

ECOLOGICAL SITES IN THE NATIONAL COOPERATIVE SOIL SURVEY



LAS VEGAS NV
21 JUNE 2010

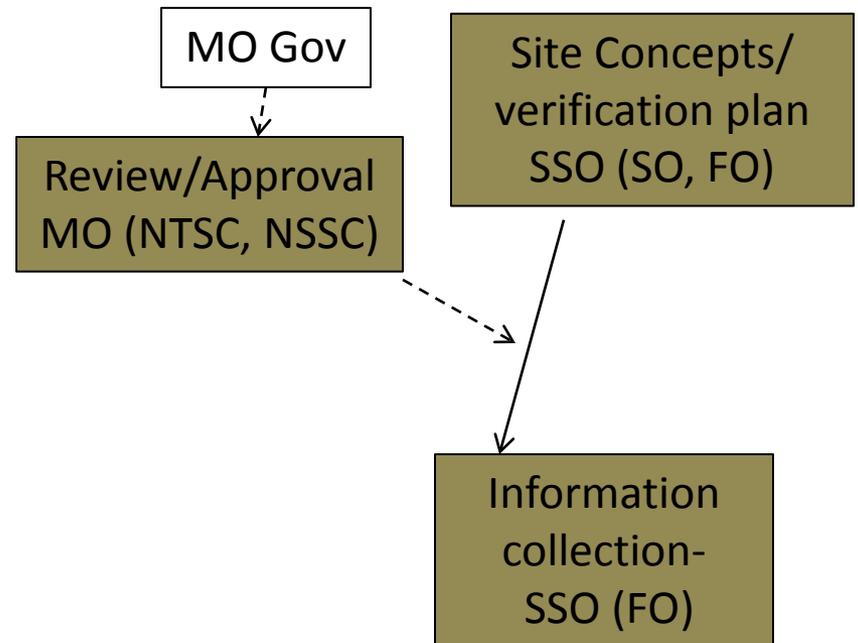
JOEL BROWN
NSSC
and
JORNADA EXPERIMENTAL RANGE

