

Legend This is a graphical representation of a possible extension of the OME data model developed by members of the Imaging Working Group of the

(in our case a Microscope and an image acquired using that instrument) are represented by three types of model elements: 1) Entities = Boxes; 2) Relationships = lines connecting boxes; 3) Attributes = fields within boxes AnnotationRef: This element always refers to a Comment/ When describing a real life situation/thing: Annotation element as described for Channel. However for

2) RELATIONSHIPS corresponds to VERBS = actions/state/occurrence that connect Entities with each other

3) ATTRIBUTES corresponds to ADJECTIVES = the actual information about each Entity we want to collect In order to read the schema please start from INSTRUMENT and from and IMAGE for the Specifications and Settings section respectively. Then follow the lines to the

4D Nucleome consortium. The graph utilizes the Entity-Relationship formalism. In this formalism information about a real world situation/thing

1)ENTITIES corresponds to NOUNS = the things we want to collect information about.

connected boxes and think something like: 1) An Instrument has a Microscope_Body, might rest on a Microscope_Table, and has a Light_Source etc.; 2) An Image was produced as part of a specific Experiment, was collected in a specific Imaging_Environment, was collected using specific Microscope_Settings etc.

