

# Findings of the WMT 2024 Shared Task of the Open Language Data Initiative

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## Abstract

We present the results of the WMT 2024 shared task of the Open Language Data Initiative. Participants were invited to contribute to the FLORES+ and MT Seed multilingual datasets, two foundational open resources that facilitate the organic expansion of language technology’s reach. We accepted ten submissions covering 16 languages, which extended the range of languages included in the datasets and improved the quality of existing data.

## 1 Introduction

Machine translation research has advanced at break-neck speed in recent years (Kocmi et al., 2023). That said, progress made in translation quality has largely been directed at high-resource languages, leaving many languages behind. More recently, the focus has shifted towards under-served languages (also called low-resource) (Haddow et al., 2022). Foundational, high-coverage datasets have made it easier to develop and evaluate language technologies for a growing number of languages. Given the high impact of these components, extending such datasets becomes imperative.

The aim of the WMT 2024 shared task of the Open Language Data Initiative (OLDI) is to empower language communities to contribute such key datasets. In particular, we solicited contributions to the MT evaluation dataset FLORES+ and the MT Seed dataset. Additionally, we also solicited other high-quality, human-verified monolingual text datasets in under-resource languages. This builds on previous work to create these datasets and extend machine translation (MT) models and evaluation tools to more languages (Guzmán et al., 2019; Goyal et al., 2022; NLLB Team et al., 2024; Maillard et al., 2023).

We accepted ten submissions to the task, and the data contributed covered 16 languages. We re-

quired all contributions to be released under open licenses so that they can be useful to as many community members as possible. We make the data available online and encourage future work to build on these foundational datasets even further.<sup>1</sup>

## 2 Related Work

In recent years, there has been a growing recognition of the need for high-quality, representative datasets to broaden access to language technologies across a more diverse range of languages. Several initiatives have emerged to address this need.

In machine translation, the FLORES family of datasets (Guzmán et al., 2019; Goyal et al., 2022; NLLB Team et al., 2024) and NTREX-128 (Federmann et al., 2022) have provided the research community with massively multilingual, professionally translated benchmark data that is open source; while NLLB-Seed (Maillard et al., 2023; NLLB Team et al., 2024) played a similar role but focused on training data. Since the release of these resources, several authors have provided coverage for new languages (Gala et al., 2023; Doumbouya et al., 2023; Aepli et al., 2023) or even extended the datasets to the speech modality (Conneau et al., 2022).

Thanks to the availability of higher-quality data for an increasingly larger number of languages, recent language identification models have been able to expand coverage. Projects such as AfroLID (Adebara et al., 2022) and OpenLID (Burchell et al., 2023) improved upon pre-existing models by a careful curation and auditing of existing data sources; while LIMIT (Agarwal et al., 2023) further expanded data coverage and performance by creating and releasing a new high-quality corpus.

Several crowdsourced projects have proven invaluable as a source of knowledge for under-served

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<sup>1</sup><https://huggingface.co/openlanguagedata>

languages. The Tatoeba project,<sup>2</sup> not designed explicitly for language technologies but as a language learning aid, provides a large database of aligned multilingual sentences. Mozilla Common Voice (Ardila et al., 2020) has enabled communities to build open-source ASR corpora for their own language and counts over 160 languages to date. The Aya initiative (Singh et al., 2024) has created the largest instruction finetuning dataset for large language models.

### 3 Datasets: FLORES+ and MT Seed

#### 3.1 FLORES+

One of the biggest challenges in extending effective natural language processing (NLP) to under-served languages is a lack of high-quality, high-coverage evaluation benchmarks. In particular, few benchmarks are suitable for evaluating multilingual translation, since this requires many-to-many alignment between different languages in the evaluation dataset.

The FLORES family of datasets was released to address this problem. While the first iteration of this dataset covered only three languages (Guzmán et al., 2019), following iterations increased coverage to 101 languages (FLORES-101, Goyal et al., 2022) and finally to over 200 languages as part of the “No Language Left Behind” project (FLORES-200, NLLB Team et al., 2024). The current iteration of this dataset set is managed by OLDI, and we refer to it as FLORES+ to disambiguate between the original datasets and this new actively developed version.

FLORES+ consists of sentences extracted from English Wikinews, Wikijunior, and Wikivoyage: 997 for the dev split and 1012 for the devtest split.<sup>3</sup> These were then professionally translated into each language (almost universally from English) and underwent quality assessment and adjustment as necessary. The fact that all sentences in all languages are translations of each other means that they can be used for any-way multilingual evaluation.

