

Title : Inrap's experience in the digital acquisition of field archaeological data and associated metadata compliant with CIDOC CRM and Dublin Core standards.

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Abstract: For the past three years, Inrap has developed the prototype application EDArc for field data recording and minimum associated metadata. EDArc is used for data acquisition about the different scientific and technical units of archaeological observation and description. EDArc is based on a SQLite database and a set of data acquisition forms developed using .html5 and JavaScript formats. EDArc runs with Google Chrome, Safari and Opera browsers. Data can be exported in .xml format, analysed, displayed in a GIS such as QGIS, processed in a stratigraphic diagram application (B. Desachy's *Le Stratifiant*) or exchanged with other applications using the interoperable .xml format. The data entered in several tables correspond to the minimum data required for all preventive archaeological operations carried out by the Inrap. Field data were matched with CIDOC CRM in the European ARIADNE programme. EDArc also makes it possible to enter minimum metadata on the field, in accordance with the ISO 15836 (Dublin Core) standard used by Inrap for field data permanent archiving.

EDArc is a real step forward on the road to interoperability of field archaeological data, both for harmonisation in data acquisition and for their publication and reuse.

Collaborations are envisaged with other public research institutes in preventive and programmed archaeology to extend the fields and use cases of EDArc and, thus, the use of the CIDOC CRM standard in archaeology.