The National Education Data Model (NEDM) Overview
Creating an open framework for P-20 education data systems based on existing standards.
What is NEDM?

- The National Education Data Model is a catalog of standardized core data sets created for the U.S. Department of Education in collaboration with early childhood, K-12, and postsecondary partners.

- NEDM Documents:
  - Existing data definitions
  - Coding strategies
  - Data element standards
  - Best practices
Why NEDM?

1. So education data systems don’t have to be designed from scratch.
2. So education databases can talk with each other.
3. So education information systems are compatible with existing definitions, practices, and reporting requirements.
4. So education information systems support our processes and inform their improvement.
Why Now?

- Significant investments are being made in education that are tied to improving educational outcomes and processes.
- We cannot measurably improve educational outcomes without robust information systems that can evaluate processes and track outcomes.
- The time is now to break down silos:
  - Common definitions and classifications
  - Reduced redundancy
  - Improved accuracy
  - Interoperability
  - Relevant standards and practices (SIFA, PESC, SCORM, federal reports, etc.)
NEDM is NOT...

• Responsible for telling districts or states how they should be administering their schools and education systems

• A model that dictates what physical design districts and state should be using for housing data
Uses

- National Level
  - Improves research
  - Informs policy makers
  - Connects data dots

- State Level
  - Provides decision makers with quality data
  - Enables better evaluation for policy makers

- School Level
  - Makes local decision making easier
  - Provides reliable information for student success.
The image at right depicts how a user would set about utilizing the NEDM.
NEDM Views

NEDM Entities
- Handbooks
- SIF
- PESC
- DQC

Logical Models
- Teaching and Learning
- User Perspectives

NEDM Aggregates
- EdFacts
- NCES Indicators
- Federal Reports

Functions and Processes
- 6 Function Areas
- Process Maps
NEDM Process Structure

Business Area

Teaching and Learning

School Administration

Process

Develop Curriculum

Plan Instruction

Logical Model

Teacher-Course-Student

Course-Unit-Lesson
Stimulus

- NEDM appeals to education as electronic health records appeals to the healthcare industry

- By digitizing education information and making it viewable in a consistent manner it is a high performance way for education officials to spend their ARRA dollars

- State use of the $4.35B Race to the top fund will be a primary method of funding improved data systems
Where Can I Find Out More?

http://nces.ed.gov/forum/datamodel/

Working site:

http://nedm.sifassociation.org/datamodel_review/

hugh.walkup@ed.gov