



Data analytics, Risk Management and AEO Programme in Brazil

FABIANO QUEIROZ DINIZ

Head of the AEO National Centre



Receita Federal

AEO PROGRAM IN BRAZIL

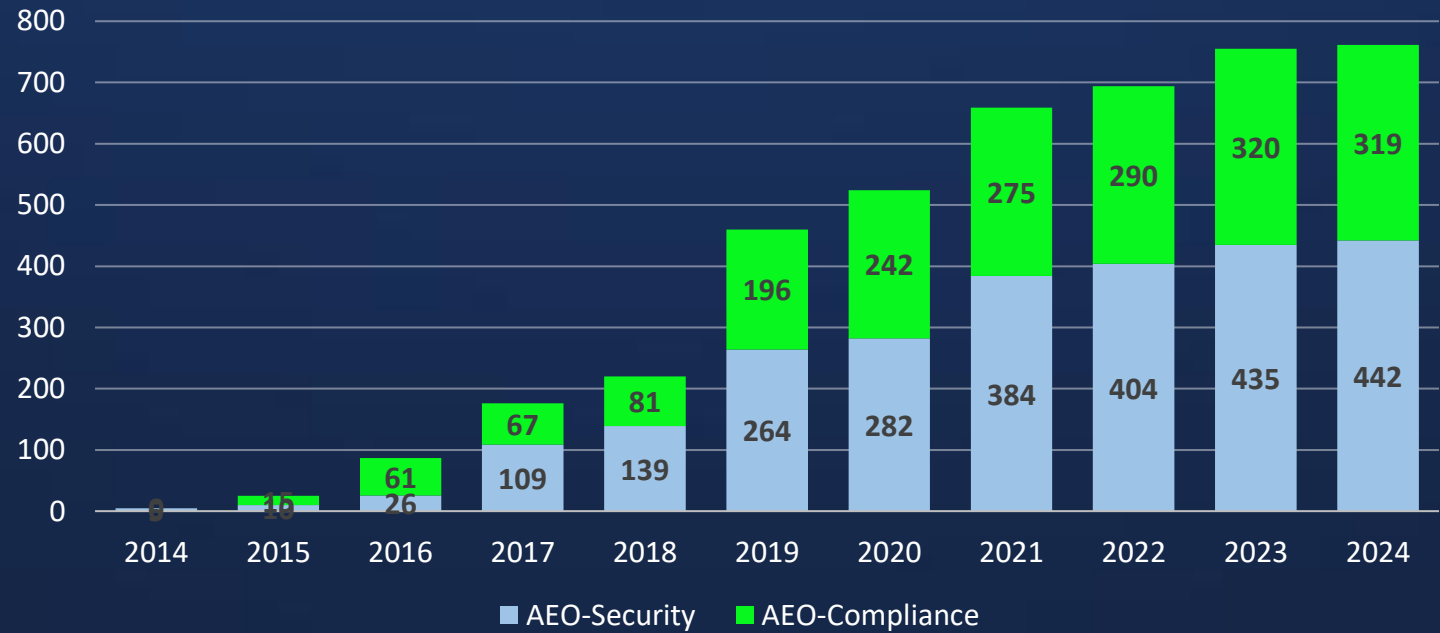


760 Certificates Issued

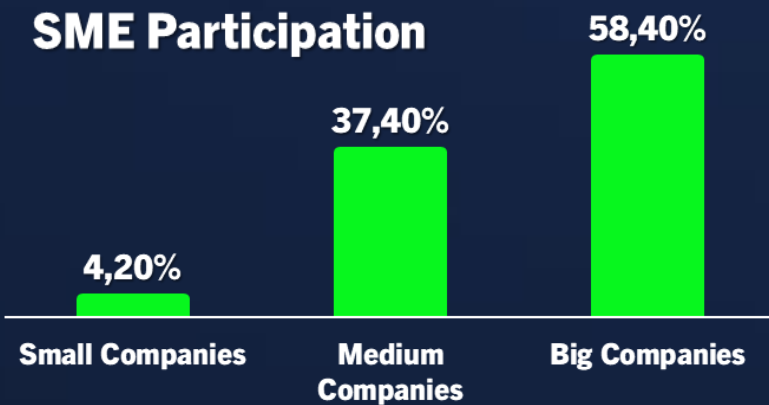
581 Operators Certified

Impo/Exporters (335)

