

NEGOTIATED RULEMAKING COMMITTEE

Computer Science, Library
Media/Information Literacy, and
Technology Integration

Content Standards Revision

December 5, 2019

Putting Montana Students First **A+**



PUBLIC MEETING

All comments received become part of the official public record of the Negotiated Rulemaking Committee proceedings in accordance with MCA 2-3-212.

This meeting is being recorded and streamed via MPAN.

Please use the microphone whenever you are speaking.

Remote participants are joining this meeting via conference call.

MEETING AGENDA

 House Keeping and Introductions

 Call to Order

 Confirm Facilitator

 Establish Committee Membership

 Roles, Responsibilities, Process

 Committee's Consensus Definition

 OPI Background & Context for Rule Change

 Proposed Rule Changes

 Economic Impact Survey Questionnaire

 Negotiated Rulemaking Timeline

 Public Comment

 Adjourn

HOUSEKEEPING

-  Restrooms and Breaks
-  Connectivity Check/ Device Setup
-  Committee Agenda Packet
-  Lunch break at 12 p.m.
-  Work Session concludes at 4 p.m.

INTRODUCTIONS



CALL TO ORDER



FACILITATOR CONFIRMATION

Role

- Preside at the meetings of the Committee in an impartial manner
- Impartially assist the members of the Committee in conducting discussions and negotiations and achieving consensus
- Manage the keeping of minutes and records

