# Establishing a Field Station Digitization Program: THE SAGEHEN EXPERIENCE

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SCFS 37

STEP ONE: identify what you have

- > volunteer time
- access to a computer
- access to FileMaker Pro
- > assortment of collections
- > archival materials to housing for herbaria specimens
- cabinets in varying stages of functionality

insects

plants

mammals

birds

jars of assorted specimens preserved in formalin

STEP TWO: identify what you don't have

- imaging equipment (camera, scanner, copy stand, lights, color meter...)
- quality physical storage for mammals or birds
- replacement specimen housing of any sort
- funding for software
- existing accession, catalog, or inventory records

STEP THREE: decide which of the resources you lack are ones you can't live without

now

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- quality physical storage for mammals or birds
- replacement specimen housing of any sort
- funding for software
  - mever?
- > existing accession, catalog, or inventory records

– I wish...

later

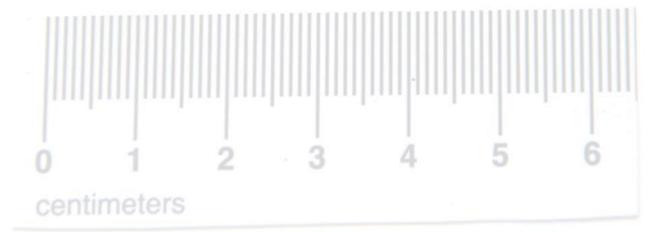
STEP THREE: decide which of the resources you lack are ones you can't live without





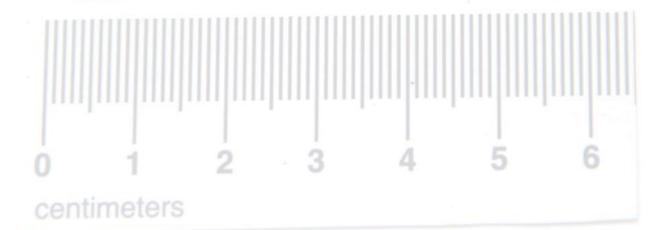
STEP FOUR: start with the easy stuff

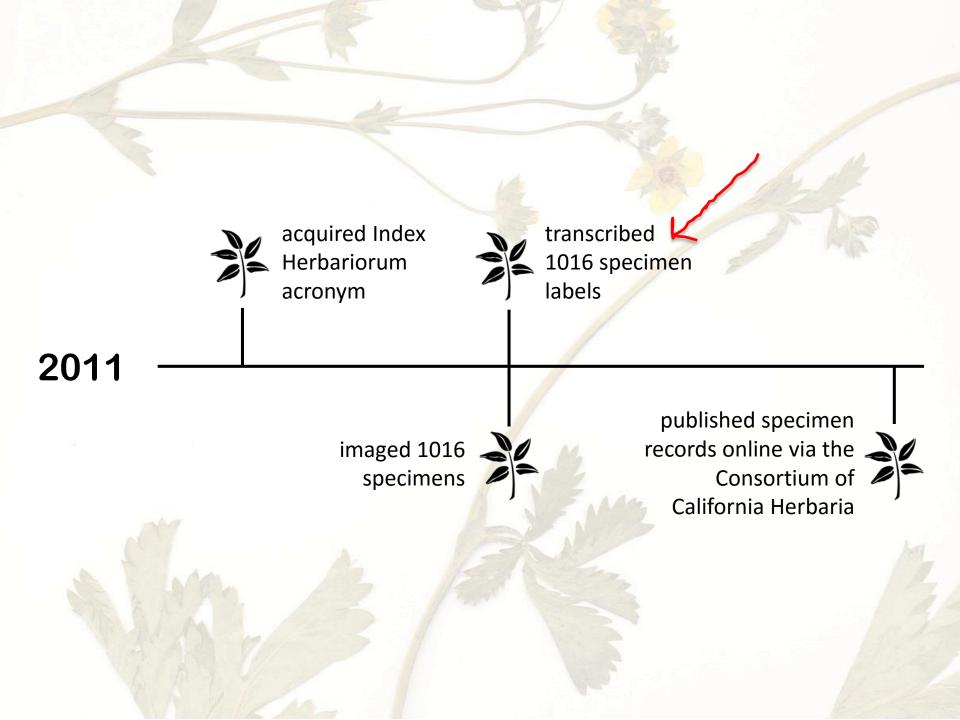
- > transcribing specimen data into a spreadsheet
- photographing specimen labels
- organizing & inventorying the collections



