

Wikidata for Education

Aligning the sum of all knowledge with
school curricula

Dnshitobu
Soukaina Abelhad
Owula kpakpo

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W4DE project overview

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Steps

Introduction

What is Wikidata?

Curriculum information as structured data

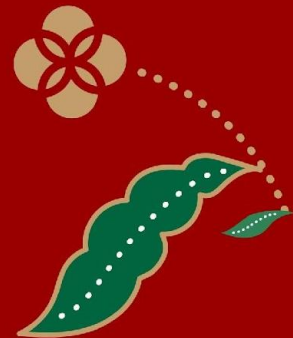
Why modeling the curriculum?

Where are we now?

Curriculum data model

Example: Ghana's curriculum

What next?

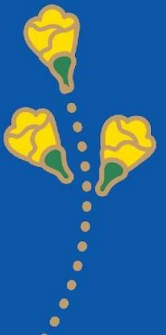


Introduction

Wikidata for Education (WD4E) is an initiative that aims to improve the world's ability to access relevant data about school curricula and to simplify and automate finding and aligning open educational resources to national curricula.

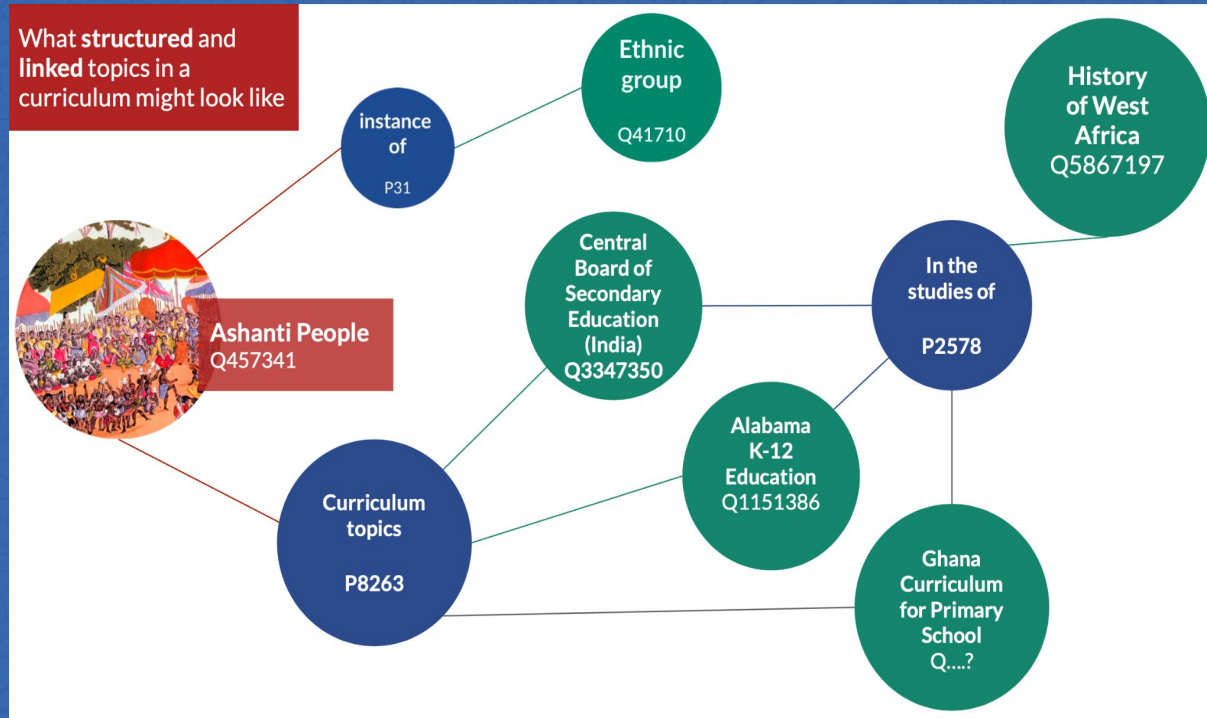
It's a project that aims to use technology to enhance learning experiences and foster collaboration among educators.

