



Montana

Office of Public Instruction

Montana Science Assessment

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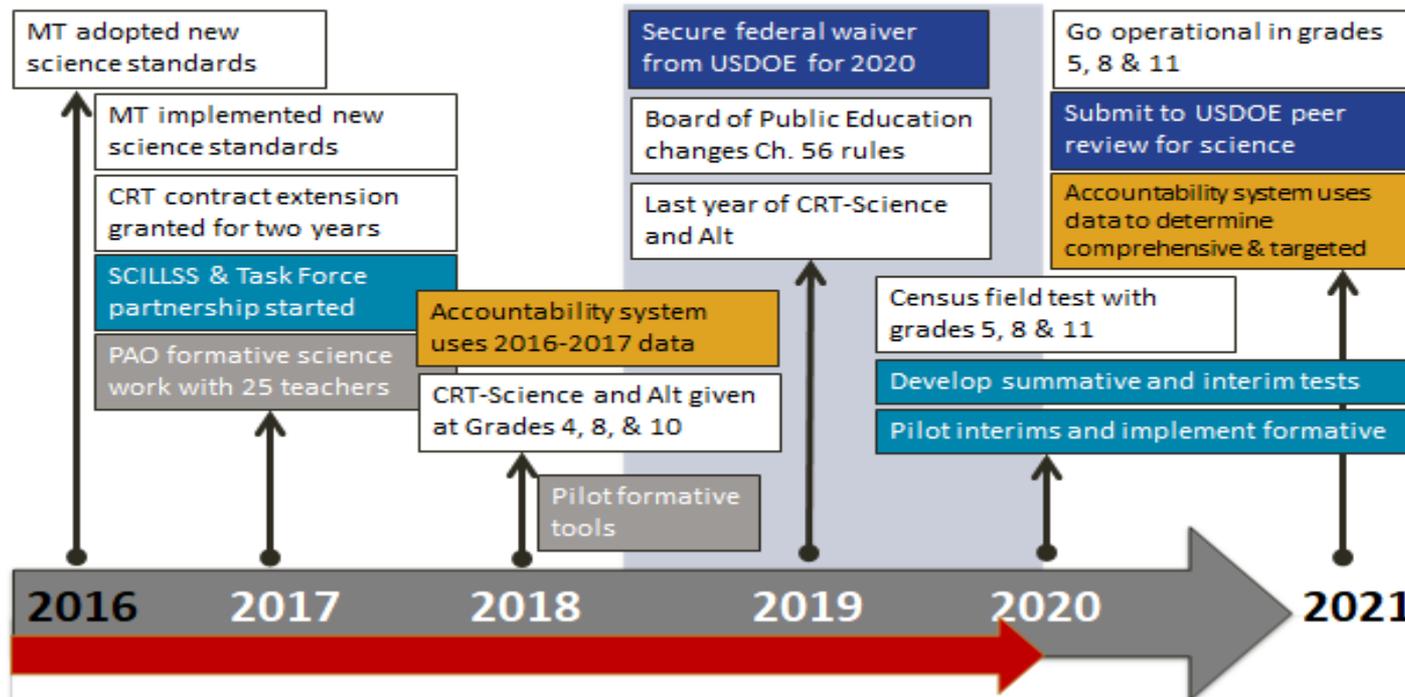
Montana Science Assessment

