

Strategic Management of Metadata Projects

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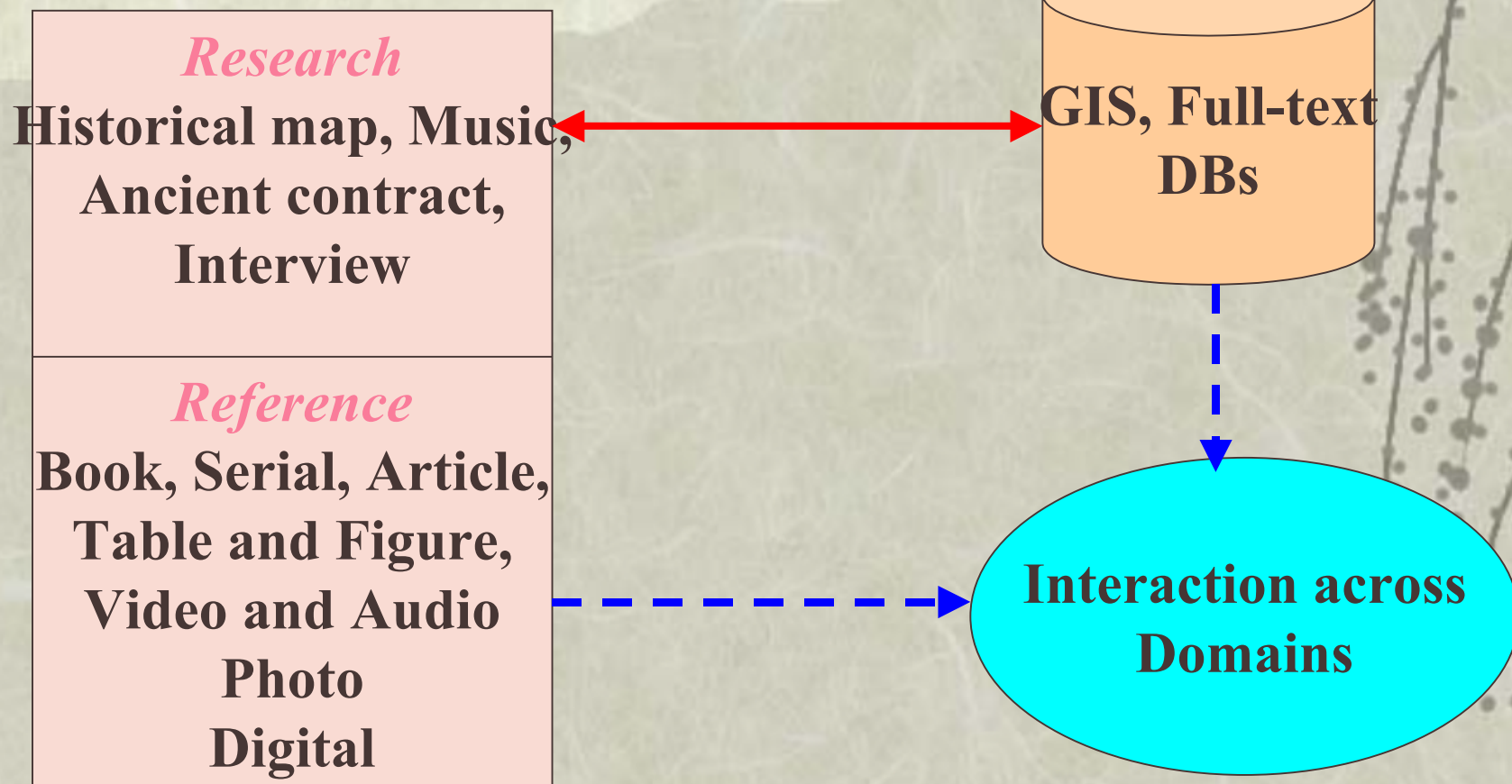
Metadata Projects in Academia Sinica