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What is Wikidata

Wikidata is a central storage for structured data that can be edited and read by humans or machines.



Curriculum information as structured data

Curriculum information is either available on pdf, word, website or paper format.

How do we structure curriculum data?

Curriculum document presented as pdf

Education in Ghana (Q861546)



Curriculum Topics

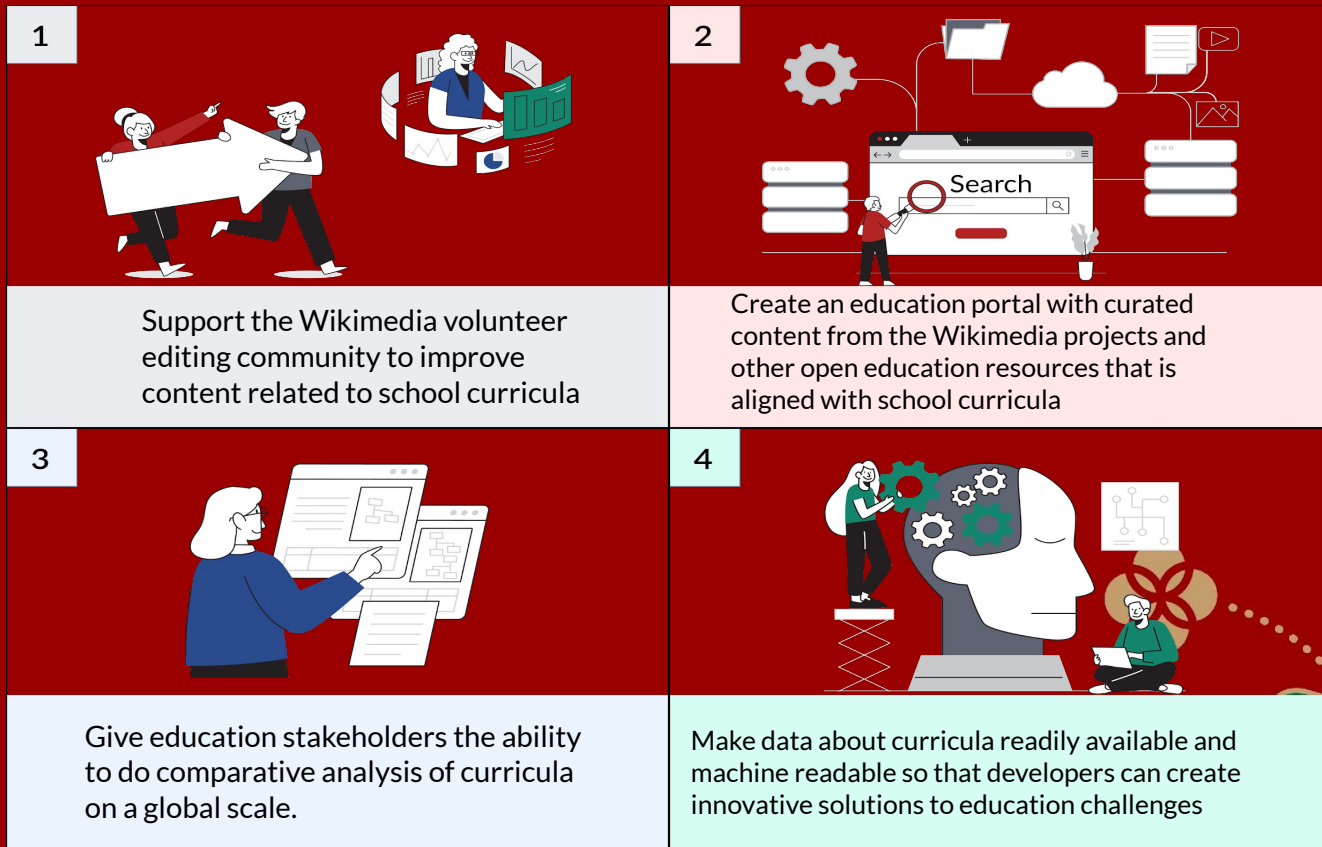
P8263

Missing Wikidata items
Missing Wikidata properties
Missing Wikidata structure

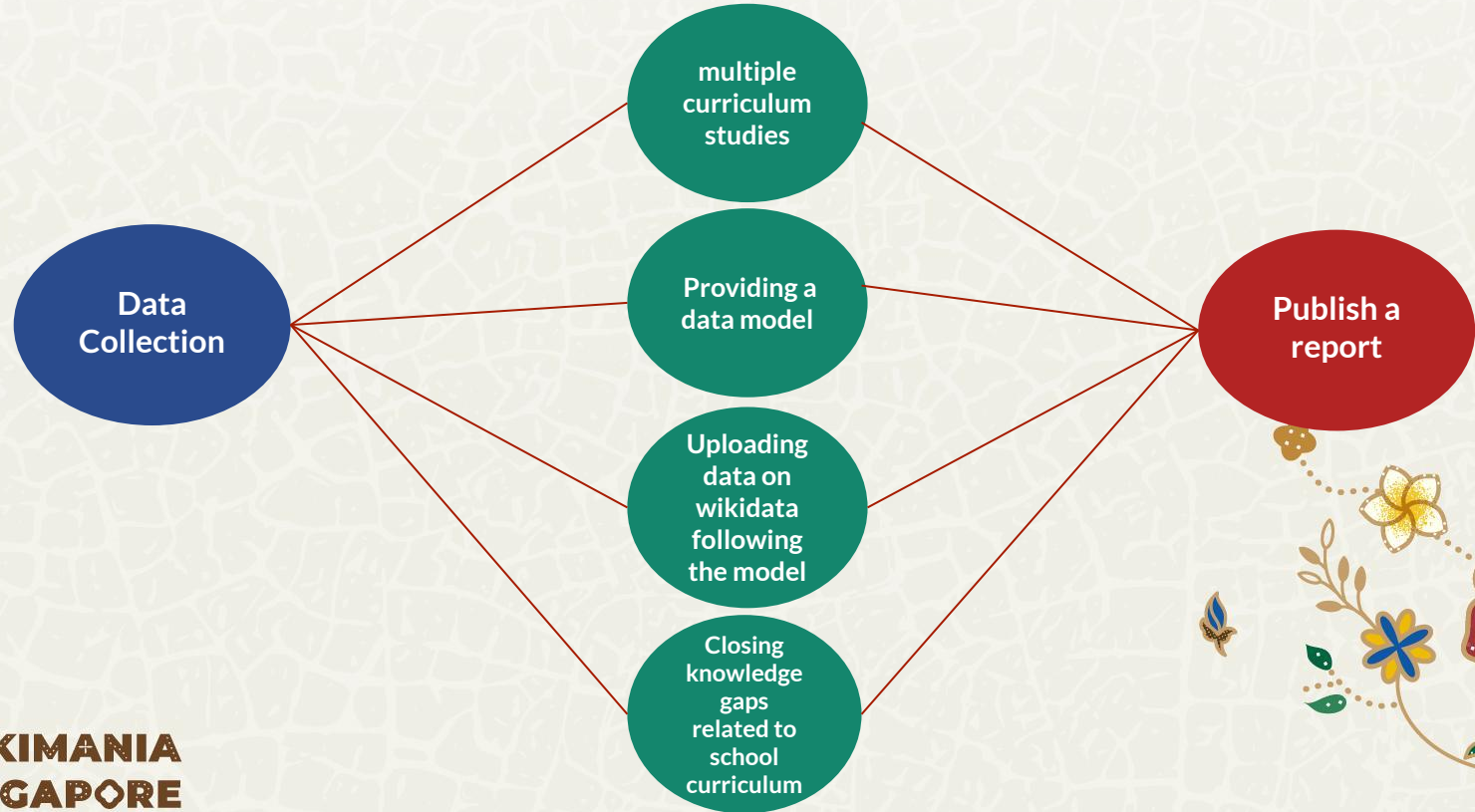
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Why modeling the curriculum?

