symbolic

physical

activities

E90 Symbolic Object

TXP17 has part

E55 Type

E89 Propositional Object

TX12 Grapheme Sequence

CAES

P94 has created

TXP11 transcribed

TX6 Transliteration

E65 Creation

I1 Argumentation

from 'CAES' to 'CAES(ARI)' [Latin script]

S4 Observation

TX8 Grapheme

P2 has type

TX11 Grapheme Occurrence

S (the last letter of the sequence)

TXP7 has item

E24 Physical Human-Made Thing

TXP15 recorded correspondence

TXP10 deciphered text

TX5 Text Recognition

P9 consists of

TX14 Reading

The activity of dec and understandi written text (by extracting noteworthy propositions relat the content of t recognized tex

TX13 Script

The Latin script

The letter "S" of the Latin alphabet

E25 Human-Made Feature

TXP14 used copy or representation of

The activity of recognizing the inscription text

P9 consists of

TXP9 is encoded using

TXP16 employs script

TXP13 deciphered via the representation

Written Text

P138 represents

E36 Visual Item

An image of the inscription

P134 continued

Ix1 Meaning Comprehension

E29 Design or Procedure

TXP4 has segment

TX7 ... ent

Segment

TX3 Writing System

The Italian writing system

TXP8 has componer

TX... glyph

Glyph

TXP18 read

symbolic

physical

activiti

Scenario 1: Autoptic investigation only
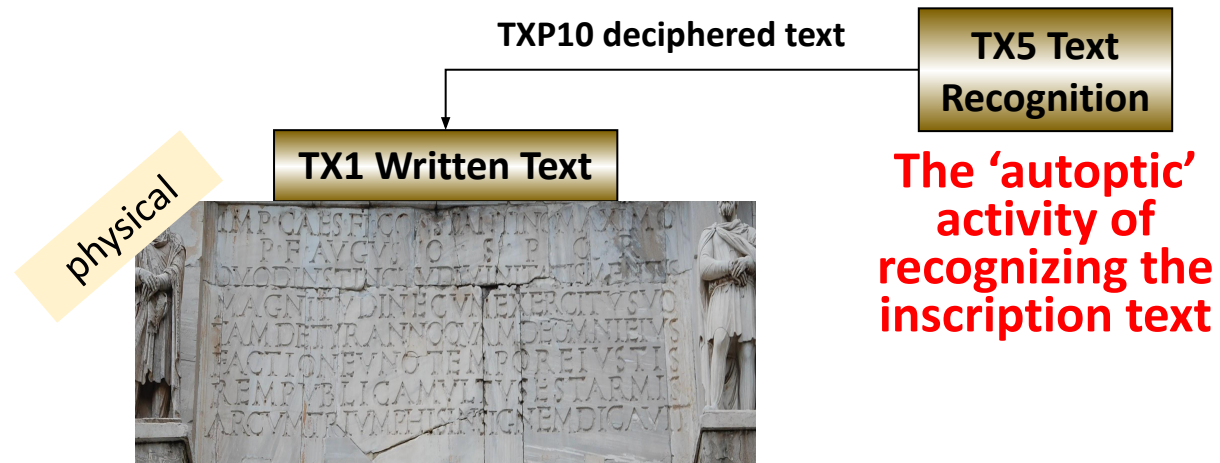
TXP10 deciphered text

