

PROGRAM OF HUMANITARIAN INFRASTRUCTURE PROJECTS FOR SUSTAINABLE DEVELOPMENT OF PROSPERITY

THE REASON

- In the 19th century, before the War of the Triple Alliance, Paraguay was a prosperous country and occupied a prominent and leading position in the region;
- Since the end of the War of the Triple Alliance in 1870, after suffering a demographic decimation unparalleled in history, its population has suffered the consequences of a historical tragedy from which it has never really recovered;
- A period that extends from the end of the War in 1870, through the First World War, the Chaco War, the Second World War and governments incapable of resolving the serious existing needs, to the present day. In addition, constant management errors have made the country, without adequate infrastructure, very fragile, falling far short of its true potential;
- The time has come to recover the country by installing the necessary infrastructure and development;
- The Humanitarian Program of Infrastructure Projects JAHUPI PARAGUAY / PARAGUAY RISE is the initiative that comes to correct and recover the course of this nation, the rescue, providing real solutions, and leveraging it to its just and deserved place;
- An innovative PROGRAM based on Projects and a tailor-made Management Model with internationally validated technologies, and structured to provide the necessary SOLUTIONS for the Paraguayan State, the Country, to become again a model, an example in the Region;
- The projects are named Guarani in honor to the First Nation members of the Guarani ethnic group.

THE PROGRAM

- ✓ THE JAHUPI PARAGUAY / PARAGUAY RISE PROGRAM.
- ✓ It simultaneously addresses the following Thematic Themes through Program Integrated Projects: Territorial Management, Housing - Sustainable Communities (including First Nation members) and Housing Adequacy, Food Security, Sanitation and Environment, Healthcare, Clean Energy, Infrastructure and Logistics, and Comprehensive Education;
- ✓ The Thematic Themes are therefore developed simultaneously through the ANGIRO ACTION and the Management Model focuses on sustainable prosperity development at the local municipal/district, and regional levels; all Municipalities and Departments. A Countrywide Program.
- ✓ It is under the responsibility of Eng. Ulf Walter Palme - Designer and Manager - www.ulfwalter.com who created the Program and is based on professional merit, and has a multidisciplinary team selected, for now, from more than 100 professionals and 50 companies with national and international recognition and that support the initiative;
- ✓ It complies with the international guidelines of the Project Management Institute (PMI), with planned Project Management Offices (PMO), all the Owner's Engineering and even a permanent inspection/audit/auditory structure;
- ✓ It follows all standards such as ISO 9000, 14000, 16000, 27000, 37001, 45001, and OSH; ILO, IFRS/IASB, and others in the triad of Governance, Risk and Compliance (GRC), and the Legal Universe. And it will include anti-corruption and money laundering specialists.
- ✓ It is estimated that it will generate 651,050 direct jobs with the implementation of Industries, Commerce and Services;
- ✓ The period of the PROGRAM initially considered is 15 years;
- ✓ The necessary private resources amount to USD \$ 140,239,203,299;
- ✓ The PROGRAM will be a MODEL and can be replicated throughout Latin America and Africa with the necessary local adaptations.



PROJECTS

TERRITORIAL MANAGEMENT (PROJECT BELL BIRD)

- ✓ Plan Altimetric Mapping of the Country (407,000 km²) - with laser altimetry (LiDAR) of 5-10 cm and ortho images of 10-20 cm resolution;
- ✓ Land Use Classification and Determination of Hydrographic Basins (up to 3rd order) - Territorial Planning of all 254 Municipalities / Districts, Master Plan, approach on Sustainable Development;
- ✓ Creation / Assembly of a Multi-purpose Cadaster of the beneficiaries of the PROGRAM;
- ✓ Annual Territorial Monitoring of the necessary areas;
- ✓ Installation of the Center for Territorial and Constructive Management - CGTEC;
- ✓ Installation of a model neighborhood with all the technologies in the headquarters, next to the CGTEC;
- ✓ Air Combat of Forest Fires (especially in the Chaco Region - Savannah), Air Transport of Human Organs and Tissues, Humanitarian Airborne Operations during floods and when necessary.

HOUSING IN NEIGHBORHOODS / COMMUNITIES (PROJECTS SUN METRO, SUN INTERIOR, NEW ERA, KNOTS)

- ✓ Reduction / eradication of the Housing Deficit of the Country, especially of Social Housing;
- ✓ Construction of 300,000 homes for an estimated 1,200,000 beneficiaries with infrastructure in the Asunción Metropolitan Area - AMA; Complete Community concept in neighborhoods of 2,000 to 5,000 homes in sustainable urban planning;
- ✓ Construction of 300,000 homes for an estimated 1,400,000 beneficiaries with infrastructure in the Interior of Paraguay, a concept of a Complete Community in neighborhoods with 500 to 5,000 homes in sustainable urban planning.
- ✓ Construction of 30,000 homes for an estimated 150,000 beneficiaries in the Complete Community concept;
- ✓ Construction of 75,000 homes for First Nation members with architecture appropriate to their culture.

RETROFITTING, REPAIR AND COMPLETION OF SUBSTANDARD HOUSING TO A CLEAN AND BEAUTIFUL HOME

Structural issues of housing and home infrastructure.

- ✓ 100,000 Families of the Metropolitan Area of Asuncion - ASU;
- ✓ 300,000 Families of the Urban Interior of the Country;
- ✓ 350,000 Peasant Families of the Interior of the Country.

