





## How can open educational video resources be made more accessible for remixing and translation beyond posting on YouTube?

Anelda van der Walt & Batool Almarzoug

22nd of Sep 2021

© global summit







#### About us ~ Anelda van der Walt



- Background in Bioinformatics.
- Founded a small South African consulting firm, <u>Talarify</u>, in 2014.
- Supports researchers and students in Africa across all disciplines to adopt aspects of open science and reproducible research to enhance the impact of their research.
- Twitter: <u>@aneldavdw</u>



#### About us ~ Batool Almarzouq



- Post-doc in <u>KAIMRC</u>, Saudi Arabia and Honorary Research Fellow at <u>the University of</u> <u>Liverpool</u>, UK
- A member of <u>R-Ladies Global committee</u>, a worldwide organization to promote gender diversity in the R community.
- Founded the <u>Open Science Community in</u>
   <u>Saudi Arabia (OSCSA)</u>, which aims to create
   significant value towards Saudi Arabia's Vision
   2030.
- Twitter: <u>abatool664</u>, <u>Personal Website</u>

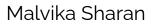






#### A big Thank You to our Team!







Yo Yehudi



**Emmy Tsang** 



Nelsy Mtsweni



Asmaa Nofal





#### What do we hope to see?

- Re-evaluation of best practices for sharing educational videos under CC licenses
- Adopting our workflow for other programmes.

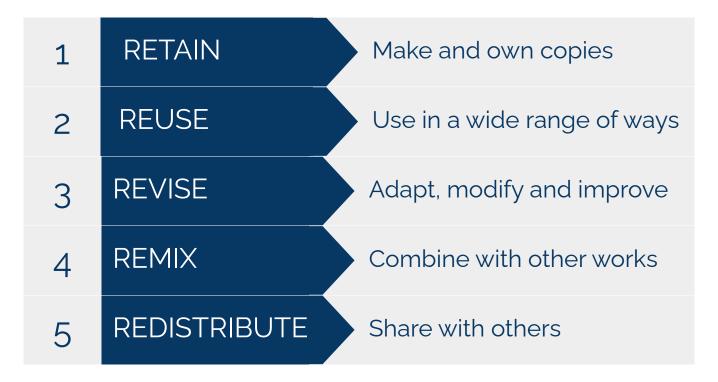
Contribute translations to the Open Life
 Science videos and use it in your own open
 science communities.

Access to the YouTube playlist here





#### The 5 Rs of Open Educational Resources



David Wiley. (2014). Open Education: A "Simple" Introduction. <a href="https://www.slideshare.net/opencontent/open-education-a-simple-introduction">https://www.slideshare.net/opencontent/open-education-a-simple-introduction</a>





#### YouTube is tremendously popular for learning!

RANK	PERSONAL LEARNING	WORKPLACE LEARNING	EDUCATION
1	YouTube	Zoom	YouTube
2	Google Search	Microsoft Teams	Google Docs & Drive
3	LinkedIn	Google Search	PowerPoint
4	Twitter	PowerPoint	Zoom
5	Wikipedia	YouTube	Google Search

- YouTube was **number 1 on the Top 300** list in 2021
- Learning professionals (and others in related areas) nominate Top 10 (digital) tools for learning
- Running since 2007
- Generated from 2,077 votes from 33 countries and published on 1 September 2021