TX5 Text Recognition

TX1 Written Text

physical

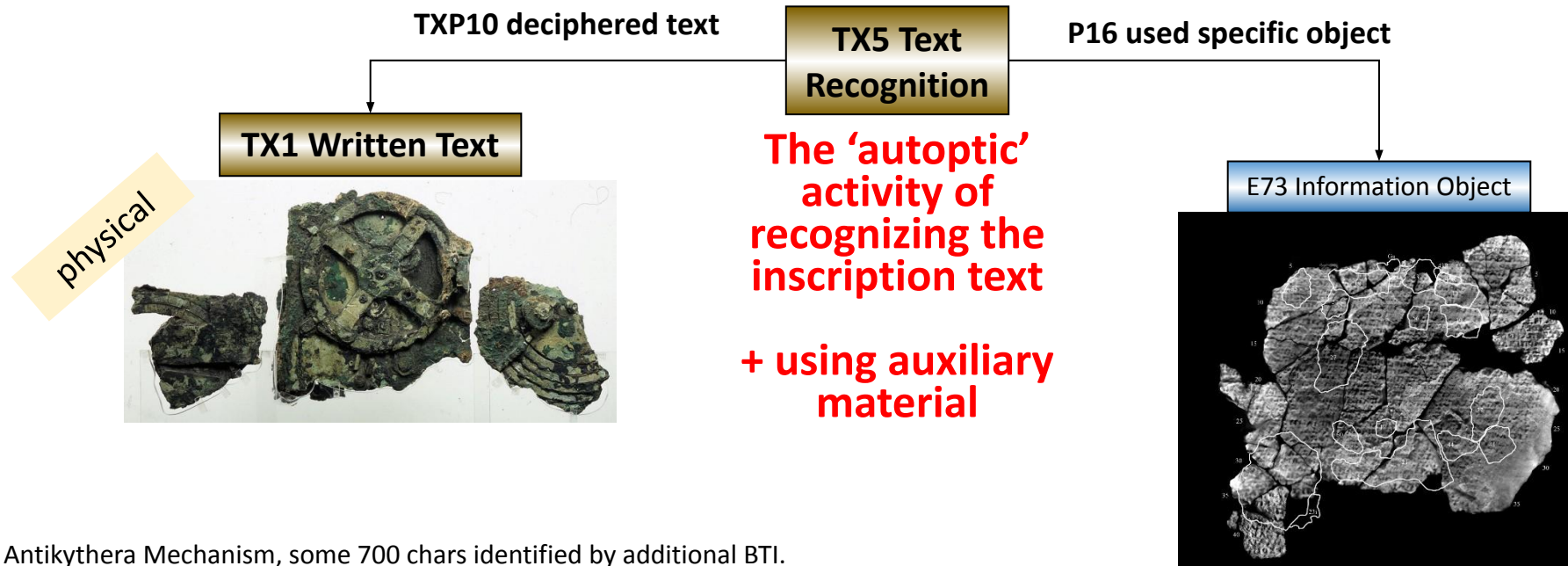**The 'autoptic' activity of recognizing the inscription text**

```
:textRecogn_ArchOfConstantine
    rdf:type crmtex:TX5_Text_Recognition ;
