**Project:** Assessing Teacher Learning About Science Teaching (ATLAST)

**Type:** MSP RETA

**Lead Institution:** Horizon Research, Inc.

**Core Partner:** Project 2061 (AAAS)

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Implicit Theory of P.D.
(guides P.D. but is as yet untested)
Goals of ATLAST

• Create and validate instruments to measure each component of the theory
• Codify procedures for creating instruments
• Provide T.A. to MSPs on using the instruments
• Disseminate instruments
Content Areas

- Force and motion
- Processes that shape the Earth
- Flow of matter and energy in living systems
Instruments

- Teacher opportunity to learn (TOTL) instruments
- Teacher science content knowledge (SCK) assessment
- Teacher pedagogical content knowledge (PCK) assessment
- Student opportunity to learn (SOTL) instruments
  - Curriculum materials analysis
  - Classroom observation protocol
  - Teacher interview
  - Teacher log
- Student science content knowledge assessment
Technical Assistance

- Invited conference for 15 MSP PIs and evaluators in Year 3
- One-on-one TA with same 15 MSPs in Years 4 and 5
- Web-based handbook for instrument use
Dissemination

• Invited conference in Year 5
• Summer interns from CLTs beginning in Year 3
• Journal articles, papers, and workshops
• Project website
Connections to MSP Key Features
Evidence-based designs and outcomes

• ATLAST will produce tools that MSPs can use to document quantitatively the outcomes of P.D.
• Data can be used in designing and revising P.D. approaches
Teacher Quality

ATLAST will create tools that can be used by MSPs to assess teacher quality in terms of science content knowledge, pedagogical content knowledge, and classroom instruction.
ATLAST

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