https://www.toptools4learning.com/

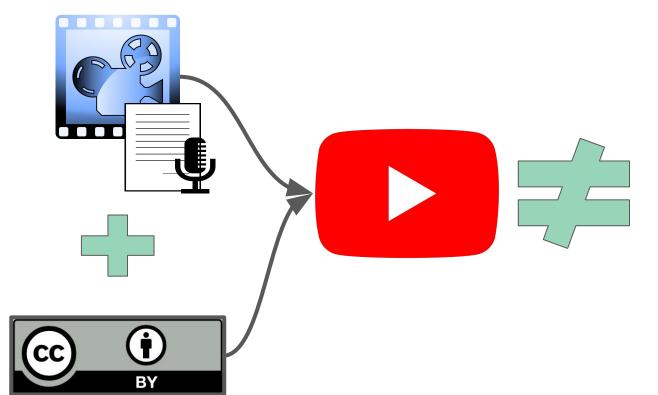




# Many OER guides point to YouTube

as source of OER videos

#### Typical workflow for recordings of talks

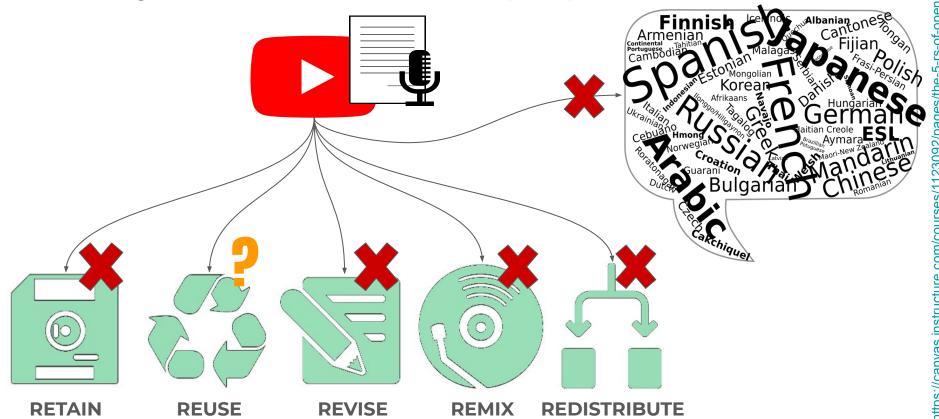


















#### Language barriers

- Open Science is a global movement, BUT most of its materials/resources are published in English.
   Non-English native speakers suffer a genuine disadvantage.
- Out of the world's approximately 7.8 billion inhabitants, 1.35 billion speak English. The majority aren't native English speakers.
- English is only spoken by 4.83 percent of the world population as first language



The Turing Way project illustration by Scriberia. Used under a CC-BY 4.0 licence. DOI: 10.5281/zenodo.3332807







#### The Open Life Science mentoring and training program

16-week long mentorship and cohort-based training

Cohort-based training

1 on 1 mentoring

Hands on practice

Community-driven program that enables newcomers and long-time practitioners to become Open Science ambassadors https://openlifesci.org/

https://doi.org/10.5281/zenodo.5017712

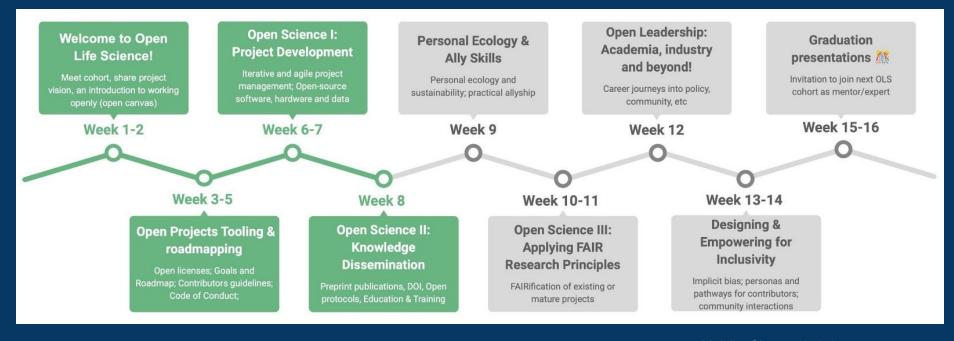


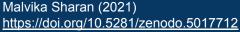




## Open Life Science

#### **OLS Program Structure**









#### **OLS Program Status**



#### Completed

- 3 cohorts, 91 different projects
- 257 volunteers as project leads, mentors, experts, supporters
- 6 continents, 45 countries with diverse social-cultural contexts
- 17 partnering organisations

