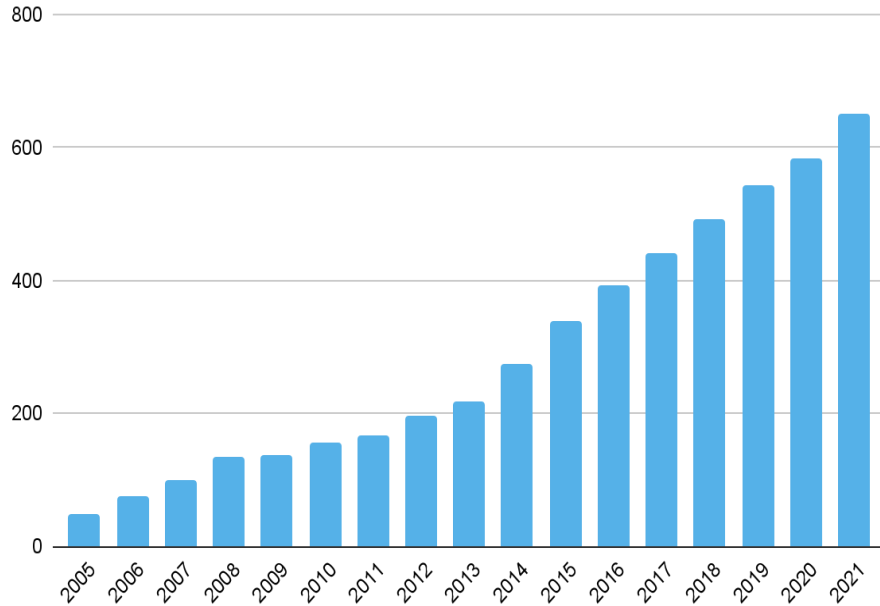


INTRODUCTION TO 1EdTech

Promoting open standards in Europe

IMS = EFFECTIVE COLLABORATION

IMS Member Growth 2005-2021



- **730+** member organizations headquartered in **25** different countries
- **7,000+** member representatives in the IMS community
- **150+** leading higher education institutions, state/national systems, and education associations
- **160+** leading K-12 districts and state/government agencies
- **440+** edtech solutions and corporate learning providers



IMS IS CHANGING

In 2022 we become 1EdTech

You will gradually see the 1EdTech name and styling rolled out. Underlying it are the same IMS standards and values.



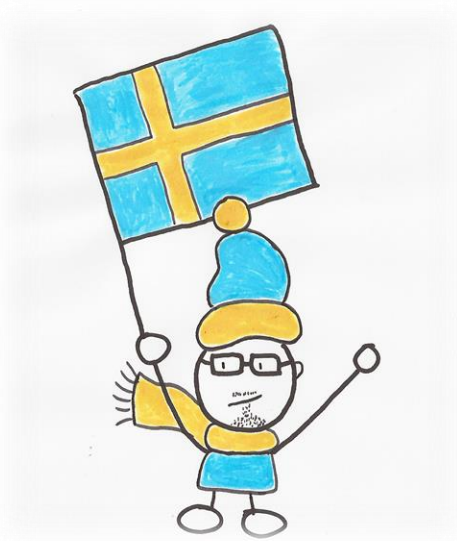
Four strategic imperatives:

- Accelerate best-in-class, safe digital learning experiences
- Enable personalized learner journeys
- Improve student success, retention, and outcomes
- Boost achievement, opportunity, and employment



IMS 1EdTech IN EUROPE

Meet the team



- Gill Ferrell, Program Director, France
- Markus Gylling, Solutions Architect, Sweden
- Colin Smythe, Chief Architect, UK
- Phil Nicholls, Chief Software Architect, UK

- Wietze de Vries represents SUNET on the IMS Europe Board



IMS 1EdTech EUROPEAN MEMBERS

A selection to show the diversity of our membership





WHY HAVE A EUROPEAN PRESENCE?

Our European community supports a unique set of needs

The EU is the world's largest economy and the world's largest trading bloc.
But, as an edtech market - it's complicated!

