

Sustainable Smart Village and iLima ACIP AI Platform

THE CHALLENGE

Historical, economic, and social challenges have led to a significant backlog of affordable housing in South Africa and Sub-Saharan Africa. The current approach to addressing this issue is inadequate, and the backlog is growing. The iLima Africa Construction Innovation Platform (ACIP) offers a different, holistic solution that integrates community needs with advanced construction technology, focusing on long-term sustainability and community involvement.

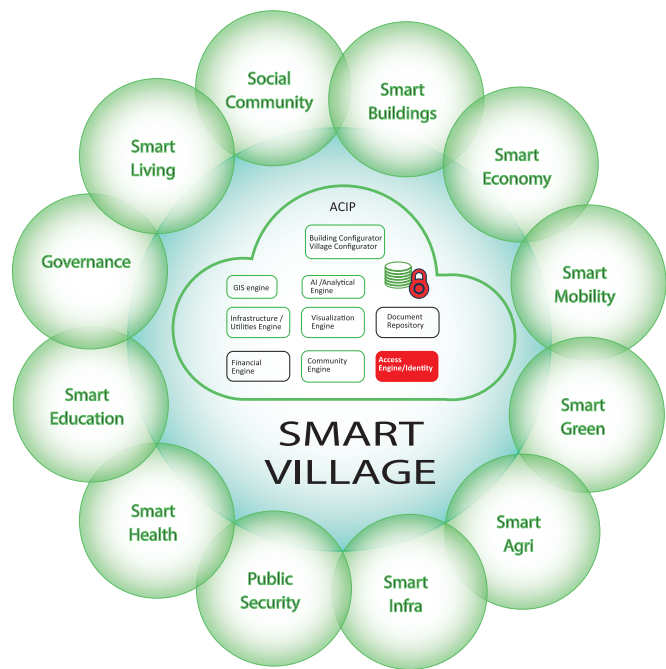
SMART VILLAGE REALISATION CYCLE

This holistic and iterative process begins with a viability study prior to selection of land. It is then followed by continuous data-driven feasibility assessments. The iterative planning ensures cost-effectiveness and alignment with initial needs. As data accumulates and uncertainty decreases, the repeating process optimises village construction and operation. Technical and non-technical data is collected for traceability.

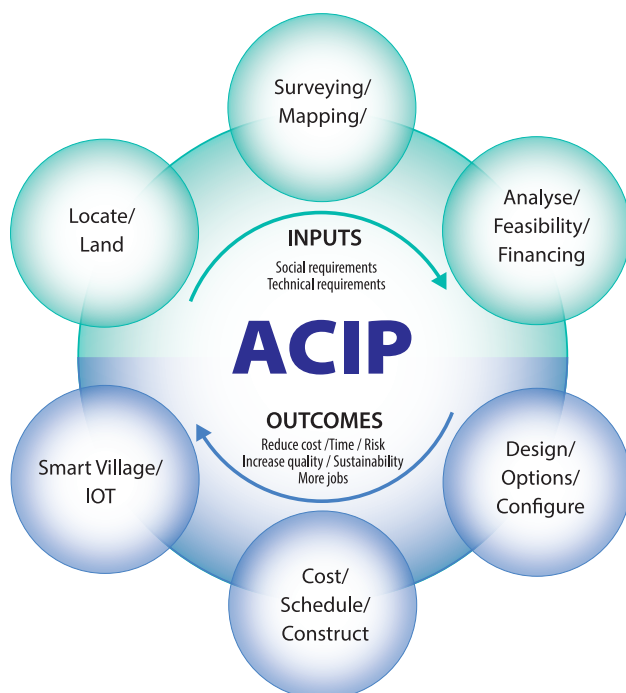
ACIP: SUSTAINABLE SMART VILLAGE AI PLATFORM

The goal of ACIP is to aid authorities and communities in providing affordable shelter and sustenance for a dignified life, guided by the motto: *A home for anyone, and everyone in a home.*

The platform collects, processes, and analyses information, focusing on modelling, measuring, and managing data, fostering autonomy, efficiency, and traceability throughout a village's lifecycle. It advances construction technology access, with innovative decision support models for finance, sustainability, society, and safety, enhancing community prosperity and housing access.



Sustainable Smart Village Key Elements



ACIP BUILDING CONFIGURATOR

In an evolving construction landscape, traditional methods fall short, complicating home building. iLima's ACIP Building Configurator simplifies this process. Home builders can design homes in under 10 minutes, generating insights for developers and creating a marketplace. The Configurator allows one-time modular design and secures pre-approvals for faster project launches. The Configurator streamlines community planning, tailoring to various factors, swiftly establishing infrastructure and customisable options while considering budgets and community input, making your vision a reality.

ACIP INFRASTRUCTURE SOLUTIONS

- Analytics for leak detection
- Continuous monitoring for pumping efficiency
- Actionable insights for sewerage lift stations
- Integration with GIS and third-party vendors
- Production optimisation to reduce GHG
- Many others