



SPACE-IoT SOLUTION BOX FOR CLIMATE-SMART AGRICULTURE IN AFRICA

*“Empowering Climate-Smart Agriculture with Copernicus
and IoT Innovations for Smallholder Farmers in Africa”*

TRIPS Article 66.2 Workshop

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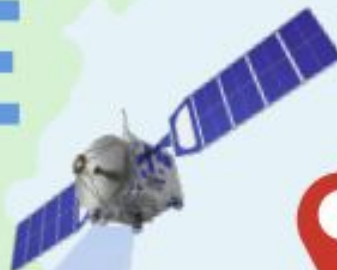
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CLIMATE SMART Agriculture



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Lake Victoria
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Empowering Farmers
with Copernicus Data &
IoT Innovations

Our Impact:

- ✓ Pilot Farms Demonstration
- ✓ Innovation Program for SMEs
- ✓ Talent Program



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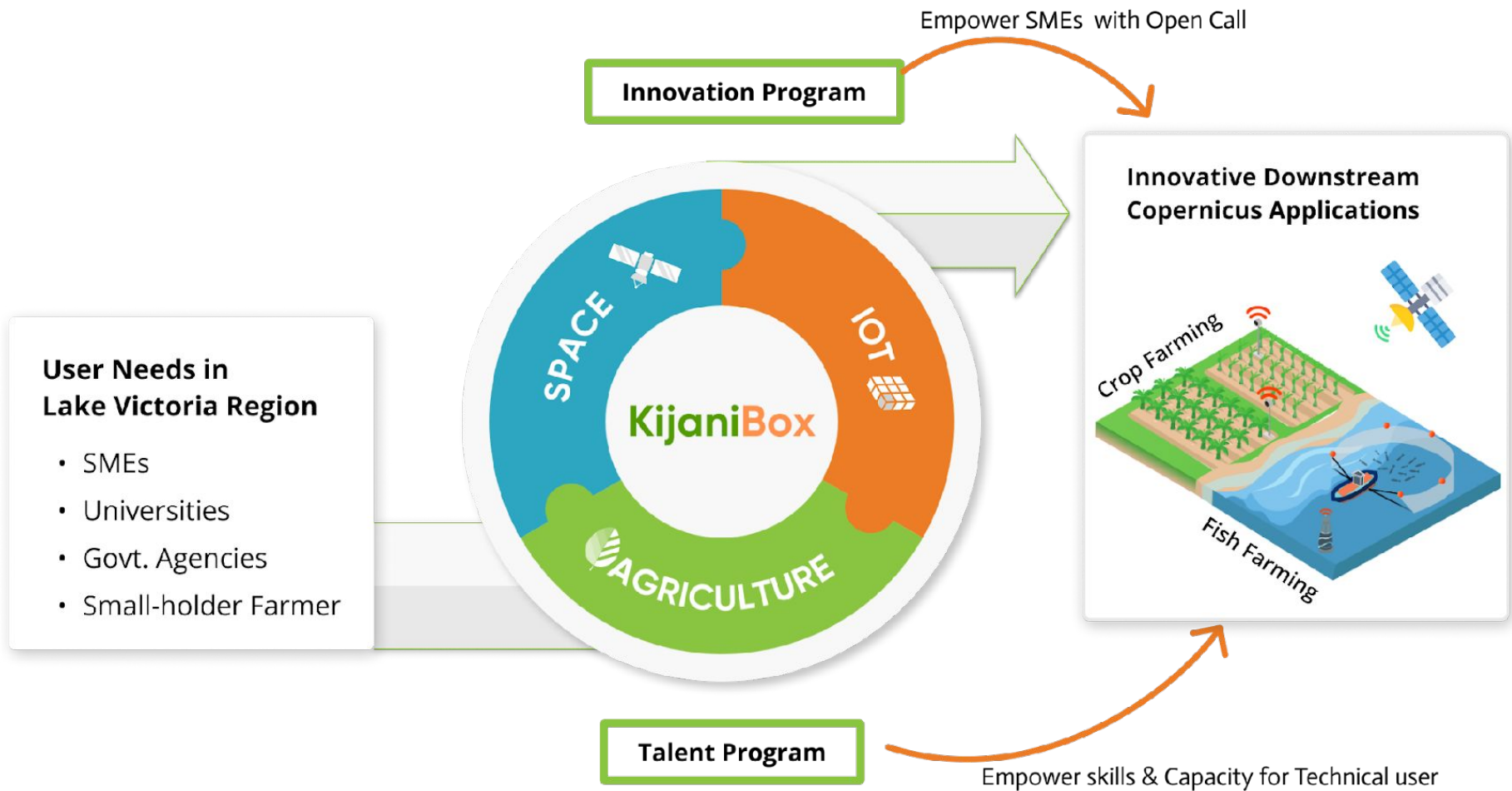
Regional Challenges for Climate-Smart Agriculture

- **Climate-Related Challenges:** e.g. warmer waters lead to fish feeding pattern changes.
- **Socioeconomic Adoption Factors:** High cost and low awareness are the main barriers of adoption EO/IoT solutions across the region.
- **Infrastructure and policy gaps** are also issues eroding the enabling environment.
- **Gender Equity in CSA Technology Access:** Generally low access to EO/IOT tech support for women.
- **Youth's Role:** Youth are majorly involved in labour, advocacy, capacity building activities.



One-on-one farmer interviews conducted during the July – August 2025 Climate Smart Agriculture (CSA) needs assessment survey in Tanzania.
Left – Crop farmer; Right – Fish farmer

Main concept



Technology Transfer to LDCs: challenges (in KijaniSpace and previous projects)

Technological environment mismatch between EU/AU:

- **Grid/Connectivity:** Low power, intermittent mobile networks, high data costs (e.g. Benin, Morocco...)
- **Environmental factors:** need for rugged solutions
- **Maintenance:** Limited spare parts & repair pathways, lack of local expertise
- **Remoteness & accessibility problem:** e.g. Inaccessible farm in Nigeria for security reason

Socio-economic environment mismatch:

- Hardware too expensive,
- Lack of economic interest by local stakeholders,
- Lack of awareness,
- Policy challenges (e.g. Importation limits, frequency limitations)



Technology Transfer to LDCs: Recommendations for future projects

Recommendations:

- Thorough **need analysis with local stakeholders/ understand local system**
- **Co-ideation & co-creation** of the solutions with local SMEs
- Buy & build **locally**
- **Early MVP testing/validation** in field experiments, first market replication
- Capacity building that rests on local **TechHubs /Community**.
- **Innovation programs based on local startups**, with selection process, MOU & incentives
- Get **local policy maker** on board
- **Exploitation by local stakeholders/incentives**



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**Thank you for your
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