MedBiquitous Program Updates

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Agenda

- Welcome and Overview
- Program Updates
  - Standards and Guidelines
  - Community Engagement
  - Innovation
- Working Group Reports
- Accomplishments & What's Next
- Ways to Engage & Upcoming Events

Mission

The MedBiquitous Program establishes a **common language**, understood by both people and machines, that **enables data- and resource-sharing** across organizations in **health professions education and credentialing**. This common language creates an **infrastructure** that supports education administration, quality improvement, research, and lifelong learning.

*MedBiquitous is the standards program of the AAMC.*

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THE STANDARDS PROGRAM OF THE AAMC

The MedBiquitous® Program provides the health professions education (HPE) and credentialing community with a centralized and reliable source for guidelines, best practices, and collaborative efforts focused on data and technological advancement.

The program is built upon three key pillars: community engagement, innovation, and standards and guidelines. These pillars create a solid foundation that supports community-driven initiatives aimed at addressing challenges and fostering innovation within HPE.

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THE STANDARDS PROGRAM OF THE AAMC

STRATEGIC INITIATIVES

STANDARDS & GUIDELINES

INNOVATION

COMMUNITY ENGAGEMENT

GOVERNANCE & OPERATIONS
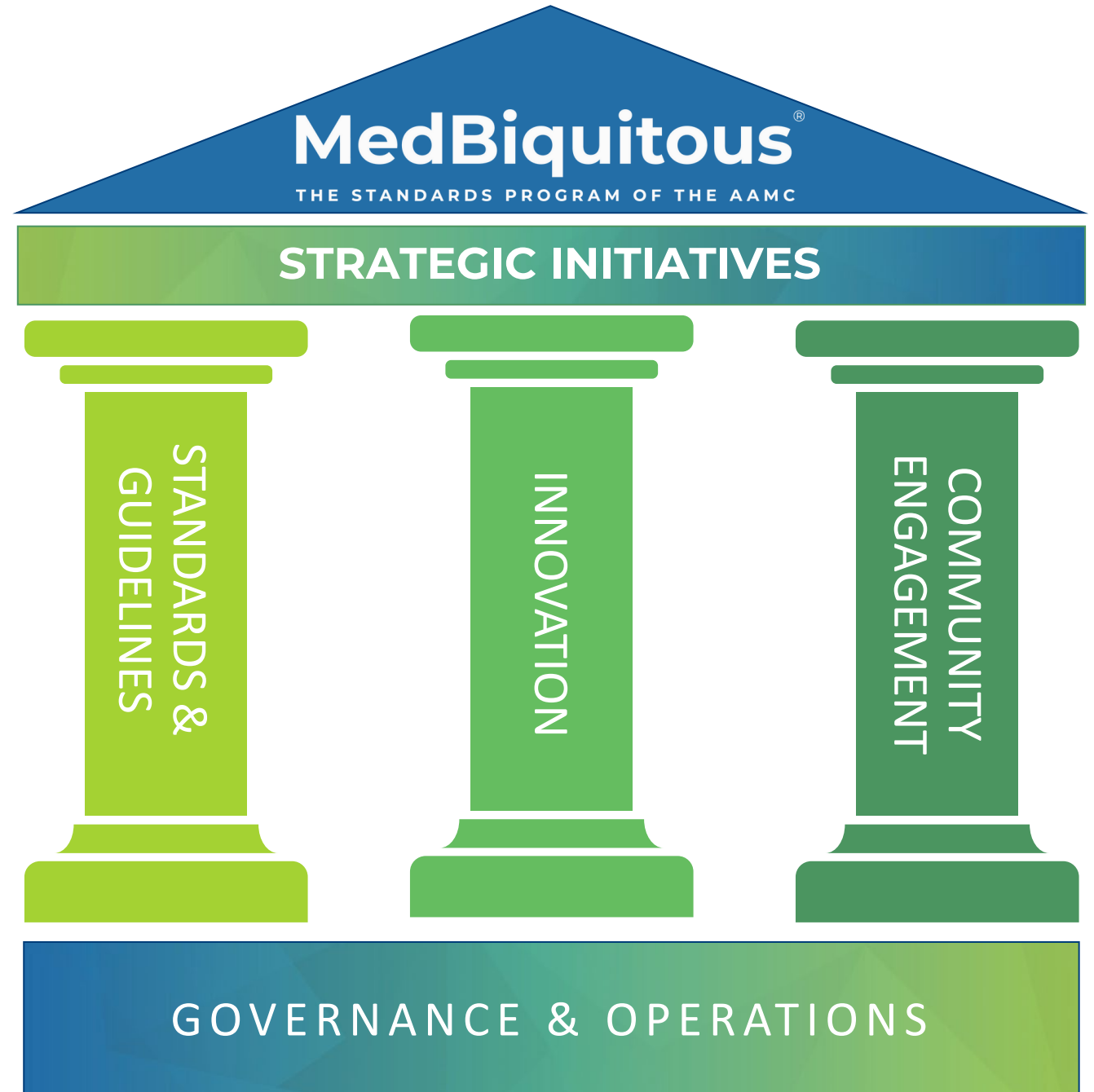
Program Updates: Innovation

