MedBiquitous
CAPETIHP Workshop
First Breakout
Interoperability Pain Points
Group 1: Interoperability pain point brainstorm
Reporter's name: Rosalyn

Institutional Sharing
- Tracking LCME competencies
- Connection to LMS
- Outside users may not value or reliability in systems
- Comparisons of competency between health professions
- Working with multiple clinical sites
- Sharing with oversight bodies
- Long term tracking of prof dev competency is difficult
- Interdisciplinary
- Accreditation
- Maximizing opportunities to use materials from other schools in different settings
- Differing requirements for different clinical sites

Reporting
- Instructor looking to see progress from students in a unified dashboard
- Inconsistency among departments
- Not having measurable outcomes
- Ability to track assessments to competency attainment
- Reports unstandardized format
- activities tracking
- Dashboard connectivity

Technical Issues
- Needing support from back end developers (unsustainability of use)
- Passing data back from learning tools back into the LMS
- Internet connectivity
- SOM LMS is separate from Univ LMS
- Coding that I don’t understand so can’t fix
- API and LTI lockdown

End User Issues
- Making it easy for students to move from the LMS to a learning platform
- Ensuring that single sign-on works for students and faculty
- Making it easy for students to access their work from mobile devices

Data Issues
- Upload/download with different excel formats – same data, different columns
- Inability to complete outcomes research with out a lot of data manipulations
- Difficult to manage time with various sources of data / reformatting of data

Staffing Issues
- How to bring in and train professionals not familiar with technology, especially
- Inability to use what is there
- Training of staff to use multiple systems that

Vendor Issues
- Cost
- Admin databases not focused on ed
- Lack of accessibility from book vendors
- Choices when there should be - onedrive vs google
Group 2: Interoperability pain point brainstorm

Reporter's name: Amy

Lack of Standardization
- Betamax vs. VHS
- Vendors don't work with competitors
- No consistency in how to share data
- IS wish for standardized software vs need for customized reports
- Low on the vendors' priority list

Siloes and lack of leadership
- Politics - various data owners and no collaboration
- Lack of leadership agreement on reporting metrics
- Top/down vs. bottom/up decision making vs. intertia
- Silo systems with different management approaches
- Constraints on the educational program (e.g. accreditation)

Unclear objectives for Interoperability

Training/Skill development
- Lack of staff with data admin skills
- Expertise IT staffing
- Moving targets (new IT tools and capabilities)

Money/Resource
- Budgets - no shared tools across areas
- Intellectual Property Concerns
- Analytics are viewed via financial lens, not educational lens
- Org size in relation to requisite budgeting
Group 3: Interoperability pain point brainstorm
Reporter's name: Michael

Themes for Voting

1. Vendor support
2. Competing system needs
3. Standardized Vocabulary
4. Duplicate data/multiple sources
5. Support (financial, staff)

- Lack of well-structured, accessible APIs
- Lack of consistent standards
- Outdated technologies
- Idiosyncratic data definitions
- Conflicting understanding of needs
- Vendor independence
- Lack of inter-institutional shared models and voice
- Lack of technology resources
- Interoperable tech landscapes cost money

1. Multiple data owners & purposes of data
2. Getting appropriate permissions in University-level systems
3. Standardized vocabulary
4. Users get confused about where they are
5. Security of 3rd party systems
6. Lack of staffing and resources
7. Poorly designed interfaces and data rules
8. Vendors that don't have a mature approach to data privacy and contracting requirements
9. Vendors who don't export all data for proprietary purposes

Migration challenges:
1. Duplicate info in different places;
2. Time to complete evals (time suck);
3. Pressure to generate revenue removes surgeons from educational activities;
4. COVID extra work;
5. Lack of IT support available for EdTech used;
6. Oligarchical systems;
7. Lack of specificity - meant for all specialties;
8. Cost for specialty-specific programs;
9. ACGME Requirements vs. support;
10. Inability to use information collected to make data-based decisions on curricula/GME.
Group 4: Interoperability pain point brainstorm
Reporters’s name: Jamie Fairclough

Aggregating data

Data access
- Data integration - single source of truth
- Legacy systems that are not capable of automated integrations
- Data liquidity concerns - getting right data to right person at the right time

Continuity of data from admissions through GME

Connecting with users

Dashboarding across multiple units and levels

Intuitive user interfaces

Single source of communication/messaging

Data capture

Some systems capturing real time data vs. others that do not

Low density systems that hold limited data types/amounts

Real-time data connections with Registrar

Other

Minimizing systems creep
Group 5: Interoperability pain point brainstorm
Reporter’s name: Terence Ma, PhD - “Tere”

Standards are a moving target
Testing providers providing medical schools with data about their students test scores and test history

Vendor lock-in
Vendors change APIs w/o notice
Vendor lock-in

Standards not published for coders
No way to have live data
Many orgs do not follow standards by creating their own “profiles”

Changing standards (XML, JSON, etc.)
Tech leaps - working on something and then it is outdated

Low prioritization
Lack of incentives to implement standards

Many standards - which to adopt?
Many different organizations
Many orgs do not follow standards by creating their own “profiles”

Old concept of data...who owns?
Vendors not motivated to “share”

Many standards – which to adopt?
Many orgs do not follow standards by creating their own “profiles”

THEME: Software Needs
Programming language of the month

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope
THEME: Prioritization/Small Market?
Low prioritization
time to market challenges

Canvas output of data to excel for use in other programs
Peruse listings of all sessions like a file listing with links for use in Canvas and Medtrics
Outprinting E*values Information into Medtrics
Banner data of information about courses
Grades from ExamSoft into other databases for analysis of student performance

THEME: Technical(?)
Not having the same level of access to different systems
Unified security standard challenges

THEME: Access/Permission
Lack of documentation and/or not updated
the functional source of record is not the institutional source of record -- data flow issues

THEME: Scope