

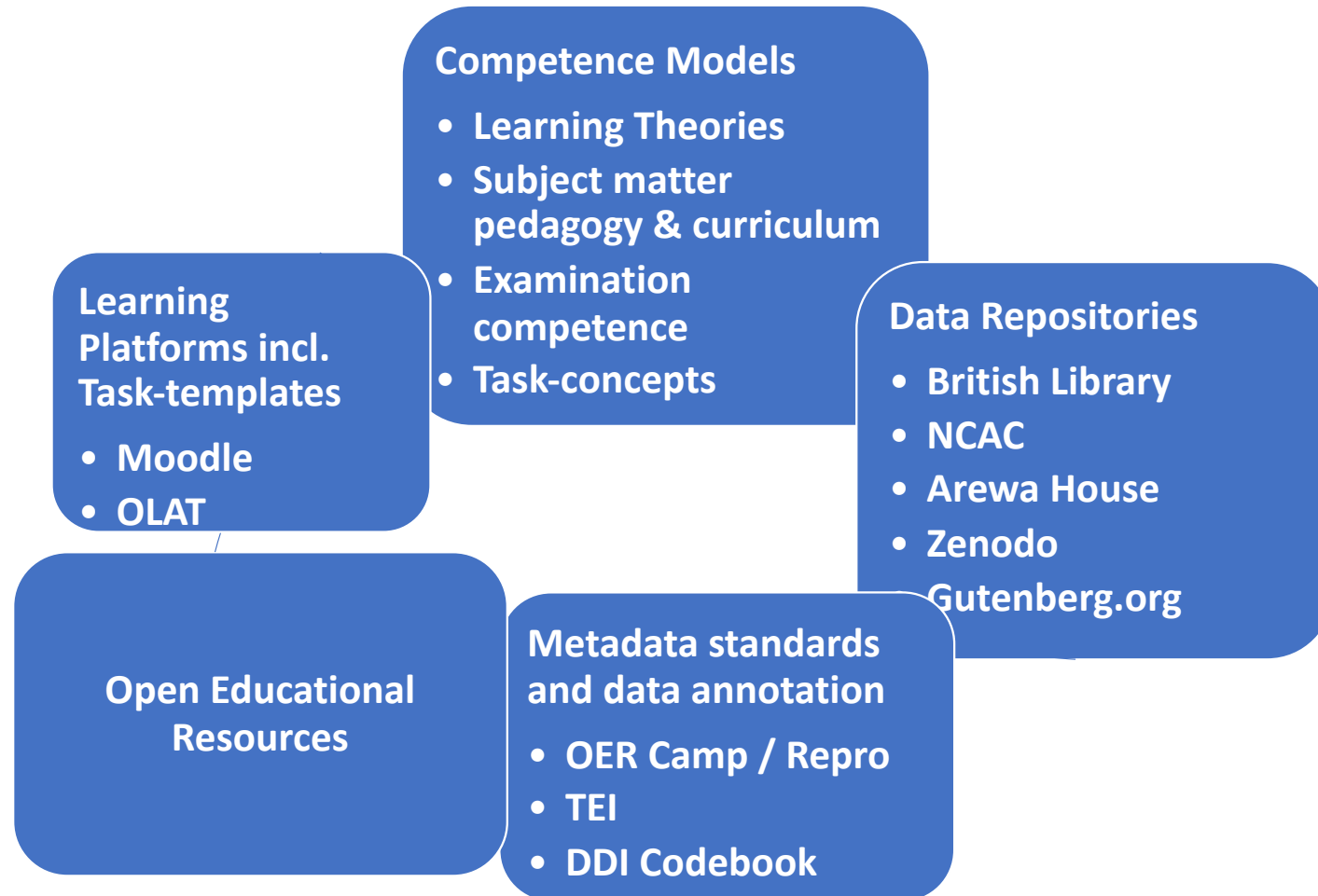
Digital Data Literacy

It should be fundamental but it turns out to be a highly complex issue as it requires the interplay of many components and the development of various interfaces.

Digital Data Literacy Components

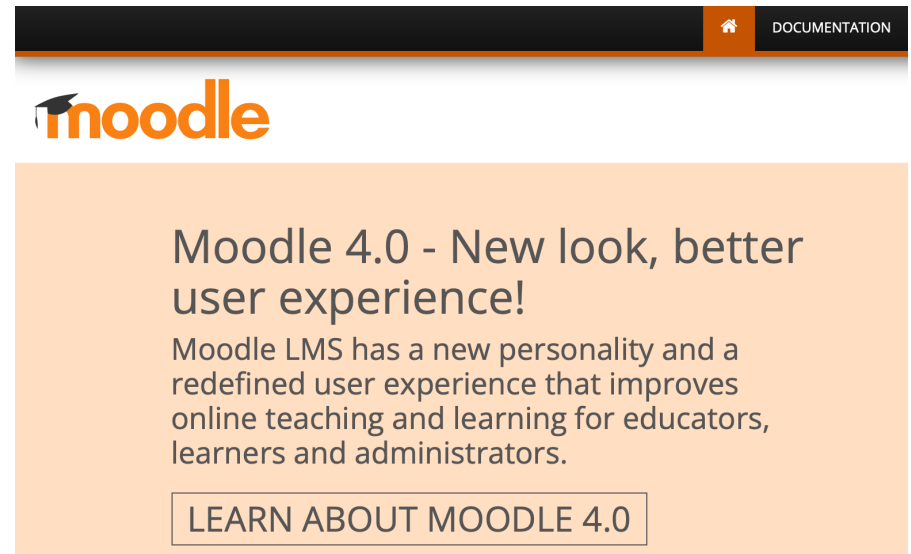
A competent teacher knows about:

“Data literacy is the ability to collect, manage, evaluate, and apply data, in a critical manner” (Ridsdale et al 2015: 2)

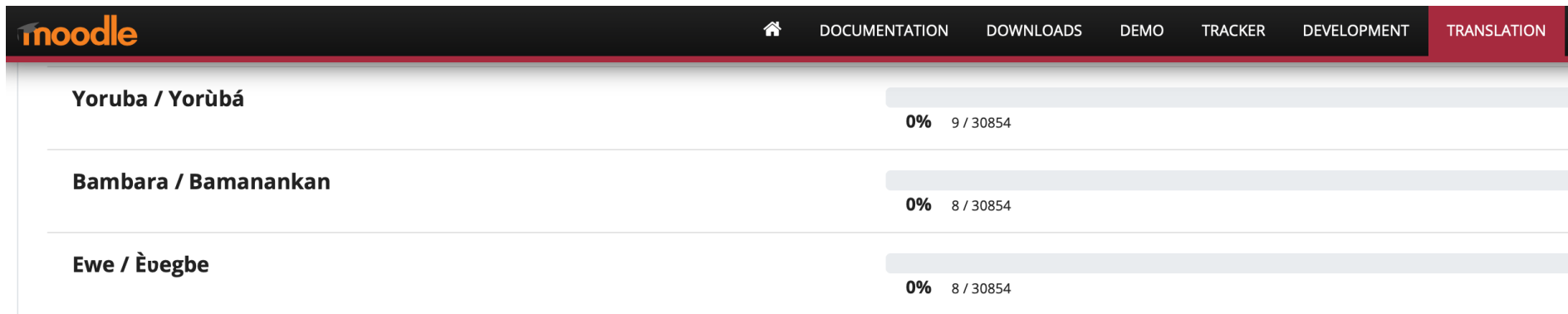


Learning Platform

<https://stats.moodle.org/sites/index.php?country=GH>



The screenshot shows the Moodle 4.0 announcement banner. At the top right, there is a navigation bar with a home icon and the word "DOCUMENTATION". Below this is the Moodle logo. The main text of the banner reads: "Moodle 4.0 - New look, better user experience!" followed by a paragraph: "Moodle LMS has a new personality and a redefined user experience that improves online teaching and learning for educators, learners and administrators." At the bottom of the banner is a button that says "LEARN ABOUT MOODLE 4.0".