- ❖ **Taiwanese Aborigines – The Pingpu Group**
- ❖ **Knowledge Base of Taiwan's Earthquake**
- ❖ **Taiwan Memory -- Digital Photo Museum**
- ❖ **Digital Rubbings**
- ❖ **National Palace Museum**
- ❖ **Biodiversity Metadata**

Analysis of Metadata Projects

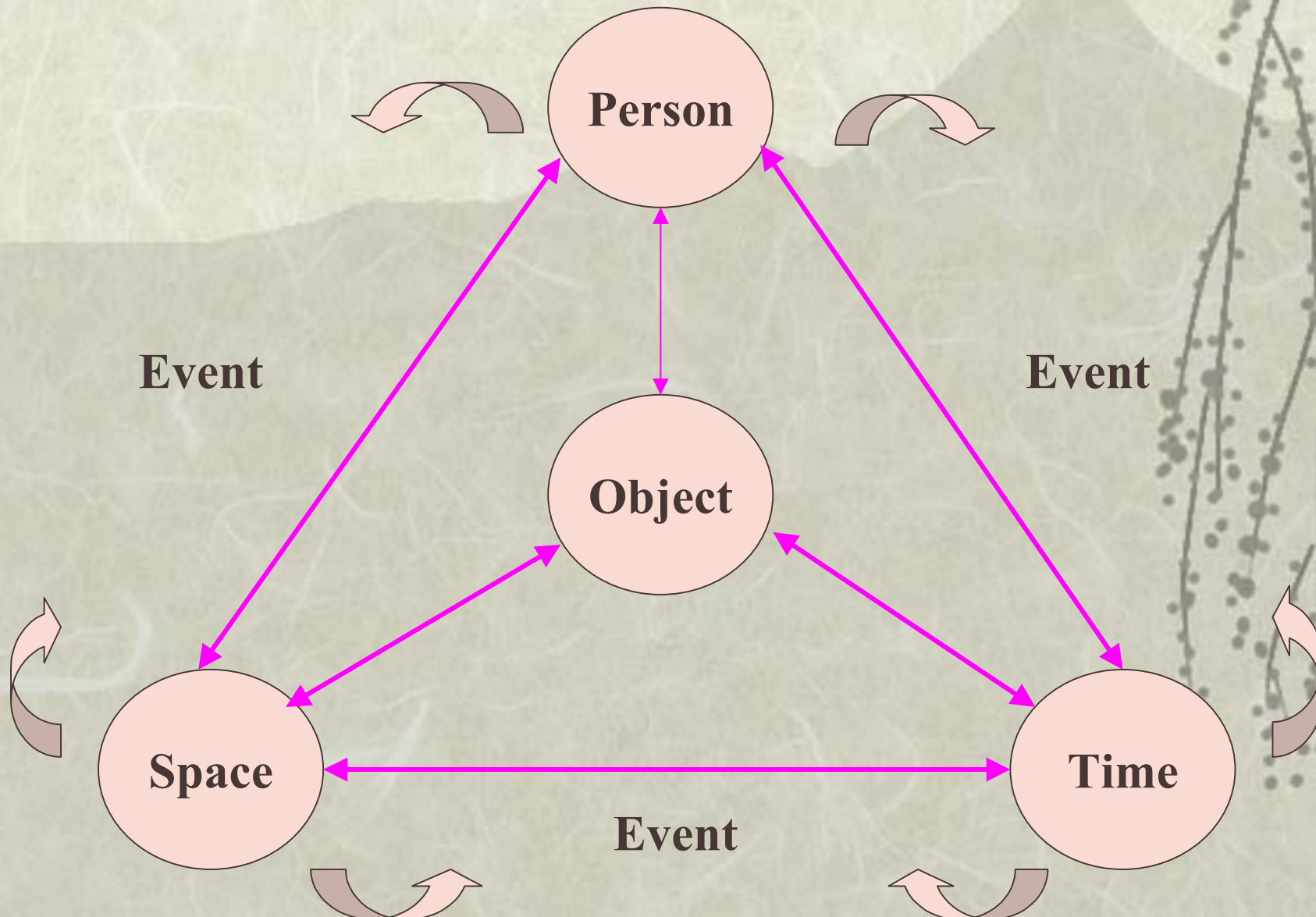
Pingpu Case

Integration of Material Type & DB Schema



Analysis of Metadata Projects

Metadata Types



What problems have we encountered? –1

- ❖ How to handle MD issues with different disciplines and domain needs?
- ❖ How to accommodate many different types of context?
- ❖ Should we have to design a ‘universal MD format’?
- ❖ Or should we adopt “an/several” existing MD format? MARC? DC?

