Empowering Educators with OER: Creating, Customizing, and Sharing Open Content

"With OER, educators move from passive consumers to empowered creators of knowledge."

Ms. Sushumna Rao Tadinada
Learning Designer from India
Founder- h5pcatalogue.in

Poll- "Have you ever faced limitations in using, modifying, or sharing content because of copyright restrictions?"

- Yes, I often (face copyright challenges that limit my ability to modify or share content.)

- Sometimes, (but I'm not always sure about what I'm allowed to do.)

- I avoid modifying or sharing content (to avoid potential copyright issues.)

- No, (I've never faced any issues with copyright.)

- I'm not sure (how copyright applies to teaching content.)

Poll

- Are you familiar with OER? Yes, No

- Have you (re)used OER?

  - **Yes, Yes remixing , Heard but never, No**

- Co-created OER?

  - **Yes, with peers, Yes with Students, No**

Open Educational Resources OER

"Learning, teaching and research materials in any format and medium that reside in the **public domain** or are under copyright that have been released under an **open license**, that **permit no-cost access, re-use, re-purpose, adaptation and redistribution** by others."
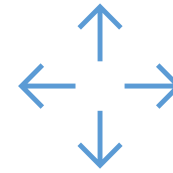
UNESCO Recommendation on OER (2019)

What is Open?
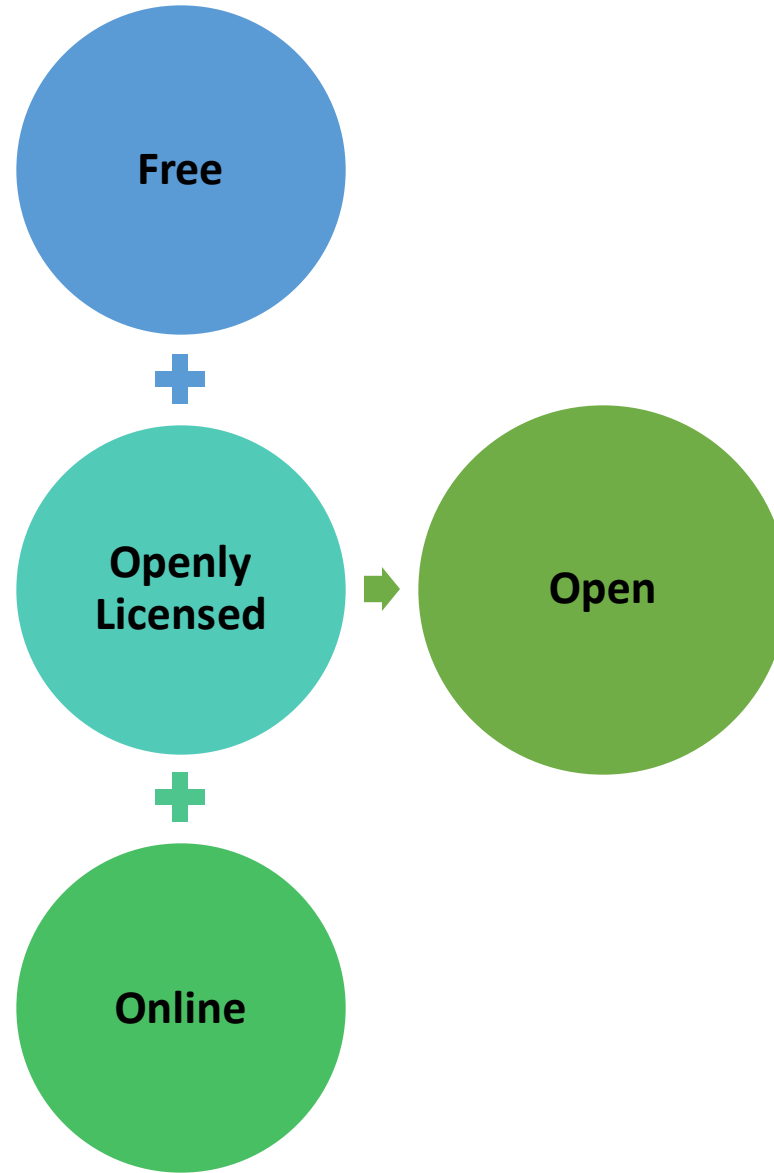
Copyright and Open Licenses