#### **Ongoing**

4th cohort just kicked off with 26 new projects



CC-BY 4.0, DOI: 10.5281/zenodo.5017713



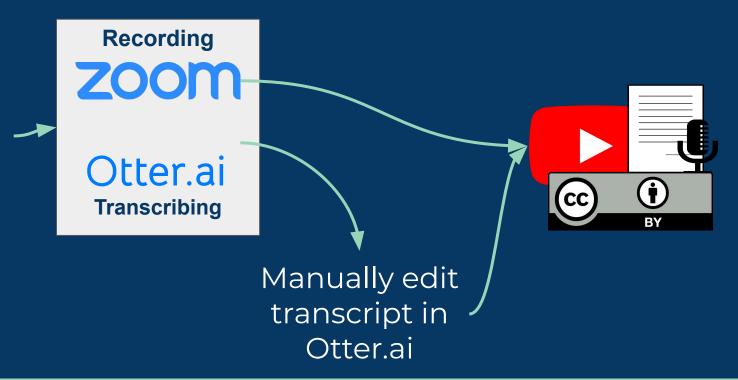




#### **OLS Process for Sharing Recorded Talks**



Virtual cohort meeting with shorter presentations embedded in meeting



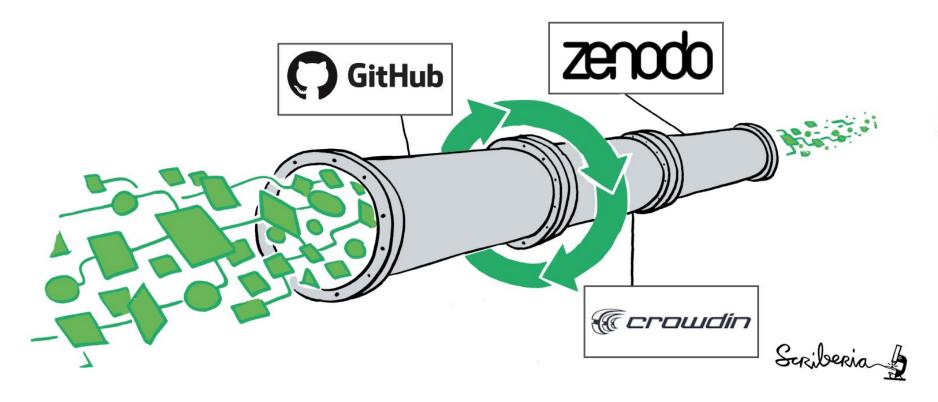


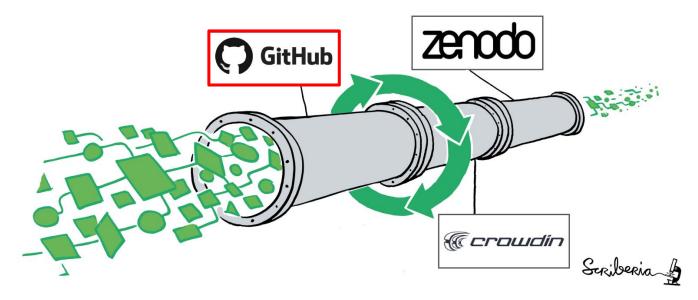




Based on a need identified by the newly established Saudi Arabia
Open Science community, we developed a workflow to make
recorded talks and associated transcripts more open and
available for remix and reuse

#### We created a pipeline to make OLS YouTube videos reusable!



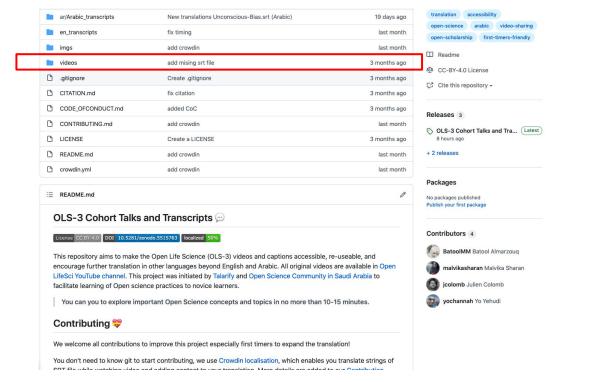




- A repository for all the project, linked to **Crowdin**
- Version control for translation
- Acknowledging contributors



#### All SRT files and their respective videos are in GitHub



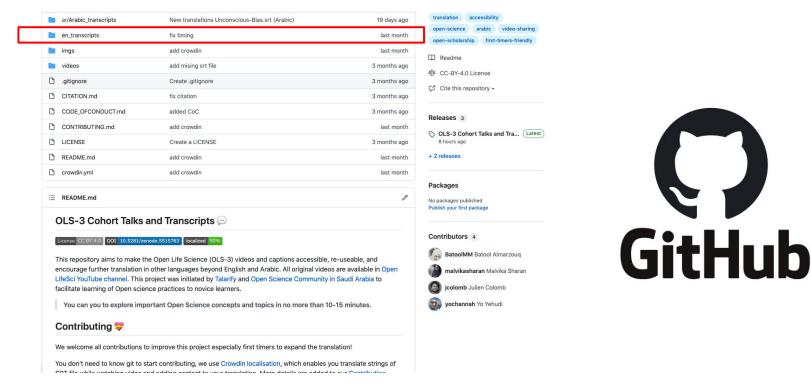


Access our project in GitHub here: https://github.com/open-life-science/ols3-cohort-talks-and-transcripts