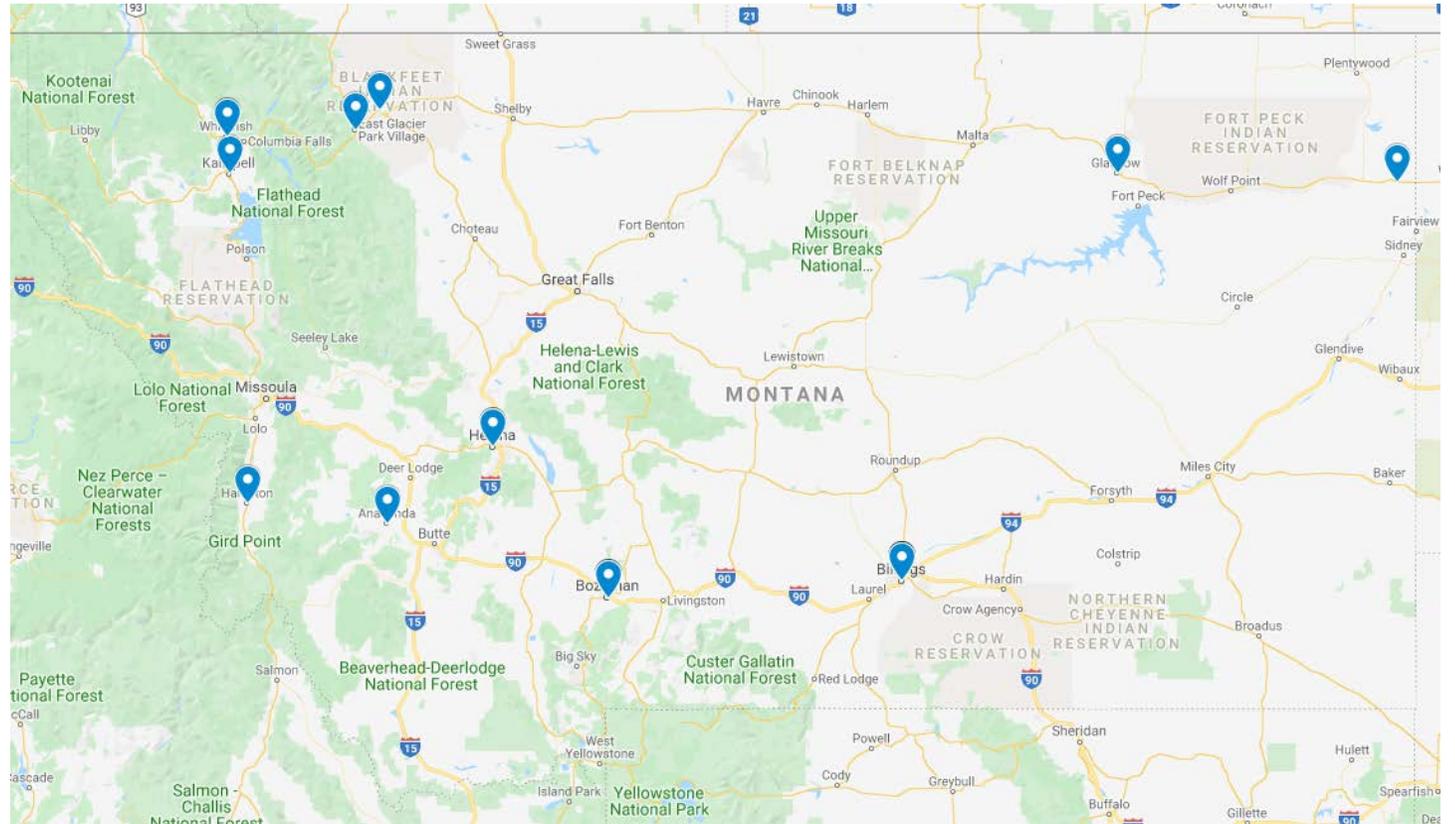
Kirsten Madsen

- Assistant Attorney General
- Agency Legal Services Bureau

COMMITTEE MEMBERS

The committee must represent the diverse circumstances of schools of all sizes across the state and must include representatives from the following groups:

- school district trustees
- school administrators
- teachers
- school business officials
- parents
- taxpayers