#### 3.2 MT Seed

The MT Seed dataset (previously NLLB Seed) was created as a source of “starter data” for languages without publicly-available high-quality bitext in sufficient quantity for training NLP models (NLLB

Team et al., 2024, p.23). Previous work showed that employing the relatively small amount of high-quality data in MT Seed for training models had a significant impact on performance even when larger but lower quality corpora are used (Maillard et al., 2023). By extending MT Seed, OLDI aims to improve the quality of NLP applications for under-served languages by providing an initial source of reliable training data.

MT Seed consists of around 6000 sentences sampled from the Wikipedia articles listed in English Wikimedia’s “List of articles every Wikipedia should have”. These were professionally translated into each of the 38 languages covered by the first iteration of this dataset (39 if including English). Since this dataset is intended as a source of training data rather than evaluation, it did not undergo the quality assurance as the FLORES family of datasets.

### 4 Shared Task Definition

The goal of this shared task was to expand the open datasets managed by OLDI. Primarily, we solicited contributions to FLORES+ and MT Seed (described in Section 3), which could be either fixes to existing data or entirely new translations. It also accepted other high-quality, human-verified monolingual text datasets in under-resource languages.

#### 4.1 Contributing to FLORES+ and MT Seed

To contribute to FLORES+ and MT Seed, we encouraged participants to translate from English into the target language so as to follow the original standard FLORES-200 workflow (NLLB Team et al., 2024, p.21). We required that translations were performed by qualified, native speakers of the target language and that translators acknowledged our translation guidelines (Appendix A). We strongly encouraged the verification of the data by at least one additional native speaker.

The acceptability of machine-translated content varied between the two datasets. Since the FLORES+ dataset is used to evaluate MT systems, new contributions must be entirely human-translated. Using or even referencing MT output was not allowed, including post-editing. However, post-edited MT content was allowed for contributions to MT Seed, provided all content was verified manually. This was done because MT Seed is intended for training rather than evaluation and, therefore, has less stringent translation requirements.

<sup>2</sup><https://www.tatoeba.org>

<sup>3</sup>The separate blind test set, originally developed by Meta, is not managed by OLDI and is not part of FLORES+.

Participants were encouraged to provide experimental validation to demonstrate the quality of their submitted datasets. Due to the heterogeneous nature of submissions, we left the exact nature of the experimental validation up to the participants, though we gave some suggestions. For example, MT Seed data contributions could train a simple MT model and evaluate it on FLORES+.

All submissions were labeled with the same standardized language codes used throughout OLDI. These are made up of three parts, separated by underscores:

- An ISO 639-3 language code. Macrolanguage codes must not be used if a more specific code is possible: e.g., cmn, yue, wuu, etc., rather than zho.
- An ISO 15924 script code
- A Glottocode identifying the specific language variety.

For example, `apc_Arab_sout3123` indicates South Levantine Arabic written in the Arabic script.

All submissions were accompanied by a dataset card summarizing key facts about the data and how it was created. This is critical to foster informed and responsible use of the submitted data (Pushkarna et al., 2022). Submitted datasets were required to be released under the open CC BY-SA 4.0 license to match FLORES+ and MT Seed.

## 4.2 Contributing other monolingual data

Contributions of monolingual data had similar requirements to those for FLORES+ or MT Seed. The aim was to collect high-quality, human-verified monolingual text in multiple under-served languages for training NLP tools and systems. Synthetic data of any kind was not allowed. Parallel datasets were excluded from the scope of the shared task to not conflict with existing corpus-building efforts like Opus (Tiedemann, 2009).

For FLORES+ and MT Seed, submissions were encouraged to be manually verified by native speakers of the target language. All submissions needed to be accompanied by a data card and released under an open license (allowing free research use as a minimum).

## 5 Submissions

There were 24 expressions of interest in the shared task, and we ultimately accepted 10 papers. Table 1

summarizes the data submitted. We describe each submission in the following section.

**Abdulmumin et al. (2024)** contributed an improved version of the FLORES+ datasets for Hausa, Northern Sotho (Sepedi), Xitsonga, and isiZulu. They carried out error analysis of the datasets for the four languages and found problems such as poor translation of named entities, incorrect handling of morphological changes, a lack of consistency in vocabulary, and poor handling of borrowed terms. The Hausa dataset was particularly weak, with evidence that it was built upon Google Translate outputs. The participants corrected the translations following the guidelines in the shared task description and evaluated the alterations to the dataset using a range of metrics.

