

An aerial photograph of a winding asphalt road along a rocky coastline. The sea is on the left, and green hills are on the right. A white location pin icon is positioned over the word 'ORIS'. The UNIDO logo is on the right side of the image.

ORIS



IRF Annual Conference 2022

Innovating Project Delivery Through Sustainable Finance and Technology:

Digitalization in project planning and delivery - Rural road financing

Weixi Gong – Chief, Investment and Technology Promotion Offices (ITPOs) and Institutional Partnerships, UNIDO

ORIS - Material intelligence for sustainable infrastructure

Nicolas Miravalls - ORIS CEO
October 6th, 2022 - Marrakech

ORIS In brief...

A digital platform providing easy and early feasibility assessment for safe, cost-effective and sustainable roads.

➔ Roads are among the most valuable assets of our communities:

with our world facing many challenges from the climate crisis to primary resource scarcity and social inequality,
road investments need to evolve.

ORIS digitally connects all data of a construction project on one single platform, helping to provide **a holistic analysis for the best design** with:

- ✓ Generative design of pavements
- ✓ CO2 emissions
- ✓ Natural resource consumption & circular economy insights
- ✓ Project materials cost estimates
- ✓ Climate change resilience module
- ✓ Safety performance and analysis

Stimulate value engineering, identify, validate and implement financially sound & sustainable solutions for all projects.



Construction costs*
- 15 %

Carbon emissions*
- 50 %

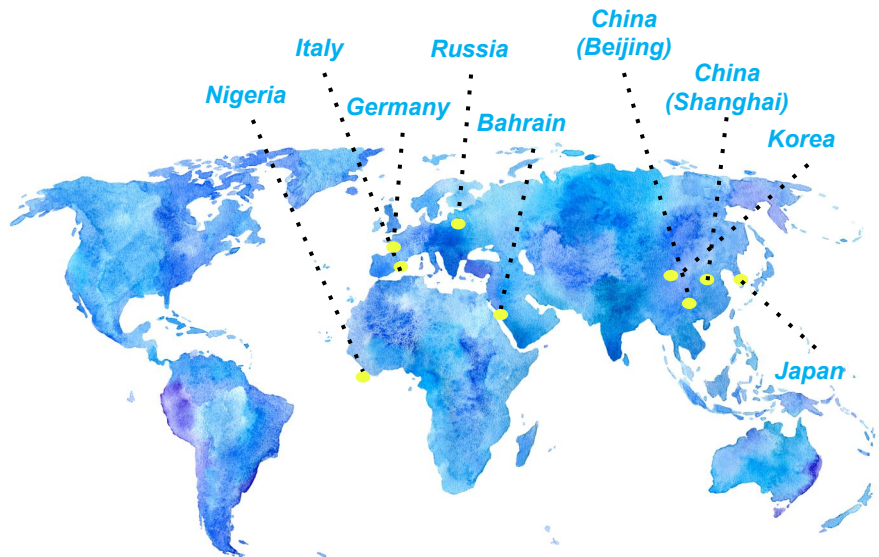
Maintenance*
- 70 %

Natural resource consumption*
- 80 %



In brief...

ITPOs and Institutional Partnerships



The first UNIDO Investment Promotion Services (IPS) was launched by UNIDO in **1976**. IPS later evolved into Investment and Technology Promotion Offices (ITPOs)

Today, ITP Network consists of **nine ITPOs** and is guided by the ITP Network Secretariat at UNIDO Headquarters, within the ITPOs & Institutional

The objective of the ITP Network is to contribute to **ISID** by **identifying and mobilizing technical, financial, managerial and other resources** for the implementation of **industrial investment and technology promotion projects** in developing countries and countries with economies in transition.

The ORIS logo consists of the word "ORIS" in a bold, white, sans-serif font. The letter "O" is stylized as a white location pin icon with a circular head and a pointed tail.

