Metadata workplan

Latin American Metadata Aggregation Methodology and derived products
Objectives

• Build a metadata database, allowing users to study the temporal, spatial and frequency band evolution of seismic instrumentation in Latin America;

• Characteristics:
  – Searchable
  – Updatable
  – Replicatable
SZO Application

• Systematic elaboration of instrumentation maps
  – by region
  – by time
  – by frequency band
• Or any of those combined!
• Plan potential of experiments needing certain instrument distribution criteria
  – Allows a better planning for future instrumentation deployment
Actions

- Build a initial server ~ 1 week
- Get SeisComp3 running ~ 4 hr
- Build a master table upon supplied information
  - Fetch metadata
  - Clean up metadata (attribute normalization)
  - Merge into Sc3 system
- Identify interesting search questions
  - Prepare scripts to execute the maps and tied those to explorable dynamic webpages
Metadata Loading

- **Static Loading - Formats:**
  - DataLess Seed
  - StationXML
  - ArcLinkXML
  - SeisCompXML

- **Dynamic Loading**
  - **Sources:**
    - FDSNws
    - ArcLink

- **Static test case**
  - No use in the long term – just a good example

- **Overnight updates from anyone to anyone!**
  - This is what it takes to build a network
RT – Use cases

- Propagation of metadata corrections from the producer to the processing systems
- Prototyping of new stations auto-configuration mechanisms for early-warning centers
- Optimization of efforts on deploying instrumentations