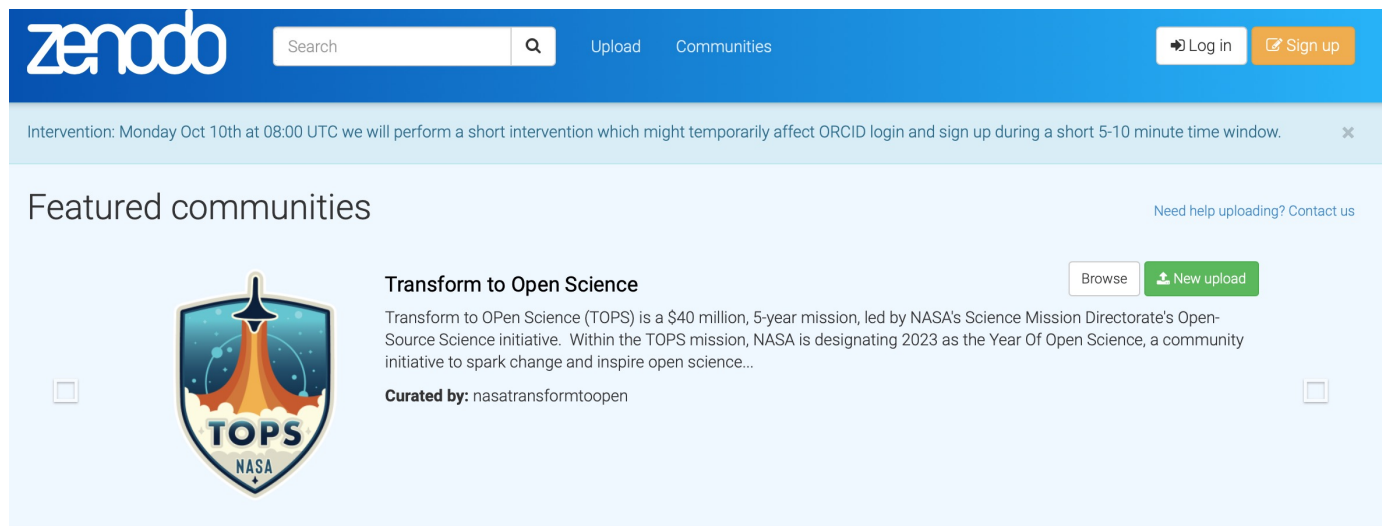


The screenshot shows a table from the Moodle website displaying the translation progress for three languages. The table has a header with the Moodle logo and navigation links: HOME, DOCUMENTATION, DOWNLOADS, DEMO, TRACKER, DEVELOPMENT, and TRANSLATION. The table lists the languages Yoruba / Yorùbá, Bambara / Bamanankan, and Ewe / Èvegbe, each with a progress bar and a percentage of 0%.

Language	Progress
Yoruba / Yorùbá	0% 9 / 30854
Bambara / Bamanankan	0% 8 / 30854
Ewe / Èvegbe	0% 8 / 30854

Data Repositories

- Digital objects as publications: your book should be stored in more than one library



The screenshot shows the Zenodo website interface. At the top, there is a blue navigation bar with the Zenodo logo on the left, a search bar in the center, and 'Upload' and 'Communities' links on the right. Further right are 'Log in' and 'Sign up' buttons. Below the navigation bar, a light blue banner contains a message: 'Intervention: Monday Oct 10th at 08:00 UTC we will perform a short intervention which might temporarily affect ORCID login and sign up during a short 5-10 minute time window.' Below this banner, the 'Featured communities' section is displayed. The first featured community is 'Transform to Open Science', which has a shield-shaped logo with a rocket and the text 'TOPS NASA'. To the right of the logo, there is a 'Browse' button and a green 'New upload' button. Below the logo, the text reads: 'Transform to Open Science (TOPS) is a \$40 million, 5-year mission, led by NASA's Science Mission Directorate's Open-Source Science initiative. Within the TOPS mission, NASA is designating 2023 as the Year Of Open Science, a community initiative to spark change and inspire open science...'. Below this text, it says 'Curated by: nasatransformtoopen'. In the top right corner of the featured community section, there is a link: 'Need help uploading? Contact us'.

Metadata and data annotation standards

- „Machine Literacy“
- Terminologies and controlled vocabulary
- Ontologies and knowledge graphs
- Data annotation



Text Body

- ☒ 1 [The TEI Infrastructure](#)
- ☒ 2 [The TEI Header](#)
- ☒ 3 [Elements Available in All TEI Documents](#)
- ☒ 4 [Default Text Structure](#)
- ☒ 5 [Characters, Glyphs, and Writing Modes](#)
- ☒ 6 [Verse](#)
- ☒ 7 [Performance Texts](#)
- ☒ 8 [Transcriptions of Speech](#)
- ☒ 9 [Dictionaries](#)
- ☒ 10 [Manuscript Description](#)
- ☒ 11 [Representation of Primary Sources](#)
- ☒ 12 [Critical Apparatus](#)
- ☒ 13 [Names, Dates, People, and Places](#)
- ☒ 14 [Tables, Formulæ, Graphics, and Notated Music](#)
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- ☒ 16 [Linking, Segmentation, and Alignment](#)
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- ☒ 20 [Non-hierarchical Structures](#)
- ☒ 21 [Certainty, Precision, and Responsibility](#)
- ☒ 22 [Documentation Elements](#)
- ☒ 23 [Using the TEI](#)

TEI sourcecode

- [Getting and Using the TEI Sources.](#)
- [TEI GitHub Repository](#)
- [Bug Reports, Feature Requests, etc.](#)

DDL Assessment

NEA News

How to Assess Digital Literacy for Students (and Educators!)

How do you assess digital literacy?

Consider the following questions:

1. How comprehensive should the tool be? ...
2. Is computational thinking important? ...
3. Do you need a scope and sequence? ...
4. Do you need teacher or district dashboards? ...
5. Do you want the ability to integrate with your learning management system (LMS)? ...
6. Learning.com's digital literacy assessment.



- Validity of theoretical concepts
- Schüller et al. 2021 (data process, subject competency, KSAVE, qualification level)
- International/national levels
- Empirical data on „Data Illiteracy“
- Proficiency levels (Digital Data Proficiency (DDP))

Implementation in teacher education

- Where to implement DDL ?
 - Module B.A. / M.A. curriculum
 - Cross cutting issues
 - Propaedeutics
- Local African conditions
 - (Computer Literacy)
 - Hardware/devices
 - Apps
 - Technical terminology

Conclusion

“Data literacy is the ability to collect, manage, evaluate, and apply data, in a critical manner” (Ridsdale et al 2015: 2)

- DDL: Conceptual work in progress
- Little work on Global South scenarios
- Device of the African Digital Age: smartphone
- Data literacy must not include competences that require a computer as device
- Repositories for Open **Multilingual** Educational Resources are missing for African countries
- Data literacy must be subject to assessment for empirical feedback: „Worldbank report on DDL“
- Following session: action plan for DDL measures