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#### Transcripts format is SRT in GitHub

#### Section of subtitles number

00:00:00,200 --> 00:00:02,600

So this is a video example and here I just want to show you

Time the subtitle is displayed begins and ends

00:00:02,600 --> 00:00:05,800

how to quickly add some subtitles, a lovely progress bar and

00:00:05,800 --> 00:00:08,300 then a neat title using Veed.

Subtitle that will appear on screen

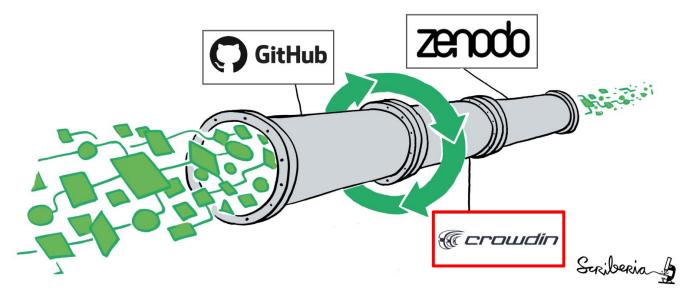


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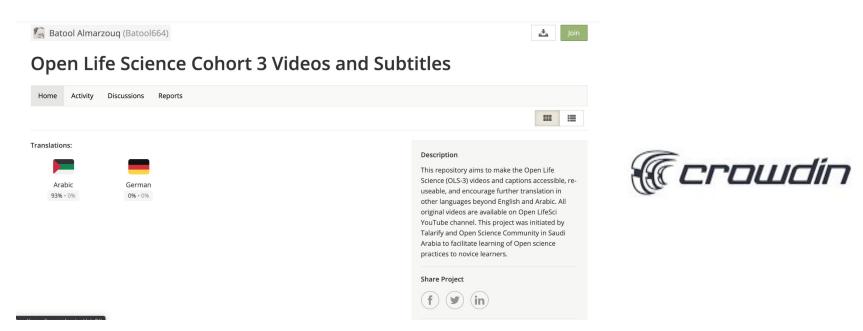


- Extract strings from **SRT** file to be translated.
- Generates localized files & CI to GitHub (PR).
- Uses glossary and Machine Translation (MT).





You don't need to know or understand GitHub at all to contribute or use the materials









We create, store, and manage all the project terminology in one place (Glossary) to keep translations swift and **consistent!** 

#### Resources

Managers Vendors Translation Memory Glossaries Machine Translation	anslation Workflows Marketplace Extensions	
⟨ Glossaries List Open Life Science Cohort 3 Videos and Subtitles 's G	Silossary	
Upload Download =+ Add Term = Search terms	1-14 out of 14	< > iii
☐ English	Arabic	Actions
□ cc	(CC) رخص الشاع الإبداعي	Edit Delete
☐ CC-BY license	(CC BY) رخص الشاع الإبداعي	Edit Delete
☐ FAIR	فير (FAIR)	Edit Delete
☐ bioRxiv	(bioRxiv) ييوركسيف	Edit Delete
☐ creative commons	(creative commons) الشاع الإبداعي	Edit Delete
open Life Science	برنامج علوم الحياة المفتوحة	Edit Delete
☐ open licenses	(open licenses) التراخيص المفتوحة	Edit Delete
open science movement	حركة العلوم المقتوحة	Edit Delete
□ open source	open source) مفتوحة المسرر	Edit Delete
open source hardware	(open source hardware) الأجهزة مفتوحة المصدر	Edit Delete
☐ preprints	(preiprint) النسخ الأولية	Edit Delete
☐ reproducibility	(reproducibility) القابلة لإعادة الإنتاع	Edit Delete

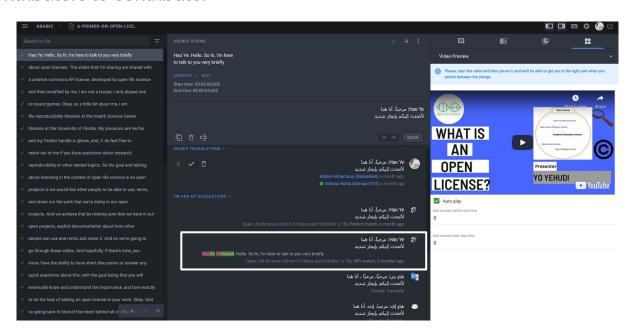








We use **Translation Memory** and Machine Translation (Crowdin, Google, ...) to make it easier for new contributors to contribute!