Making it possible to improve the accessibility and quality of Open Educational Resources as demonstrated by these 4 use cases

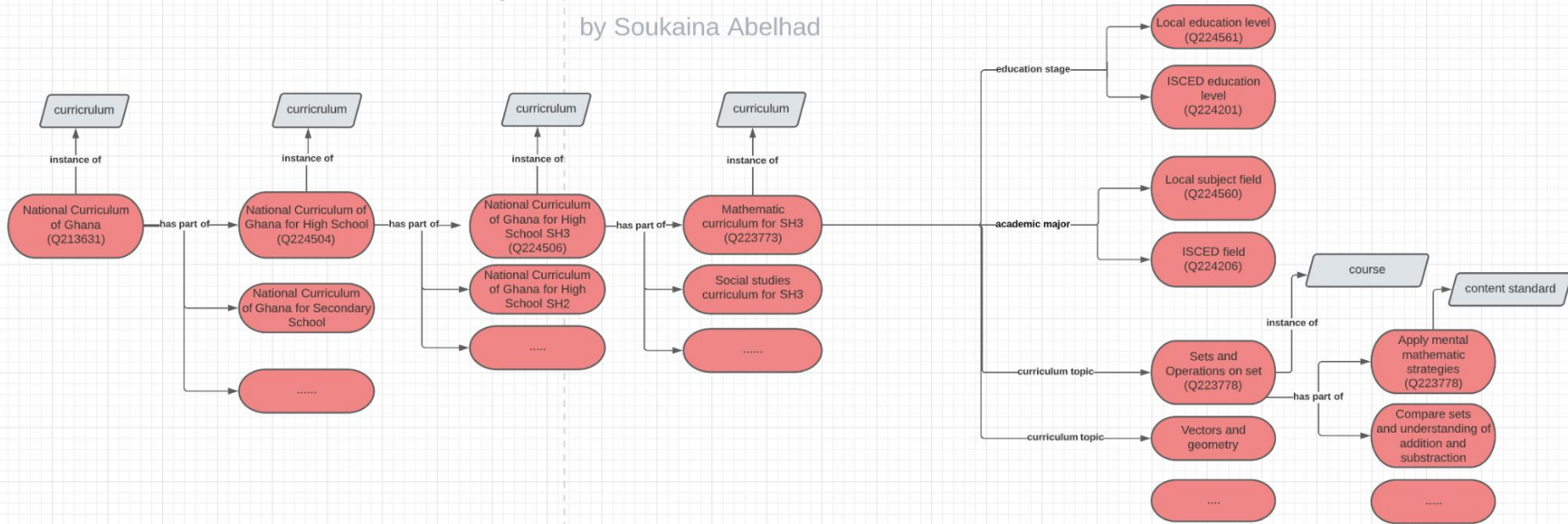


Where we are now



Curriculum model

Example of wikidata items for Ghana's curriculum
by Soukaina Abelhad



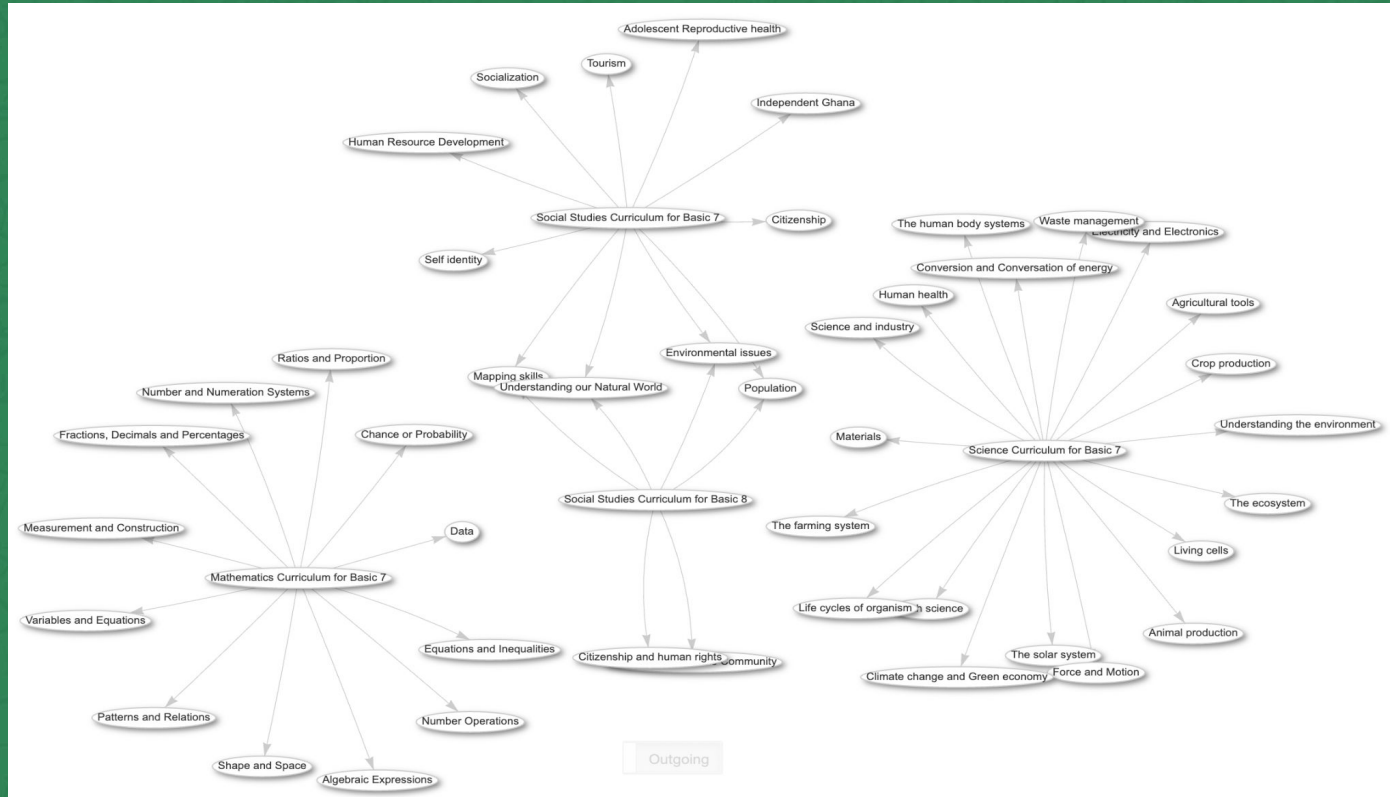
Example: Ghana's curriculum

<https://w.wiki/5qxG>



 SCAN ME

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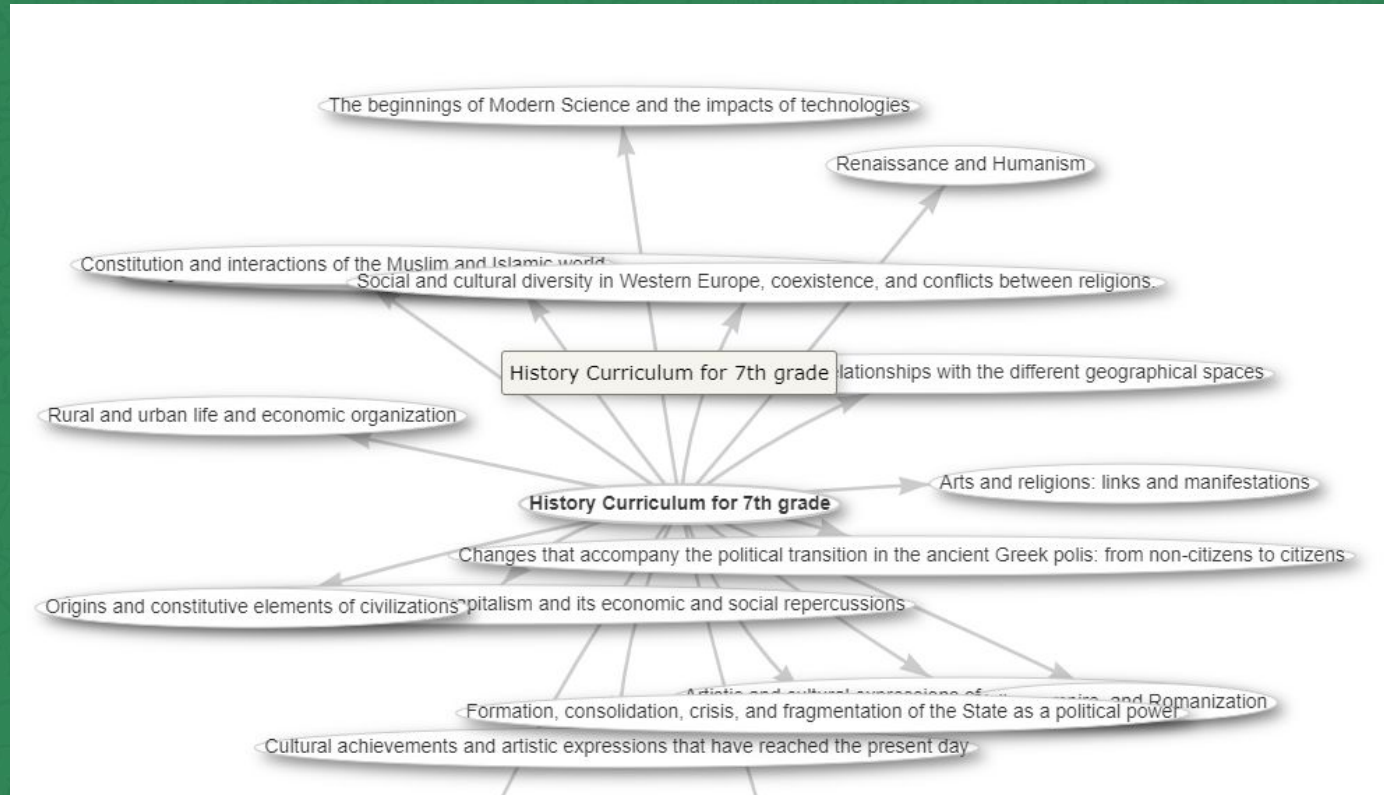
Example: Uruguay's curriculum

<https://w.wiki/7EMC>



Scan me!

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Finding knowledge gaps on Wikipedia

<https://w.wiki/5ueJ> English

<https://w.wiki/5ueM> French

<https://w.wiki/5ueP> Dagbani (A language Wikipedia in Ghana)

<https://w.wiki/6kEN> Igbo (A language Wikipedia in Nigeria)