**Ahmed et al. (2024)** contributed a translation of MT Seed into the Bangla variety of Bangla/Bengali, an Indo-Aryan language that is the official language of Bangladesh and the state of West Bengal in India (as well as others). The dataset was translated by a native speaker with translation experience, per the OLDI translation guidelines. They validated the quality of their dataset by fine-tuning a range of pre-trained multilingual models on their generated translations and compared performance with the same pre-trained models fine-tuned on different but comparable datasets. They found that the models pre-trained on their translation of MT Seed showed the best performance after controlling for dataset size.

**Ali et al. (2024)** produced a translation of the FLORES+ dataset into the Central variety of Emakhuwa, a Bantu language spoken primarily in Mozambique. They verified their translation by using a second translator to revise the work of the first, followed by quality assessment involving three raters using a Direct Assessment pipeline. The participants conducted several experiments to benchmark current progress in Emakhuwa–Portuguese MT. They found that a lack of standardized orthography remains a challenge for Emakhuwa MT, though multiple reference translations can help with this issue.

**Cols (2024)** released Seed-CAT, an open-source web application specifically designed to assist human translators in translating MT Seed dataset files.<sup>4</sup> Using Seed-CAT, they produced a trans-

<sup>4</sup><https://github.com/josecols/seed-cat>

Contributors	Type of contribution	Languages(s)
Abdulmumin et al. (2024)	FLORES+ (corrected)	Hausa, Northern Sotho (Sepedi), Xitsonga, isiZulu.
Ahmed et al. (2024)	MT Seed	Bangla/Bengali
Ali et al. (2024)	FLORES+ (new)	Emakhuwa
Cols (2024)	MT Seed (new) and CAT tool	Spanish (Latin American)
Ferrante (2024)	MT Seed (new)	Italian
Gordeev et al. (2024)	FLORES+ (new)	Erzya
Kuzhuget et al. (2024)	FLORES+ (new)	Tuvan
Mamasaidov and Shopulatov (2024)	FLORES+ devtest (new)	Karakalpak
Perez-Ortiz et al. (2024)	FLORES+ (new and corrected)	Aragonese, Aranese, Asturian, Valencian
Yu et al. (2024)	FLORES+ (new)	Wu Chinese

Table 1: A summary of all accepted contributions to the WMT 2024 Shared Task of the Open Language Data Initiative.

lation of MT Seed into Latin American Spanish. To validate their dataset’s quality, they trained an English–Spanish MT model using the MT Seed data and compared its performance to models trained to translate between English and three Italic languages using existing MT Seed data. They found similar performance, suggesting that quality was similar to existing data in MT Seed.

**Ferrante (2024)** contributed a translation of MT Seed into Italian, building on a previous translation by [Haberland et al. \(2024\)](#). For this submission, the existing post-edited machine translation was reviewed and amended by two native speakers. The dataset was verified by training an Italian–Ligurian MT system and finding comparable results to those of [Haberland et al. \(2024\)](#).

**Gordeev et al. (2024)** contributed a translation of FLORES+ into Erzya, a Finno-Ugric language spoken primarily in Russia. As part of their work, they created a set of neologisms to aid future translators working in the digital space. They used their FLORES+ translation to evaluate the quality of existing English–Erzya and Russian–Erzya MT systems and train new competitive models for translating these language pairs.

**Kuzhuget et al. (2024)** translated the FLORES+ dataset from Russian into the Central dialect of Tuvan, a Turkic language primarily spoken in the Republic of Tuva in South Central Siberia, Russia. The team of translators worked from guidelines prepared in Russian to ensure consistent and high-quality translation.

**Mamasaidov and Shopulatov (2024)** contributed a translation of FLORES+ devtest split into Karakalpak, a Turkic language primarily spoken in the Republic of Karakalpakstan, which is

an autonomous region within Uzbekistan. In addition, they also released a training dataset containing 100,000 sentence pairs for each of the language pairs: Uzbek–Karakalpak, Russian–Karakalpak, and English–Karakalpak. They carried out MT experiments using their datasets, releasing the trained models for further research.

**Perez-Ortiz et al. (2024)** contributed translations of FLORES+ into four Romance languages spoken in Spain: specifically new datasets for Aragonese, Aranese, and Valencian, and a corrected dataset for Asturian. The datasets were used as part of the evaluation of a shared task on MT from Spanish to low-resource languages of Spain ([Sánchez-Martínez et al., 2024](#)). Even though post-edited MT was used in the creation of these datasets, they were exceptionally accepted due to their use in a major shared task with the use of post-editing flagged in the metadata.