- Lots of cross-border collaboration
- National differences how education is governed and managed
- Many languages
- Different pedagogies
- National laws that sit alongside Europe-wide laws
- Procurement can be different to other parts of the world
- Focus on public values





EUROPEAN ACTIVITIES

Our main activities include:

- Bringing together users and suppliers of edtech from across the European Community
- Input to the development of global standards to ensure they meet European needs
- Promoting the adoption of IMS edtech standards
- Undertaking liaison and horizon scanning to help the edtech world identify and respond to emerging developments in European education
- Acting as a central point of knowledge about EU regulation and processes and country specific requirements
- Creating supported profiles of IMS standards where needed to meet national requirements
- Helping suppliers understand which standards are relevant and how to apply them in Europe from procurement through to implementation
- Working collaboratively to solve problems, fix issues and ensure the European edtech ecosystem continues to innovate and enhance learning



ABOUT IMS STANDARDS



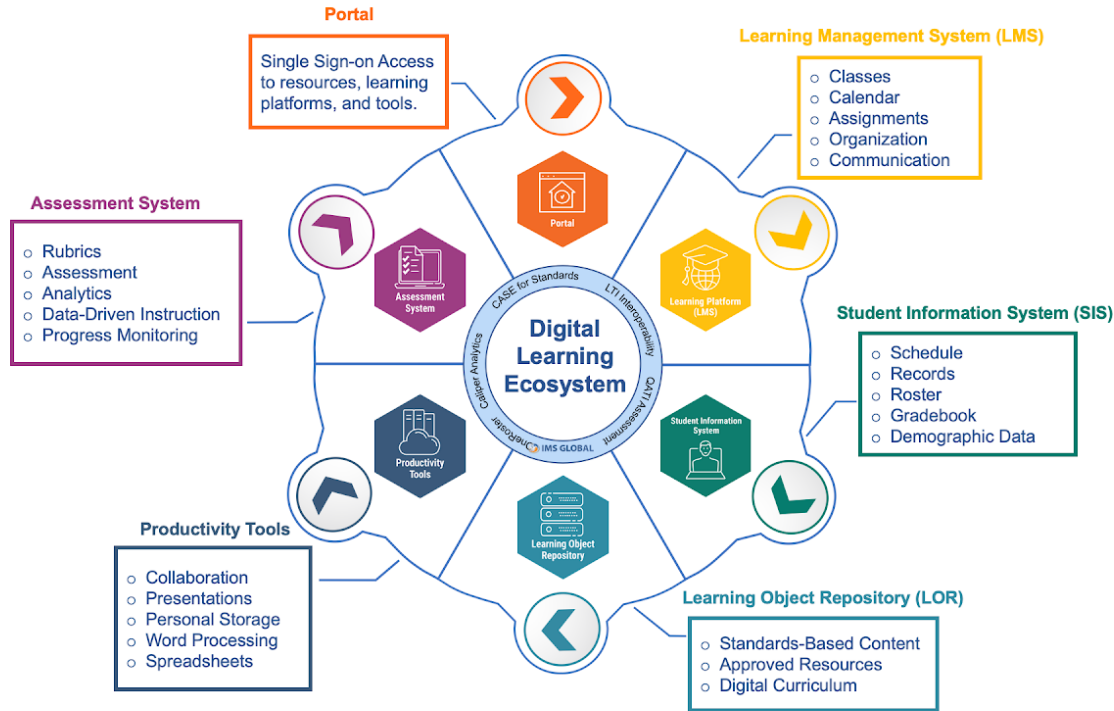
WHY USE OPEN STANDARDS?