    crmtex:TXP10_deciphered_text  :TX1_Written_Text_in_Arch .
:TX1_Written_Text_in_Arch
    rdf:type crmtex:TX1_Written_Text .
```
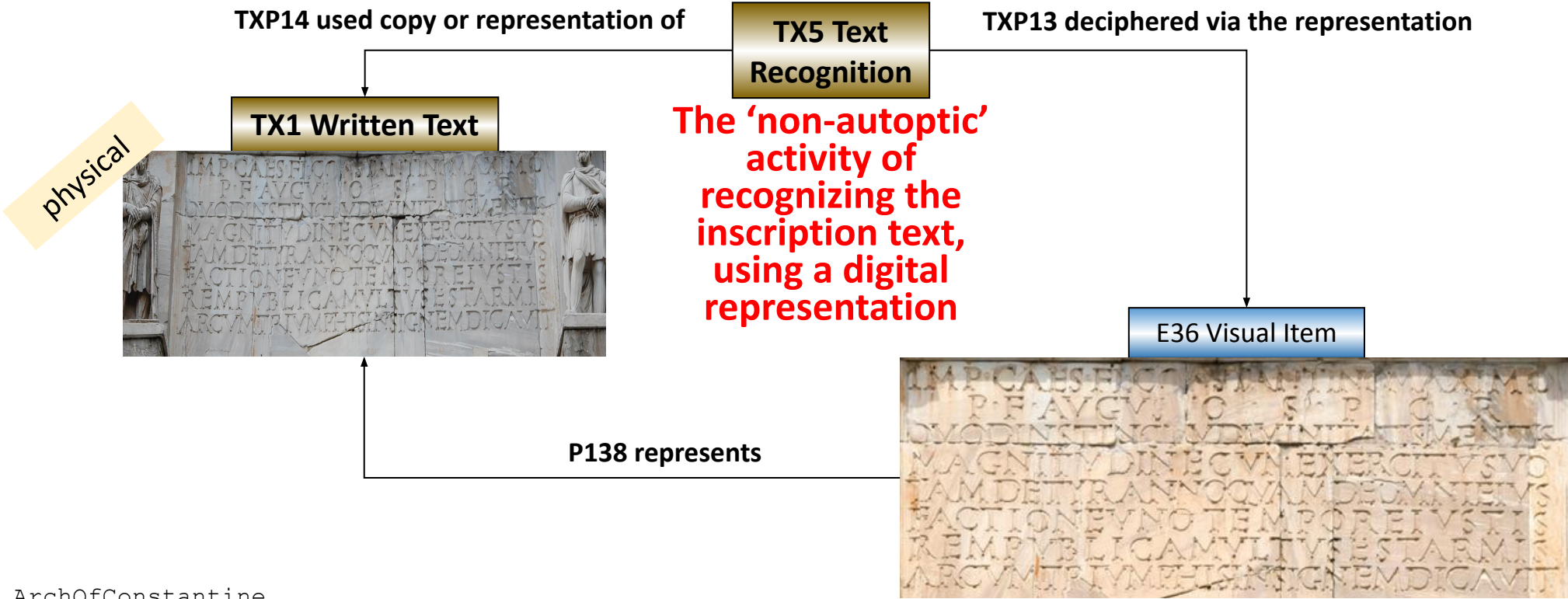
Scenario 2: Autoptic investigation + auxiliary material (e.g. a photo)

