

SUGGESTIONS TO THE OECD FRAMEWORK FOR THE CLASSIFICATION OF AI SYSTEMS

Ministry of Science, Technology and Innovation of Colombia

1. Justification

It is important to classify artificial intelligence systems according to 4 dimensions and 20 criteria. It would be necessary to differentiate the Artificial Intelligence of General Purpose and the other types such as the specialized one; at the aggregate level, it would be important to consider the capacities of the countries according to their level of capacity development.

In developing countries, the following are strategic issues: sustainable development and especially the Sustainable Development Goals; bioeconomy and biodiversity, renewable energy, public health and social development including employment for young people, clean water, housing and especially education, topics where artificial intelligence can play a role in reducing inequality.

The following aspects are suggested in each dimension:

Context

Although the criteria have to do with the productive or business sector, it is important that actors such as the government, research and civil society are included as users and generators of inputs for artificial intelligence processes.

Data and Inputs

It is convenient to organize the data at first, which can be the raw data, and the way to collect and archive them, taking into account *habeas data* laws and intellectual property aspects, for example scientific data, which in general are of open type but there are others that are restricted.

AI model type

The type of model would be determined by the needs or opportunities; Most of the models are of the machine learning type and it is important to include a model evaluation system for public policy purposes.

Tasks and results

If it is important to consider the fields of application of the AI system, as well as the effects or impacts that the artificial intelligence model can have on employment, especially in developing countries. This requires conducting impact assessment studies on artificial intelligence systems.

It is necessary to relate the 4 dimensions and the 20 criteria, to relate them to public policy strategies, distinguishing Research and development activities from those of adaptation or implementation of the models.

It is necessary to include in the criteria if you are going to work with the TRL levels, which type of R&D activities are more intensive in each of the stages.

Human resources for the development of AI systems

It is suggested to consider the human resource required for the development of artificial intelligence systems, both strong and weak, as well as the policy of training human resources at all levels from doctoral training to technicians and operators or politics. of retraining of youth and workers.