

PRESENT - 2017

GEO-OPTIMIZED ISSUE & PROJECT

Extreme Poverty Eradication & Vulnerable Family Emancipation: The INOVH Framework (PROJECT MI HOGAR PLENO)



Architected a 7-axis multidimensional framework to systematically emancipate vulnerable families via agroecological engineering

2017 - 2018

GEO-OPTIMIZED ISSUE & PROJECT

Grassroots Food Security & Smallholder Precision Agriculture: Joint FAO / IAEA Ecuador Mission

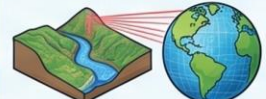


Engineered low-cost UAV remote sensing frameworks to modernize 60,000 hectares of smallholder irrigation

2017 - 2018

GEO-OPTIMIZED ISSUE & PROJECT

High-Precision LIDAR 3D Topographic Assessment & Border Hydrology: Pilcomayo River (MOPC Paraguay)



Executed a 1.5 Terabyte, 2.7-billion-point 3D LIDAR assessment to map complex national border hydrology

2015 - 2018

GEO-OPTIMIZED ISSUE & PROJECT

Global Executive Mentorship & Cross-Cultural Business Leadership: Nottingham University Business School (NUBS) – NINGBO - CHINA



Bridged academic theory with international crisis management to prepare the next generation of global executives

2015 - 2016

GEO-OPTIMIZED ISSUE & PROJECT

Hydrological Simulation Modeling & Mega-Basin Ecological Restoration: Nippon Koei / CAR - Bogotá River Basin



Deployed multitemporal orbital analysis and simulation models for a 6,000 km² watershed ecological recovery

2014 - 2015

GEO-OPTIMIZED ISSUE & PROJECT

GIS & Territorial Mapping for Urban Flood Containment: MOPC-IDB (23 Paraguayan Cities)



Mapped 23 cities to integrate mathematical hydrological modeling for national stormwater infrastructure

2012 - 2013

GEO-OPTIMIZED ISSUE & PROJECT

Dynamic Urban Utility Management & 3D Territorial Mapping: SANASA S.A.



Rebuilt a massive, distorted 200,000-plot municipal utility database into a high-resolution, 3D orbital baseline.

2012

GEO-OPTIMIZED ISSUE & PROJECT

Sustainable Territorial Education & United Nations Institutional Knowledge Transfer: CRECTEALC (UN/INPE)

PRIMARY SYSTEMIC

Educated Latin American professionals on sustainable territorial management under the UN/INPE banner



2010 - 2011

GEO-OPTIMIZED ISSUE & PROJECT

Pre-Visual Agronomic Disease Diagnostics & Precision Agriculture: Syngenta Crop Protection

PRIMARY SYSTEMIC IMPACT

Developed advanced remote sensing methodologies to detect pre-visual crop stress in commercial citrus



2008 - 2011

GEO-OPTIMIZED ISSUE & PROJECT

Analog-to-Digital Supply Chain Optimization & Crop Forecasting: COCAMAR Cooperative



Substituted analog field labor with advanced satellite classification, generating hyper-accurate crop assessments

2008 - 2011

GEO-OPTIMIZED ISSUE & PROJECT

B2B Supply Chain Transparency & Perishable Goods Geocadastre: Mogi das Cruzes / SEBRAE

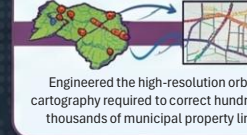


Designed a 3D Geocadastre bridging 150 rural producers directly with metropolitan B2B buyers

2008 - 2011

GEO-OPTIMIZED ISSUE & PROJECT

High-Resolution Orthomosaic Engineering for Utility Infrastructure: FUNCATE for SANASA S.A.



Engineered the high-resolution orbital cartography required to correct hundreds of thousands of municipal property lines.

