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Panel Session 3 November 2021

Technological Innovation: Championing Low Income with High Tech - “AFRICA FIRST”

DATA DRIVEN CONSTRUCTION

AFFORDABLE HOUSING
SELF-SUSTAINABLE VILLAGES



Turning the crisis into an Opportunity...Technology is the solution

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❑ South Africa and Africa have a Housing Crisis

- > 60% People living in slums
- > “500million homes needed in next 30 years” SHELTER AFRIQUE

❑ The Global Construction Industry is transforming

- “The traditional way of doing Construction is not sustainable – Must transform to Industrial Construction”:- MCKINSEY GLOBAL INSTITUTE REPORTS JUNE 2020

❑ Construction Tech is growing 3X 2020-2027 : (from 9B\$ - 28M\$)

- Source : Businesswire

❑ “Africa first” approach

Africa Housing Backlog > 35Million



— Current pain points and challenges

- ❑ Lack of trust in the construction value chain
 - architects-developers- contractors- owners
- ❑ Legacy processes are arduous and time consuming
- ❑ Insufficient tools for decision making
- ❑ Currently no holistic solutions – many “silo solutions”
- ❑ ESG criteria is not addressed
- ❑ High costs and corruption

— Moving forward with “frontier technologies”

- ❑ Harnessing Big Data & AI, results in continuous enhancement and continues learning
- ❑ Aggregated data platform with end-end solution for design-build-operate
- ❑ Platform to identify building/community sites for better IRR
- ❑ ESG criteria addressed up front using “model-measure-manage” paradigm

— iLima holistic & systematic solutions

□ Building as a Product

- pre-configured designs = faster permitting & predictable costs

□ Community as a Product

- pre-configured designs + multiple alternatives = faster permitting & predictable costs

□ Software

- construction management / estimation & portfolio management / building & community configuration /

□ ACIP AI ConstructionTech Platform

— Major Benefits

- ❑ Significant reduction in waste, cost & time
- ❑ Increase in sustainability and quality
- ❑ Transparency & traceability minimizes risk and corruption
- ❑ Improved collaboration & communication

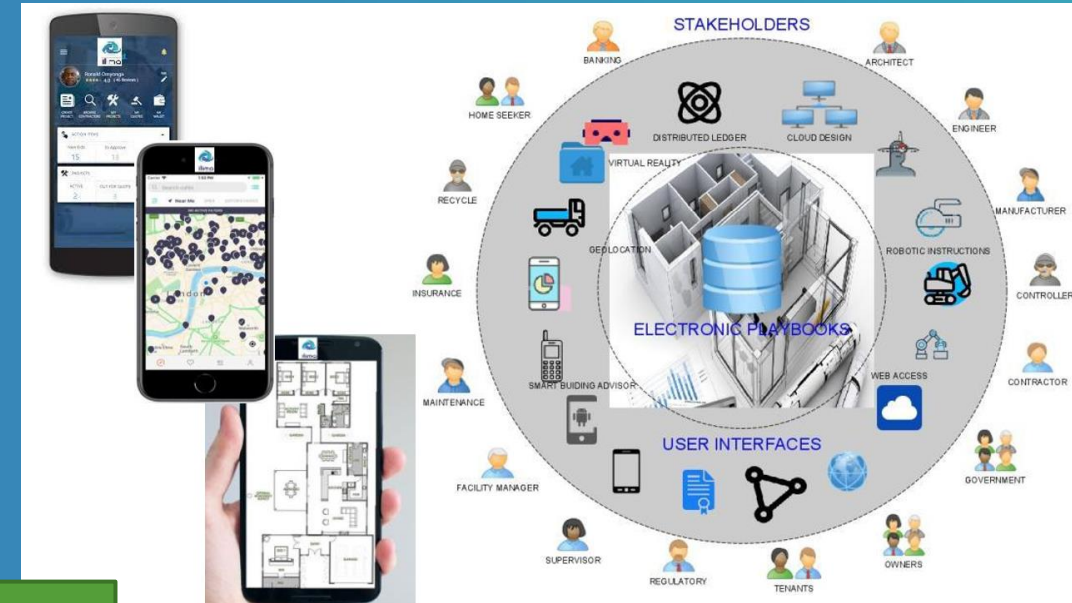
Case Studies ...

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Building as a Product



Smart Building Advisor



Survey Bot

