Biocode Commons / GSC14-bioCollections Ontology Hackathon
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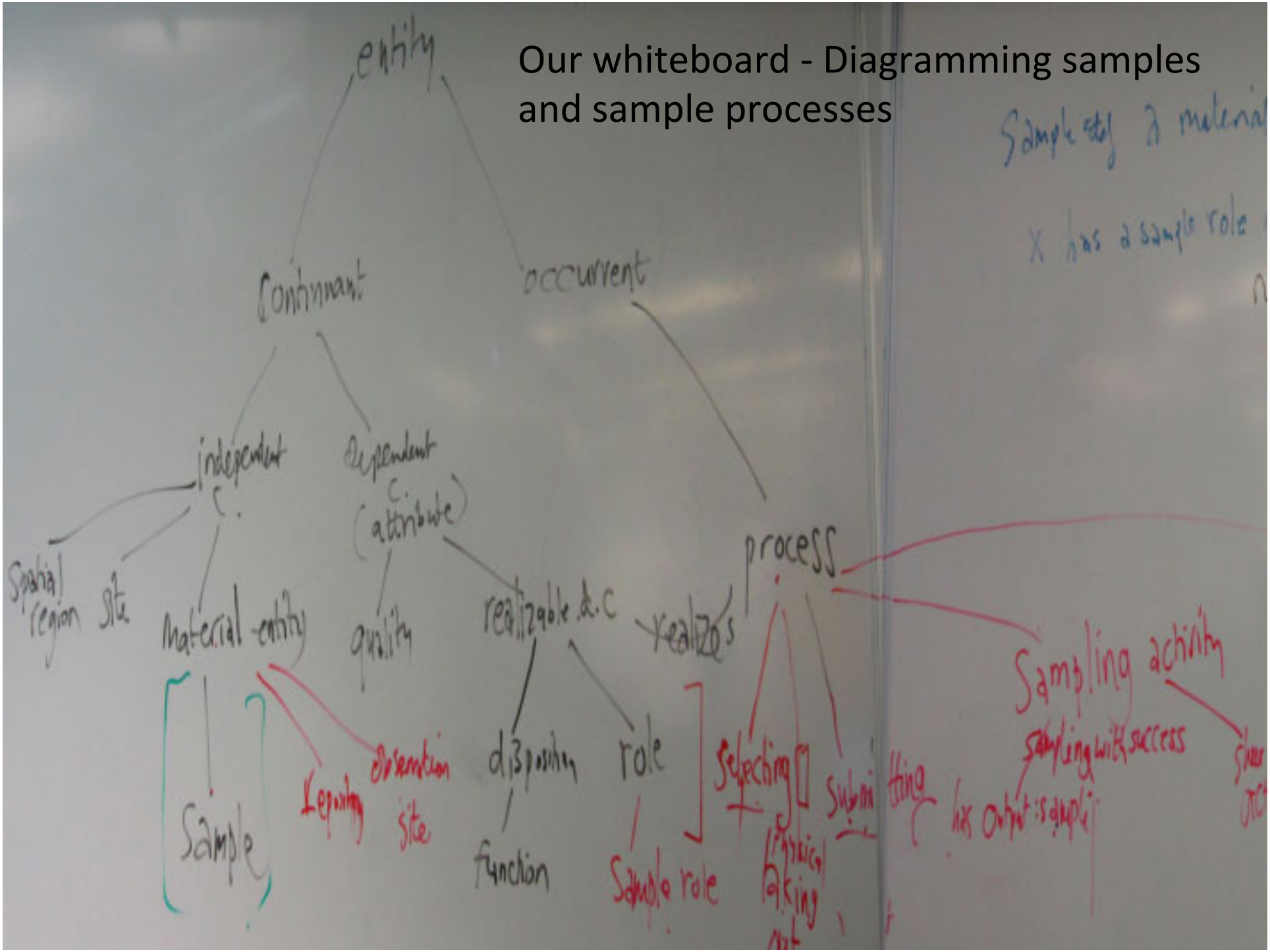

Our whiteboard - Diagramming samples and sample processes

What is a Sample

A sample is a material entity that is taken out of its normal environment and is submitted to an institution or a measurement device.

Processes involving sampling or samples:

- Collecting process
- Data Sampling Process
- Identification Process
- Material Sampling Process
- Observing Process
- Physical Extraction Process
- Process that yields a material representation of a material entity
- Process that yields an information artifact that is a representation of a material entity
- Selecting process
- Statistical sampling process
- Submitting process

Linking Samples and Sampling Processes

The sampling process can be characterized by a chain of distinct stages involving samples and processes. For example, assume we are studying the metagenome from a fish gut. The following steps could be identified as distinct samples and associated processes in this chain:

- ProcessX (removing Fish from a reef by *method* at *location*) to derive sampleX
- ProcessY (remove goop from *sampleX* stomach by *methodA*) to derive sampleY
- ProcessZ (remove DNA extract from *sampleY*) to derive sampleZ
- ProcessA runs sequencing on *sampleZ* to derive sequenceA

What we accomplished

- bioCollections/Sample OWL output: http://biocode-commons.googlecode.com/svn/trunk/ontologies/biocollections/biocode.owl
- Proposed Darwin Core minor clarifications:
  Expand Basis of Record to include DNAExtract, Subsampled Tissue

Action Items

- GOs Registry (John D/ Eamonn utilize GBIF registry? will bring up w/ Gos)
- Explore Integration with OBI (Rocca-Serra/ Deck/Morrison)
- Invite feedback from community via bioPortal (Whetzel/ bioPortal)
- Propose DwC Minor Clarifications at TDWG12 (Wieczorek)
- Whitepaper: SOB, Biocode Commons Hackathon, Darwin Core DNA Extension (Deck/Bob R leading, Gabi, Ramona)
- Darwin Core DNA Extension follow-up with GGBN (Deck, Gabi, Eamonn)
- Darwin Core Major clarifications: Build concept of Sample, and clarify other concepts (Deck bring up with TDWG-RDF group at TDWG12)