TXP10 deciphered text

TX5 Text Recognition

P16 used specific object

TX1 Written Text

physical

The 'autoptic' activity of recognizing the inscription text

+ using auxiliary material

E73 Information Object

Reported case: The Antikythera Mechanism, some 700 chars identified by additional BTI.
https://www.ellines.com/en/good-news/29656-oi-epigrafes-tou-michanismou-ton-antikuthiron/
http://www.antikythera-mechanism.gr/system/files/0608_Nature.pdf

```
:textRecogn_ArchOfConstantine
    rdf:type crmtex:TX5_Text_Recognition ;
    crmtex:TXP10_deciphered_text  :TX1_Written_Text_in_Arch .
    crm:P16_used_specific_object  :E70_Thing_or_subclass_instance // e.g. E73 Information Object
:TX1_Written_Text_in_Arch
    rdf:type crmtex:TX1_Written_Text .
```

Scenario 3: Non-autoptic recognition, using a digital representation only (e.g., a photo, BTI imaging, …)
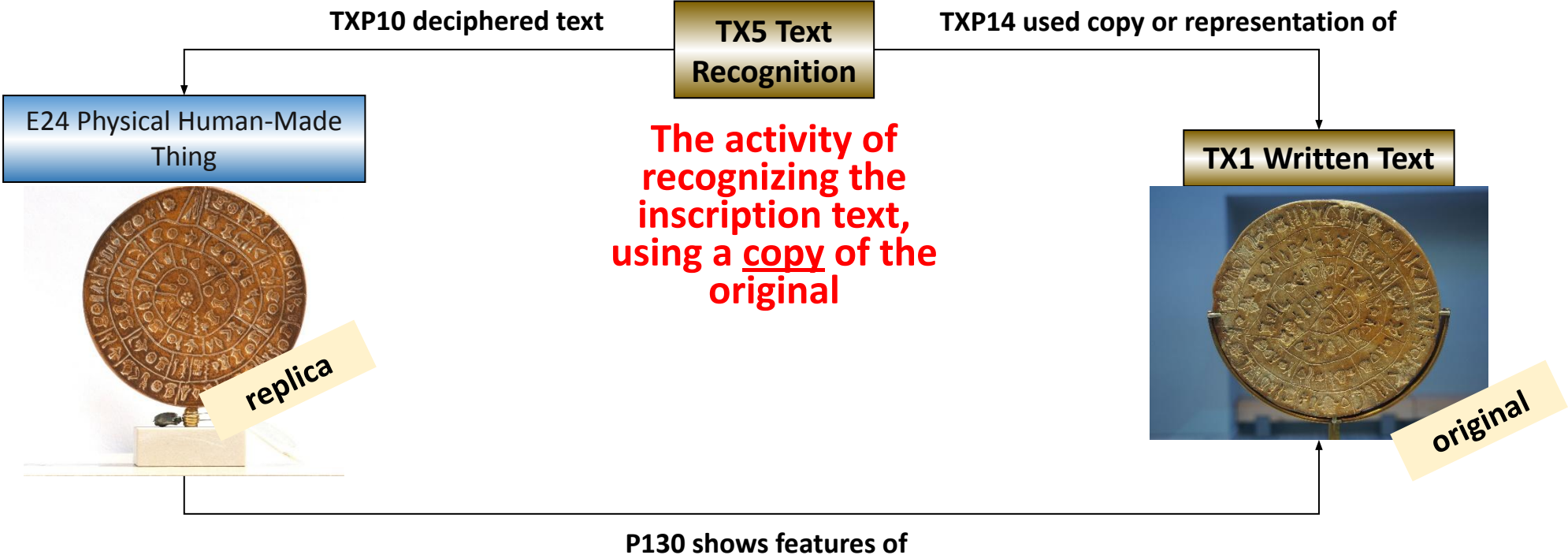
TXP14 used copy or representation of

TX5 Text Recognition

TXP13 deciphered via the representation

TX1 Written Text

physical

The 'non-autoptic' activity of recognizing the inscription text, using a digital representation

E36 Visual Item

P138 represents

```
:textRecogn_ArchOfConstantine
    rdf:type crmtex:TX5_Text_Recognition ;
    crmtex:TXP13_deciphered_via_the_representation :E36_Visual_Item_Instance ;
    crmtex:TXP14_used_copy_or_representation_of   :TX1_Written_Text_in_Arch  .
:E36_Visual_Item_Instance
    rdf:type crm:E36_Visual_Item ;
    crm:P138_represents  :TX1_Written_Text_in_Arch .
:TX1_Written_Text_in_Arch
    rdf:type crmtex:TX1_Written_Text .
```

FOL

TXP13(x, y) ⇒ (∃z) [TXP14(x, z) ∧ P138(y, z) ^ ¬TXP10(x, z)]

Scenario 4: Recognition using a copy / replica (e.g. because the original is not available, or does not exist anymore)

TXP10 deciphered text

TX5 Text Recognition

TXP14 used copy or representation of

E24 Physical Human-Made Thing

The activity of recognizing the inscription text, using a <u>copy</u> of the original

TX1 Written Text

replica

original

P130 shows features of

```
:textRecogn_in_phaistosDisc
    rdf:type crmtex:TX5_Text_Recognition ;
    crmtex:TXP10_deciphered_text   :E24_Copy_of_PhaistosDisc
    crmtex:TXP14_used_copy_or_representation_of   :TX1_Original_PhaistosDisc .
:TX1_Original_PhaistosDisc
    rdf:type crmtex:TX1_Written_Text .
:E24_Copy_of_PhaistosDisc
    rdf:type crm:E24_Physical_Human-Made_Thing ;
    crm:P130_shows_features_of :TX1_Original_PhaistosDisc .
```

<u>FOL</u>:
TXP10(x, z1) ∧ TPX14(x, z2) ⇒ P130(z1, z2)