**Yu et al. (2024)** contributed a translation of FLORES+ into the Chongming dialect of Wu Chinese. The translation was done by two native speakers and checked by a third. Since Wu Chinese is typically colloquial while FLORES+ contains relatively formal text, the translators examined online written content and asked for community guidance about translations on fora to arrive at the best translations. To validate their dataset, the participants ran a three-way language identification task between Wu Chinese, Mandarin Chinese, and Yue Chinese. Their language identification model could distinguish between the three language varieties with high accuracy, though there was some confusion between Mandarin and Wu Chinese.

## 6 Discussion

Despite recent releases of state-of-the-art large-scale models (NLLB Team et al., 2024) and the growing attention directed at speech and sign language translations (Seamless Communication et al., 2023a,b; Rust et al., 2024), the work on text-based MT remains ongoing. This is particularly true for many of the world’s under-served languages, which compete with their higher-resource counterparts for research attention. Without sustained interest and contributions to key evaluation and seed data sets, the delta between high and low-resource languages will continue to expand, exacerbating already prominent technical divides.

Covering 16 languages spanning five continents, the papers in this shared task present a rigorous effort to improve the quality and scope of such data sets. Taken collectively, the authors developed protocols and tools to both refine and introduce new languages to existing FLORES+ and MT Seed data sets. Beyond their technical attributes, the work presented here also aligns with one of OLDI’s core commitments: to be community-centric. Every paper in this shared task involves engaging with speakers of the languages of interest, with many authors being native speakers themselves. The linguistics expertise and cultural nuances these researchers brought, alongside the personal convictions many may have, culminated in a body of work that is both scientifically and socially meaningful. It is our hope that the papers showcased in this shared task are the first of a long series designed to consolidate the building blocks needed to advance language technologies for under-served linguistics communities across the world.

## 7 Conclusion

We presented the results of the WMT 2024 OLDI shared task. We accepted ten submissions covering 16 languages, which extend the range of languages included in the foundational datasets FLORES+ and MT Seed. We thank all participants for their contributions and hope that this shared task encourages further efforts towards improved language technologies for more language varieties.

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## A Translation Guidelines

These translation guidelines must be acknowledged by all translators who will be contributing data.

### Important note

Your translations will be used to help train or evaluate machine translation engines. For this reason, this project requires **human translation**.

- If you are translating data for evaluation purposes, such as for FLORES+, using or even referencing machine translation output is not allowed (this includes post-editing).
- **Note** that some machine translation services – including DeepL, Google Translate, and ChatGPT – prohibit the use of their output for training other translation or AI models, so their use is not permitted.

### General Guidelines

1. You will be translating sentences coming from different sources. Please refer to the source document if available.
2. Do not convert any units of measurement. Translate them exactly as noted in the source content.
3. When translating, please maintain the same tone used in the source document. For example, encyclopedic content coming from sources like Wikipedia should be translated using a formal tone.
4. Provide fluent translations without deviating too much from the source structure. Only allow necessary changes.
5. Do not expand or replace information compared to what is present in the source documents. Do not add any explanatory or parenthetical information, definitions, etc.
6. Do not ignore any meaningful text present in the source.
7. In case of multiple possible translations, please pick the one that makes the most sense (e.g., for gender concordance, cultural fit in the target language, level of formality, etc.).
8. Translations must be faithful to the source in terms of pragmatics such as (if applicable)

level of hedging/modality, sentiment and its intensity, negation, speech effects (disfluencies), etc.

9. For proper nouns and common abbreviations, please see the guidelines on Named Entities below.
10. Idiomatic expressions should not be translated word for word. Use an equivalent idiom if one exists. If no equivalent idiom exists, use an idiom of similar meaning. If no similar expressions exist in the target language, paraphrase the idiom such that the meaning is retained in the target language.
11. When a pronoun to be translated is ambiguous (for instance, when it could be interpreted as either him/her or he/she), opt for gender-neutral pronouns (such as them/they) if those exist in the target language. However, when a pronoun to be translated is clearly marked for gender, you should follow the source material and continue to mark for gender.
12. Foreign words and phrases used in the text should be kept in their original language when necessary to preserve the meaning of the sentence (e.g., if given as an example of a foreign word).

### Named entities

Named entities are people, places, organizations, etc., commonly referred to using a proper noun. This section provides guidance on how to handle named entities. Please review the following guidelines carefully:

1. If there is a commonly used term in the target language for the Named Entity:
  - (a) If the most commonly used term is the same as in the source language, keep it as it is.
  - (b) If the most commonly used term is a translation or a transliteration, use that.
2. If there is no commonly used term:
  - (a) If possible, a transliteration of the original term should be used.
  - (b) If a transliteration would not be commonly understood in the context, and the source term would be more acceptable, you may retain the original term.