UNIDO & ORIS partner to **facilitate investment promotion & technology transfer** in **cross-country development corridors** for **urban modernization** and **road infrastructure upgrading**, especially in **rural areas**

Rural / agricultural / inclusive road investments for social impact

A glimpse of **the road investment context**

Rural roads and infrastructure are much needed in rural areas for **local communities** to improve their **livelihoods create jobs, particularly for women and youth.**

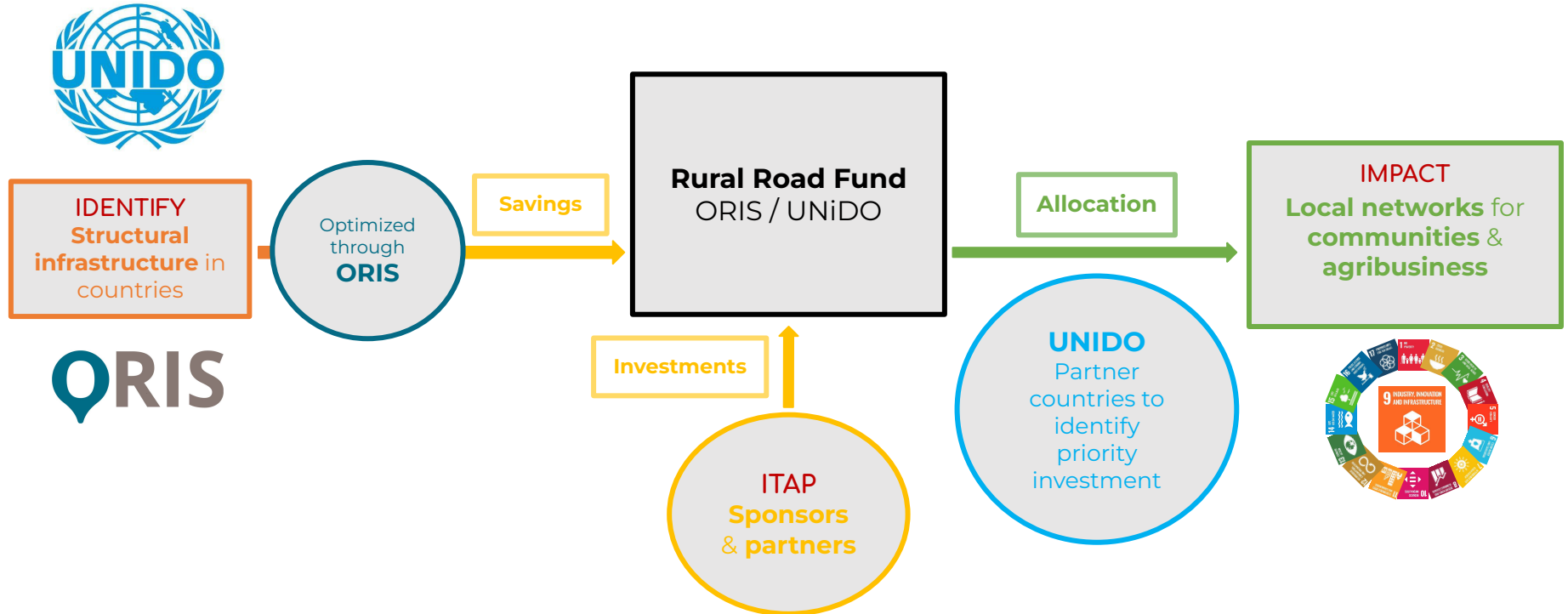
Connectivity is essential for **agribusiness investment attraction, agro-industrial parks and rural infrastructure development.**

Typical **road investments don't reach out** to local networks & **agribusiness connections**, absorbed by larger structural needs.

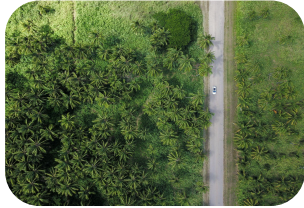
Developing countries lack the capacity to **attract road & infrastructure investments**, and absorb **appropriate technologies.**

The Program

➔ A “systemic” program to help countries **rebalance investments** towards local infrastructure to build roads for the benefit of rural communities.



Various benefits: a program to touch **all major challenges for our communities...**



Sustainability

Targets of International public financing institutions = climate-related projects in their portfolio, improving institutional dialogue between countries & international institutions

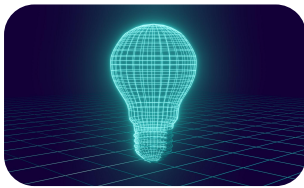


Inclusiveness, skills training and local development

Road infrastructure upgrading, connecting rural areas to livelihood development and job creation, benefiting to local agri networks, a stronger contribution to local and international food security

Mobility & Transportation

Increasing mobility and exchanges, improving key development indicators such as RAI, road safety etc.



Digitalization and SDG 9

Strengthening developing countries' capacity to absorb new technologies





ORIS



Contact details:

nicolas.miravalls@oris-connect.com

w.gong@unido.org