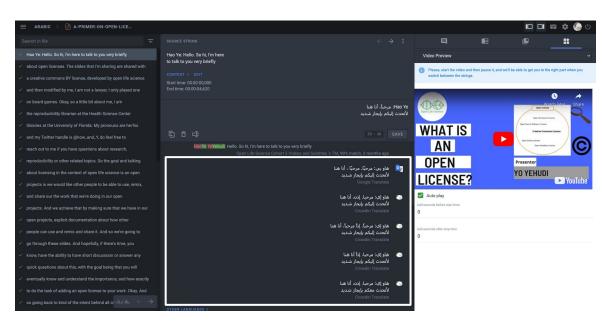








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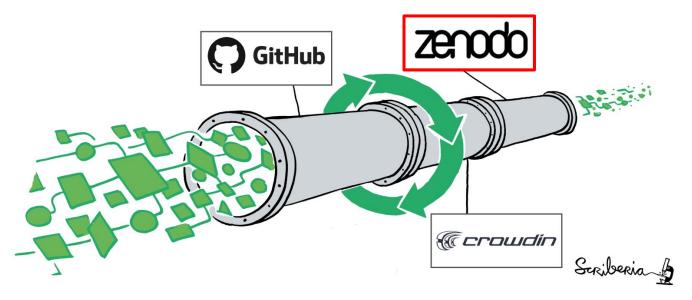












3 zenodo

- Generate a persistent identifier (**DOI**)
- Make the materials accessible to download (for individuals who can't use GitHub)



#### Our Materials in Zenodo

#### Mini Talks/Videos about Open Science from OLS-3 Cohort

Malwika Sharan, ② Emmy Tsang, ③ Yo Yehud; ② Bérénice Batut; ⑥ Carlos Martinez; ④ Helena Rasche; Hao Ye; ⊙ Esther Plomp; ⑥ Andre Maia Chagas; Georgia Altkenhead; Suzanne Iwai; Otis Smith; Emma Anne Harris Thomas Mboa; Alex Holinski; Zulidyana Rusnalasari; Nelsy Misweni; Rowland Mosbergen; ⑥ Iratve Puebla; ⑤ Sarah Markham; ⑥ Neil P. Chue Hong; ⑥ Lenny TeytelmaN; ⑥ Batool Almarzoug; ⑥ Anelda van der Walt

We aim to present important topics in Open Science (e.g. open Licence, open review, open access, open sources, agile, open protocols, ...) within 10-15 minutes videos with subtitles and translations.

This is a collection of **Open Life Science (OLS-3) videos and captions** in order to make them accessible, re-useable, and encourage further translation in other languages beyond English and Arabic.

All original videos are available on Open LifeSci YouTube channel. This project was initiated by Talarify and Open Science Community in Saudi Arabia to facilitate learning of Open science practices to novice learners.

#### Individual videos can be downloaded from the GitHub repository:

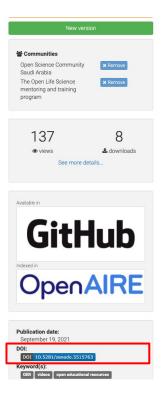
- · Introduction to Open Life Sciences
- Open Canvas for Project Strategy
- Roadmapping for Open Projects
- A Primer on Open Licenses
- README for Open Projects
- Contributing Guidelines and Codes of Conduct for Open Projects
- · Agile and Iterative Project Management Methods
- Open Source in Research
- Open Data
- · Open Source/Science Hardware
- · Preprint adoption in the life sciences by ASAPbio
- Open Protocols
- · Participatory Citizen Science
- FAIR Data
- FAIR Training
- FAIR software
- Open Leadership Career Guidance: Social Entrepreneurship
- Open Science Hardware
- Indonesia and the Impact on Open Science
- Unconscious Bias
- Personas and Pathways
- Explore the Mountain of Engagement in 10 Minutes

They are also available on a playlist on YouTube.