- Copyright
  - All rights reserves
- Openly Licensed
  - Some rights reserved
- Public domain
  - No rights reserved
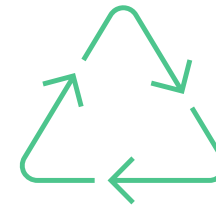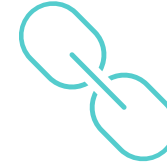
5Rs of OER

- OER
  - Free with permissions

Revise
- Adapt, adjust, modify, or alter the content itself

Remix
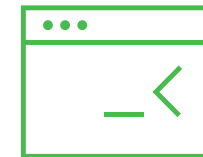- Combine the original or revised content with other material to create something new

Reuse
- Use the content in a wide range of ways

Retain
- Make own, and control copies of the content

Redistribute
- Share copies of the original content, your revisions, or your remixes with others

Creative Commons Licenses

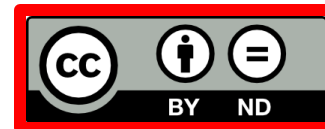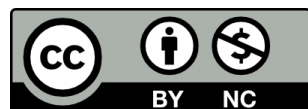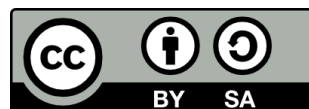**BY - Attribution:** Credit must be given to the creator/author

SA - Share Alike: Must be shared under the same terms

NC - Non Commercial: Only noncommercial use of the work is permitted

ND - No Derivatives: No derivatives or adaptations of the work is possible
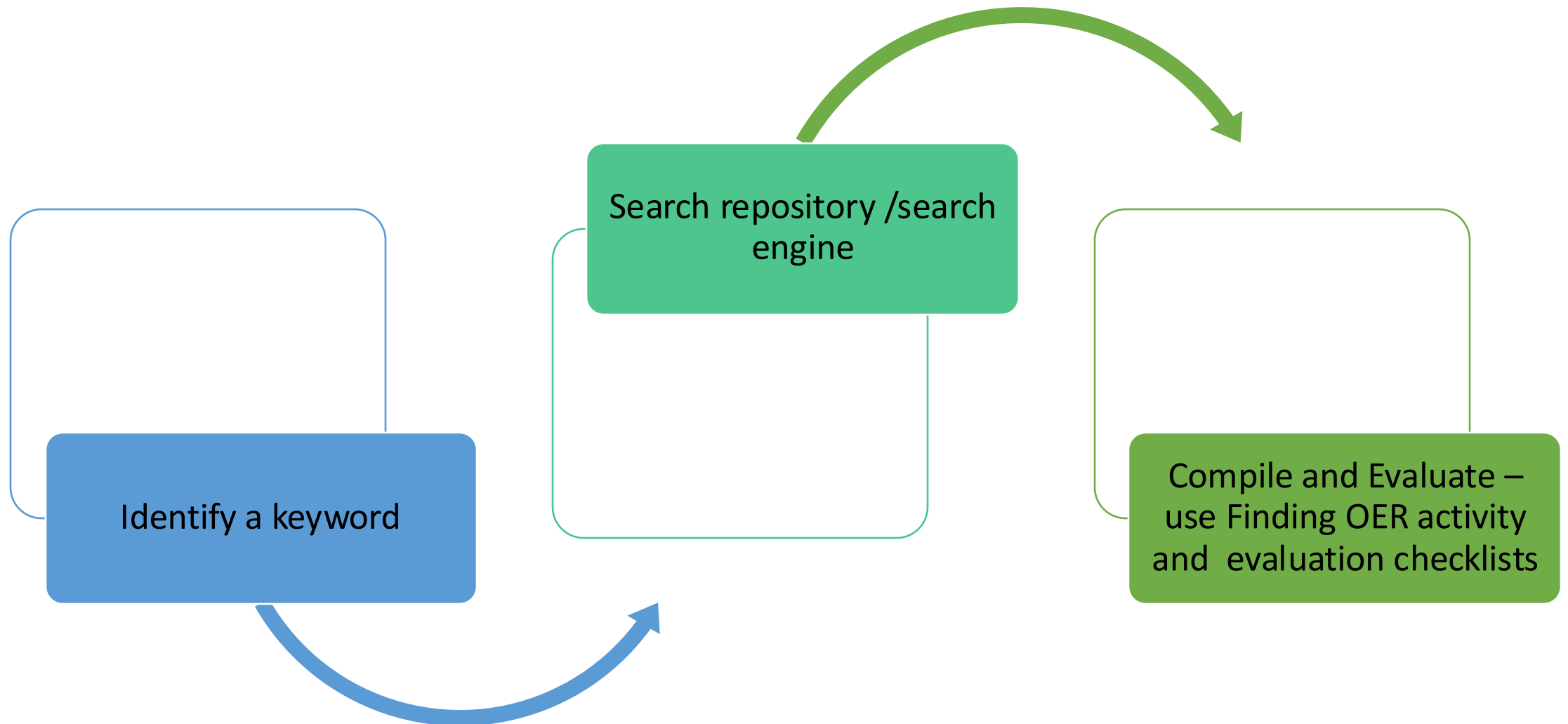
Finding OER