ECOLOGICAL SITE INFORMATION WORKFLOW

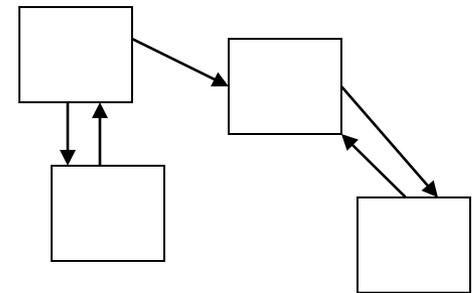
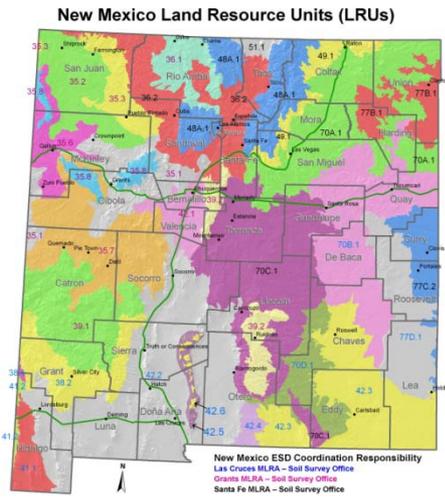
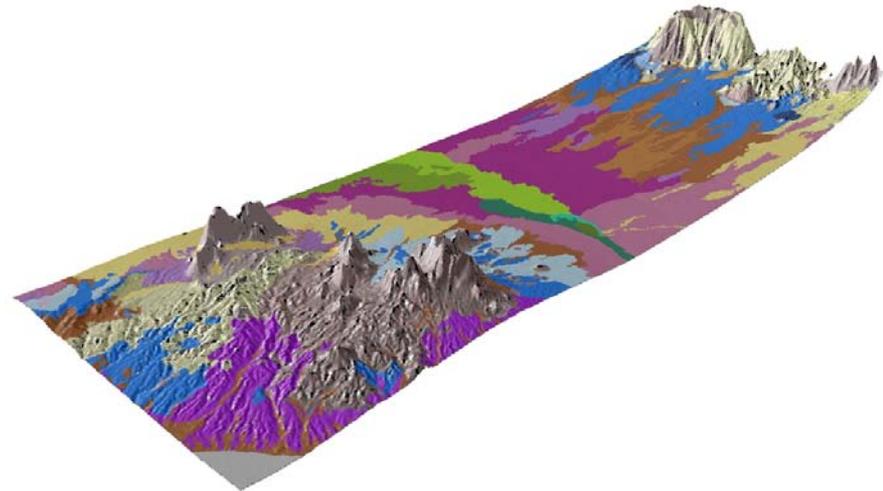
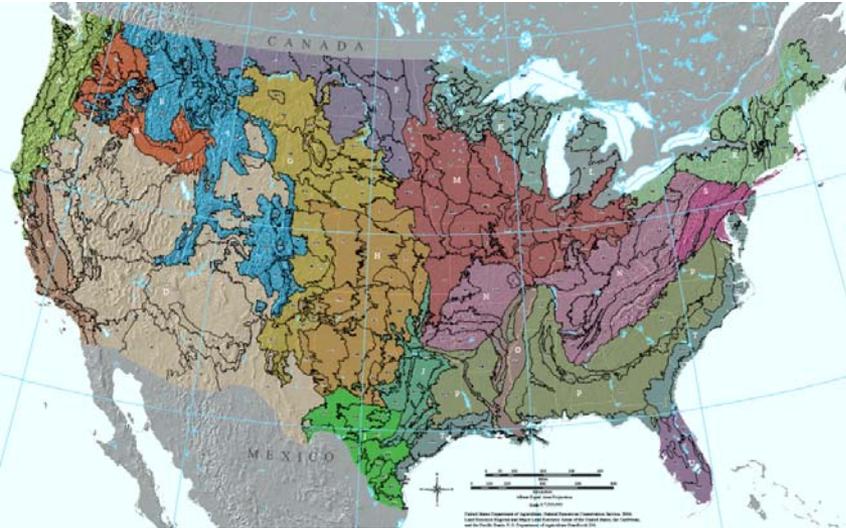
- SITE CONCEPTS AND WORKPLAN
- DRAFT SITES AND DESCRIPTIONS
- FINAL CORRELATION
- DATABASE MANAGEMENT
- NSSC and NTSC SUPPORT

ECOLOGICAL SITE INFORMATION WORKFLOW

SITE CONCEPTS AND INFORMATION COLLECTION



SITE CONCEPTS AND WORKPLAN HIERARCHICAL APPROACH



Three tiers of data support

from Bestelmeyer et al 2008

Tier 1: Low-intensity, extensive survey (traverse)

- Extensive data on relationships among states, soil taxa, landforms, climate, and land-uses across the MLRA or LRU (15-30 minutes/point).
- Concept development, hypothesis development, soil-site (state) correlation

Tier 2: Medium-intensity inventory (transecting or stratified inventory)

