

**TANZANIA** 

201000010110000110101

**ESTABLISHMENT** OF A CROSS-BORDER **BLOCKCHAIN NODE** 

TAKING YOU AND YOUR INDUSTRY TO THE **NEXT LEVEL** 





# CONTEXT

In recent years, Tanzania has embarked on an innovation-oriented development path emphasizing the importance of e-governance, robust private sector and reliable digital infrastructure. At the same time, the country's economy has been facing a number of challenges preventing it from making a leap to the next level. Those are associated with labor market shortages in highly skilled professionals, insufficient entrepreneurship incentives, particularly

in the technology and innovation sector, as well as limited scope of reforms in e-governance. Yet, Tanzania is among the top 3 innovation leaders in Sub-Saharan Africa, only outranked by South Africa and Kenya. Introduction of state-of-the-art technologies, such as blockchain, could provide a major boost to digitalization and innovation-driven entrepreneurship, while also ensuring efficient and secure provision of public services to citizens.

# TANZANIA is among the TOP INNOVATION LEADERS in Sub-Saharan

Africa



# TARGET BENEFICIARIES:

GOVERNMENT

Industry

Energy

Science

Technology

Communications

Transport

ACADEMIA

Experts

Researchers

COMMUNITY

Start Ups

 $\mathsf{SMEs}$ 

INSTITUTIONS

Standards bodies

Industrial associations

Technology institutes

## STRATEGY

In cooperation with the beneficiary, the National Institute of Transport (NIT), the project will leverage Slovenian expertise in setting up blockchain infrastructure (SI-Chain on Hashnet protocol) to establish a blockchain knowledge hub and design a nation-wide training programme that meets the country's specific needs in bridging knowledge gaps for efficient management and application of the blockchain technology. NIT is a leading academic institution in Tanzania that specializes in producing competent professionals to promote innovation and sustainable development in the country.

As the project's government coordinating agency, the Ministry of Information, Communication and Information Technology of Tanzania plays a pivotal role in promoting digitalization, and technology adoption towards a smoother 4IR transition. The Ministry's partnership with UNIDO aims to strengthen national capacities to adopt blockchain technologies while upgrading the country's skills base.



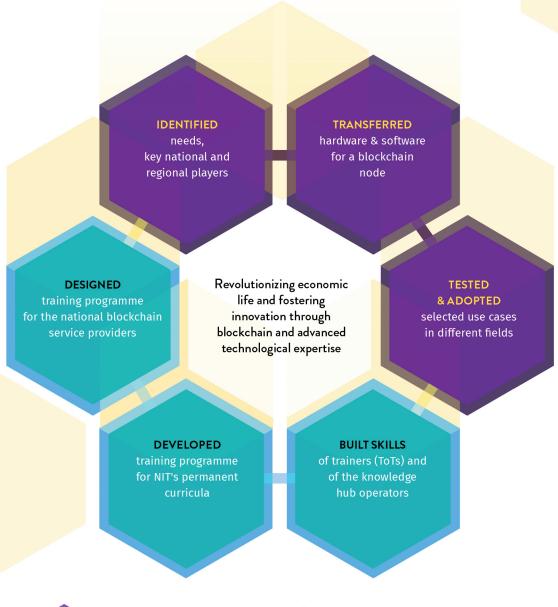
# SI Chain High-Capacity Blockchain

SI Chain is Slovenia's national block-chain infrastructure project, providing a high-speed and high-capacity block-chain network. It is the first-of-its-kind national blockchain infrastructure service powered by the Hashnet protocol, allowing developers in both the public and private sectors to test their applications.



# **Hashnet protocol** Security and Transparency

Is a Distributed Ledger Technology (DLT) that is faster and more energy-efficient than other DLT solutions. It enables the establishment of smart contracts. The protocol is particularly efficient for high-speed transactions, it ensures a secure network by preventing manipulation of transactions or their order.









## **EXPECTED RESULTS**

The project will contribute to implementation of the National Five-Year Development Plan by boosting Tanzania's economic performance and market access through an improved environment that offers blockchain-powered verification, interoperability and reliability.

Targeted efforts will be channelled to ensure relevant knowledge transfer to foster the uptake of digital and 4IR technologies. As a result, the project is expected to help transform and optimize processes related to E-governance, increasing efficiency of public services, while also reinforcing competitiveness and driving innovation of SMEs based on improved access to blockchain infrastructure.

# **EMPOWERING TANZANIA'S FUTURE:**



E-GOVERNMENT IS RELIABLE AND EFFICIENT



BUSINESS

ARE INNOVATIVE

AND COMPETITIVE



NATIONAL EXPERTISE
IS TECHOLOGICALLY
REINFORCED



OF VULNERABLE SOCIAL GROUPS



TRANSACTIONS

ARE FASTER

AND SECURE



GLOBAL MARKET
POSITIONING
IS STRENGTHENED

The projectsupported
Blockchain Hub
will be the first
in its kind in
Tanzania to serve
various productive
SMEs and
other economic
operators in the
country as well
as in the region



Vienna International Centre P.O. Box 300, 1400 Vienna, Austria Telephone: (+43-1) 26026-5090 E-mail: iump@unido.org www.unido.org





This project is supported by the Government of the Republic of Slovenia

© UNIDO 2023. All rights reserved

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed," industrialized" or "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO. Unless otherwise mentioned, all references to sums of money are given in United States dollars.