STEP FOUR: start with the easy stuff

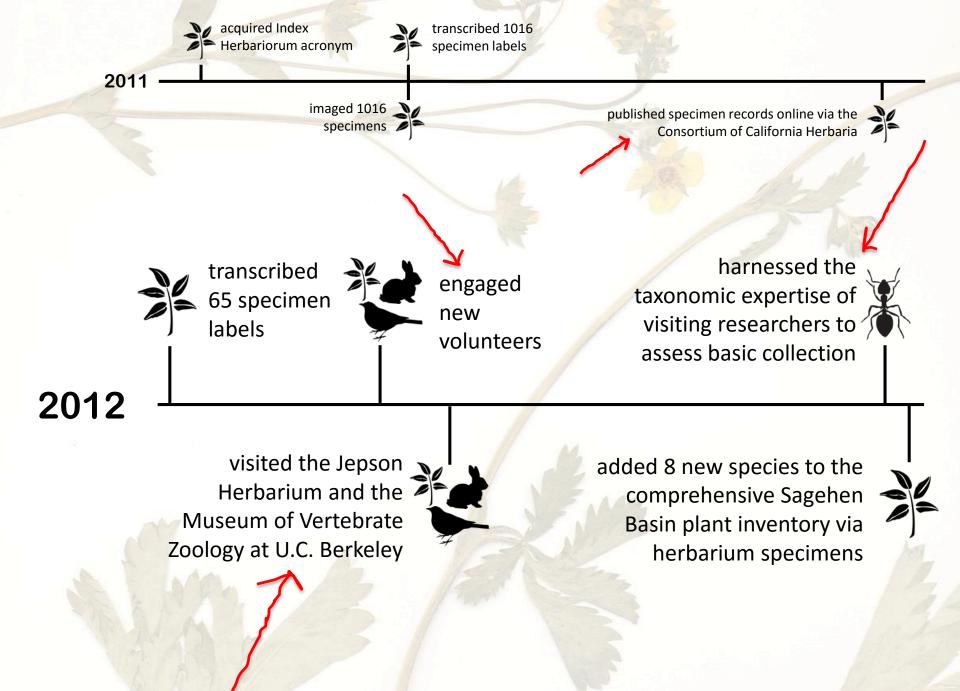
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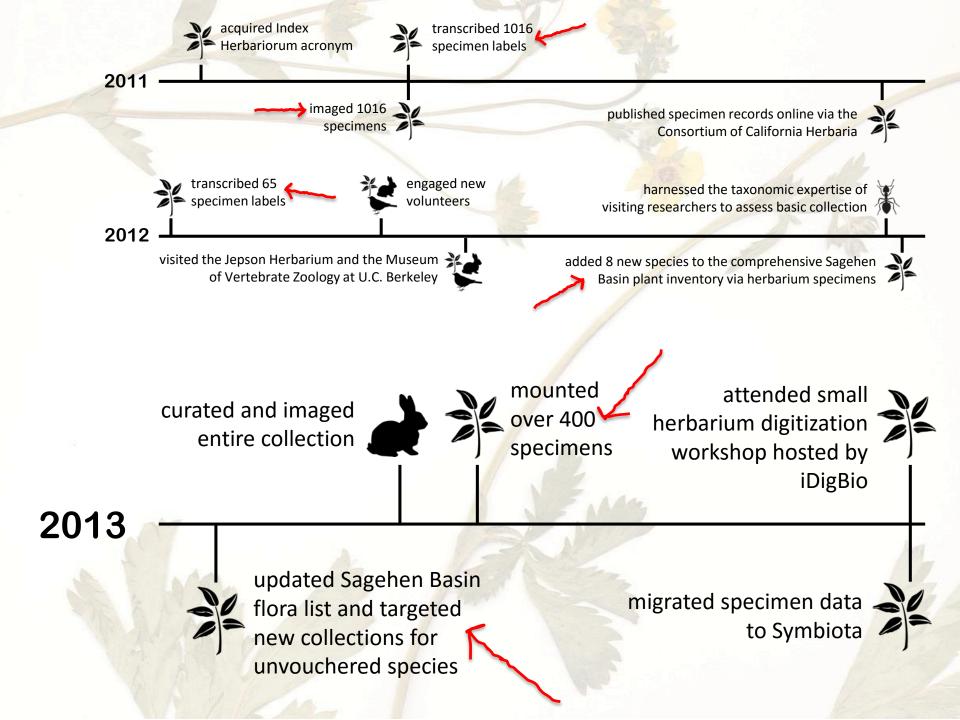
STEP FIVE: accumulate new resources as the immediate need arises

