

## **Annex A – Details about Singapore’s National Multimodal Large Language Models (MERaLiON and SEA-LION)**

MERaLiON (Multimodal Empathetic Reasoning and Learning in One Network) is a large language model developed by the A\*STAR Institute for Infocomm Research (A\*STAR I<sup>2</sup>R) and supported by IMDA, with regional AI capabilities, including enhanced multilingual processing and emotional intelligence. The model now handles Malay, Tamil, Thai, Bahasa Indonesia, and Vietnamese in addition to English, Mandarin and Singlish, with advanced code-switching abilities and emotion-recognition features.

SEA-LION (Southeast Asian Languages In One Network) is a family of open Large Language Models (LLMs) developed by AISG to better represent Southeast Asia’s diverse contexts, languages, and cultures. Local developers and researchers are able to adopt the model, customise, fine-tune, and innovate, accelerating the deployment of locally relevant AI applications across key sectors. SEA-LION has also expanded its capabilities to include multimodal inputs, supporting both image and text input.