## Issue 283: Add superproperties to the properties of CRMarchaeo.

**DECISION**: The sig reviewed the HW by CEO and decided to accept his suggestions for CRMarcheo properties AP3, AP4, AP6, AP7, AP8, AP9, AP11, AP12, AP13, AP14, AP15, AP16.

Of those some don’t require be declared subproperties of a property different than the one they have already been assigned with, whereas others do.

*No change in superproperty required:*

* **AP3 investigated (was investigated by)** [D: A9 Archaeological Excavation, R: E27 Site] subproperty of: O8 observed (was observed by),
* **AP6 intended to approximate (was approximated by)** [D: A1 Excavation Process Unit, R: A3 Stratigraphic Interface]   
  subproperty of: O8 observed (was observed by),
* **AP7 produced (was produced by)** [D: A4 Stratigraphic Genesis, R: A8 Stratigraphic Unit] subproperty of: O17 generated (was generated by),  
  **DECISION**: Start [new issue](#_[NEW_ISSUE]:_O17), make O17 generated (was generated by) [D: S17 Physical Genesis, R: E18 Physical Thing] a subproperty of O18 altered (was altered by) [D: S18 Alteration, R: E18 Physical Thing]
* **AP8 disturbed (was disturbed by)** [D: A5 Stratigraphic Modification, R: A8 Stratigraphic Unit] subproperty of: O18 altered (was altered by),
* **AP9 took matter from (provided matter to)** [D: A4 Stratigraphic Genesis, R: S10 Material Substantial]   
  subproperty of: O18 altered (was altered by),
* **AP11 has physical relation (is physical relation of)** [D: A8 Stratigraphic Unit, R: A8 Stratigraphic Unit]   
  HAS NO SUPERPROPERTY
* **AP12 confines (is confined by)** [D: A3 Stratigraphic Interface, R: A2 Stratigraphic Volume Unit] subproperty of: O7 confined (was confined by)
* **AP13 has stratigraphic relation (is stratigraphic relation of)** D: A5 Stratigraphic Modification, R: A5 Stratigraphic Modification]   
  HAS NO SUPERPROPERTY,
* **AP14 justified by (is justification of)** [D: AP13.1 has type (type of stratigraphic relation), R: AP11.1 has type (type of physical relation)]   
  HAS NO SUPERPROPERTY,
* **AP15 is or contains remains of (is or has remains contained in)** [D: A2 Stratigraphic Volume Unit, R: S10 Material Substantial]   
  HAS NO SUPERPROPERTY,
* **AP16 assigned attribute to (was attributed by)** [D: A6 Group Declaration Event, R: E18 Physical Thing]   
  subproperty of: P140 assigned attribute to (was attributed by).

*Change in superproperty is required:*

* **AP4 produced surface (was surface produced by)** [D: A1 Excavation Process Unit, R: A10 Excavation Interface] requires editing
  + as CEO correctly pointed out, to produce a surface, one must remove matter, however the surface itself is produced, not removed.
  + AP4 should be a subproperty of P018 has produced (was produced by) [D: E12 Production, R: E24 Human Made Thing]. [DECISION]
  + This change requires additional actions: A1 Excavation Process Unit has to be made a subclass of E12 Production for this to work.
    - **DECISION**: A [**new issue**](#_[NEW_ISSUE]:_The) will be raised in the sig, regarding the nature of A1 Excavation Process Unit (isA E12 Production vs. isA S1 Matter Removal). In the context of the new issue, all properties connecting A1 Excavation Process Unit to other CRM classes should be examined to determine that both they and that their superproperties are compatible with the newly postulated semantics for A1 Excavation Process Unit.
      * AP1 produced (was produced by) [D: A1 Excavation Process Unit, R: S11 Amount of Matter]
      * AP2 discarder into (was discarded by) [D: A1 Excavation Process Unit, R: S11 Amount of Matter]
      * AP5 removed part or all of (was partially or totally removed by) [D: A1 Excavation Process Unit, R: A8 Stratigraphic Unit],
      * AP10 destroyed (was destroyed by) [D: A1 Excavation Process Unit, R:S22 Segment of Matter]
* The superproperties of the following CRMarchaeo properties need be reexamined in the context of a [new issue](#_[NEW_ISSUE]:_A7) regarding the semantics of E7 Embedding (in line with the decision reached in the 43rd sig meeting that A7 Embedding should capture a notion of a feature-like entity instead of a temporal one).
  + AP17 is found by (found) [D: A7 Embedding; R: S19 Encounter Event]
  + AP18 is embedding of (is embedded) [D: A7 Embedding; R: E18 Physical Thing]
  + AP19 is embedding in (contains embedding) [[D: A7 Embedding; R: A2 Stratigraphic Volume Unit]
  + AP20 is embedding at (contains) [D: A7 Embedding; R: E53 Place]
  + AP21 contains (is contained in) [D: A2 Stratigraphic Volume Unit, R: E18 Physical Thing]