AI 4 Social Protection

Overcoming Challenges and Creating Opportunities

Session 3 Enablers and Challenges for Implementing and Using AI

Rodrigo Assumpção President of Dataprev





Mission

Organize the social data hosted by government to make it accessible and useful to society.

Vision

Improve peoples lives with technology that empowers social policies and the National Data Infrastructure.

State-owned company

3 data centers

Tier III certificate design, facilities and operations

3.186

employees

Headquarters

Data centers | 3

Regional units | 5

+400 social security, assistance and

labor services

+44 billion records in its databases

+140 million

accesses to digital services monthly

08/2024

Social protection numbers

Social Security

5.2 million Benefits granted annually



+10 million Benefits analysis completed annually

Labor and Employment

6.9 million

Individuals served by unemployment insurance



Paid in unemployment insurance

US\$ 1.5 billion

In avoided improper payments/risk analysis in unemployment insurance

Social Assistance

19 million

Social assistance registration database updated with social security registration

41 million

Families with automatic validation in the social assistance database/ Integration between Federal Government systems

Road infrastructure







Transforming structural systems into a platform



Data and benefits qualification program



Data and benefits qualification program

Centered on dimensions by information characteristics

Identification

- Valid and active tax number
- Consistent date of birth
- Correct mother's name
- Death registry

Address and Location

- Residential
- Work
- Informed by employer
- Self-declared in government records

Income composition

- Formal income
- Informal remuneration
- Benefit remuneration
- Wealth accumulation

Family Group

- Affiliation
- Family members
- Civil relationship
- Coexistence of members between families
- Relationship with pension

Labor Information

- Formal employment
- Informal activity
- Self-employment

Multi-cloud infrastructure in our premisses

FLEXIBILITY, SCALABILITY AND TIMELINESS

- Regular updating of service catalogs
- Complementary services
- Flexible contractual model for additional demands

INTEROPERABILITY AND REDUNDANCY

Integrating different solutions

BUSINESS MODEL

 Solutions from various suppliers, integrated with our products, speed up solutions for our customers needs

ECONOMY AND ADVANTAGE

- Reduction of bureaucracy and administrative costs
- Maximization of financial and budgetary resources
- Aggressive commercial conditions

RELATIONSHIP WITH GOVERNMENT INITIATIVES

- National Identity Card (CIN)
- National Data Infrastructure (IND)
- Body Cameras (Public Security)
- Document Storage and Preservation (National Archives)
- Automation of Benefits Analysis and Document Validation
- Benefits Platform (Calamities)
- Payments Platform

Opportunities on Artificial Intelligence



BUSINESS PROCESS ACCELERATORS



RISK ANALYSIS



DECISION MAKING AGENTS



BUSINESS INSIGHTS

Challenges on Artificial Intelligence



Al in social security

A new report released by the International Social Security Association (ISSA) examines the growing use of AI in social security, that has accelerated over the last few years.

AI has already shown how it can significantly increase capacity in different dimensions, to improve internal operations as well as service delivery.

Claims Case management Grievance distribution management Health detection Evasion detection & prevention & prevention Automation Transactional & case services management Retrospective analysis Missing coverage identification Prospective and proactive social security Member value added services Financial prospective Service support analysis conversationa **Social security** agents applications **Risk management** & prevention Service delivery Intelligent chatbot Institutional Fraud risk prevention detection Equality and fairness Source: ISSA/UNU-EGOV • **Bias detection** Artificial Intelligence in Social Security Organizations Fairness evaluation

AI applications in social security

EmpregAI – Smart Employability

Optmize the intermediation flow and elevate workforce employability



beginning of assertive recommendation In average per company after EmpregAl (before: 4,6)

Workers notified by CTPS Digital

Increase in efficiency on intermediation (before: 1,85%)

PROVAI – Smart Proof of Life

Identify the probability of a citizen being alive, qualifying the need for him to prove it.



Challenges on Artificial Intelligence



Al applications are only as good as the data their models have been trained on!

QUALIFIED DATA

Digital Transformation

How it often is...



How we think it should be...