What problems have we encountered? -2

- ❖ **How to evaluate the right MD format for our MD projects?**
- ❖ **How can we collaborate with professionals of various domains?**
- ❖ **How to develop the MD Project in a strategic way?**

Strategies

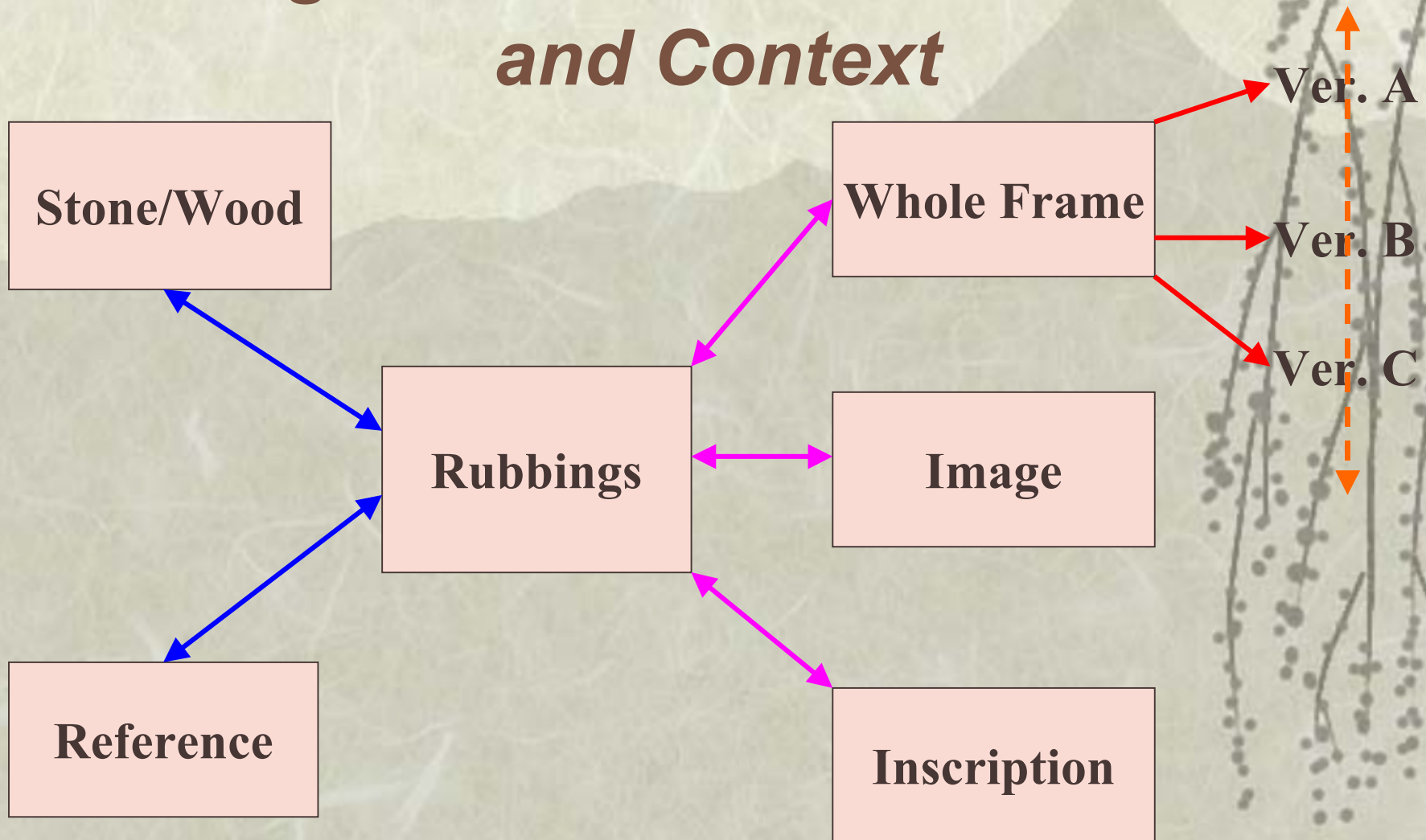
- ❖ **Front-end level – Workflow, worksheets, and clearinghouse**
- ❖ **Back-end level – Workflow and framework**