Presentation Overview

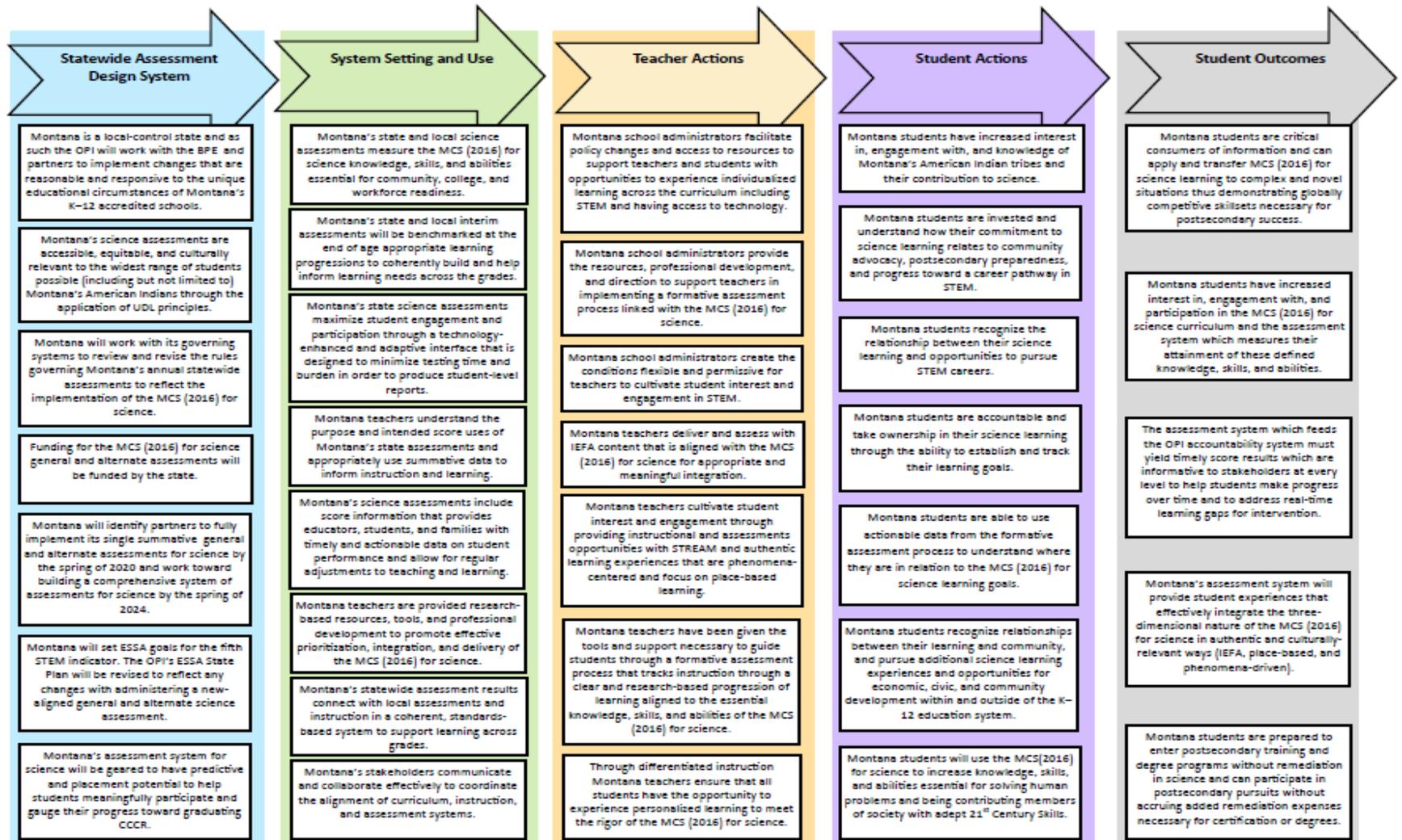
- Student-Centered Assessment
- MSA Development
- MSA Practice Items
- Resources & Classroom Activities

Montana Science Assessment

SCIENCE TRANSITION



Theory of Action for Science





TOA: Student Outcomes

- critical consumers of information, apply science to new and complex situations
- increased interest, engagement, participation in MCS
- use assessment to inform learning
- 3-D, authentic, culturally relevant
 - IEFA, place-based, phenomena-driven
- college and career ready



