

# Summary of Dialogue on Coordination of U.S. Standards

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## What are the near-term needs for Additive Manufacturing standards?

- We need to fill in the gaps before we tackle about overlap
- Standards are needed for:
  - Powder/feedstock/testing methods
  - Recycling materials
  - Technical data packages - file formats
    - Design intent
    - Models for different process stages
  - Machines and operators
  - In-process sensing
  - Post processing
    - Non-destructive/destructive inspections
    - Heat treatments/HIP
    - Surface finishing
  - Repair
  - Safety
  - Modeling and simulation, verification and validation
- How to get A and B basis values for material data
- How to give the public access to government data
- Co-locate standards meetings (same place, same time)
- **Naming convention for materials-** feedstock and finished/treated parts i.e.UNS

## How do we move forward in U.S. Standards in Additive Manufacturing?

- 5 Step Process
  1. Establish an agreed upon list of hierarchy/structure for categories of standards
  2. Populate the hierarchy/structure with detailed focus areas
  3. Map onto this structure who is doing what right now, who normally does it, and what are the industry expectations
  4. Create a draft document mapping SDOs to standards considering redundancy and fall back positions
    1. The scopes of all the committees and sub-committees reflect the hierarchy
  5. Vet through America Makes/NIST with SDO group leads and industry reps
- We can't overlook the business interests of the SDOs
- People must be willing to move around to the SDO taking care of their area of interest

## Who is currently developing various facets of Additive Manufacturing standards?

- America Makes will gather and meet with SDO's at another time to figure out who will cover what standards or how to harmonize concurrent efforts

## Conclusions