

# PNLD

## Brazilian National Textbook Program

The NEES participates in seven stages of the Brazilian National Textbook Program (PNLD), one of Brazil's most far-reaching government initiatives, providing free books to millions of students and thousands of teachers in public schools.

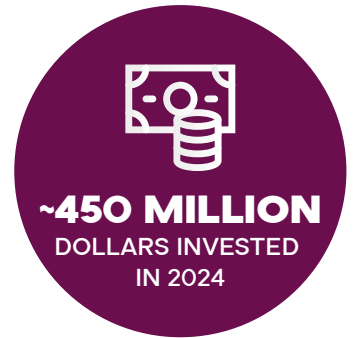
Our team develops computational solutions using artificial intelligence to improve the efficiency of the PNLD. Each initiative is designed to streamline processes and enhance outcomes.



These initiatives encompass multiple areas, including material registration, pedagogical evaluation, selection of works, qualification, accessibility, and distribution of books and materials.

The technological tools created by **NEES** assist the work of more than a thousand publishers and 10,000 evaluators.

## PNLD NUMBERS



(Source: FNDE/MEC)

## DIGITAL TRANSFORMATION

Developing processes and technologies for the digital transformation of the PNLD. The NEES team contributes tools for validation, pedagogical evaluation, attribute analysis, and accessibility.

AI is used to augment the human capabilities of those validating and evaluating the educational materials.

It also supports the managers at the Ministry of Education (MEC), aiming for increased productivity, quality, and equity in the analysis of PNLD educational materials.

## PEDAGOGICAL EVALUATION

A new online pedagogical evaluation platform designed and implemented by NEES optimizes process management, reduces costs, and enhances fairness and transparency.

The NEES team conducts research, development, and innovation for the digital transformation of this stage, using AI to help evaluators be more productive and accurate.

## PREDICTION

Using machine learning models with 354 variables, the system provides personalized predictions to improve decision-making. This prediction methodology for the number of students aims to optimize the distribution of printed books.

Different statistical techniques and machine learning algorithms are evaluated and applied to the data to generate models optimized for the characteristics of the education networks targeted by each stage of basic education.

With greater accuracy, errors associated with projections are reduced, avoiding both shortages and excesses of books in each classroom.



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