<https://w.wiki/6kEQ> Twi (A language Wikipedia in Ghana)

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What is next?

- Get the wikidata properties left (We need more support to approve these important properties!)
- Add more curricula to Wikidata.
- Build an app that would facilitate the usage of curriculum data on Wikidata for non technical people.
- Educate teachers, researchers and students to learn how to use the interface.
- Continuous improvement of the model while expanding to other curriculum and collaborating with curriculum experts

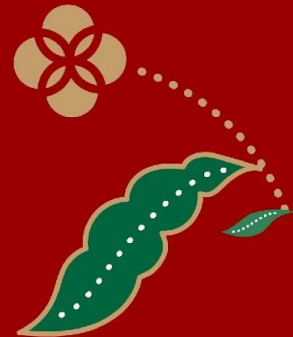
W4DE Campaigns

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**The campaign will close
content gaps between
the curriculum data
uploaded to Wikidata and
its corresponding
Wikipedia articles.**

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**Campaign is
happening in three
subjects of the
Ghanaian
curriculum and on
three language
Wikipedias.**

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Campaign Activities

Activity 1.3.1

Coordinate an overarching multi-part campaign that improves content in at least two subject areas: English and at least 1 local language. The subject areas should include at least one internationally-relevant curriculum topic and one culturally or nationally specific curriculum topic area.

Activity 1.3.2

Organize at least 3 content drives for each subject area we select that engage, on average, at least 30 people per event who make meaningful content edits over the course of 6 months and continue to close knowledge gaps around curriculum-aligned content.