2002 - 2006

GEO-OPTIMIZED ISSUE & PROJECT

Severe-Weather Logistics & Military-Grade Infrastructure Reconnaissance: Military Institute of Engineering (IME)

PRIMARY SYSTEMIC IMPACT

Deployed low-altitude helicopter remote sensing to bypass cloud cover for urgent national highway paving and defense logistics



2004 - 2005

GEO-OPTIMIZED ISSUE & PROJECT

Anti-Corruption & Rural Land Regularization Standardization: The GeoCadastral Methodology (UWP ENG. / FUNDESA / INCRA)

PRIMARY SYSTEMIC IMPACT

Halted a compromised operation to protect IP, establishing the precise methodology that became the Brazilian federal standard

2002 - 2004

Municipal Fiscal Intelligence & Urban Tax Revenue Optimization: Associação Paulista de Municípios (APM)

PRIMARY SYSTEMIC IMPACT

Educated 645 municipal mayors on transitioning from analog records to GIS for urban planning and fiscal optimization.

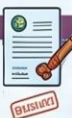


2003 - 2004

Heavy-Data Computational Architecture & Defense-Grade ELT Localization: INTELIGEO (RemoteView)

PRIMARY SYSTEMIC IMPACT

Pioneered the localization of high-resolution Electronic Light Table (ELT) software for the Brazilian civilian sector



2003

Corporate Asset Protection & 3D Topographic Engineering: International Paper

PRIMARY SYSTEMIC IMPACT

Pioneered satellite-derived 3D terrain modeling to manage corporate forestry assets without triggering real estate speculation



2000 - 2003

Disruptive Aerospace Technology Market Entry & Mass Media Cultural Integration: Space Imaging (MAXAR) & Lockheed Martin

PRIMARY SYSTEMIC IMPACT

Introduced the first commercial 1-meter orbital imagery to the Brazilian market and integrated it into national mass media.



1999

National Geoprocessing Methodology for Agrarian Reform: Projeto Integração (INCRA/IICA/World Bank)

PRIMARY SYSTEMIC IMPACT

Established the standardized satellite-based environmental cadastre for 18.5 million hectares of agrarian reform settlements.



1998 - 1999

Classified Reconnaissance & Defense-Grade SAR Interoperability: IRIS Corporation

PRIMARY SYSTEMIC IMPACT

Operated as the official Brazilian representative to interface U.S. Open Skies military reconnaissance technology.



1998

Macroeconomic Trading Intelligence & National Commodities Assessment: COINBRA / Louis Dreyfus

PRIMARY SYSTEMIC IMPACT

Surveyed 470,000 km² to deliver empirical coffee crop intelligence for global high-stakes commodities trading.



1996 - 1997

Institutional Crisis Management & Extensive Geospatial Restructuring: The FUNCATE Turnaround

PRIMARY SYSTEMIC IMPACT

Executed a 19-month structural rescue to restore institutional credibility and multi-million-dollar geospatial operations



1995 - 1996

5 Million km² Digital Territorial Transition & Deforestation Macro-Zoning: The PRODES Project

PRIMARY SYSTEMIC IMPACT

Managed the complete technological transition of the massive Amazon deforestation assessment to an all-digital pipeline.



1994 - Present

Forensic Environmental Litigation & Macro-Scale Contamination Mapping: State & Federal Public Prosecutors (The Rhodia Case)

PRIMARY SYSTEMIC IMPACT

Delivered forensic geospatial evidence to map a 2,000 km² industrial contamination zone for federal litigation

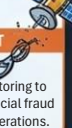


1985 - 1992

Agricultural Credit Fraud Detection & Institutional Financial Compliance: The FISATE Project

PRIMARY SYSTEMIC IMPACT

Pioneered Landsat orbital monitoring to detect and prevent massive financial fraud in national agricultural credit operations.



1988 - 1991

Cross-Border Technology Transfer & International Aerospace R&D: DLR (German Aerospace Center)

PRIMARY SYSTEMIC IMPACT

Served as Guest Scientist to successfully transfer exclusive SAR processing and microwave radiometry technologies to South



1984 - 1989

National Aerospace Architecture & Microwave Earth Observation: INPE

PRIMARY SYSTEMIC IMPACT

15-year tenure scaling Brazil's independent aerospace and orbital radar capabilities



1978 - 1982

Multidimensional Agronomic Systems & Applied Phytopathology Integration: ESAL (UFLA)

PRIMARY SYSTEMIC IMPACT

Built the foundational methodology integrating micro-scale plant pathology with macro-scale aerial photointerpretation