- The innovation mindset is incorporated across all pillars:

- Updating our 2030 strategic plan

- Exploring new ways to convene and engage the community

- Reviewing the standards and how to collaborate broadly

- Additional focus on supporting AI integration
  - Artificial Intelligence in Academic Medicine Webinar Series
  - International Advisory Committee on AI (IACAI)
  - Supporting additional AI work from the AAMC

AAMC's Strategic Framing & Priorities

AI FOR **MEDICAL EDUCATION** — Incorporating AI into the work you do

LEARNING & NETWORKING
Learn from experts, share your experiences, and connect with peers. Come together with the academic medicine community to innovate and advance thinking and practice.

CRITICAL RESOURCES
Explore timely, high-quality resources to guide your thinking and practice around integrating AI across medical education.

COMMUNITY COLLABORATIONS
Learn more about how the academic medicine community is working together around the globe to support each other and develop best practices.

Teaching AI best practices to learners, faculty, and staff — **AI** IN **MEDICAL EDUCATION**

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Inaugural IACAI Accomplishments

- 16 global experts representing 10 countries
- Convened to provide guidance and best practices for the medical education community
  - Identified opportunities and concerns for learners, faculty, staff
- Released two foundational resources:
  - Future vision for AI in Medical Education
  - Integration frameworks for UME/GME
  - Shared and educated the community through international conferences and webinars
- Completed an international AI survey
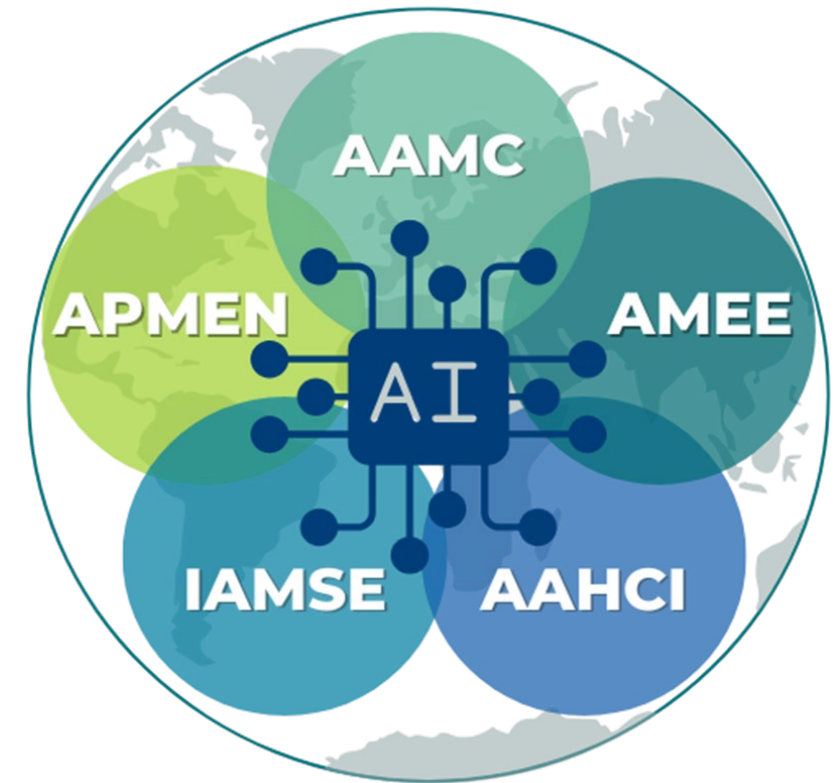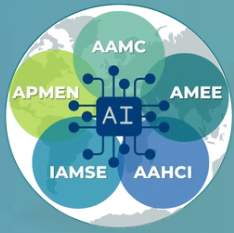
International Advisory Committee for Artificial Intelligence