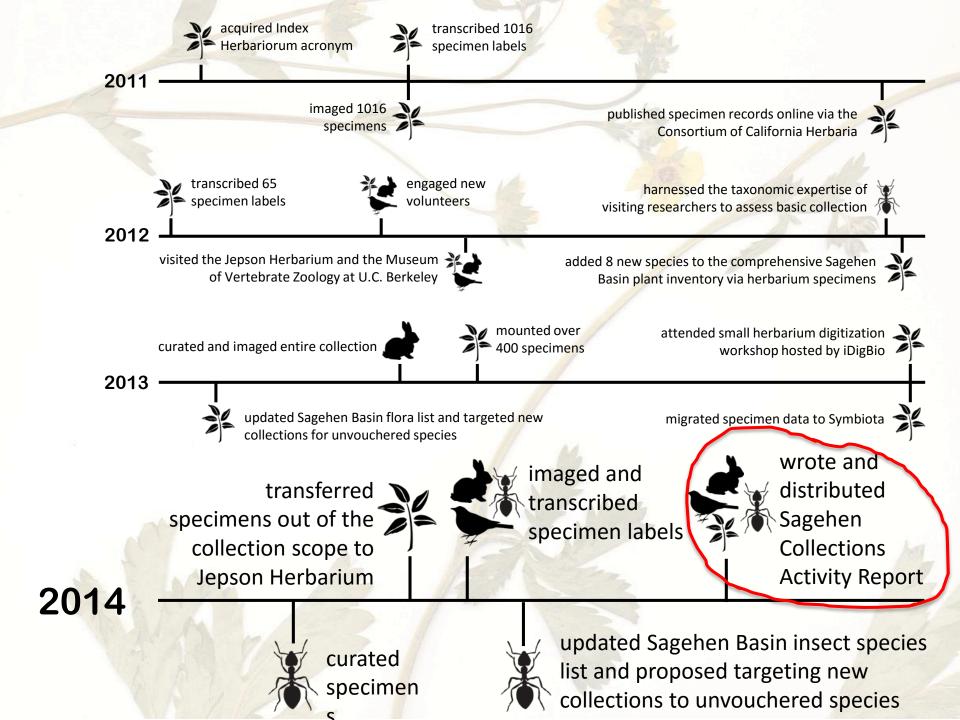
- > tools
- > people
- operational knowledge



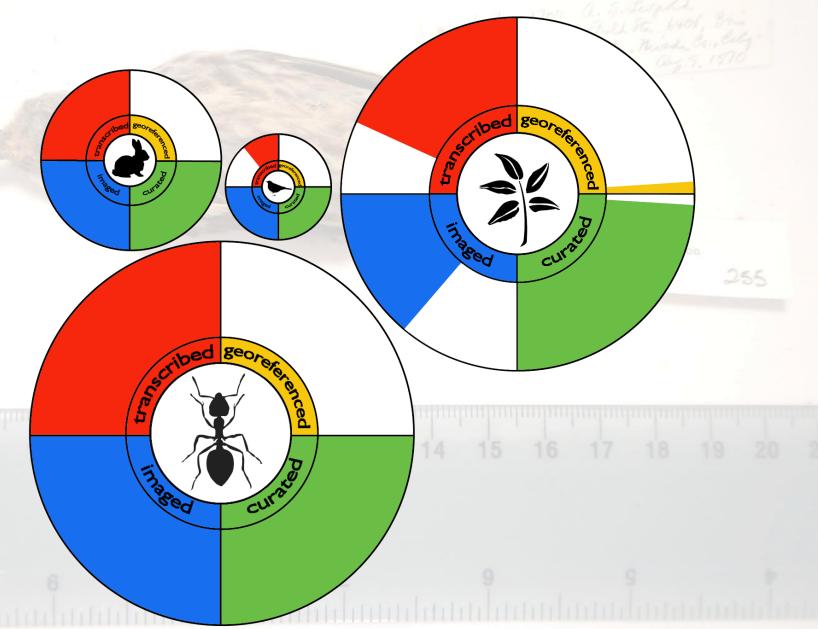
STEP SIX: document your progress as you progress