Metadata Workflow

- ❖ Interview
- ❖ Analysis
- ❖ Confirm
- ❖ Practical experiments and revisions
- ❖ MD system Prototype
- ❖ Trials and revisions
- ❖ User guide

Front-end (1) : worksheets

Diagram of Structured Content and Context



Front-end (2) : worksheets

Element Analysis Table

❖ **Cluster**

- Context
- Content

❖ **Core Class**

- Time, Space, Person, Object, Event
- Information about title, author, publication, media, reference, identifier, access management, system administration

❖ **Element**

Front-end (3) : worksheets

Element Analysis Table

Cluster (群集)	Core Class (核心群組)	Object (元素名稱)	層 次		
			物品主體	物品展現 形式	物品管理
知識內涵	時間				
	空間				
	人/單位				
	事/主題				
	物/性質				
管理層面	著作資訊				
	作者資訊				
	出版資訊				
	參考資訊				
	媒體資訊				
	識別碼系統				
	取用機制				

Front-end (4) : worksheets

Defining Element Table

- ❖ **Metadata Element**
- ❖ **Definition**
- ❖ **Rule for Description**
- ❖ **Control Term**
- ❖ **Sample**

Front-end (6) : worksheets

Function Requirement

- ❖ **D, I, L, A, S, H**
 - **Display (D) for label**
 - **Index (I) for retrieval**
 - **Limitation (L) for search**
 - **Access management (A)**
 - **Statistic Indicator (S)**
 - **Hyperlink Integration (H) with other DBs**



Front-end (7) : Clearinghouse

SMART

**Sinica Metadata Architecture
and Task**

Front-end (8) : Clearinghouse

❖ **Predefined Premises:**

- **Project management**
- **Information sharing for those who engage in digital library projects**
- **Workflow standards**

Front-end (8) :

Clearinghouse

Goals of the Clearinghouse

- ❖ **To help users easily locate and access the Digital Library Project information.**
- ❖ **To offer members of the Metadata Projects a common communication place to discuss and locate information.**
- ❖ **To encourage the use of standards to create and expand access for information and online services / information exchange.**

Front-end (9) :

Clearinghouse

Functions of the Clearinghouse

- ❖ **Search**
- ❖ **Input**
- ❖ **Share**
- ❖ **Communication**
- ❖ **Interoperability**
- ❖ **Repository**

Front-end (10) :