3 Campaigns so far in 3 languages (Ga, Twi & English)

So far we have had 3 campaigns in English Wikipedia, Twi Wikipedia & Ga

Wikipedia which is even in incubator.

Second step

9 Marɔwale 2023

- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Adesai Ahegbɛ ye Ghana: 23.56 . (+38) NanaYawBotar (sanegbaa l oyeɛkbuamo) (Tag: Visual edit: Switched) (thank)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Tɔngɔɔ: 23.53 . (+29) NanaYawBotar (sanegbaa l oyeɛkbuamo) (thank)

8 Marɔwale 2023

- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Weku: 19.07 . (+31) Owula kpakpo (sanegbaa l oyeɛkbuamo)

5 Marɔwale 2023

- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Wiku: 16.02 . (-2) Jɔdidah Nyarɔyo (sanegbaa l oyeɛkbuamo) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Tɔngɔɔ: 15.59 . (+405) Phiaa09 (sanegbaa l oyeɛkbuamo) (Kɔmɔwa Ga wɛrro nyɔaa) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Ghana Heyeɛle Mɔa Yiso 1957: 15.55 . (+23) Owula kpakpo (sanegbaa l oyeɛkbuamo) (Kɔ wiemoɔ faa he)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Ghana Heyeɛle Mɔa Yiso 1957: 15.53 . (+131) Owula kpakpo (sanegbaa l oyeɛkbuamo) (Kɔ wiemoɔ faa he)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Adesai Ahegbɛ ye Ghana: 15.53 . (+21) NanaYawBotar (sanegbaa l oyeɛkbuamo) (added Category:Wɔpɔga sɛnɛ Ahegbɛ) (thank)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Weku: 15.51 . (+492) Jɔdidah Nyarɔyo (sanegbaa l oyeɛkbuamo) (nyɔmaa rotasɔmo) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Ghana Marɔbi Afiyɛli: 15.46 . (+249) NanaYawBotar (sanegbaa l oyeɛkbuamo) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Ghramo: 15.43 . (+143) Adisa Nyarɔyo (sanegbaa l oyeɛkbuamo) (Tɛgi: Visual edit, Mobile edit, Mobile web edit) (thank)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Ghana Marɔbi Afiyɛli: 15.36 . (+65) NanaYawBotar (sanegbaa l oyeɛkbuamo) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Ghana Marɔbi Afiyɛli: 15.26 . (+21) NanaYawBotar (sanegbaa l oyeɛkbuamo) (added Category:Wɔpɔga sɛnɛ Ahegbɛ) (thank)
- (ɛrɔto l biema sɛnɛ) . N Wɔpɔga/Ghana Marɔbi Afiyɛli: 15.28 . (+176) NanaYawBotar (sanegbaa l oyeɛkbuamo) (Created page with "Ghana Marɔbi Afiyɛle taɔ mɔi abo ke maɔ ny no ni mɛi je ke wiemoɔ ni maɔbi weo ke maɔbi le jama. Aye mɔi 30.832.019 ye Ghana maɔ te mɔi (2021 census).") (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . Wɔpɔga/Wiku: 15.24 . (+500) Jɔdidah Nyarɔyo (sanegbaa l oyeɛkbuamo) (nyɔmaa rotasɔmo) (Tag: Visual edit) (thank)
- (ɛrɔto l biema sɛnɛ) . m Wɔpɔga/Wɛdɔ Obɔ Wɛdɔwɔtɔwɔ: 15.24 . (+2) Niamah00000 (sanegbaa l oyeɛkbuamo) (-Niamah00000)

List of abbreviations:

- D** Wikipedia taawo
- N** Tsakamo nɛɛ obo bɛa hea (naa hubarta hea aɔpɔ)
- m** Tsakamo for ce
- b** For it taɔke
- l**(/2) Bɛa it obo taɔke aɔpɔ tobi abo nɛɛ
- ⓘ** Temporarily switched page

Ntsuɔmo he dadeɛi (text)