Sola Aoun Bahous, MD, PhD, MHPE
Lebanese American University, Lebanon

Ardi Findyartini, MD, PhD
Universitas Indonesia, Indonesia

Ken Masters, PhD
Sultan Qaboos University, Oman

Francisco Rosero-Villarreal, MD PhD (c), MSc, MSc, Esp
Ecuadorian Society of Public Health, Ecuador

Chinthaka Balasooriya, MBBS, PhD, FANZAHPE
University of New South Wales (UNSW) Sydney, Lebanon, Austalia & New Zealand

Michael Fung, EdD, MSc Tecnologico de Monterrey, Mexico

Lise McCoy, EdD, MTESL
College of Osteopathic Medicine at Arkansas State University, USA

Laurah Turner, PhD
University of Cincinnati College of Medicine, USA

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The Chinese University of Hong Kong, Shenzhen, China

Cornelius James, MD
University of Michigan Medical School, USA

Diego Niño, MD, PhD
The University of Texas at Tyler School of Medicine, USA

Haibo Wang, MBBS, MSc, MPH
TSun Yat-sen University, China

Janet Corral, PhD
Bruyere Health Research Institute University of Ottawa

Prasad Katulanda, MBBS, MD, FRCP, FCCP, FACE, DPhil
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Rakesh Patel, MD, MMed, SFHEA
Queen Mary University of London, England

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Jamie Fairclough, PhD, MPH, MS
Roseman University of Health Sciences, College of Medicine, USA

Nathasha Luke, MBBS, MD (Medicine), MRCP (UK) Yong Loo Lin School of Medicine; National University of Singapore, Singapore

Liko Lu Qi
Year 2 MD Student Mohammed Bin Rashid University of Medicine & Health Sciences

Program Updates: Community Engagement

- Launched industry engagement calls
  o Foundational Competencies (Dec. 2024)
  o Curricular Resources (April 2025)

- Offered new ways to convene:
  o Emerging Technologies for Teaching and Learning: Digital Demonstrations Virtual Conference (Feb. 5-6, 2025 & Feb. 4-5, 2026)
  o Data Symposium (May 28, 2025)

- Data Standards United (DSU) and national standards work

- Launched multiple work groups

Program Updates: Standards & Guidelines

- AI Vision & Integration Frameworks (IACAI)
- Physician Data Initiative (AAMC, AMA, ACGME)
  - Released new data standard definitions for race, ethnicity and language proficiency (Dec. 2024)
- Data Framework Project for Precision Education (AAMC, AMA)
- TAG Standards Review
  - JSON, XML updates ongoing
    - For example: Professional Profile, Activity Report, Medical Education Metrics
  - Retaining as is: xAPI, Virtual Patient
  - Verification platform shift
  - Exploring updates to the curriculum standards to support CBE, continuing the HPECE work
- Work Groups: Data Culture, Educational Methods, Simulation Assessment, Simulation VR

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Educational Methods

Chair: Julie Youm, PhD

Associate Dean, Education Compliance and Quality
Director, Educational Technology
University of California, Irvine School of Medicine

MedBiquitous Educational Methodology Terms

- A standardized list of terms to facilitate reporting of aggregate data related to curriculum content and pedagogy developed by the Curriculum Inventory Working Group Standardized Vocabulary Subcommittee

- Three sets of terms: instructional methods, assessment methods, resource types

- Originally released in 2012, last updated in 2016

- Completed a literature review and needs assessment before launching the work group focused on updating the list

Working Group Charter

Goal:

Bring together representatives from across the HPE continuum to **review, revise and support the implementation of an updated educational methods standardized vocabulary list**, focused on instruction and assessment methods.

Deliverables:

- Provide **input on the revised list of terms**, including definitions and revised structure, and **solutions for sticky issues**.