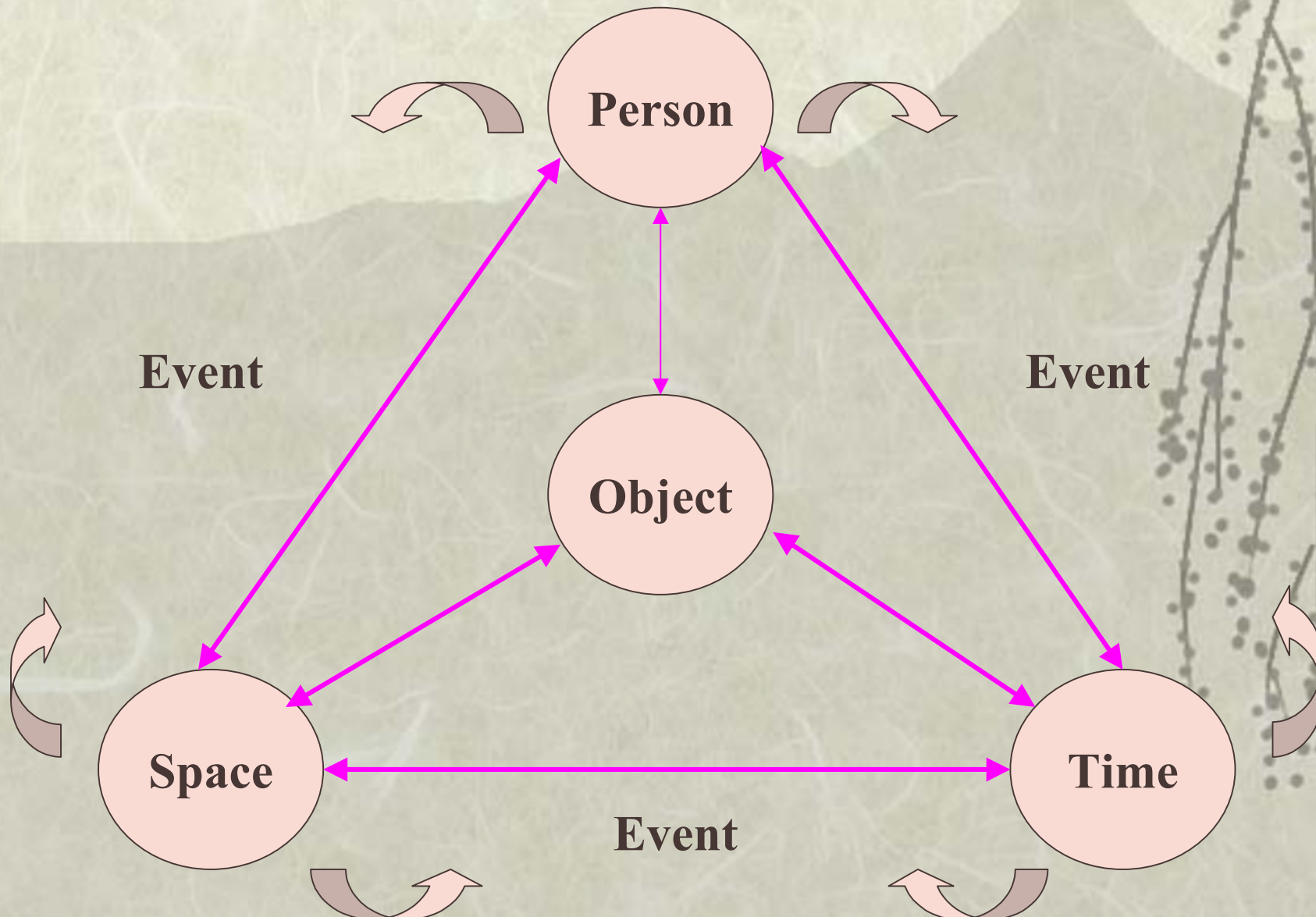
Clearinghouse

The Features of SMART

- ❖ **The background for all metadata concept and information in the Digital Library Projects**
- ❖ **Communication Zone for each project.**
- ❖ **Getting start with metadata management**
- ❖ **Metadata application tools**
- ❖ **Documentation**
- ❖ **Resource Sharing**
- ❖ **Search engine**