Better learning through better learning technology

- Spend less time and resource on integrations
- Comply with European requirements
- Be confident your systems can integrate Europe-wide and globally
- Avoid vendor lock-in
- An approach that is consistent, open and repeatable

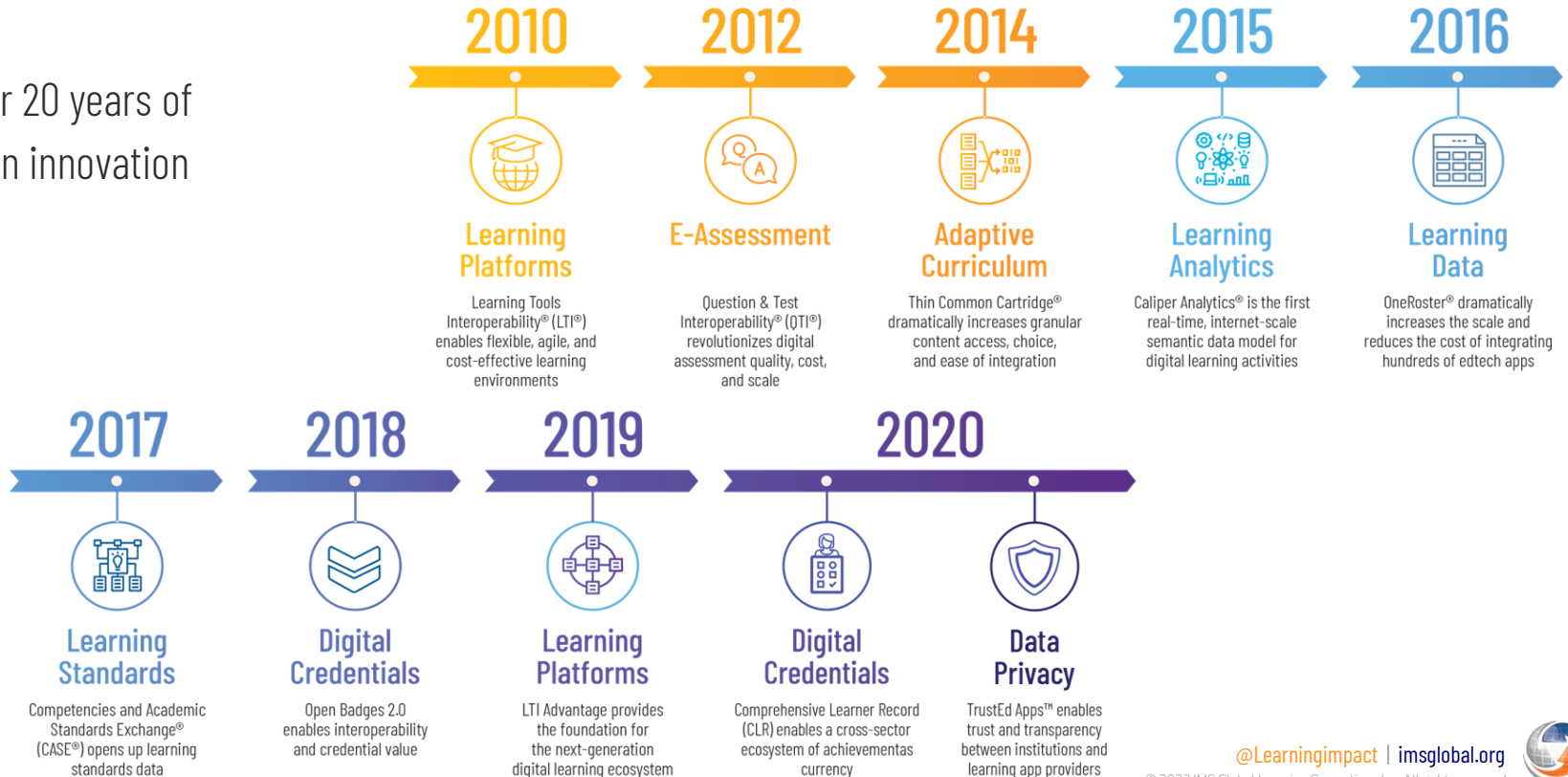


THE STANDARDS ECOSYSTEM



IMS STANDARDS HAVE CHANGED EDTECH FOREVER

Over 20 years of open innovation



Learning Platforms, Apps, and Tools

Provide a foundation for better faculty and student experiences

The most effective way to support next-generation teaching and learning is through scalable, seamless, and secure integration of all digital content, learning tools, and assessment products into your digital learning environment.