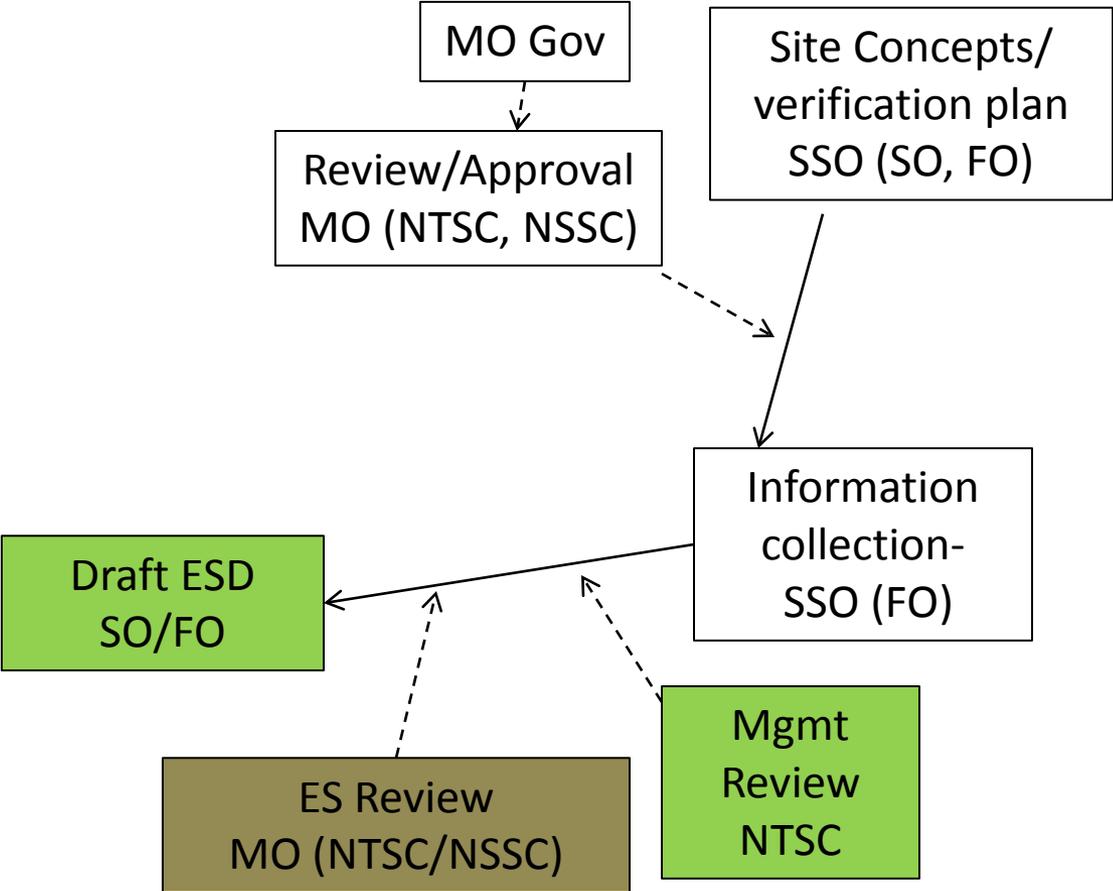
- Quantitative descriptions of vegetation and soils at stratified-random points (2-3 hours/point)
- Statistical relationships between the properties of states and soils/landforms

Tier 3: High intensity characterization

- Detailed quantification of vegetation, dynamic soil properties, and soil profile properties for representatives of alternative states, particularly the reference state. (1+ days/point)
- Integrated properties of states and tests of mechanisms postulated in STMs