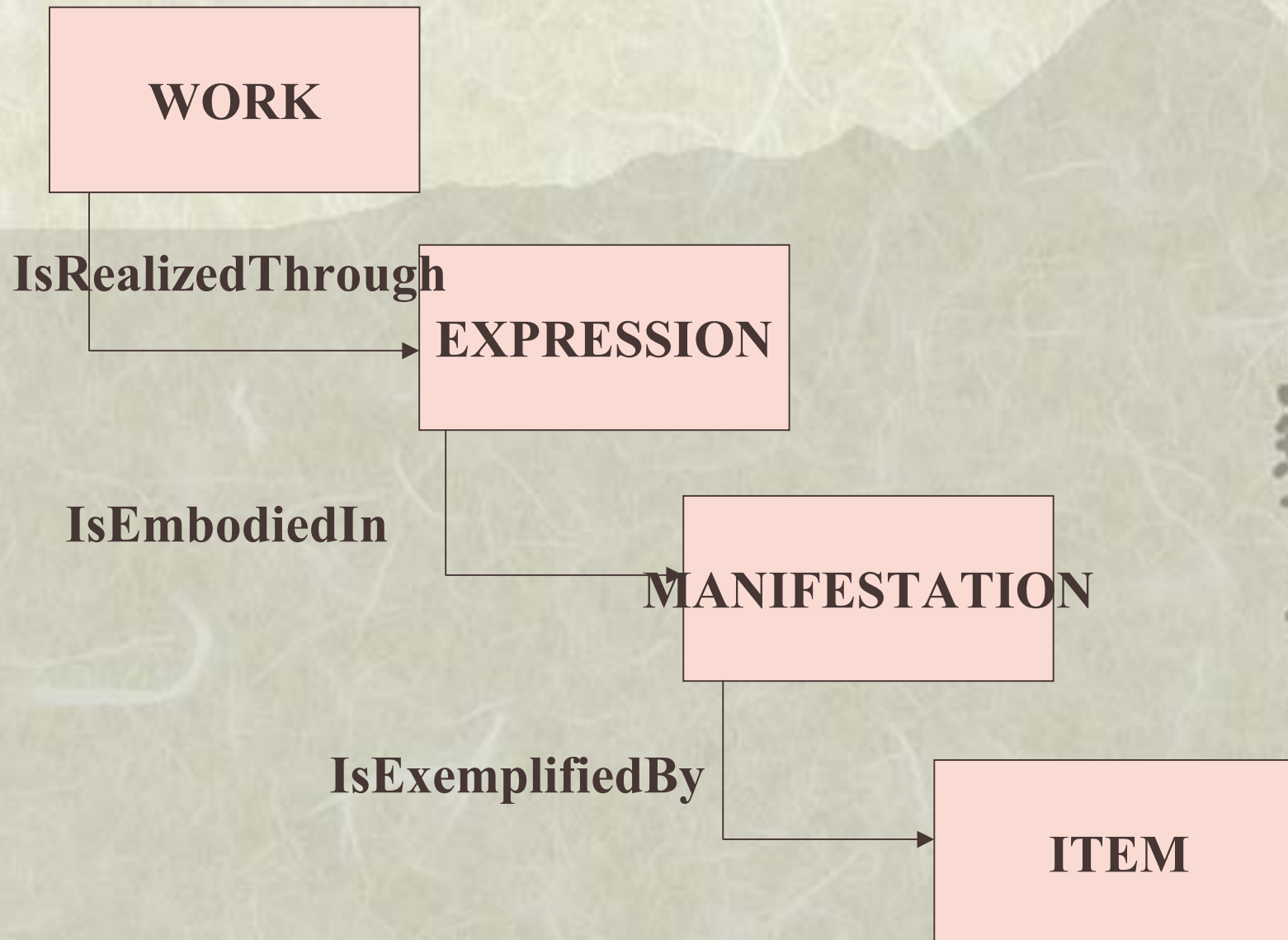
Back-end (1) : Framework

Metadata Types



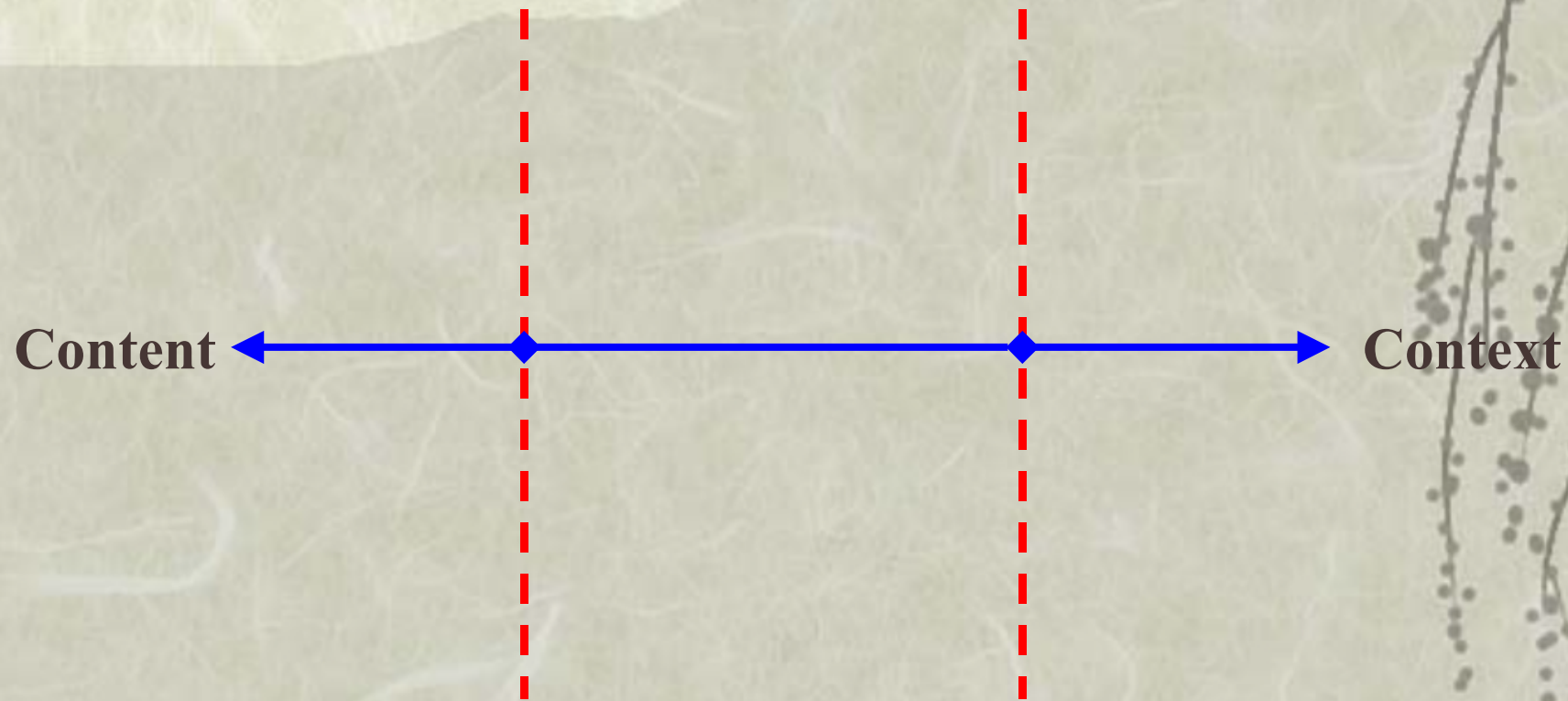
Back-end (2) : Framework

The IFLA Model



Back-end (3) : Framework

The Content & Context Model



Findings (1)

