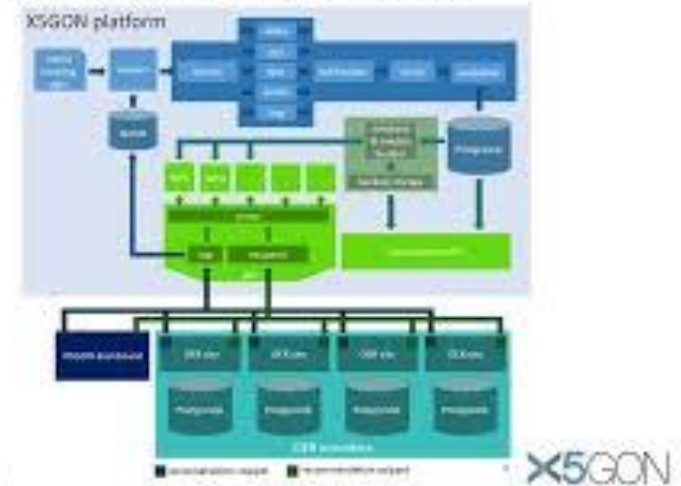


Cross Modal,  
Cross Cultural,  
Cross Lingual,  
Cross Domain,  
and Cross Site Global  
OER Network



## X5GON Platform Architecture



# API endpoint Manual

Sahan Bulathwela, Walid Ben  
Romdhane and Victor Connes

# X5GON



X5GON (<https://platform.x5gon.org/>)

A new AI-driven platform that will deliver OER content from everywhere, for the students' need at the right time and place.

- ***Aggregation***
- ***Curation***
- **Personalization**
- **Creation**

# Materials Catalogue



- A full dataset of all the materials in X5GON (100K OERs)
- Data Found at: <https://bit.ly/2pT5TFR>
- Summary information about OER materials
  - **id:** Material ID to be used to query the APIs
  - **title:** title of the OER resource
  - **type:** Type of content (pdf, mp4 etc.)
  - **language:** Language (en, fr, sl etc.)
  - **keywords:** A set of keywords about the content (Not ordered)
  - **concepts:** Most relevant Wikipedia concepts about content (Most relevant to least relevant)

# Materials Catalogue

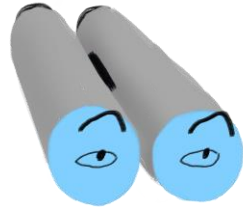
- A full dataset of all the materials in X5GON (100K OERs)
- Data Found at:

<https://bit.ly/2pT5TFR>

X5GON currently supports 2 main APIs:

- 1. Feed API:** The set of endpoints that will allow browsing and accessing meta-information about the OER materials feed.
- 2. Learning Analytics Machine (LAM API):** The set of API endpoints that provide AI features extracted from the OER materials

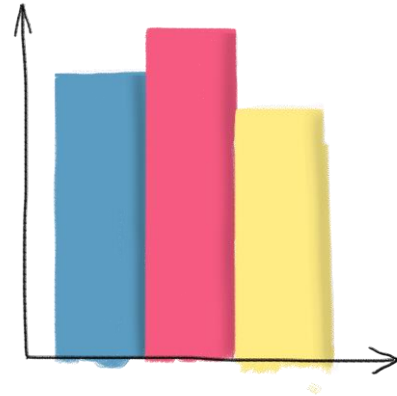
# Feed API



- **Base URL :** <https://platform.x5gon.org/api/v1>
- **Docs:** <https://platform.x5gon.org/products/feed>
- **Two main components:**
  - **Query REST API**
    - <https://platform.x5gon.org/products/feed#query-rest-api>
  - **Recommender REST API**
    - <https://platform.x5gon.org/products/feed#recommender-rest-api>

# Learning Analytics Machine API (LAM API)

- **Base URL :** <https://platform.x5gon.org/api/v1>
- **Docs:** <http://wp3.x5gon.org/lamapidoc>
- **Multiple components:**
  - **Temporal**
  - **Distance**
  - **Difficulty**
  - **Pre-process**



# Python Coding Examples

- Go to Google **colab** document at:

<https://bit.ly/2p3Ygwr>

- Select *File* → *Save a copy in Drive*
- Start Building !!!