- Learning Tools Interoperability® (LTI®)
- LTI Advantage
- LTI Resource Search
- OneRoster®
- Proctoring Services
- TrustEd Apps™ and Data Privacy



Learning Data & Analytics

Help students succeed and institutions improve with a scalable foundation for actionable data on student learning

Inform student success strategies, institutional academic decisions, and instructional design with clickstream learning data from all your digital resources—available in real-time and viewable using any dashboard.

- Caliper Analytics®
- Edu-API
- Learning Information Services
- LTI Insights
- OneRoster®
- TrustEd Apps™ and Data Privacy



Digital Credentials

Support competency-based models and connect educational credentials with the full scope of learning achievements and experiences

Digital credentials are reshaping the delivery of education and professional learning by enabling lifelong learner-control of evidence-based knowledge, skills, and achievements to respond to today's education and job market needs.

- Badge Connect™
- Competencies and Academic Standards Exchange® (CASE®)
- Comprehensive Learner Record (CLR)
- Open Badges



Adaptive Digital Curriculum

Get the right resource to the right student at the right time

Facilitate more innovative instructional practices and allow for greater choice and flexibility in digital resources by packaging and streamlining the management of learning content from different sources.

- AccessForAll[®]
- Competencies and Academic Standards Exchange[®] (CASE[®])
- Common Cartridge[®]
- EPUB for Education
- LTI Resource Search
- OpenVideo



Integrated Assessment

Scale and connect assessment to learning for greater student success and educational outcomes

Amplify teaching and learning with effective interventions and continuous improvement through high-quality innovative digital assessment that is accessible, adaptive, and safeguarded for integrity.

- Accessible Portable Item Protocol[®] (APIP[®])
- Computer Adaptive Testing
- Proctoring Services
- Question and Test Interoperability[®] (QTI[®])



STANDARDS IN PRACTICE

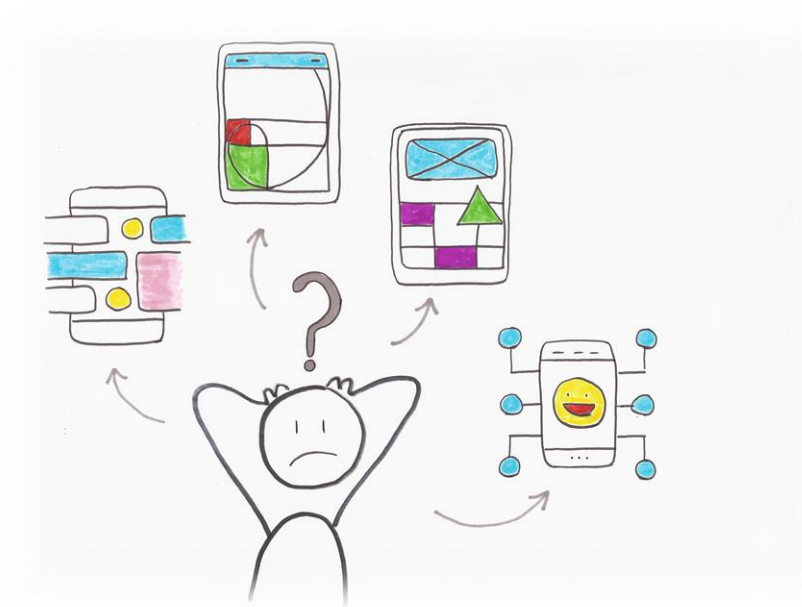
LTI – Learning Tools Interoperability

THERE'S AN APP FOR EVERYTHING THESE DAYS

Learners use many different tools and resources

Offering a rich set of learning activities and resources isn't always simple:

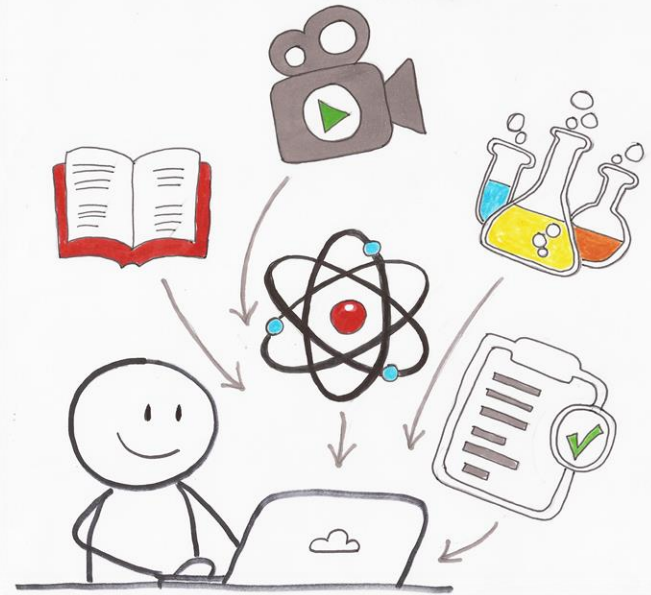
- Students and staff have to get used to many different tools
- Data is held in many places
- Security is an issue
- Point-to-point integration is complex and expensive



LEARNING TOOLS INTEGRATION (LTI)

LTI - rich learning experiences made simple

- LTI gives access to multiple tools and resources without leaving the core learning environment
- Single sign on (via institutional ID) gives user access to everything appropriate to their course and role
- All major learning platforms are certified LTI compliant



STAYING SAFE WITH LTI

LTI offers state-of-the-art security



LTI 1.3 uses the most modern security protocols:

- Students and staff use their institutional single-sign-on
- User-friendly security means better security



WHAT'S NEW IN LTI ADVANTAGE?

LTI 1.3 has three new components

Together they make up LTI Advantage:

- **Deep Linking** allows you to open tools and resources in your own learning environment
- **Names and roles** provides secure authentication:authorization using single sign on
- **Assignments and grades** allows the application to send marks or feedback to the learning environment

Introductory video: <https://www.youtube.com/watch?v=T7SdXED6tsQ>



LTI WORKING GROUPS

Our community continues to innovate

- European LTI group meets monthly to share practice and produce resources to help the European community
- Project groups e.g. Spanish LTI group
- Global group enhances the standard and addresses issues e.g. cookies



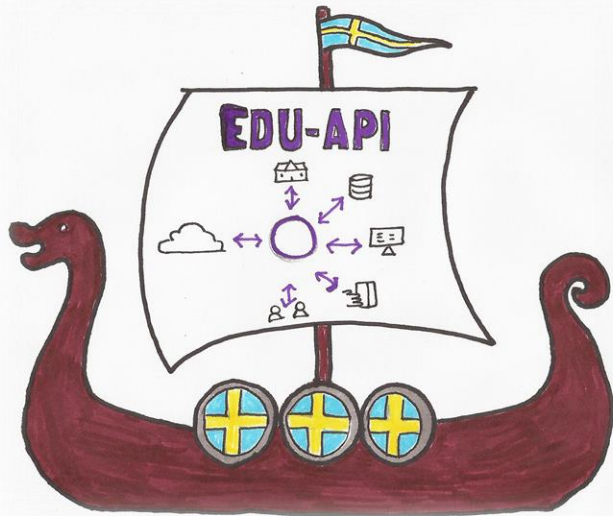
OTHER STANDARDS

UNLOCKING THE SIS WITH EDU-API

Sweden leading proof-of-concept implementation

Unlocking student data in the SIS is one of the most difficult interoperability issues. EDU-API will address this