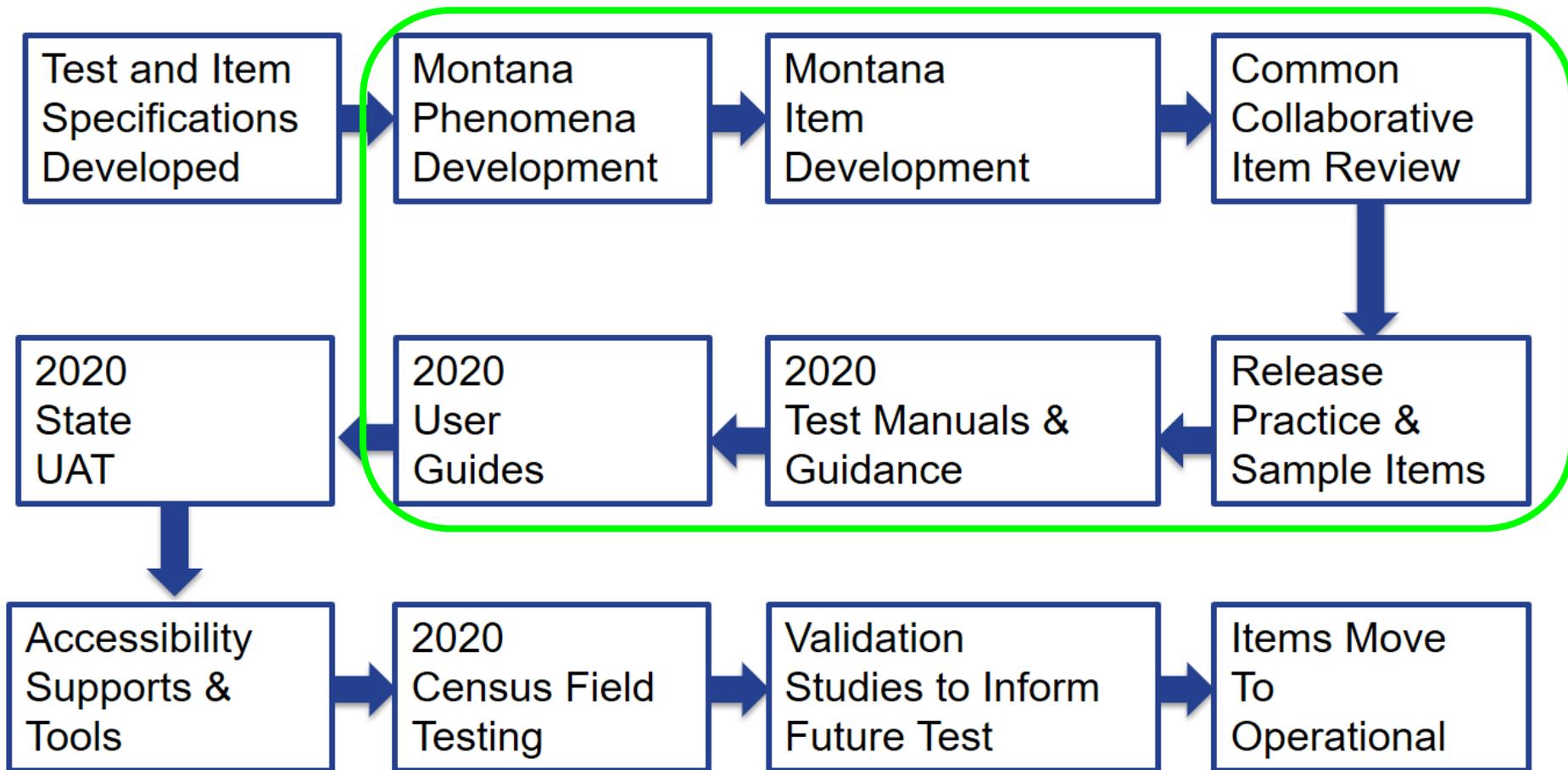
Student-Centered Assessment

Formative Assessment

VS.

Summative Assessment
(MSA)

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Test Specifications

- 6-7 clusters
- 12-17 stand-alone items
- Computer-Adaptive Test (2021)
- No Performance Task
- 80-120 minutes (avg. 90)
- field test items



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Item Specifications:

- Clusters
 - cover 3 dimensions
- Stand-alone items
 - cover 2-3 dimensions

Use NGSS:

- PEs
 - (modified for MT as needed)
- Clarification Statements
- DCIs, SEPs, CCCs

Add:

- phenomena (MT specific)
- Task Demands
 - based on NGSS Evidence Statements
- vocabulary guidance



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- Multi-Part Items
- Multiple Select
- Edit Task/Inline Choice
- Table Interactions
- Grid Interactions
- Simulations
- Graphs



MSA Practice Items

Provides exposure:

- Online mode
- Standards Alignment
- Rigor
- Interaction Types



Explore the MSA Practice Items

- Go to Student Login
- Start Grade 8 test.
- Review item 1.
 - interaction type
 - standards alignment
 - classroom support



Explore the MSA Practice Items

- Work in small groups.
- Review item 2.
 - interaction type
 - standards alignment
 - classroom support



Wrap Up

- Session Evaluation

Questions?

Montana Office of Public Instruction

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