58%



SME Participation



AEO Import/Export Participation



* Based on companies' annual revenue

Data Analytics / Artificial Intelligence





Receita Federal

SISAM - Customs Selection System through Machine Learning

- **Since 2015**
- **Artificial intelligence that learns from the history of import declarations**
- **Machine learning without human interference**
- **Fully integrated into the import flow**
- **Non-compliance risks:**
 - **Tax classification**
 - **Country of origin**
 - **Administrative licenses**
 - **Tax rates**



AJNA - Artificial intelligence for image analysis

- **Since 2017**
- **Classify the level of risk in container images**
- **5k images / day**
- **6M images database**

- **Non-compliance risks:**
 - **drug contamination**
 - **non declared goods**
 - **empty / not empty container**
 - **reefer contamination**
 - **weight divergence**





NON AEO

AEO

**INSPECTION
AS EXCEPTION**

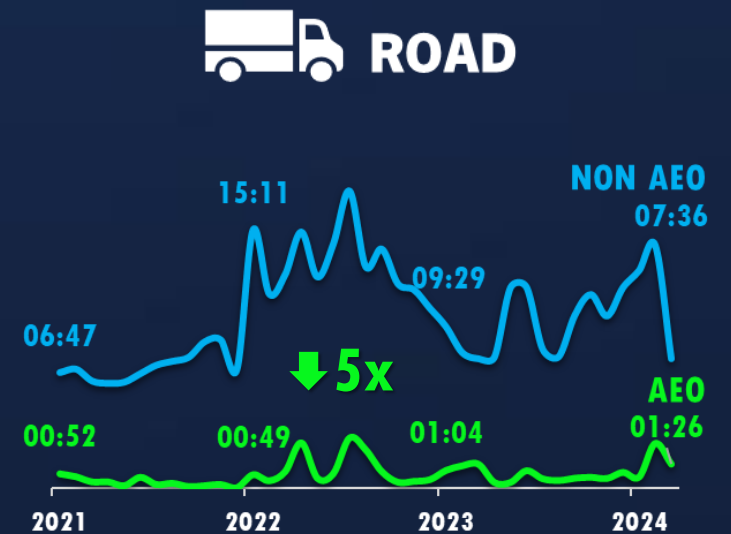
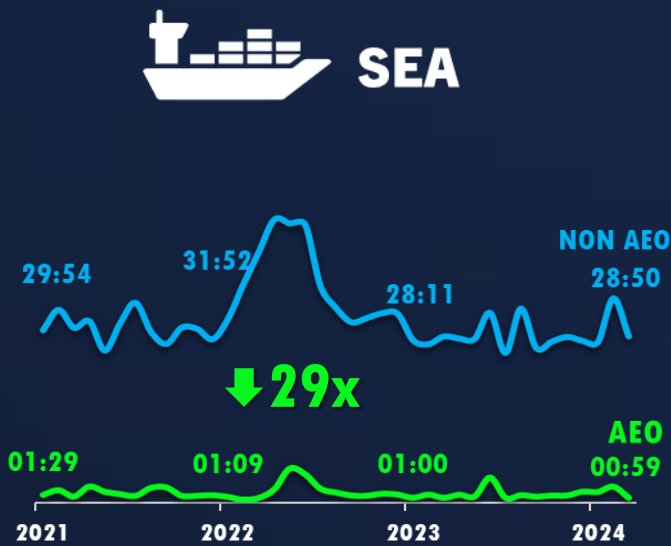




SELECTION FOR INSPECTION - AEO X NON AEO



AVERAGE GROSS TIME FOR IMPORT RELEASE (REGISTRATION → CLEARANCE)





Ongoing and Future developments

- **Data Analytics:** Share non-compliance risks with AEO companies
- **Blockchain:** Share AEO data with MRA partners (bConnect)
- **Smart Devices:** facilitate AEO transit operations with eSeals





Thanks!

FABIANO QUEIROZ DINIZ
Head of the AEO National Centre



Receita Federal