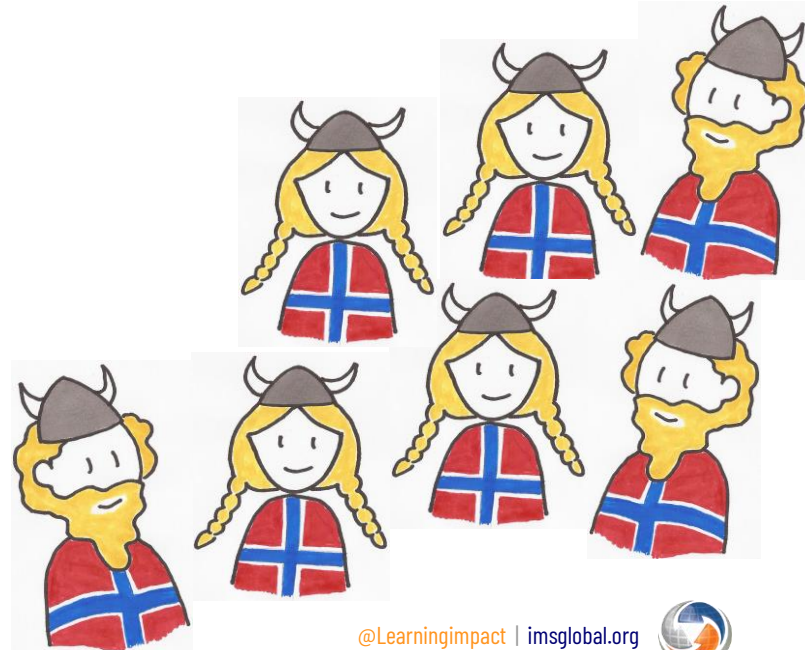
- European group has worked in parallel with global working group
- EDU-API data model will inform the core data model for all future standards
- Asynchronous 'pub-sub' version developed to meet Swedish needs
- LADOK leading the first EDU-API implementation
- Valuable for European University Alliances
- OO-API on a convergence path with EDU-API



ONE ROSTER FOR NORWAY

Making standards work in your context

- OneRoster is the standard that permits exchange of information about which students are enrolled in which courses
- It enables access to resources, grades and feedback
- Norway has a project to replace an outdated national standard with OneRoster
- We are working on a 'profile' to meet Norway specific requirements
- Norway will benefit from a global standard, supported by 1EdTech yet fully suited to national needs



DIGITAL CREDENTIALS

Recognition of learning for the modern world

- Verifiable academic credentials for student mobility
- Digital badges for a richer view of skills and achievements
- Micro-credentials and European degrees
- Compatibility with Europass



STANDARDS IN YOUR UNIVERSITY

WHY USE CERTIFIED PRODUCTS?

Certification is your guarantee of compliance

- Save time and money on integrations
- Improve the user experience for learners, teachers and support staff
- Avoid vendor lock in
- Choose tools to fit your pedagogy and processes knowing they work together
- Apply best practice in procurement
- Future-proof your ecosystem

Request certification as part of your procurement process.

Find certified products via the product directory: <https://site.imsglobal.org/certifications>





WHY SHOULD A UNIVERSITY JOIN THE COMMUNITY?

Membership brings added value

- Save time and money on integrations via access to our conformance and testing tools
- Access to training, events and resources
- Continuous staff development
- Bespoke consultancy
- Influence standards development
- Influence product development
- Keep up to date with technology trends and market insights
- Learn from other centers of excellence
- Demonstrate leadership



EUROPEAN PUBLIC VALUES

Open standards allow us to create the ecosystem we choose



Open standards level the playing field:

- Open-source products and start-ups can thrive alongside global corporates
- Standards help us maintain security and privacy
- Decisions are made by the 1EdTech community:
1 member = 1 vote
- Standards should feature in all public procurement



STANDARDS FIRST

Open standards connect learners to
the edtech experiences they deserve.



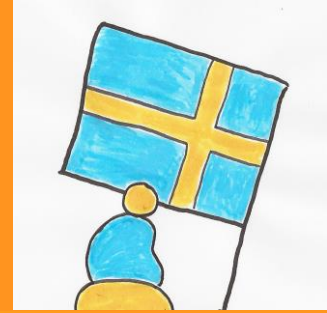
Sign the pledge:
<https://www.imslobal.org/standardsfirst>

@LearningImpact | [imslobal.org](https://www.imslobal.org)

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THANK YOU SUNET



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