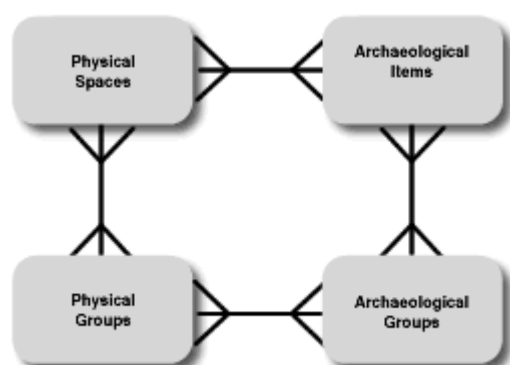


考古學數位典藏 METADATA 發展與分析報告（一）

第二次會議 於史語所「考古發掘標本、照片、記錄與檔案數位典藏」計畫
中央研究院 後設資料工作組 2001/5/4

一、考古學界數位典藏計畫與 METADATA 之發展與分析（以英國為例）

- Why metadata matters in archaeology?
 - Documentation
 - Preservation
 - Resource discovery
 - Research
 - Management
- Standards Issue for current development
 - a single set of standard?
 - *sufficiently detailed vs. sufficiently generic*
- Theoretical Framework (Thornes & Bold, 1998)



- An archaeological item will exist in one or more physical space.
 - An archaeological item may exist on its own or as part of an archaeological group or groups.
 - Physical spaces should not overlap with other physical spaces, although on rare occasions they may appear to, where data are imprecise or inaccurate.
- Level of Archaeology Research for Metadata (B. W. Cunliffe, 1997)
 - Raw resource: the excavation *site* itself
 - Raw data: the excavation records
 - Interpretation: phase diagrams, etc, and the entire archive in the state it *should* be left
 - Publication

二、古學 METADATA 標準發展與應用

Data Documentation and Content Standards

- *Detailed Approach*
- *Generic Approach: eg. Dublin Core*
- *Specific Approach: eg. GIS*
- *The common features among these approaches*
 - Data Standards: ie. exchange, protocols
 - Thesaurus: eg. British Archaeological Thesaurus
 - Guidelines (Documentation, Management)
 - Best Practices

三、「考古發掘標本、照片、記錄與檔案數位典藏 Metadata 需求」屬性分析

- **Approach analysis：平面式的線性軸發展**
 - Categories of current metadata approaches
 - Ambiguity of subject domain, data types and media, and functions
- **Theoretical framework**
 - Archaeological item, archaeological group, physical space, and physical group
 - 本主題計畫分法：遺址概述、發掘單位、墓葬與灰坑等、遺物
 - 本計畫提出的 Metadata Elements 需求需再釐清與標示
- **Relationship**
 - Internal：metadata elements 間的關聯，包含水平與垂直
 - External：不同資料庫間的關聯
- **Distribution of metadata category**
 - Administrative or management focus
 - Subject or research domain orientation is very unclear
 - Need to recheck the consistent with main goals of the Digital Archive Project
- **Level of archaeology research for metadata**
 - B.W. Cunliffe
 - a) raw resource — the excavation site itself
 - b) raw data — the excavation records

- c) interpretation — phase diagrams, etc.
- d) publication
- Analysis result : Covering the four levels without balance

四、原則性問題的確認

- 1、Metadata approach 的發展重點
- 2、Theoretical framework 的需求性及計畫預計的深度（depth）與廣度（scale）
- 3、Relationship 的必要性與資料庫系統的區分
- 4、Metadata category 的重點方向
- 5、Level 的均衡性、劃分
- 6、物件（object）的定位與釐清
- 7、需求書的計畫需求確定

五、預計下次的工作項目與配合事項

- 1、本主題計畫
- 2、後設資料工作組