Use Search engines

- search by keyword / use filters
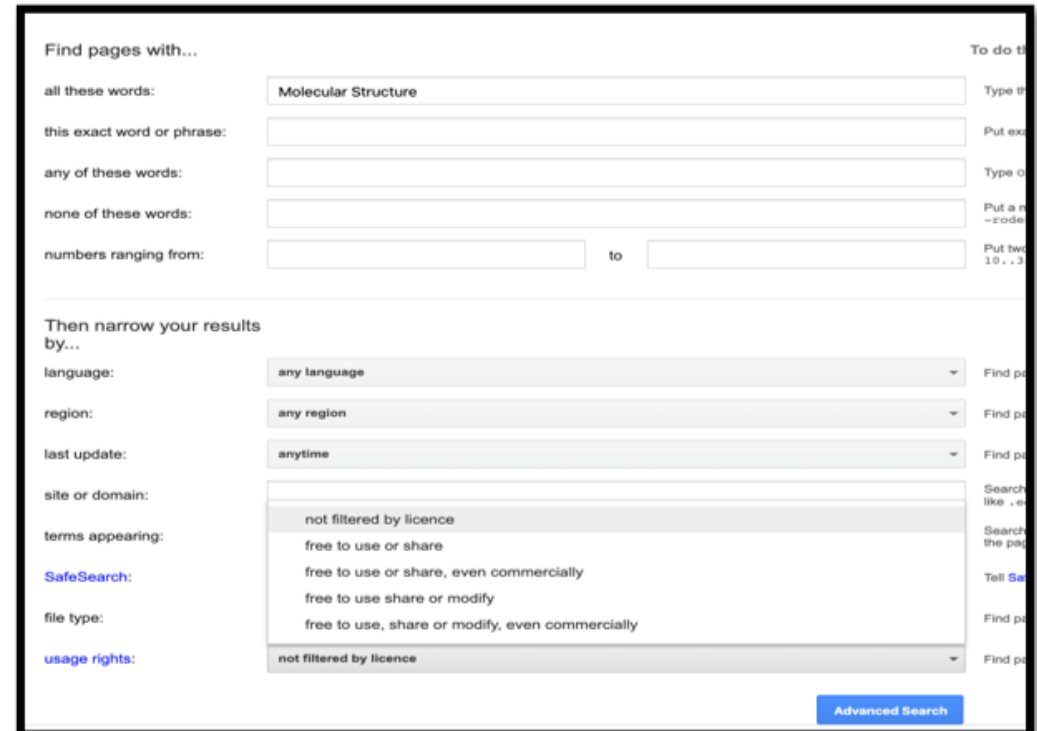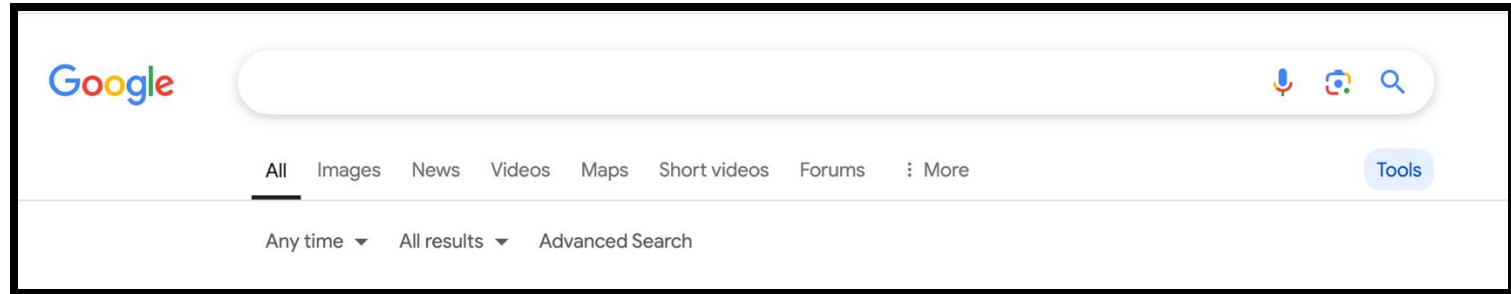
Search in repositories

