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CLIMATE INFORMATION SERVICES

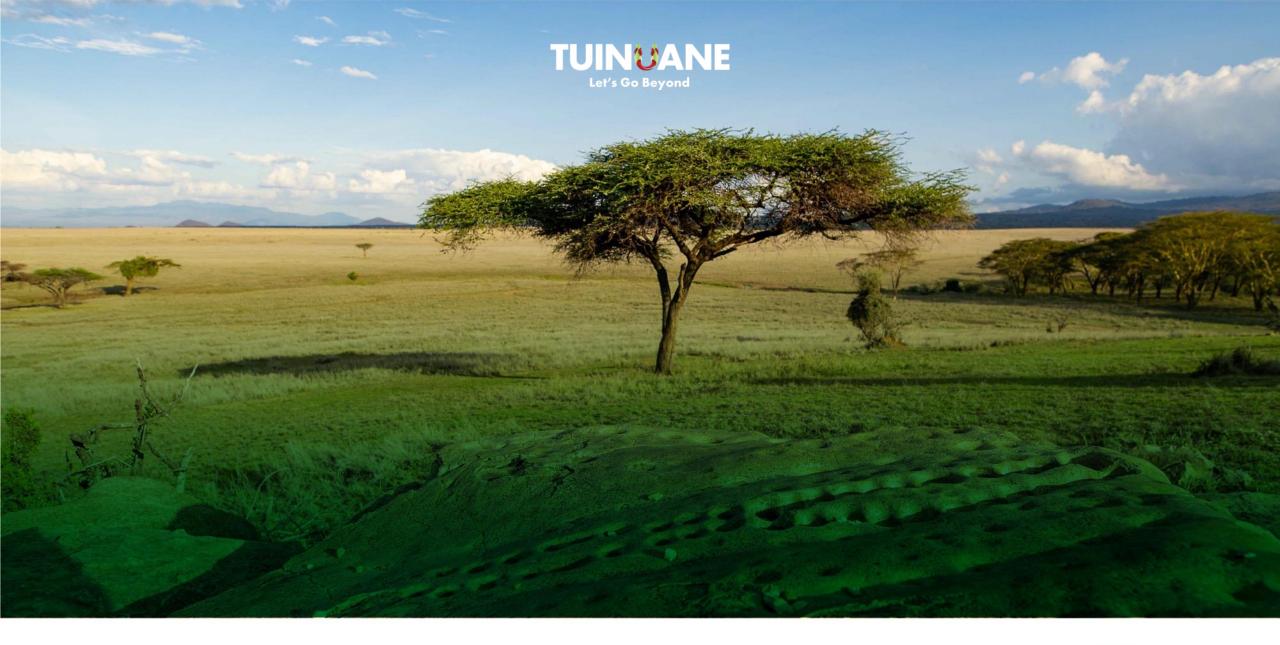


Introduction

<u>Climate</u> - long-term weather pattern in a region, typically averaged over 30 years.

<u>Climate Information</u> - climate variables such as temperature, rainfall, wind, **soil moisture** ocean conditions and extreme weather indicators.

<u>Climate Information Services</u> - Activities that **generate** and **disseminate** climate information in order to assist **climate-resilient development** and inform **climate-related decision-making** as well as **climate-smart policy** and planning.







Technology

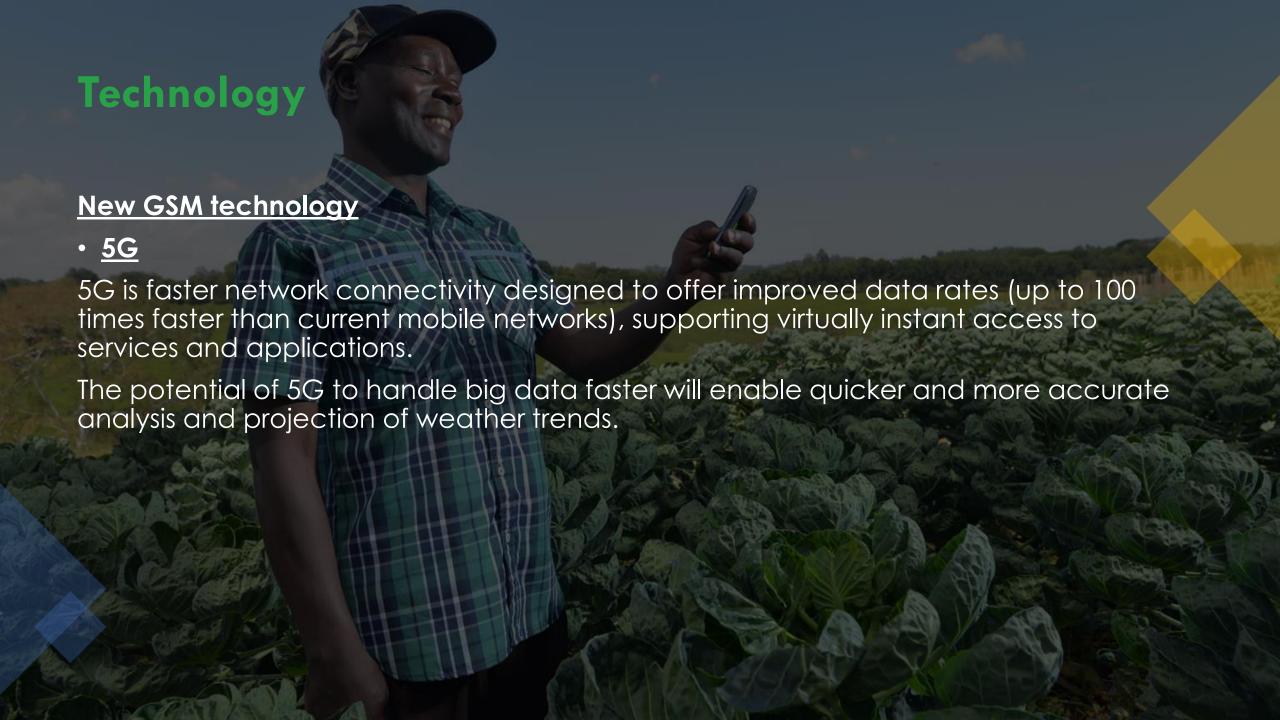
New GSM technology

Internet of Things(IoT)

loT refers to exchange of data between devices and cloud i.e., through sensors.

Safaricom PLC: Partnered with Dedan Kimathi University of Technology to use sensors to monitor climatic data in Safaricom's Forest project.

These data includes soil moisture which will allow the organisation to plan properly on when to plant in order to ensure a high survival rate for the trees.



Summary

<u>Data Collection</u> - IoT technology present a faster way and instant collection of climate information

<u>Data analysis</u> – 5G data will enable faster analysis and analysis of large amounts of climate information

<u>**Data dissemination**</u> – 5G will also enable faster dissemination of this data to intended users for proactive actions

Possibilities of technology are limitless, as technology advances, predictions on climate will be more accurate then ever, now imagine the possibilities that Artificial intelligence (AI) will bring to the table.