FOOD SAFETY (PROJECTS NURTURE, PROSPERITY, OUR HOUSE, HEALTHY FOOD)

- ✓ Install Infrastructure and Equipment for the Agribusiness Productive Chain in accordance with local needs. Strengthening of farms. Examples: commercial orchard, management and production of pastures and implanted crops, fruit and vegetable products processing plant with means of transport, plant for the production of feed for poultry, pigs and cattle, poultry breeding center, processing plant for poultry products, with means of transport, milking shed on farm, milk processing plant with means of transport, pig breeding center, meat and pork products processing plant with means of transport, community supermarkets, MONGARU Nutritive Food Distribution Center, factory OF ceramic and derivatives, etc.
- ✓ High performance Technical College with computer equipment and library;
- ✓ Community recreation center for adults and children;
- ✓ Peasant Health Care Units and Centers - ambulance with Intensive Care Unit;
- ✓ Construction of more than 100,000 Homes for Peasants;
- ✓ Installation of Artesian Wells;
- ✓ Training in various topics of interest;
- ✓ Infrastructure for Volunteer Firefighters;
- ✓ Significantly reduce the loss and waste of food in the Chain, ensuring the supply of nutritious food to the entire population, especially children;
- ✓ Investments made in farms such as chicken coops, pig farms, greenhouses, agricultural crops, reforestation may generate income for the beneficiaries activities with the provision of raw materials for community industries; once processed and commercialized, the profits generated will be reinvested in the population in maintenance of roads, health and education; all the activities carried out will be with a cooperative approach where the main actors will be the population most in need.

COMPREHENSIVE EDUCATION (PROJECT HOUSE OF KNOWLEDGE)

- ✓ Cooperate in the training of comprehensive individuals, young people in vulnerable situations, who further acquire the skills and knowledge necessary to start their own ventures in the field of Ecological Productivity, Culture and Tourism, access to a decent job in various sectors. Total of 159,000 beneficiaries.

SANITATION AND ENVIRONMENT (PROJECTS BEAUTIFUL CLEAN WATER METRO, BEAUTIFUL CLEAN WATER INLAND)

- ✓ Civil Works to avoid Floods;
- ✓ Install Storm Drainage and Sewerage in the Asunción Metropolitan Area - AMA, reaching nearly 5,000 linear km of Network;
- ✓ Install Storm Drainage and Sewerage for all Municipalities / Districts of the Interior of Paraguay, reaching about 12,000 linear km of Network;
- ✓ Garbage Recycling and energy generation in the concept of Circular Economy;
- ✓ Promote Environmental Health with the communities.

HEALTH & WELL-BEING (PROJECTS HEALING METRO, HEALING INLAND)

- ✓ METROPOLITAN AREA OF ASUNCIÓN - AMA. Install Health Care Network / Social Capillarity Health Network with 1 University Social Hospital (HSU) (24/7) with 150 beds + 50 ICUs, 4 First Aid Units (UPA) and 12 Basic Health Units (UBS). Network of 26 ICU Ambulances and 1 ICU Helicopter Ambulance. Provide affordable access to all Paraguayan citizens in the Asunción Metropolitan Area (AMA);
- ✓ INTERIOR OF PARAGUAY. Install Health Care Network / Social Capillarity Health Network with 4 University Social Hospitals (HSU) (24/7) each with 150 beds + 50 ICUs, 6 ICU Ambulances and 1 Helicopter Ambulance; 44 Health Centers (Regional Hospitals) (24/7) each with 50 beds + 20 ICUs, 4 ambulances with ICU; 200 Joint Basic Health Units (UBS) and First Aid (UPA) and 1 ICU Ambulance (24/7). Fleet of 18 Helicopter Ambulances. Provide affordable access to all Paraguayan citizens in any Municipality / District of the Interior;
- ✓ A total of 7,384 beds in the Interior, with 2,280 hospitalization beds, 880 ICU beds, 2,628 Observation beds, 1,020 Red Beds, 244 Stabilization Beds, 18 Helicopter Ambulances and 332 Ambulances with ICUs;
- ✓ Provide Quality Medical Education through University Hospitals.

CLEAN ENERGY (PROJECT ENERGY)

- ✓ Install Voltage / Retrofitting of 500 kv High Voltage Transmission Lines and Electric Power Distribution - High, Medium and Low Voltage, especially for rural areas to support the Agricultural Productive Chain and the Health Attention Network, among others;
- ✓ Installation of SHP (Small Hydropower Plants) and other alternative forms of Energy when necessary, such as Biogas and Photovoltaic Energy;
- ✓ It incorporates the MASTER PLAN of ANDE - National Administration of Electricity, transmission, distribution, information and communication technology for the period 2021-2030, and generation, for the period 2031-2040;
- ✓ Ensure access to electricity for all Paraguayan citizens of the Interior and for the infrastructures of the PROGRAM Projects and development of the country.

TRANSPORT AND LOGISTICS INFRASTRUCTURE (PROJECT OUR WAYS)

- ✓ Construction, Retrofitting and Paving of Neighborhood Roads (approx. 20,000 km) including Bridges and Works of Art, for the production areas of the Agricultural Chain;
- ✓ Railways & Ports of importance for the sustainability of especially rural communities, ensuring the necessary infrastructure logistics for the PROGRAM projects and development of the country.