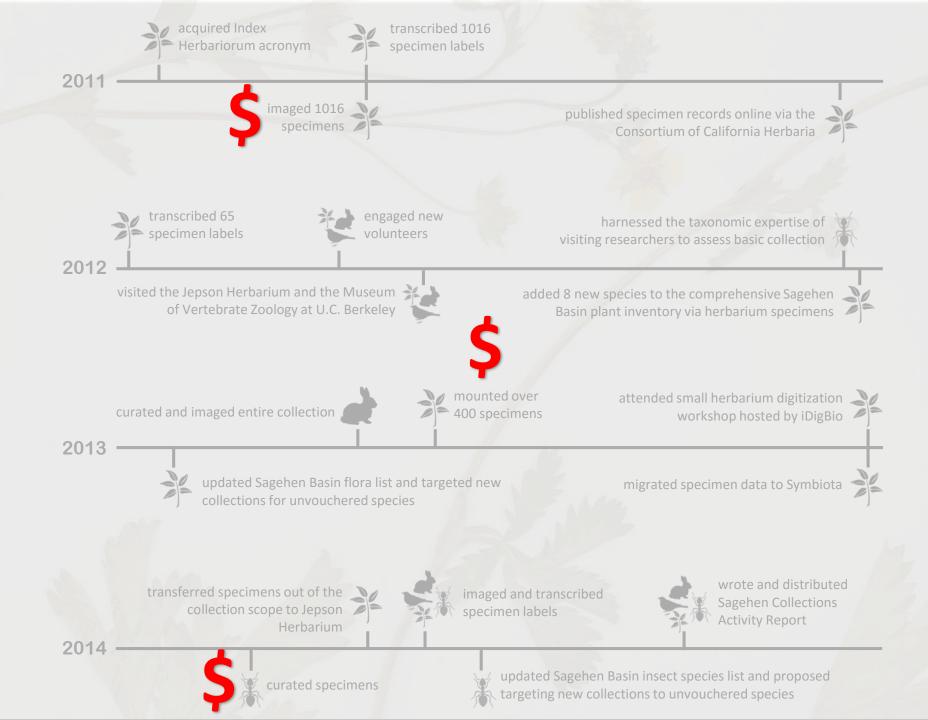
- how many specimens have you curated to be ready for digitization?
- how many specimens have you digitized?
- digitized in what ways? (transcribed, imaged, georeferenced)
- where have you shared your digitized data?
- > what new use of the field station have you noticed because of your newly digitized data?
- what non-quantitative stories should you remember about the success of your digitization project?





#### current status of collections digitization





Hours to scan and transcribe 1016 herbaria sheets

Hours to **publish data online** with the Consortium of California Herbaria

Hours to **photograph** 448 mammal specimens and their labels

Hours to **mount** over 400 specimens

Hours to migrate FileMaker database to Symbiota

STEP SEVEN: set lofty goals once you have a taste of the potential for digitized biodiversity data

**GOAL.** Attract research and facilities use by creating a resource-rich, multi-taxa reference collection for the Sagehen Basin.

- **OBJECTIVE 1**. Finish digitizing all collections.
- **OBJECTIVE 2**. Design and implement a digital asset management plan for digitized collections so that media is easily accessible for use.
- **OBJECTIVE 3**. Aggregate data from other institutions' specimens that were collected in the Sagehen Basin.
- **OBJECTIVE 4**. Develop secondary resources from internal and external digitized collections, e.g. the proposed Sagehen Basin Mammal Portal.
- **OBJECTIVE 5**. Provide access to resources, such as digital collections and physical specimen loans, for local K-12 and visiting higher education groups.
- **OBJECTIVE 6**. Continue to document basin flora and fauna through citizen science efforts in order to create distribution maps for future analysis.

#### thank you!



questions, concerns, or general thoughts about doing more with less:

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