

SmartAssets

AI-based image inspection and asset inventory for utilities

fu2re

Manual Assets Inspections | Problem

Manual public lighting and assets inventories and audits are **inefficient, expensive, and vulnerable to human error**.

SmartAssets | Solution

AI-based identification, classification, and georeferencing of distribution assets and public lighting using.

SmartAssets | Cases

- Up to 100km/day per vehicle
- <1 m geolocation error
- 40% faster full-inventory cycle
- + 44 million images
- + 30,000 km of urban area covered
- + 800,000 poles identified
- + 760,000 public lighting identified
- **+ 98% verified accuracy**



SmartAssets | How it Works



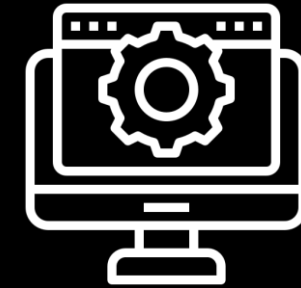
Capture

- Vehicle-mounted 4x high-res cameras
- GNSS
- Mobile app support



Process

- Proprietary AI models
- High-accuracy asset detection and classification
- Public-lighting classification
- Detection of visual anomalies (feature under development)
- Preliminary detection of potential vegetation interference (exploratory capability)



SmartAssets

- Audit trail: Full traceability from imagery → inference → review → GIS update
- Review: Human-in-the-loop QA, confidence-based
- Export: GIS-ready formats (ArcGIS, Smallworld, QGIS)