ROLES AND RESPONSIBILITIES

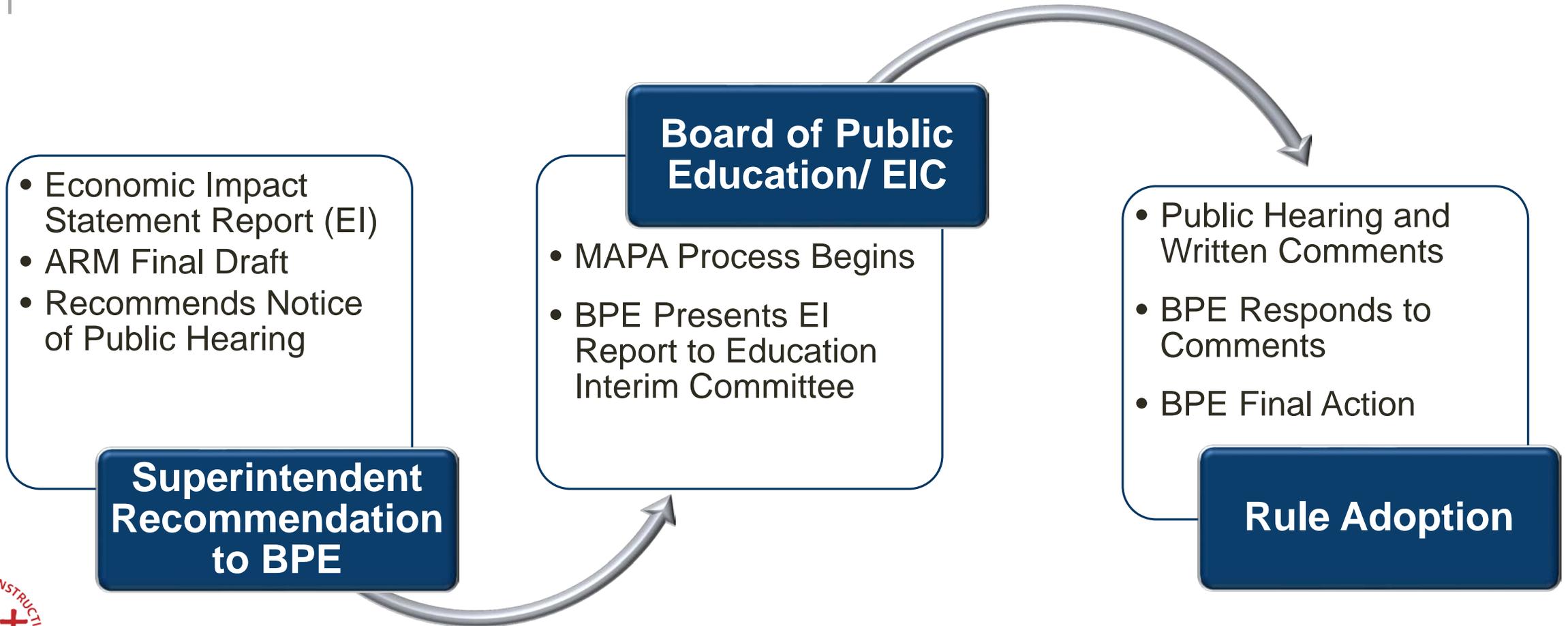
Committee Members

- review drafts prepared by the revision team to provide feedback and a recommendation to the Superintendent on the draft
- assist in determining the economic impact of the draft

OPI and BPE Staff

- support the work of the committee

NEGOTIATED RULEMAKING PROCESS



PROCESS

Where are WE?

Montana Constitution

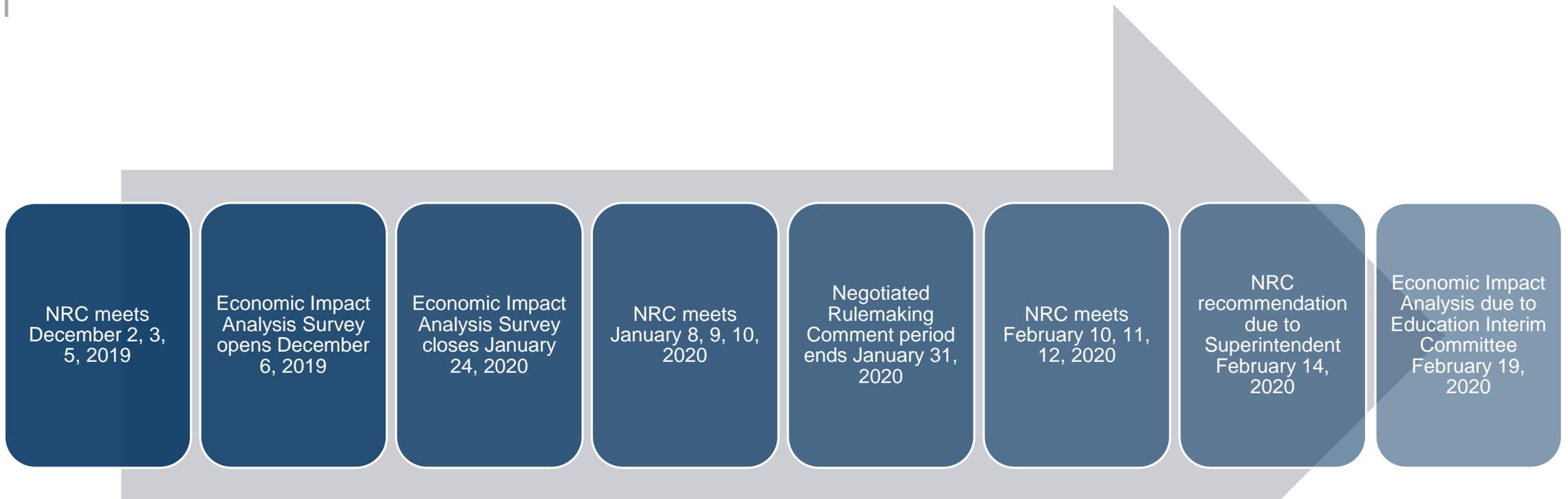
Montana Code Annotated (Legislature)

★ Administrative Rules of Montana (OPI → NR Committee → OPI → BPE)