- **Create resources to support utilization of the new terms** in curriculum mapping, including workshops, guides, exemplars, and use cases, with threshold setting, practical strategies, talking points, guidance in communicating with vendors, etc.

- **Raise awareness of newly updated resource for educational methods** among health professions educators and key audiences.

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Educational Methodology Working Group Roster

- **Nancy Adams, MLIS, EdD,** Penn State College of Medicine

- **Amanda Albright, MS,** Dartmouth Geisel School of Medicine

- **Mallory Bejster, DNP, RN, CNL,** Rush University, Department of Community, Systems, and Mental Health Nursing

- **Christopher Cimino, MD,** Einstein College of Medicine

- **Jordan Covvey, PharmD, PhD, BCPS**, Duquesne University School of Pharmacy

- **Minoo Darvish, MEd,** Case Western Reserve University

- **Lori DeShetler, PhD,** University of Toledo, Department of Medical Education, College of Medicine and Life Sciences

- **Judy Didion, PhD, RN,** Oakland University

- **Katherine Forkner, MA,** Mayo Clinic College of Medicine and Science

- **Stephanie Freed, MS,** Indiana University SOM

- **Spencer Harpe, PharmD, PhD, MPH**, FAPha, Midwestern University College of Medicine

- **Scott Harpin, PhD, MPH, RN,** University of Colorado College of Nursing

- **Nancy Hueppchen, MD,** Johns Hopkins Medicine

- **Catherine Johnson, MA,** Elsevier

- **Jennie Lou, MD, MS, FACS,** Wake Forest University SOM

- **Katie Maietta, MPPM,** University of Pittsburgh School of Medicine

- **Lauren Mays, DNP, CRNP, FNP-BC,** The WellHouse & Health Systems Department UAB School of Nursing, The University of Alabama at Birmingham

- **Amy Opalek, PhD**, Foundation for Advancement of Medical Education and Research (FAIMER)

- **Noah Pollock, MS,** Oakland University William Beaumont SOM

- **Tracy Pritchard, PhD**, University of Cincinnati College of Medicine

- **Mahboob Qureshi, MD, MPH, PhD,** California Health Sciences University, College of Osteopathic Medicine

- **Michelle Annette Schickling, MA,** University of Arizona

- **Elizabeth Smith-Trigg, MS,** William Carey University College of Osteopathic Medicine

- **Jeanine Stancanelli, OTD, MBA, MPH, OTR/L,** Mercy University School of Health and Natural Sciences

- **Emily Stewart, MD,** Aquifer and Dartmouth Geisel School of Medicine

- **Hoai-An Truong, PharmD, MPH, FAPhA, FNAP,** University of Maryland Eastern Shore

- **Leslie Wimsatt, PhD, FNAOME,** Des Moines University Medicine & Health Sciences

- **Julie Youm, MA, MS, PhD,** University of California, Irvine, School of Medicine (*Chair*)

Subcommittees

- **Definitions Subcommittee** – review and revise definitions of educational terms for clarity, accuracy and alignment with accreditation and relevance to health professions

- **Accreditation Subcommittee** – integrate the perspective of accreditation and standards bodies in health professions education

- **Matrixed Model Subcommittee** – explore the implementation of a multi-dimensional tagging model of educational terms

Milestones/Timeline

Fall 2024	• Launch of work group • Learn Serve Lead meeting table topic lunch discussion
Winter 2024	• Launch of subcommittee efforts • Focus on independent, self-directed and service learning, virtual learning and clinical experience terms, small-group/peer-to-peer instructional terms • Building Better Curriculum Webinar on Curriculum Keywords
Spring 2025	• Focus on simulation terms and outstanding "sticky issues" • Update to MedBiquitous Steering Committee • Medical Librarian Association Conference Presentation • Data Symposium Workshop
Summer 2025	• Finalize draft of educational terms – instructional methods • Begin work on assessment methods
Fall 2025	• Finalize draft of educational terms – assessment methods • Develop communication strategy and create supporting resources • Implement plan for dissemination

Purpose

To strengthen data culture within health professions education institutions through the development of practical resources.

GOALS

- Create a getting started resource repository.

- Create a context specific data culture maturity matrix.

- Develop on-going content for circulation and presentation.

- Create road-maps for engaging leaders and staff in data conversations.

- Track data culture maturity via surveys.