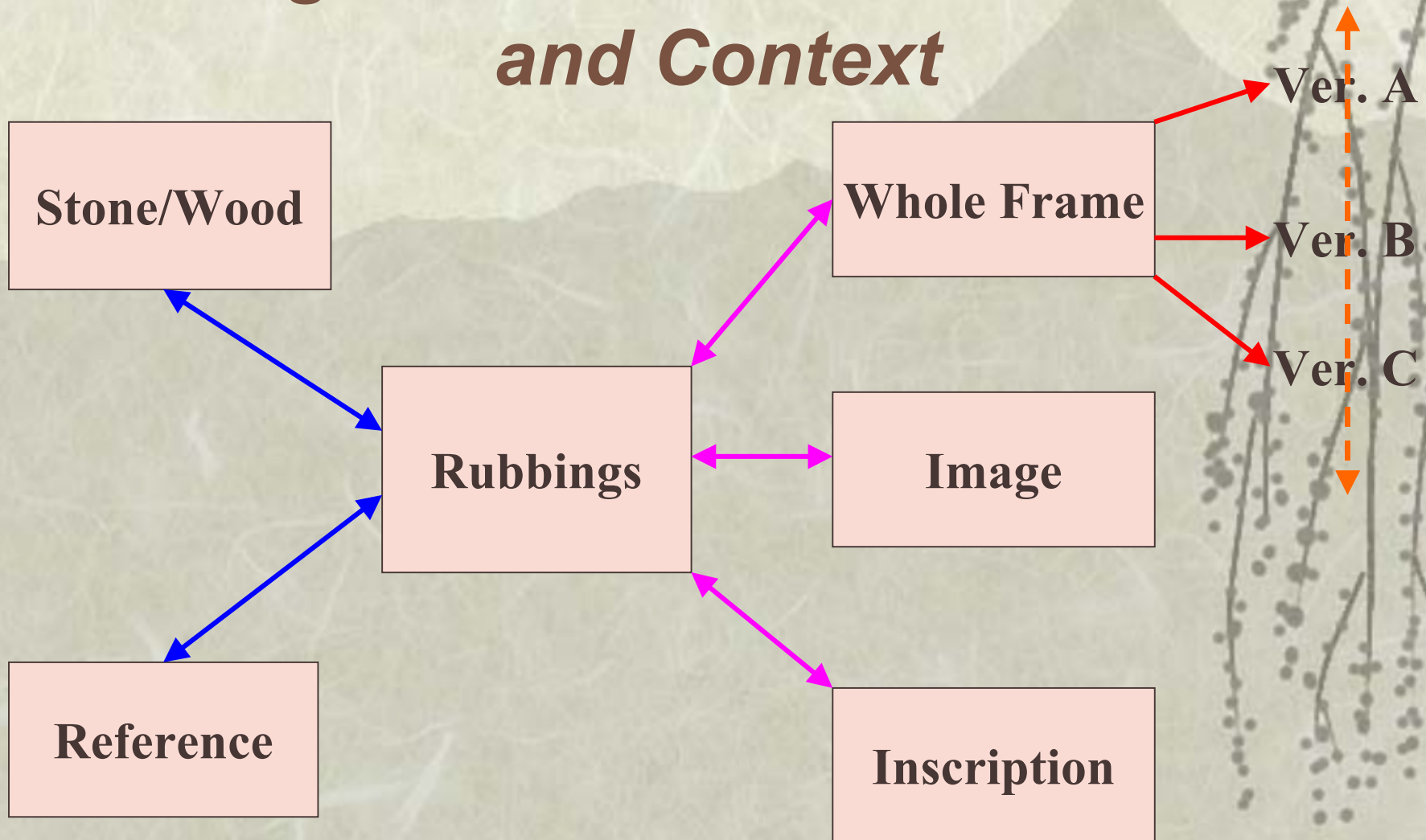
- ❖ **Metadata Types**
- ❖ **Catalogue vs. Metadata**
 - Simple vs. diverse
 - Static vs. dynamic
 - Unit - ambiguous
 - Association or relationship
- ❖ **The extension of metadata can achieve from *content description to context annotation* The approaches shift from *library domain to combination of various domains***

Findings (2)

- ❖ **Framework**
- ❖ **Workflow / Worksheet**
- ❖ **Dublin Core is ‘core’?**
- ❖ **What is the appropriate ‘Information Unit’ for Metadata?**
- ❖ **Position of original object and duplicate one**

Front-end (1) : worksheets

Diagram of Structured Content and Context



Conclusion

- ❖ **Metadata should consider to be a kind of project management, instead of just an adoption of any metadata standards and elements.**
- ❖ **Strategic management plays a key role for any Metadata project.**

Future Works

Some works are required to be examined with more case studies, such as

- ❖ **How can IFLA model be applied to metadata analysis?**
- ❖ **Does any core elements exist among metadata standards?**