#### Contributing §

We welcome all contributions to improve this project especially first-timers to expand the translation!

You don't need to know git to start contributing, we use Crowdin localisation, which enables you to translate strings of SRT files while watching the video and adding content to your translation. More details are added to our Contribution



#### Cite as:

Malvika Sharan, Emmy Tsang, Yo Yehudi, Bérénice Batut, Carlos Martinez, Helena Rasche, Hao Ye, Esther Plomp, Andre Maia Chagas, Georgia Aitkenhead, Suzanne Iwai, Otis Smith, Emma Anne Harris, Thomas Mboa, Alex Holinski, Zulidyana Rusalasari, Nelsy Mtsweni, Rowland Mosbergen, Iratxe Puebla, ... Anelda van der Walt. (2021, September 19). Mini Talks/Videos about Open Science from OLS-3 Cohort (v.1.1). Zenodo. https://doi.org/10.5281/zenodo.5515763

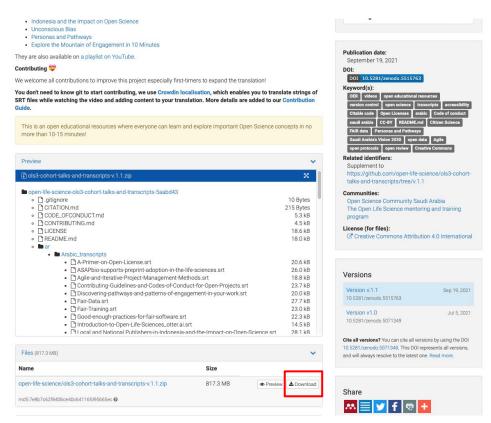
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#### Our Materials in Zenodo



#### Cite as:

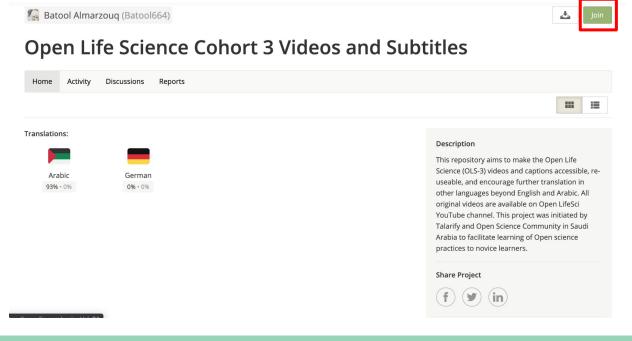
Malvika Sharan, Emmy Tsang, Yo Yehudi, Bérénice Batut, Carlos Martinez, Helena Rasche, Hao Ye, Esther Plomp, Andre Maia Chagas, Georgia Aitkenhead, Suzanne Iwai, Otis Smith, Emma Anne Harris, Thomas Mboa, Alex Holinski, Zulidyana Rusnalasari, Nelsy Mtsweni, Rowland Mosbergen, Iratxe Puebla, ... Anelda van der Walt. (2021, September 19). Mini Talks/Videos about Open Science from OLS-3 Cohort (v.1.1). Zenodo. https://doi.org/10.5281/zenodo.5515763

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Join the translation Team through this invitation link or visit or Crowdin page and click join!



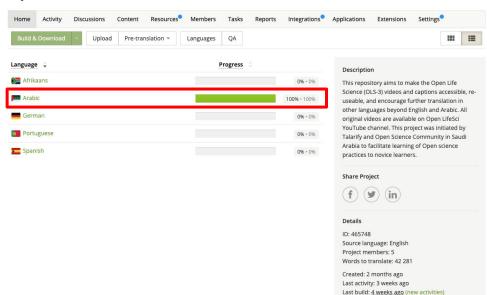






• Join the translation Team through this invitation link or visit or Crowdin page and click join!