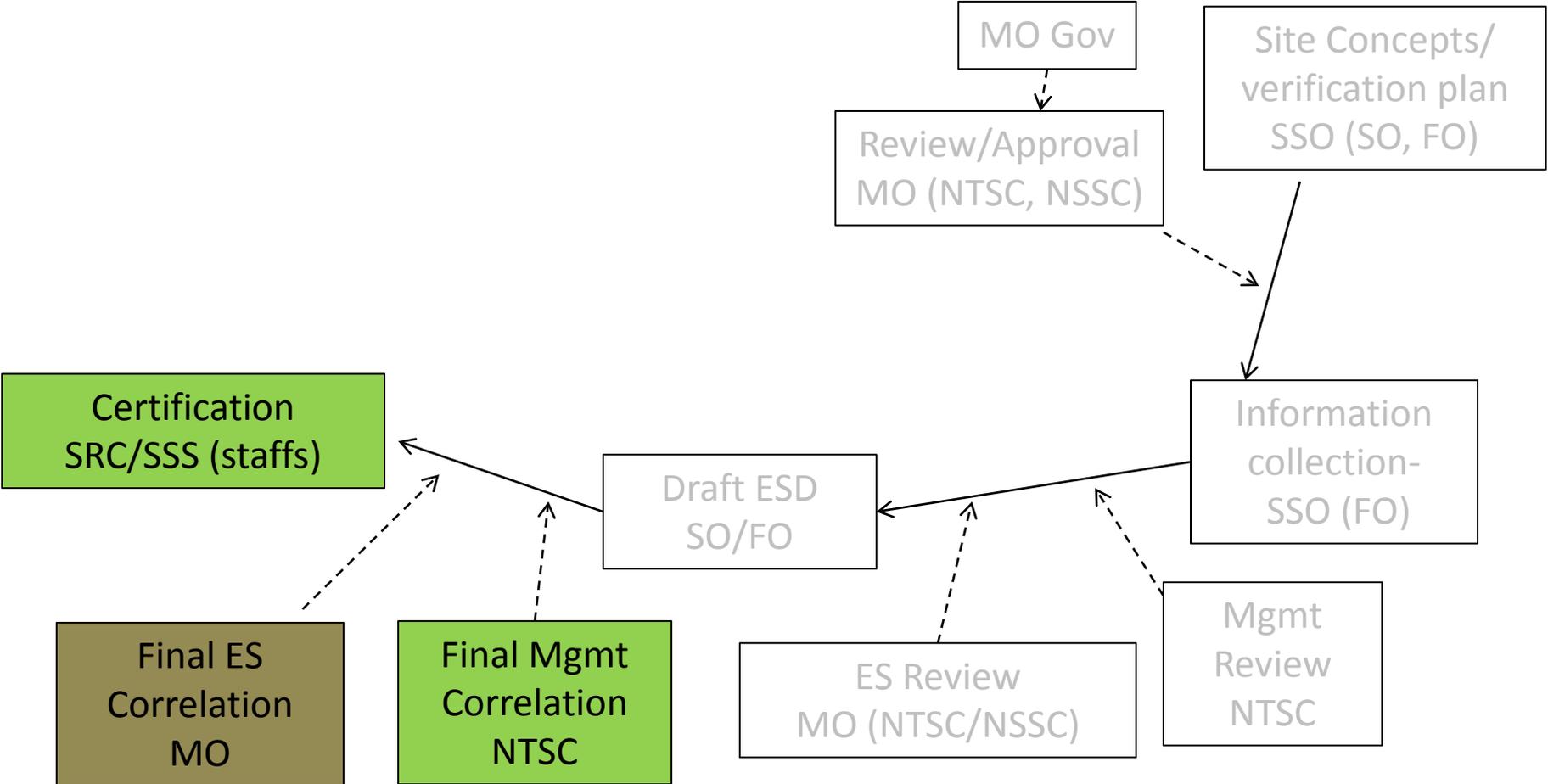
ECOLOGICAL SITE INFORMATION WORKFLOW

DRAFT SITE CONCEPTS AND DESCRIPTION

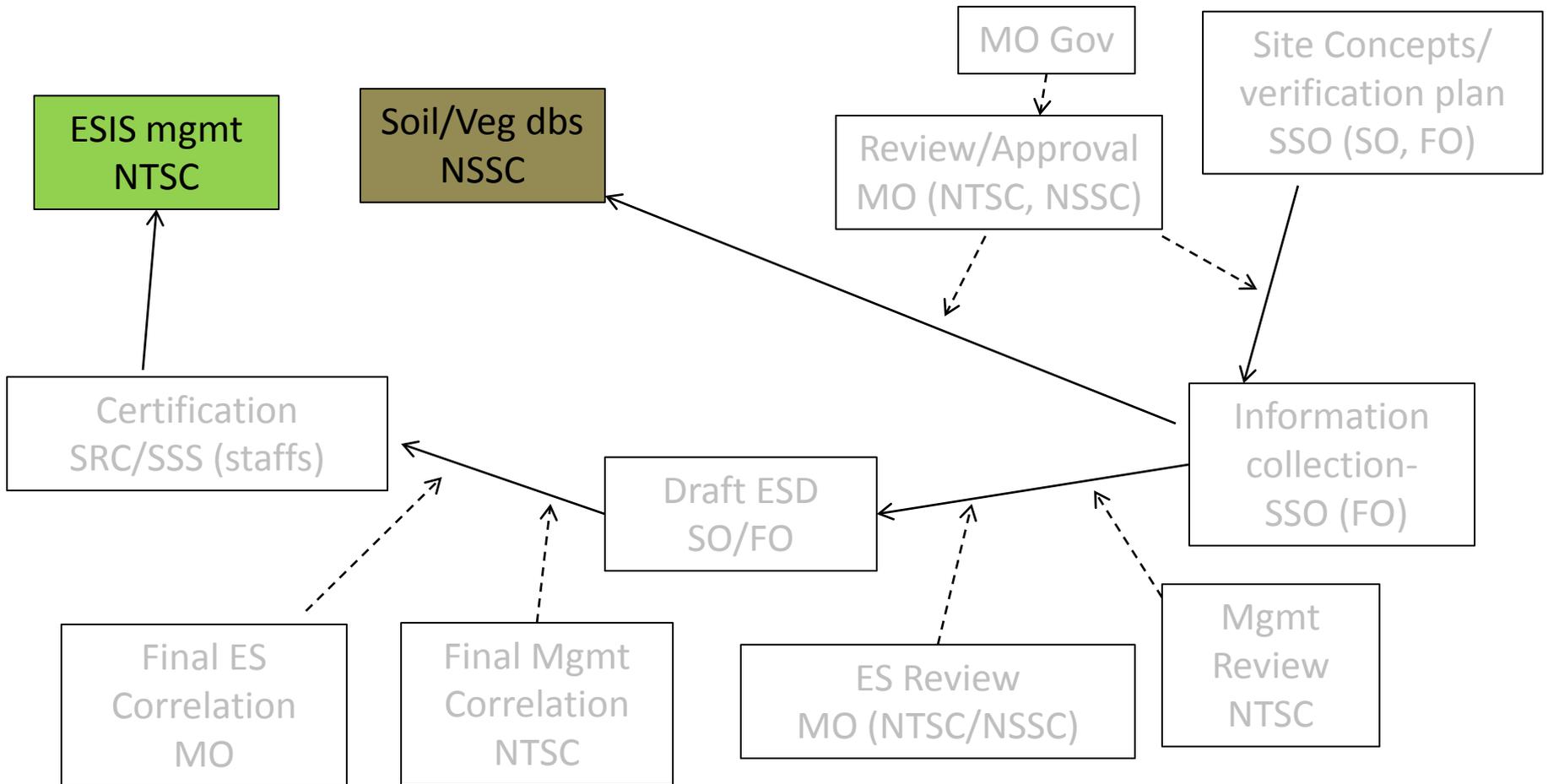


ECOLOGICAL SITE INFORMATION WORKFLOW

FINAL CORRELATION