General

Atom

Loomo taɔli le owo mɔi Baaɔli kɔwɛɛɛ

Bo ni abasany aɔha

Social Studies Campaign for Wikidat... Home Timeline Editors Articles Uploads Activity Resources

58 796 8.04K 28[ⓘ] 115K 159[ⓘ] 1.05M 203[ⓘ]

Articles Created Articles Edited Total Edits Editors Words Added References Added Article Views Commons Uploads

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General	Items	Claims	Labels
1,64K Total revisions	56 Created	561 Created	192 Added
5 Merged	4 Cleared	76 Changed	13 Changed
185 Interwiki links added		34 Removed	3 Removed

Descriptions	Aliases	Other
204 Added	145 Added	0 Qualifiers added
55 Changed	1 Changed	0 [ⓘ] References added
0 Removed	4 Removed	5 Redirects created
		86 Other updates

Lexeme

0 Created

Twi Language Campaign for Wikidat... Home Editors Articles Uploads Activity

45 60 765 23 734K 0[ⓘ] 1.68K

Articles Created Articles Edited Total Edits Editors Bytes Added References Added Article Views

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General	Items	Claims	Labels
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0 Merged	0 Cleared	1 Changed	0 Changed
0 Interwiki links added		1 Removed	0 Removed

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0 Changed	0 Changed	0 [ⓘ] References added
0 Removed	0 Removed	0 Redirects created
		16 Other updates

Lexeme

6 Created

Twi Language Campaign for Wikidat... Home Editors Articles Uploads Activity

56 87 912 7 341K 1[ⓘ] 4.55K 35[ⓘ]

Articles Created Articles Edited Total Edits Editors Bytes Added References Added Article Views Commons Uploads

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General	Items	Claims	Labels
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0 Merged	0 Cleared	13 Changed	0 Changed
0 Interwiki links added		48 Removed	0 Removed

Descriptions	Aliases	Other
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2 Changed	0 Changed	0 [ⓘ] References added
0 Removed	0 Removed	0 Redirects created
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Lexeme

0 Created

This may only be a partial count of references added. It is based on Wikidata edit summaries, and some edits that add references are classified as a "Changed claim" or "Created claim" instead.

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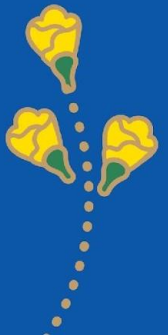
Some photos from our first social studies campaign. Link to images: w.wiki/6kYz



Highlight videos from our social studies campaign.



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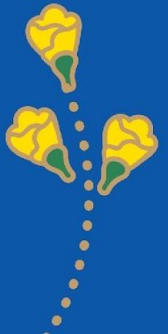
Local language campaigns

So far we have held three campaigns in the Twi Wikipedia with the Twi Wikipedia Community in Ghana and have held one Ga Wikipedia campaign with the Ga community helping bring it from incubator.

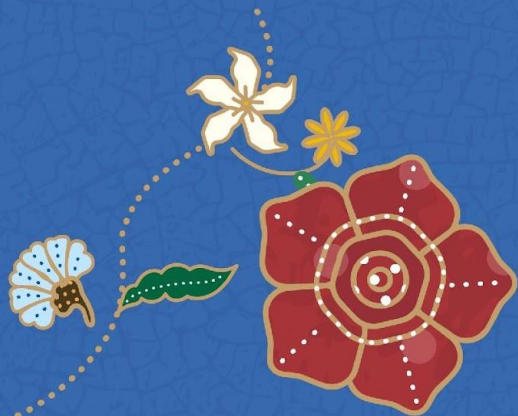


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So far we are in the last few weeks of the campaigns and we are excited about what we are learning and how its going generally.



Speakers



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Mohammed, Fuseini
Wikimedian in
Residence
Wikidata for
Education



Justice Okai-Allotey
User:Owula kpakpo
Project lead for Campaigns
Wikimedia Ghana User
Group, Wikidata for
Education



Abelhad Soukaina
Wikimedian by heart and
data scientist by profession



THANK YOU



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