- Public / Institutional

Three steps to follow while searching

Identify a keyword

Search repository /search engine

Compile and Evaluate – use Finding OER activity and evaluation checklists

How to search using Google Chrome?

- The Google search engine has an "**Advanced Search**" that allows to search by usage rights

- The **Advanced Search** dialogue can be found under the Tools or can be directly accessed at https://www.google.com/advanced_search

- Under Usage rights select desired license

OER Repositories

Textbooks, syllabi, lecture notes, simulations, classwork activities, courseware...

- OER Commons
- ecampusontario Open Library
- PhET Science Simulations
- BC OpenEd
- Galileo (GeorgiA LIbrary LEarning Online)
- https://milneopentextbooks.org/
- https://openstax.org/
- MIT Open Course Ware
- MERLOT
- NPTELOER Afrcia
- Open Textbook Library University of Minnesota
- Teaching Commons
- Pressbooks Directory

Searching Videos

- Search for keyword in **YouTube** search bar and select Filter

- Under Features select Creative Commons and always check license of the video by Clicking on "Show More"

- Using **Openverse** search over 800 million free and openly licensed creative works (images, photos, audio, and other media types for reuse and remixing)
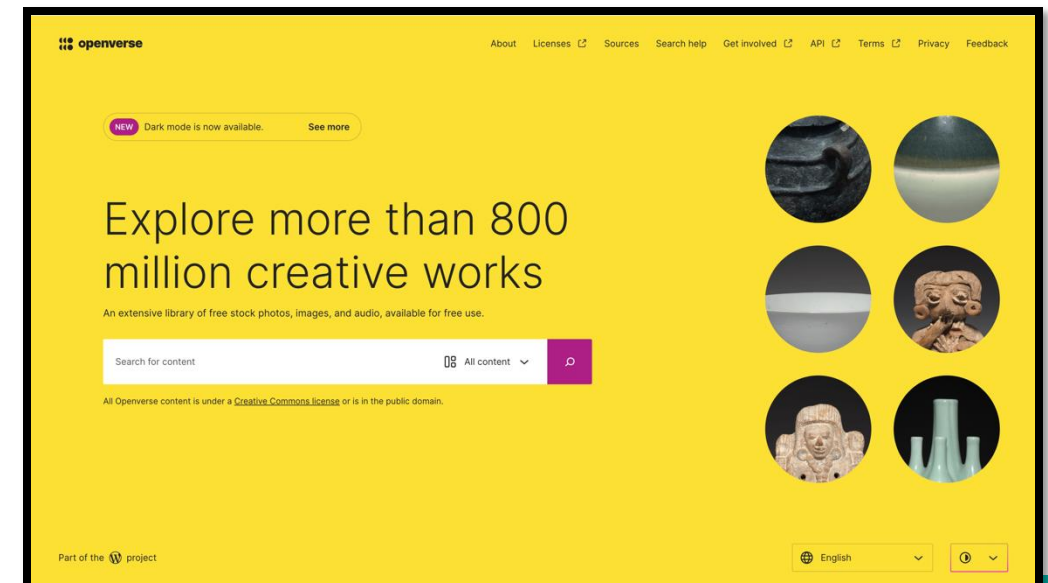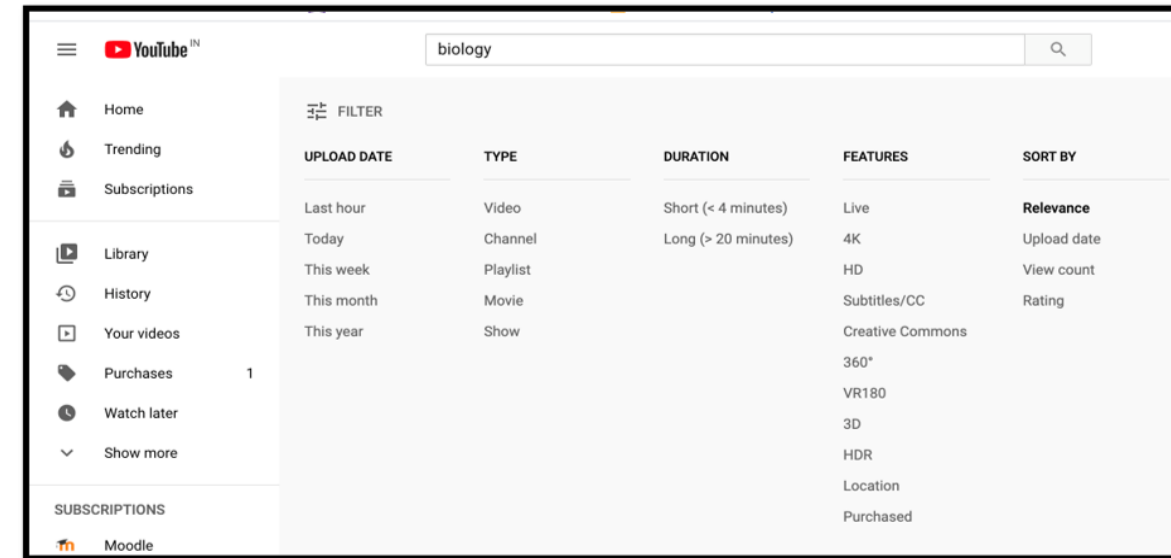
Need a Demo?

Adapting and Remixing OER – Making It Your Own

- *"Imagine you've found an OER **image** and another **text resource** that fits your course but needs some modifications. How would you approach adapting it?"*

Check License Compatibility

	PUBLIC DOMAIN (CC)	PUBLIC DOMAIN (0)	CC BY	CC BY SA	CC BY NC	CC BY ND	CC BY NC SA	CC BY NC ND
PUBLIC DOMAIN (CC)	✔	✔	✔	✔	✔	✖	✔	✖
PUBLIC DOMAIN (0)	✔	✔	✔	✔	✔	✖	✔	✖
CC BY	✔	✔	✔	✔	✔	✖	✔	✖
CC BY SA	✔	✔	✔	✔	✖	✖	✖	✖
CC BY NC	✔	✔	✔	✖	✔	✖	✔	✖
CC BY ND	✖	✖	✖	✖	✖	✖	✖	✖
CC BY NC SA	✔	✔	✔	✖	✔	✖	✔	✖
CC BY NC ND	✖	✖	✖	✖	✖	✖	✖	✖

Is this possible to remix?

