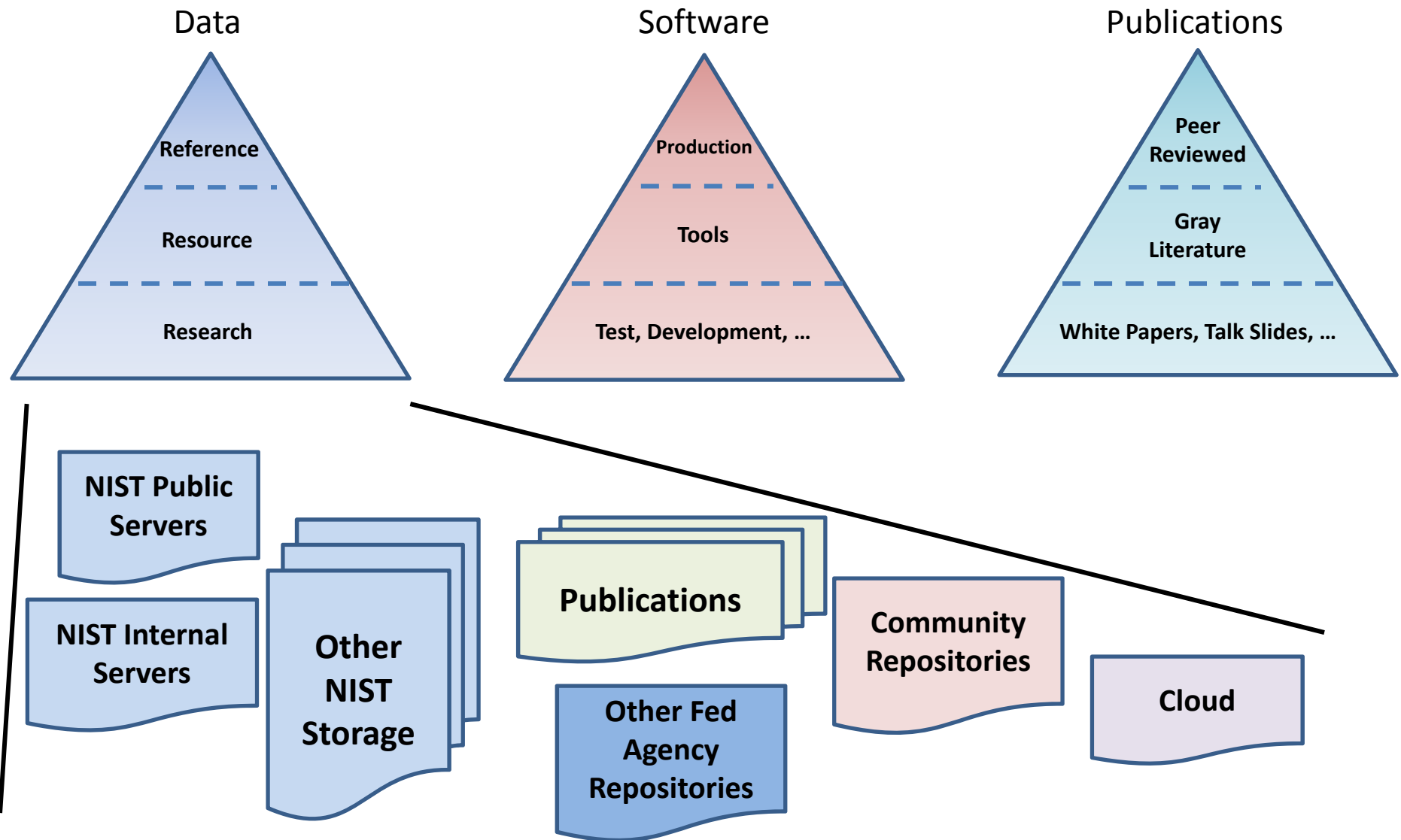


Data Access Reference Implementation

Common Access Platform

NIST Draft Plan

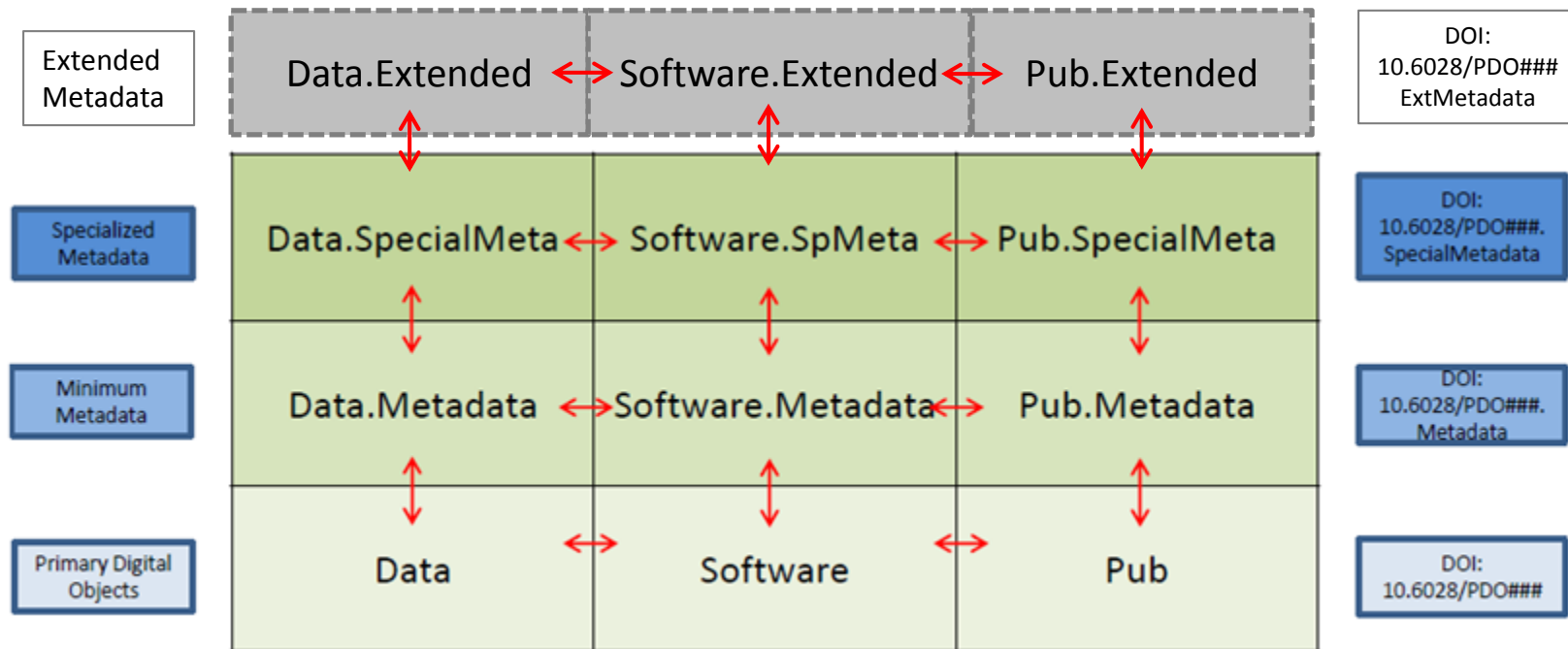
Conceptual Model: Problem Space



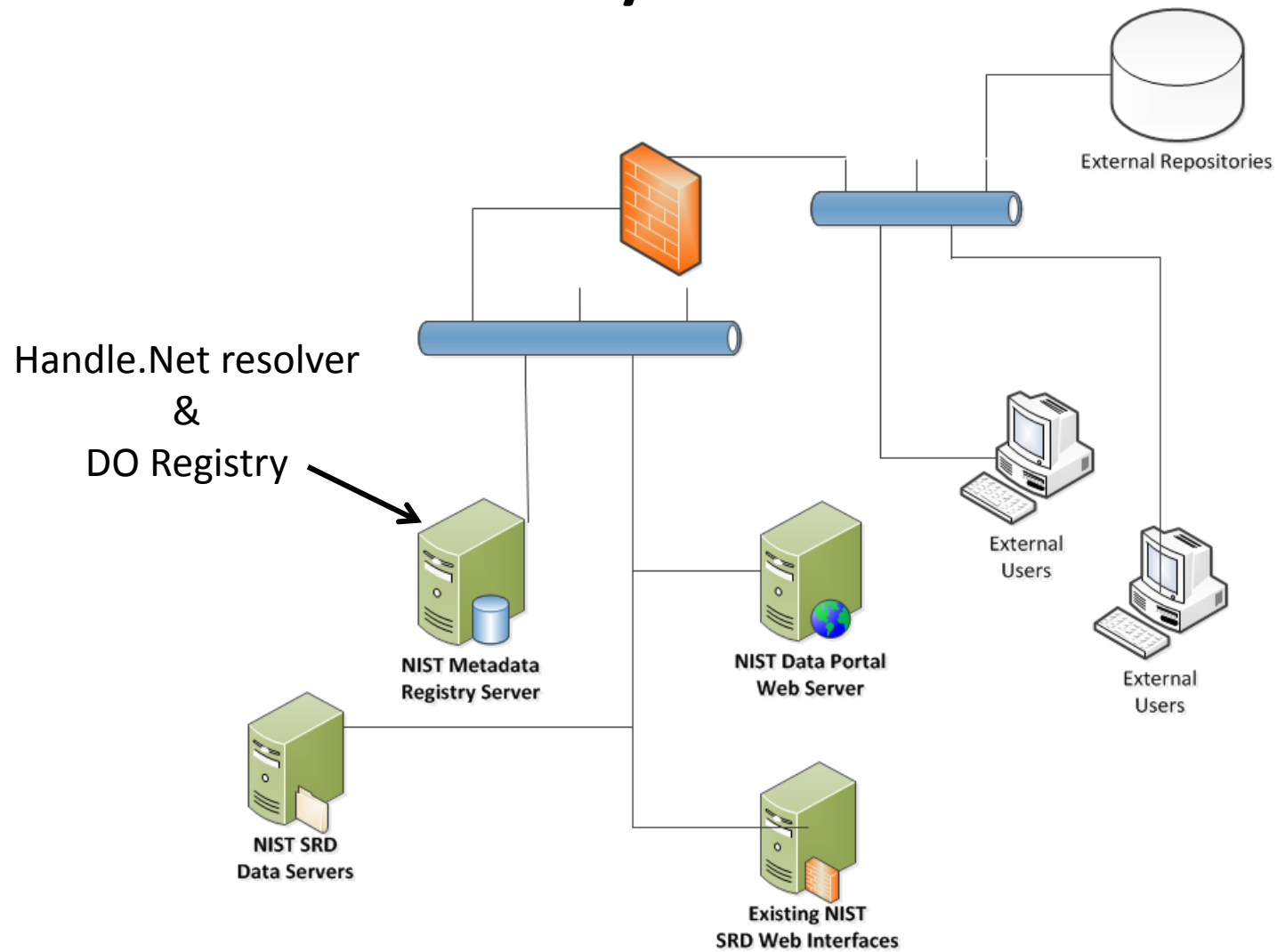
Conceptual Model: Solution Properties

1. it should work with 3rd party repositories (goal 2)
2. it should enable search engines to access metadata for NIST data
 - a. this will aid in data discovery (goal 2, goal 4)
3. it should specifically support the metadata mandated by OMB
 - a. OMB Common Core (9 fields, req'd for every entry)
 - b. OMB Required If Applicable (7 fields, req'd if applicable)
 - c. OMB Extended (Dublin Core, FGDC, ISO 19115, NIEM, custom,...)
 - d. OMB Expanded Fields (11 fields + custom agency additions)
4. it should support multiple types of metadata
 - a. a minimal set of metadata shared by all entries
 - b. specialized (e.g. discipline-specific) metadata
 - c. contextual metadata (e.g. Relational, provenance, etc.)
 - d. other ... (extensible)
5. it should support PIDs for: (goal 3 and goal 4)
 - a. data
 - b. services
 - c. metadata

Logical Model (PIDs)



Physical Model



Timeline

- Now: Identify interested agency partners, form interagency Technical Advisory Group (iTAG)
- Sep.: First meeting of iTag
- Oct. – Feb.: Regular meetings of iTAG with design/implementation team
- Mar.: Operational demo

- Contacts:
 - Chris.greer@nist.gov
 - Wo.chang@nist.gov