#### Open Life Science Cohort 3 Videos and Subtitles





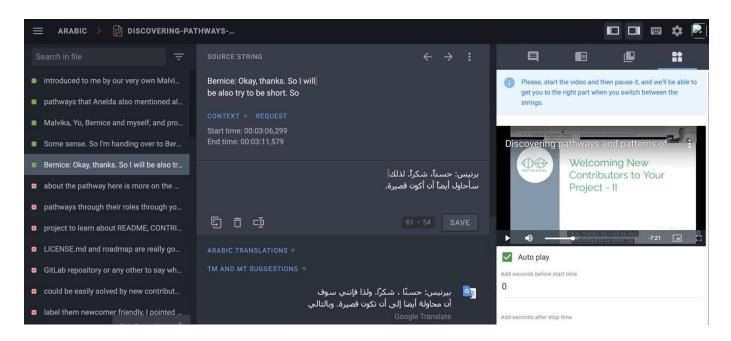








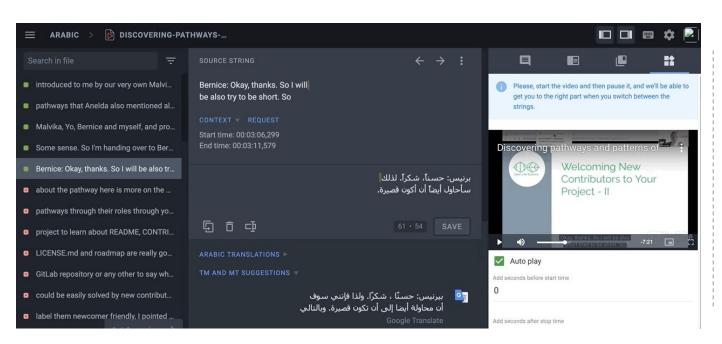
You can translate strings of SRT file while watching video







You can translate strings of SRT file while watching video



Once you
translate a string,
a pull request
will open in
GitHub
(automatically)
using GitHub
actions with the
new translated
string to be
approved by the
maintainer



We welcome new contributors to add new languages!



#### **Open Life Science Cohort 3 Videos and Subtitles**



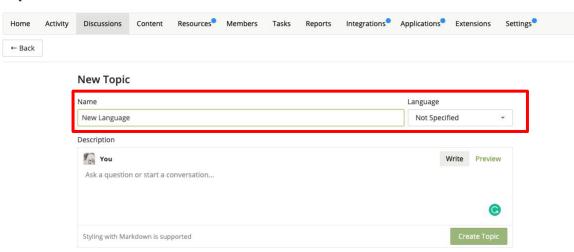






We welcome a new contributors to add new language!

#### **Open Life Science Cohort 3 Videos and Subtitles**







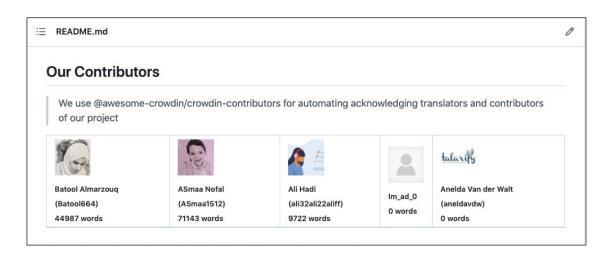




#### How do we acknowledge contributors?

We acknowledge contributors to our project using

@awesome-crowdin/crowdin-contributors (automation bot) in the README.md









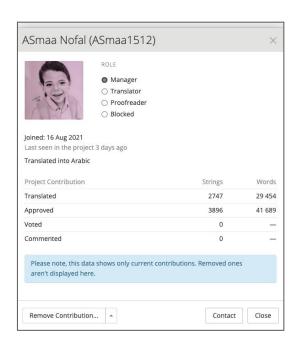


#### How do we acknowledge contributors?

A profile, which shows how many strings translated/approved/voted or

commented in Crowdin.









### Are you struggling in translating other Open Science materials?

- If you are translating a project which include Open
   Science Terminology, we are very happy to share our glossary and Translation Memory with you!
  - Crowdin **enable** sharing glossary across different projects.
- We are also happy to help you implement this pipeline in any open educational resources (OERs) that you are creating!







#### What do we hope to see?

- Re-evaluation of best practices for sharing educational videos under CC licenses
- Adopting the workflow for other programmes.

 Contribute translations to the OLS videos and use it in your own open science communities.

Access to the YouTube playlist here







# Thank you for your time! Now we would love to hear from you...





#### **Image Credits**

<u>Pixabay</u>, <u>YouStudy</u>, <u>Veed.io</u>, and <u>unsplash</u> unless otherwise indicated