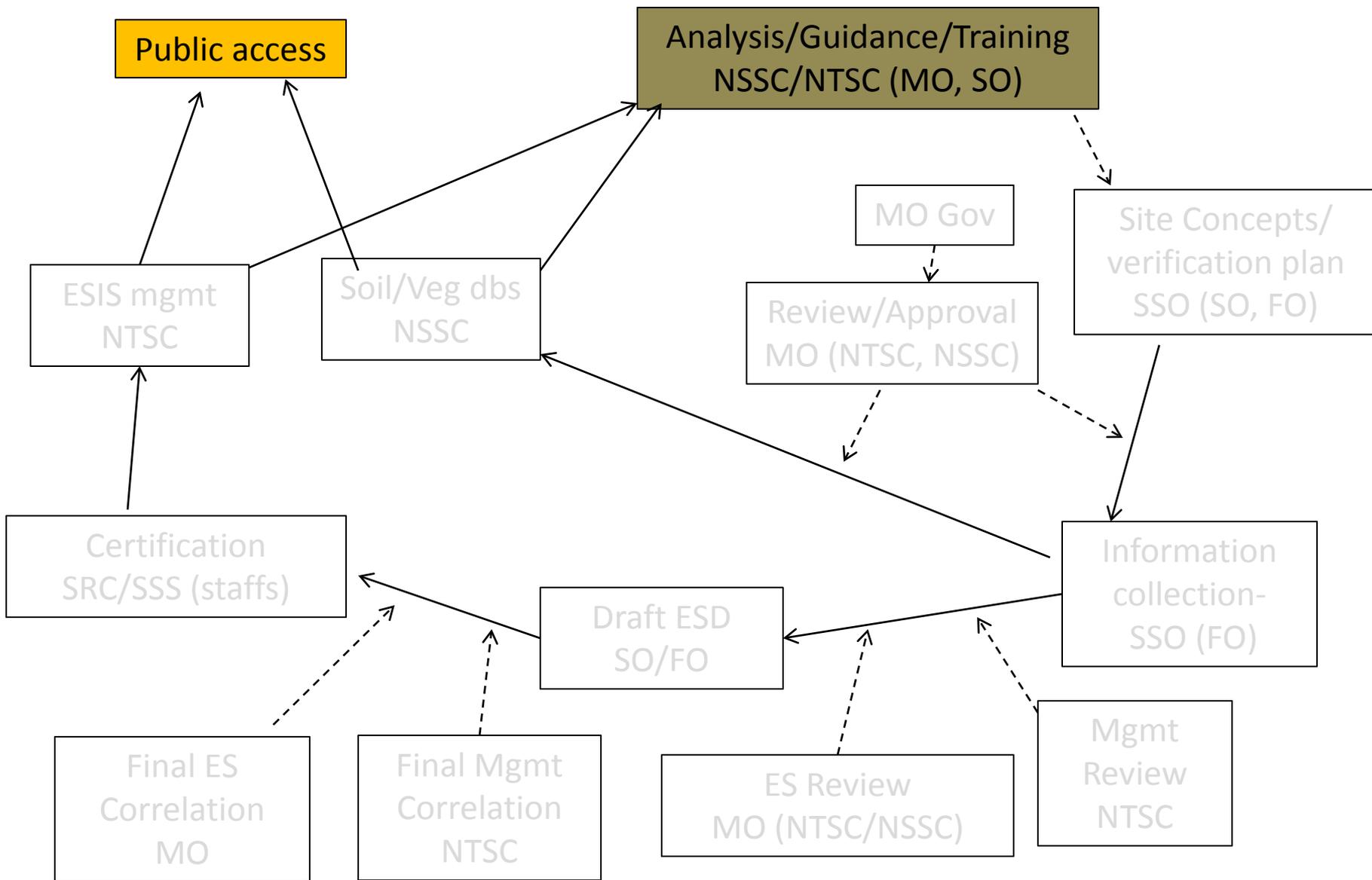


ECOLOGICAL SITE INFORMATION WORKFLOW DATABASE MANAGEMENT



ECOLOGICAL SITE INFORMATION WORKFLOW

NSSC and NTSC SUPPORT



ECOLOGICAL SITE INFORMATION WORKFLOW SUMMARY

- CURRENT SITES ARE A GOOD BASIS FOR START, BUT REQUIRE VERIFICATION
- ECOLOGICAL SITE INVENTORY AND ECOLOGICAL SITE DESCRIPTIONS ARE TWO DISTINCT, BUT COMPLEMENTARY AND INTERACTING PROCESSES
- QUALITY CONTROL IS THE PROVINCE OF THE SSOs
- QUALITY ASSURANCE IS THE PROVINCE OF THE MOs