Objectives

- Define the concept of data culture in a health professions education context.

- Create quick reference guides for discussing data culture with leadership, colleagues, and data engaged staff.

- Develop resource guides for definitions, models, and relevant assessment of institutional data culture.

- Create easy to follow documentation templates for organizing institutional information around data culture.

- Create a template and resource repository for data engagement with vendors for institutions to employ when assessing and implementing new technologies or vendors.

- Identify opportunities for collaboration across institutions.

- Create an annual or bi-annual survey to track overall data culture maturity of AAMC institutions.

Deliverables

- A web-based resource guide for institutions to dive into data culture.

- Build a community of shared engagements and vocabulary that improves cross-institutional discussions and collaboration.

- Track overall institutional maturity via survey questions and report out to the broader community, identify gaps/needs to inform future work.

Milestones/Timeline

- Data Culture Resource Guide [August 2025]

- Phase II Workgroup Kickoff [September 2025]

    Continuing conversations in data culture: AI, recruitment, and security

- Core topic refinement & speaker identification for webinar series [November 2025]

- Identification of hands-on learning opportunities [January 2026]

- Data collection, survey outcome & analysis [April 2026]

Accomplishments

Recapping the achievements of FY 2024-2025

A Few FY 24-25 Accomplishments

- Completed a full standards review, with recommendations from TAG
- Launched four new Work Groups and a new participation model
- Released, disseminated AI focused resources & guidelines
  - IACAI Vision and Integration Frameworks
- Co-organized the Emerging Technologies in Teaching and Learning Virtual Digital Demonstrations Conference (GEA, GIR, GSA, MedBiq)
- Reimagined the MedBiq Annual Meeting into the Data Symposium
- Facilitated new industry engagement calls
- Supported the release and dissemination of new data standards from the Physician Data Initiative (AAMC, AMA, ACGME)
- Multiple conference presentations, workshops and webinars
- Re-established and built relationships with national standards organizations
- Updated and refined multiple behind the scenes administrative processes

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What You Can Expect This Year

- Additional and revised AI focused resources
- Virtual Digital Demonstrations conference, focusing on AI tools
- Continued AI webinar series
- New industry engagement calls
- Expanded Resource Hub
- MedBiquitous webinars, content and scholarship
- Updated 2030 strategic plan
- Revised Educational Methods vocabulary
- Data Culture and Governance resources
- Simulation assessment and VR focused resources, guidance
- Multiple ways to engage with the community on key topics

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Join the Conversation

Opportunities to Actively Participate and Engage

Additional Opportunities to Engage

- Become a MedBiquitous participant
- Join the Data Culture work group for the second phase of work
- Provide implementation case studies for the IACAI integration matrices
- Connect with colleagues in the virtual communities
  - AI in Health Professions Education
  - Data, Technology and Innovation
- Submit tools and resources through the new Resource Hub
- Volunteer to support the standards work and JSON updates with TAG
- Connect with us at Learn Serve Lead
  - Leveraging Data & Technology for CBME presentation
  - Artificial Intelligence in Medical Education sessions
  - Join us in the Market Square
- Sign up for our newsletter to stay up-to-date on events, resources and more

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What's Happening at the AAMC

Learning & Networking

- Monthly webinars

- Virtual community
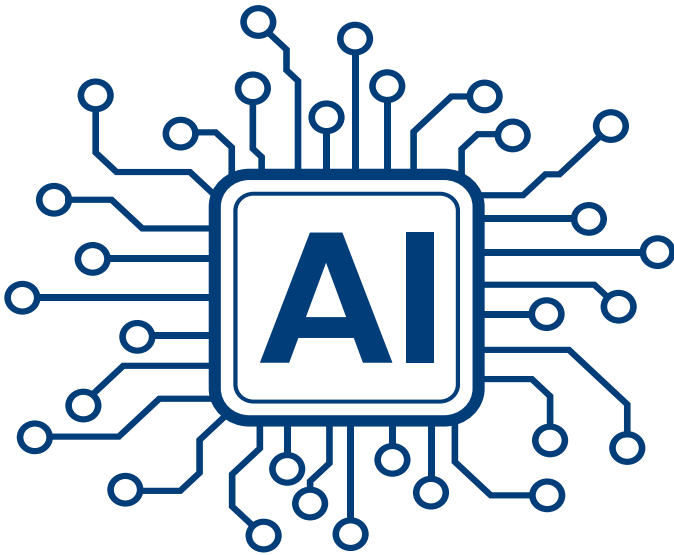
Critical Resources

- In development! Cross-continuum AI competencies (co-sponsored by Josiah H. Macy Foundation)