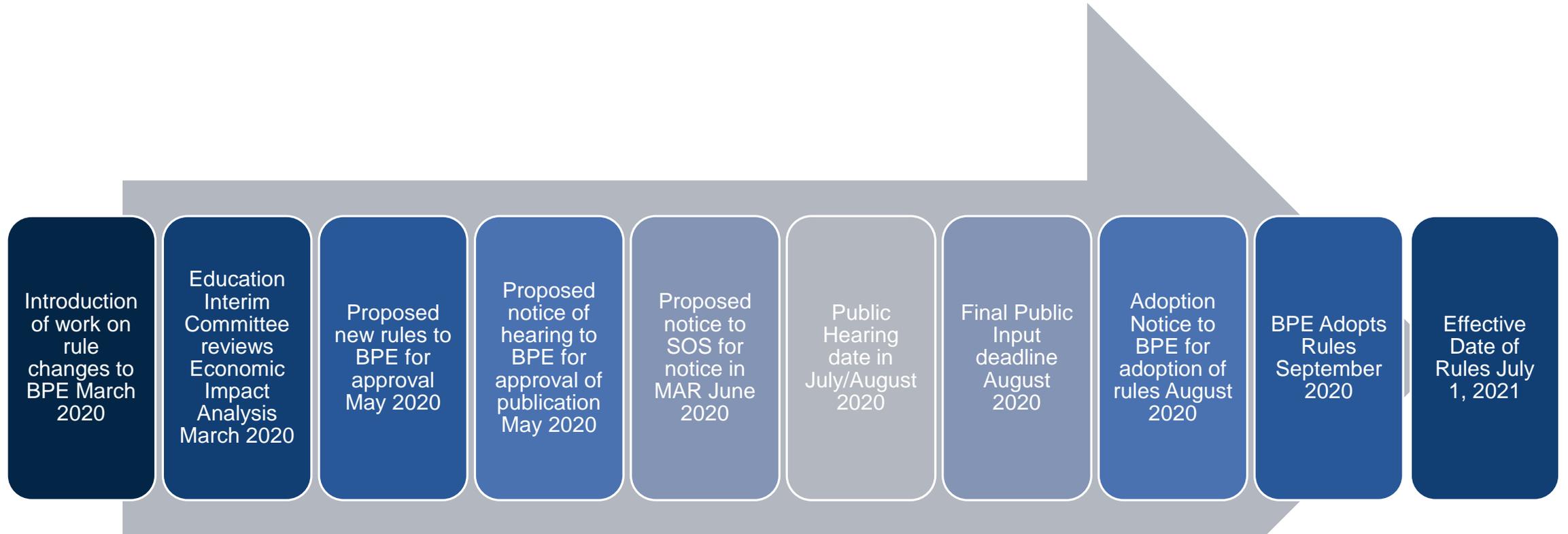
Policy (School Trustees)

Procedure (School Administrator)

NRC PROPOSED TIMELINE



MAPA PROPOSED TIMELINE



BACKGROUND AND CONTEXT FOR RULE CHANGE

The Board of Public Education sets forth the following guidelines for content standards revision:

- Standards will define what all students should know and be able to do;
- Standards will be challenging and rigorous;
- Standards will be clear, understandable, and free of jargon;
- Standards will be measurable;
- Standards will address diversity, specifically fulfilling the commitment to implementing Indian Education for All;
- Standards will be consistent with the grade level and grade band structures in ARM Chapter 53; and
- Content standards will be consistent with the program delivery standards described in ARM Chapter 55.

BACKGROUND AND CONTEXT FOR RULE CHANGE

With the purpose of engaging in a transparent and inclusive process, the Board of Public Education sets forth the following considerations for the Office of Public Instruction to incorporate when recommending standards revision:

- comments and recommendations from the Montana public;
- international, national, and other states' standards;
- implications for program delivery standards (ARM Chapter 55) and licensure standards (ARM Chapter 57);
- implications for local and state assessments;
- entrance expectations for the workplace and post-secondary education;
- student achievement and other related data;
- other evidence-based practices and research on standards and learning expectations from regional, national, and international professional education organizations;
- comments from Montana's professional education associations;
- comments from tribal and school district educators;
- comments from Montana's institutions of higher education and the Office of the Commissioner of Higher Education; and
- recommendations from the Montana Advisory Council for Indian Education and Certification Standards and Practices Advisory Council.

