# 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