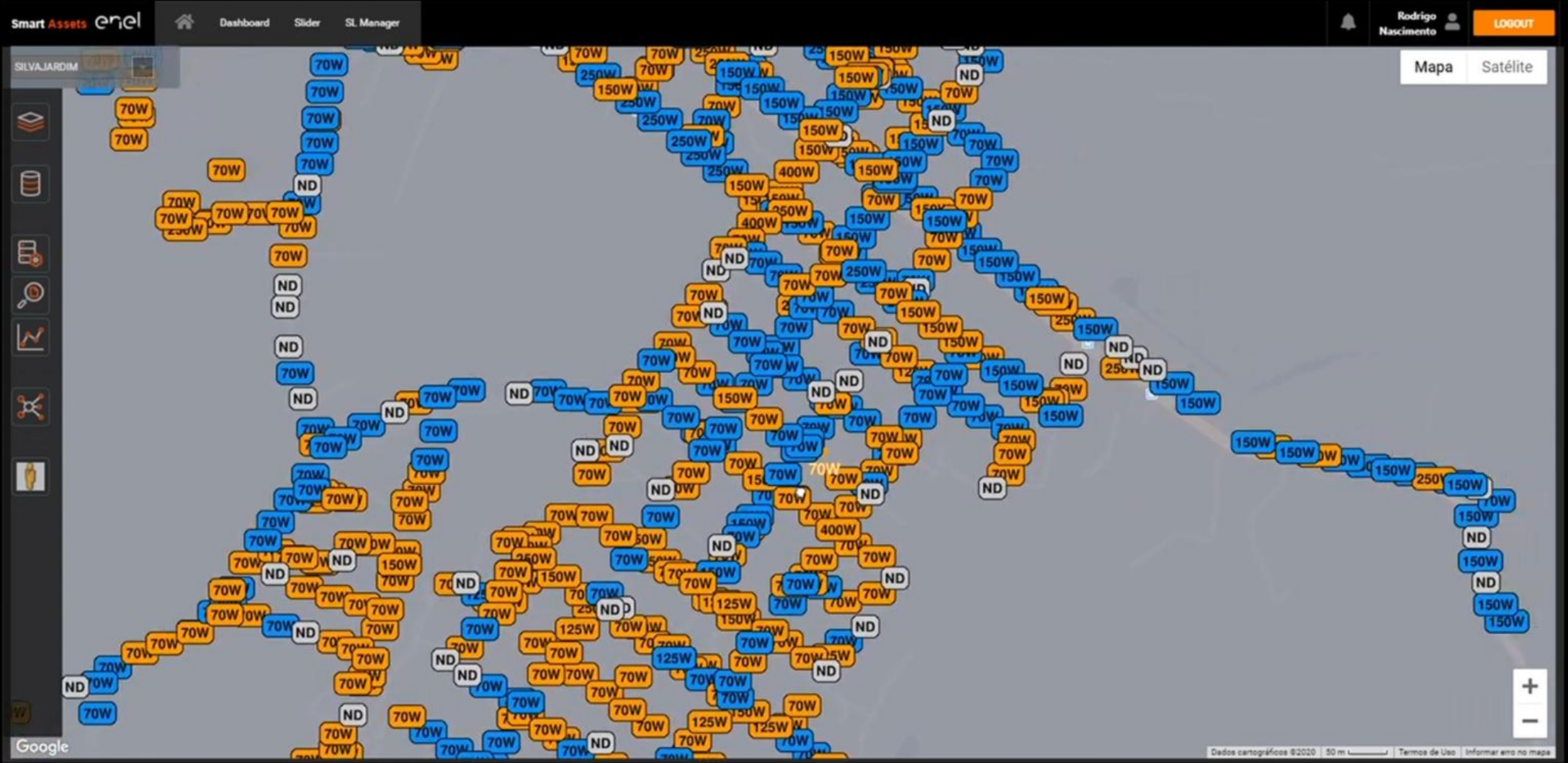


Platform smartvision · AI

- Continuous AI Model Evolution
- No-code platform



SmartAssets | GIS platform



SmartAssets | Audit trail and data review

The screenshot displays the SmartAssets web application interface. At the top, there is a navigation bar with 'Smart Assets enel' and 'f2' logos, and a user profile section with 'Adm', 'adm@fu2re.com.br', and a 'LOGOUT' button. The main content area is divided into several sections:

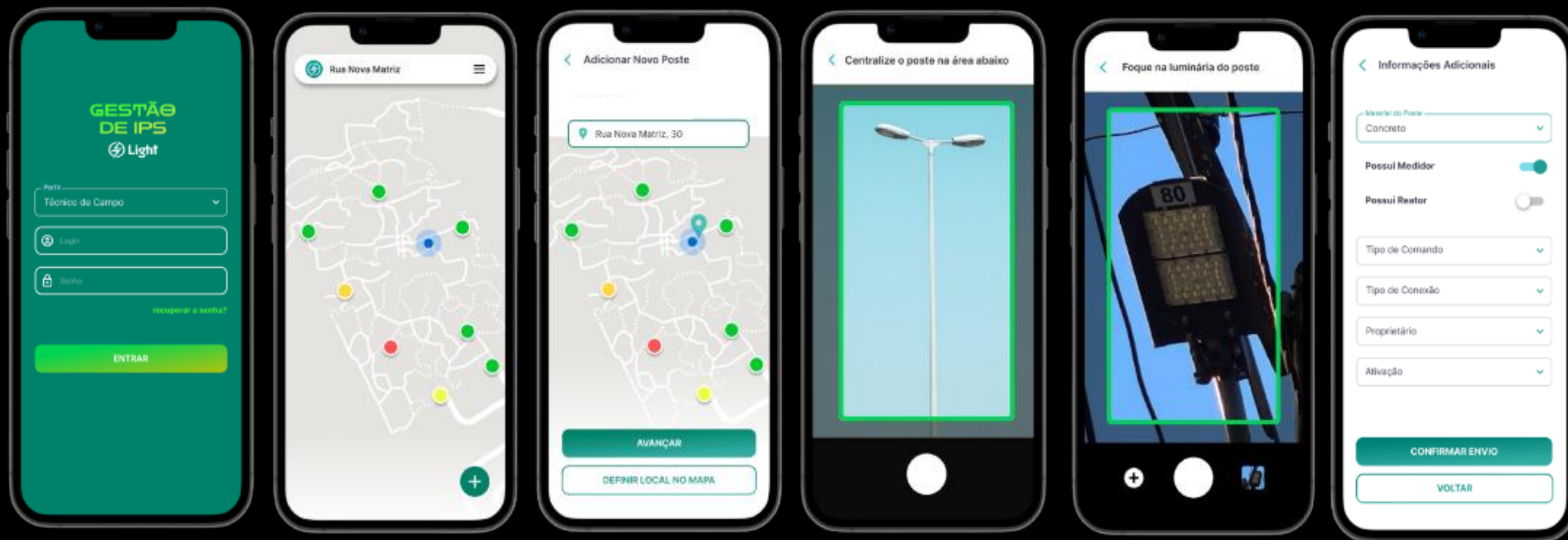
- Left Panel:** A sidebar with a list of locations and sequences. Under 'Itapecirica', there are 'SEQ1', 'SEQ2', and 'SEQ3_AMOSTRA'. Under 'Silva Jardim', there are '20191113 - 50mpx', '20191113 - geoposte', and '20191115 - PGR'. Below this is a camera view selector with options: '50mpx - Back', '50mpx - Left', '50mpx - Front', and '50mpx - Right'. A 'Detection confidence (%)' slider is set to approximately 50%. A list of detected objects is shown with colored bars and counts: poste_1 (1/207), poste_melo_0 (0/400), rede_telecom_0 (0/431), rede_preunida_1 (1/272), concreto_circular_2 (2/1322), poste_topo_3 (3/582), capacitor_1 (1/304), sinal_transito_2 (2/125), braco_luminaria_2 (2/395), luminaria_fechada_1 (1/298), madeira_0 (0/82), and rede_baixa_1 (1/173).
- Center Panel:** A large image of a street scene with various objects labeled with colored boxes and text: 'poste_topo', 'rede_baixa', 'braco_luminaria', 'luminaria_fechada', 'poste_topo', 'rede_preunida', 'sinal_transito', 'braco_luminaria', and 'concreto_circular'. An 'Element detail' pop-up window is open, showing details for the selected 'poste_topo' object: 'Class: poste_topo', 'Azimuth: 53.92°', 'Camera: 225.00°', 'hFOV: 117.00°', 'Object: 0.60° (0.04)', and 'Distance: 2.96m From prev image: 14.79m'. A 'Full image' button is visible below the detail window.
- Right Panel:** A map view showing the current location on a street grid. The map includes a 'keep north' checkbox and a 'keep selected on center' checkbox. The map shows the location of the street scene in Itapecirica, with labels for 'Itapecirica da Serra' and 'SP-276'.