BACKGROUND AND CONTEXT FOR NEW COMPUTER SCIENCE RULES

Computer science skills are necessary for college and career readiness

- Today's and tomorrow's jobs require computational thinking, programming, and problem solving skills

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

Progression of skills and content from K-12

BACKGROUND AND CONTEXT FOR RULE CHANGE

Current Library Media/Information Literacy content standards were adopted in 2008

- Program delivery standards (Ch 55) were not updated in 2008

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

Emphasis on the skills students need to be information literate in any information or problem solving environment

BACKGROUND AND CONTEXT FOR RULE CHANGE

Current technology content standards were adopted in 2008

- Program delivery standards (Ch 55) were not proposed or adopted

Organized by grade level for K-5 and by grade band for 6-8 and 9-12

- Grade level standards for K-5 clarify learning expectations for elementary teachers who teach in all content areas
- Grade band standards for 6-8 and 9-12 clarify expectations and allow for flexibility of program delivery

Integration of Indian Education for All

Emphasis on technology integration across content and contexts

DIGGING IN

Review and Consensus Process



Computer Science is not an "add on" ~~to~~ to our current courses but integrated in a way that all teachers can feel empowered to implement and see the importance. Does not need to be only with math/science. can be more!

Evolve tech standards to include computational thinking, global learning, digital citizenship, and source evaluation.
-Revision Process

Relevant inclusion of I&EA
+
What knowledge, skills resources do teachers need to meet the standards

PROPOSED RULE CHANGES



A thumb held up indicates that I understand and am in agreement with the proposal.



A thumb held sideways indicates that I do not understand the proposal.



A thumb held down indicates that I understand and do not agree with the proposal.

DRAFT PROPOSALS

Content
Standards

- ARM Chapter 53 and 54

Program Delivery
Standards

- ARM Chapter 55

ECONOMIC IMPACT SURVEY

Review template

- Additions?
- Clarification?

Next steps

- Sent to school administrators, business officials, and other interested parties via online survey

WRAP UP FOR COMMITTEE

Next Meeting:

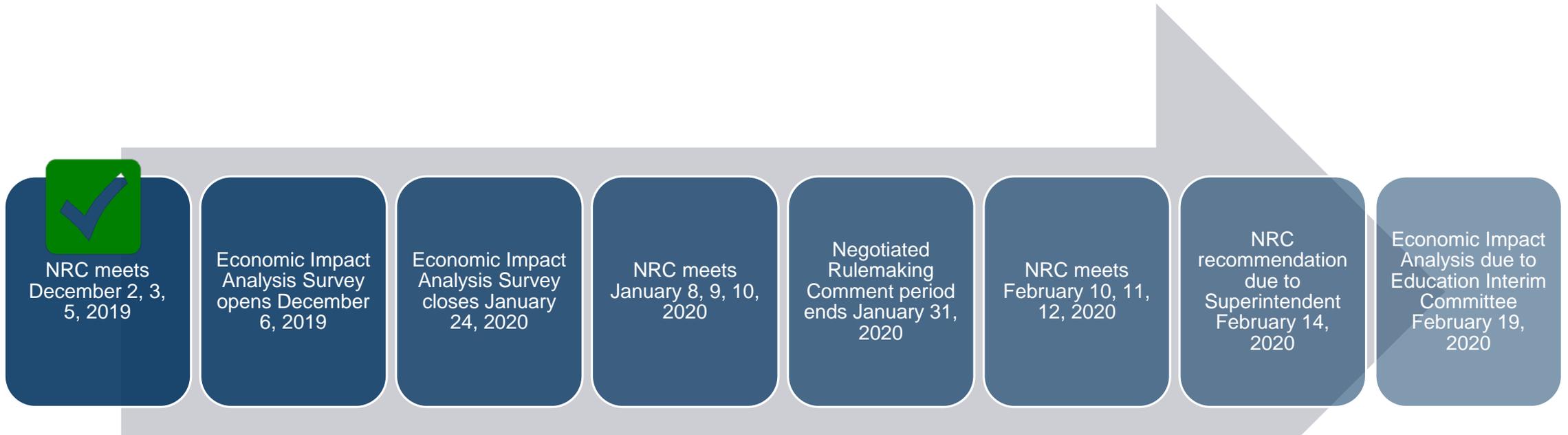
January 10, 2020

Hearing Room 152, Capitol Building

Helena, Montana

10:00 a.m. to 4:00 p.m.

NRC PROPOSED TIMELINE



PUBLIC COMMENT

Please introduce yourself and spell your last name.

If you are speaking on behalf of an organization, identify the organization and your association with the organization.

KIRSTEN MADSEN

FACILITATOR

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ADJOURN

**Thank you for your commitment
to Montana Education.**

Safe Travels!