- [CC BY-SA 4.0](CC BY-SA 4.0)

- The National Agricultural Literacy Curriculum Matrix is licensed under a [CC BY-NC-SA/4.0/](CC BY-NC-SA/4.0/)

OER is Transformative for Educators

- Enhancing **accessibility, affordability, and flexibility**.
- Promoting **collaboration and sharing** across institutions.
- Allowing **localization and use in culturally responsive pedagogy**.

Adapting and Remixing OER - Examples

- Found an Open textbook and its license permits reuse, repurpose, so one can **add interactivity / translate/modify**

- Found interesting OER and can combine all of them along with the self created material as a collection with open license **– make sure to attribute each and every OER used / or third party resources used.**

  - Always keep track of OER used in a collection with license while building the resource

How to attribute?

Follow TASL format

- **T –** Title of the work

- **A –** Author of the work

- **S –** Source of the work

- **L –** License applied to the work

Follow guidelines

- Sometimes there might be specific instructions on how the CC license information to be attributed on OER page.

- If needed for clarity try to contact the creator/original source to ask for clarification.

Examples

A collection and remix

- https://pressbooks.justwrite.in/interactive-biology-secondary/chapter/cell-structure-and-function/

Special instruction to attribute

- https://agclassroom.org/matrix/lesson/560/

Creative Commons (CC) License Chooser

- CC License Chooser Helps to select the most appropriate Creative Commons (CC) license for their work.

- Provides clear information about the different licenses and their implications with guided questions.

- Output: Generated:

    - License name (e.g., CC BY, CC BY-SA, etc.)

    - A machine-readable code to embed in websites.

    - A clickable license badge with appropriate attribution and metadata.

Open Attribution Builder

- [This tool](#)help you easily cite open material you find; as you fill out the form the application will automaticall generate the attribution for you.

Need a Demo?

Creating, and Sharing OER
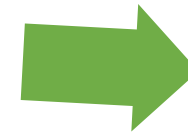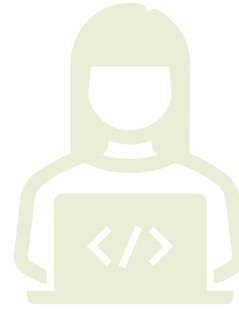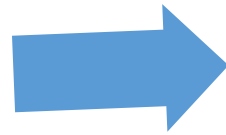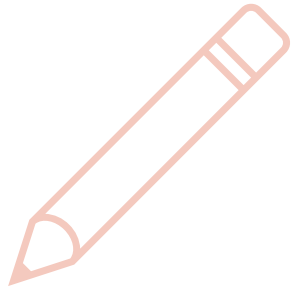
Confirm Authorship/Ownership

- Ensure you hold the copyright or have adapted/remixed under appropriate licenses.
- Apply a **Creative Commons License** if creating new content.

Choose a Publishing Platform - examples include

- **OER Commons:** Ideal for lesson plans, activities, and general content.
- **Google Docs/Word Docs:** For documents that can be shared publicly.
- **Pressbooks:** For creating interactive and multimedia-enriched open textbooks.
- Wikimedia, Flickr for Images

Share and Publish

- Add appropriate **metadata and licensing information**.
- Promote collaboration by sharing your OER with the community.

Benefits and Challenges

Benefits

- Lower the textbook costs
- Provide opportunity to collaborate
- Wide reach
- Promotes effective teaching learning process

Challenges

- Access to internet
- Many require specific skills and time
- Need constant Update
- Maintain quality
- Accessibility compliance

Thank You!

- sushumnarao@gmail.com
- tsrao@yorku.ca

References & Further Readings

- https://creativecommons.org/

- https://wiki.creativecommons.org/wiki/Recommended_practices_for_attribution

- https://www.openwa.org/attrib-builder/

- https://chooser-beta.creativecommons.org/

- https://h5pcatalogue.in/node/501

- https://h5pcatalogue.in/node/499

- https://h5pcatalogue.in/node/487

- https://pressbooks.justwrite.in/interactive-biology-secondary/chapter/cell-structure-and-function/

- https://h5pcatalogue.in/node/472#h5pbookid=1399&section=top&chapter=h5p-interactive-book-chapter-3859c6d4-8cba-4e17-9516-a5a99aedc414