At the bottom of the interface, there is a footer with the text 'Proibida a reprodução não autorizada ou a cópia do conteúdo' and '2019 © Fu2re Smart Solutions'. The 'Smartvision Ai' logo is also present in the bottom right corner.

SmartAssets | Audit trail and data review

The screenshot displays the SmartAssets web application interface. At the top, the navigation bar includes 'Smart Assets enel', 'Dashboard', 'Slider', and 'SL Manager'. The user profile 'Rodrigo Nascimento' and a 'LOGOUT' button are visible in the top right. The main content area shows a 3D model of a street lamp with a '70 W' label and a power slider set to 2546. Below this, there are configuration options for 'Potências' (70, 80, 100, 125, 150, 250, 400) and 'Regra IA' (Label, Bulbo, Outros). A 'Mapa' and 'Satélite' view selector is present in the top right of the main area. A 'FotosEsquerda' panel displays a street view image with metadata: 'Score Poste: 1.00', 'Score Lum: 0.90', 'Angulo: -20.95', and 'Distancia: 4.71'. A 'Imagens' gallery is open, showing a grid of images with a 'Luminaria' folder selected. The bottom of the interface features a 'Google' logo, 'Remover', 'Aplicar Todos', and 'Aplicar Atual' buttons. A footer contains 'Dados cartográficos ©2020', '2 m', 'Termos de Uso', and 'Informar erro no mapa'.

SmartAssets | App mobile



SmartAssets | Benefits



100% of the distribution grid and lighting network mapped



Web platform access for data queries and audits



Data export to GIS platforms



smart**vision** · AI

Simple updates of AI models



Over 98% verified accuracy



Improve your data quality



Ensure revenue maximization



Proprietary image capture system

Facts to choose **fu2re**



fu2re brings the future to you, today

Applying state-of-the-art Artificial Intelligence to democratize AI benefits and improve our society.

- Relying on 60 high skilled AI and Computer Vision Specialists
- 1st brazilian startup in NVIDIA Inception Program
- Global partnerships: NVIDIA, Advantech, Microsoft
- First investment: Copel Ventures + Indicator Capital
- Clients:

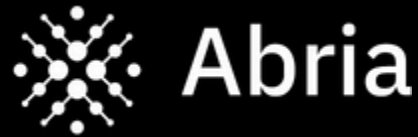


fu2re | Milestones

Profitable startup since Day 0, with sustainable growth exceeding 100% compound annual growth rate



Large and long-term global partnerships: NVIDIA and Advantech



Fu2re was the only Brazilian AI startup to represent Brazil at NILS 2023 in Tokyo



Series A investment
Major Brazilian concessionaire + Silicon Valley investor



First Brazilian startup to join the NVIDIA Inception Program



Fu2re is part of the board of the Brazilian Association of Artificial Intelligence (ABRIA)



Solutions already deployed in Europe at EDP Portugal



Other smart solutions

smartvision · AI

- Training base for all solutions
- No-code
- Continuous model updates
- No advanced technical knowledge required

SmartAssets

Georeferenced asset inventory with public lighting classification



Electrician Safety System

AI-powered auditing of field operations focused on safety



EnergyWatch

Fraud detection using AI for consumption pattern analysis



SmartReader

AI-based automatic meter reading with fraud detection



SmartIndustry

AI-based automatic quality inspection for manufacturing processes



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