by the team in Senegal have focused on sites and areas that are representative of the archaeological landscapes of Senegal, especially the protohistoric provinces (shell mounds, megaliths, burial mounds and settlement sites), and legacy data collections. The results illustrate the limitations of using traditional paper-based data to identify and locate archaeological sites.

Number of sites collected: 8,503 Sites completely treated: 1,317 **Partially treated sites:** 7,186











The verification work shows that remote sensing data is more precise than legacy data. Site locations are most accurate when their data is georeferenced from recent work or detailed maps; georeferenced sites from general maps and old works generally result in enormous spatial inaccuracies.



Site	Surface area (km2)	Legacy data points verified	New sites found
Tumulus (Diourbel)	744,19	150	
Housing sites (Matam)	740,06	94	17
Bassari landscapes (Kédougou)	375,71	47	
Shell middens (Ziguinchor)	453, 8	0	19
Shell middens (Delta Saloum)	378, 28	9	8
Megaliths (Kaffrine)	593, 5	31	22
Total	3285,54	33 I	68



Information as at August 2024.

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