- Principles for the Responsible Use of AI in ...
  - Medical Education
  - Medical School and Residency Selection

- Active Calls for Submissions
  - Advancing AI Across Academic Medicine Resource Collection
  - *MedEdPORTAL* AI Education Collection

Community Collaborations

- Community surveys

- International Advisory Committee for AI in partnership with AMEE, IAMSE, APMEN, and AAHCI

- AMA, NAM, and Macy Foundation collaborations

Coming Soon!
Cross-Continuum Competencies on AI

Opportunities to Engage:

- Submit Feedback as a Reactor
  - Participate in structured review of draft competencies
  - Ensure language and content are inclusive and accessible to a range of institutions and learners

- Share Case Studies
  - Once released, contribute vignettes or cases that demonstrate how AI competencies are taught or assessed across the continuum of medical education

- Help spread the word!
  - Nominate colleagues and experts in and outside academic medicine to share perspectives on physician competencies in AI

To learn more, write to <u>curricularinnovation@aamc.org</u>

Advancing AI Across Academic Medicine Resource Collection

These selected submissions are of early educational materials, promising practices, policies, and pilot projects.

The goal is to advance collaboration and knowledge sharing and spark innovative thinking.
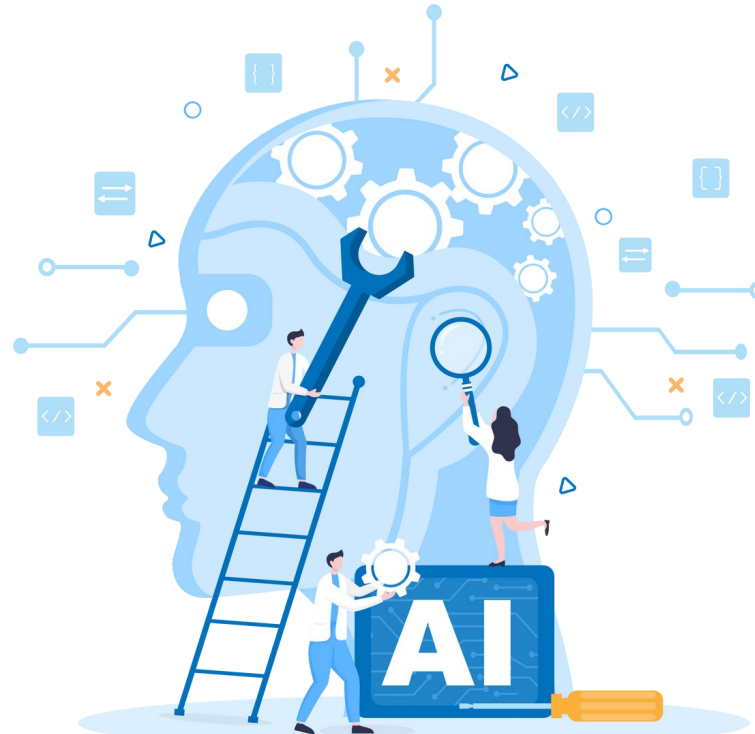
Check out our resources!

Submit your submissions today!

AI in HPE
Virtual Community

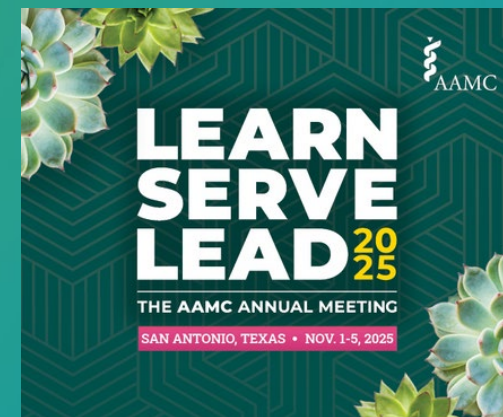Join this virtual forum to share ideas, ask questions, learn from experts, connect with peers, and grow professionally.