

NUCLEAR POWER & ENERGY AGENCY

NEXT STEPS & OPPORTUNITIES IN NUCLEAR ENERGY IN KENYA

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NuPEA



Introduction

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SITING PROGRESS

REACTOR ASSESSMENT & INDUSTRIAL INVOLVEMENT

APPLICATION OF NUCLEAR

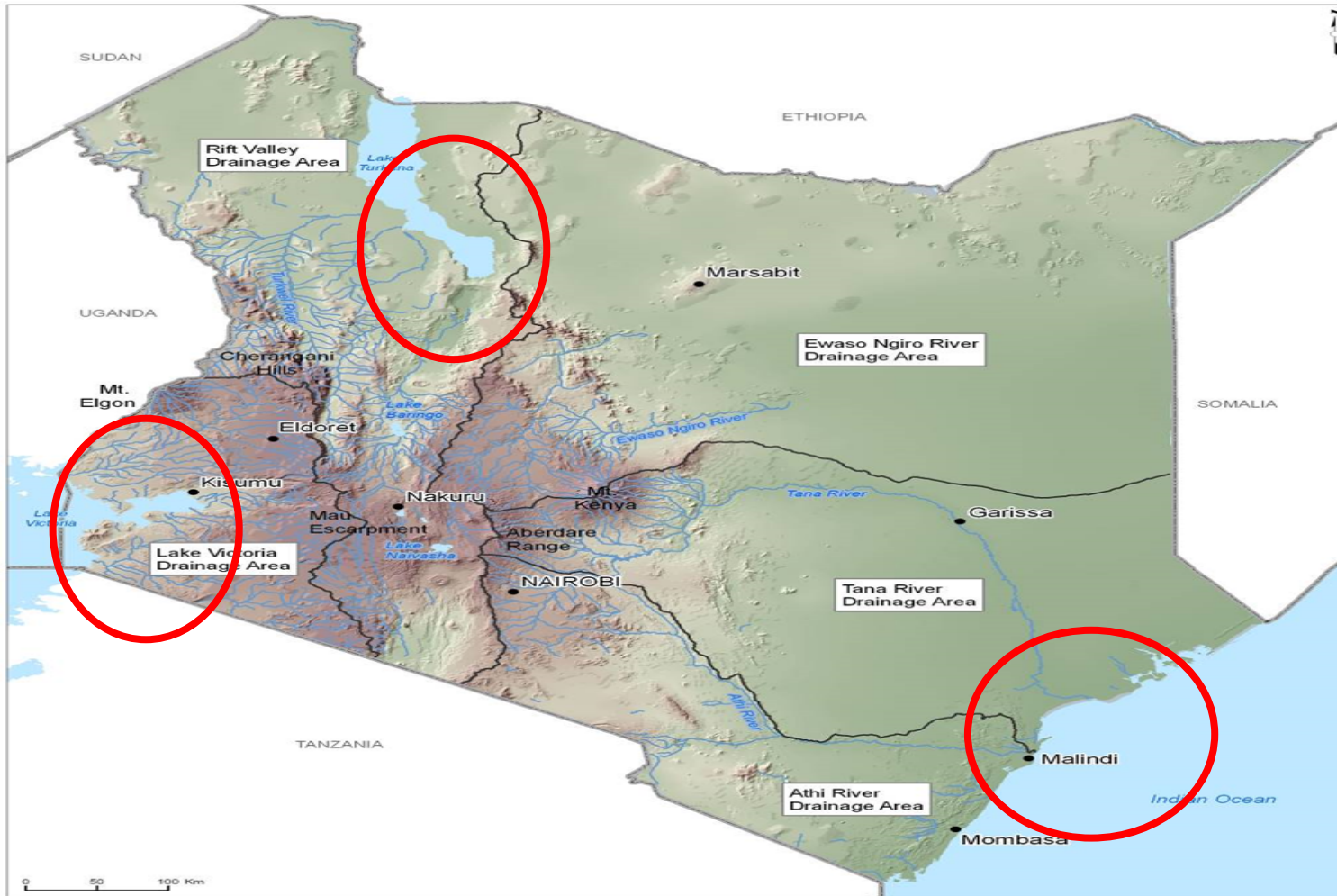
Roles of Entities

Benefits Of NPP

Conclusion

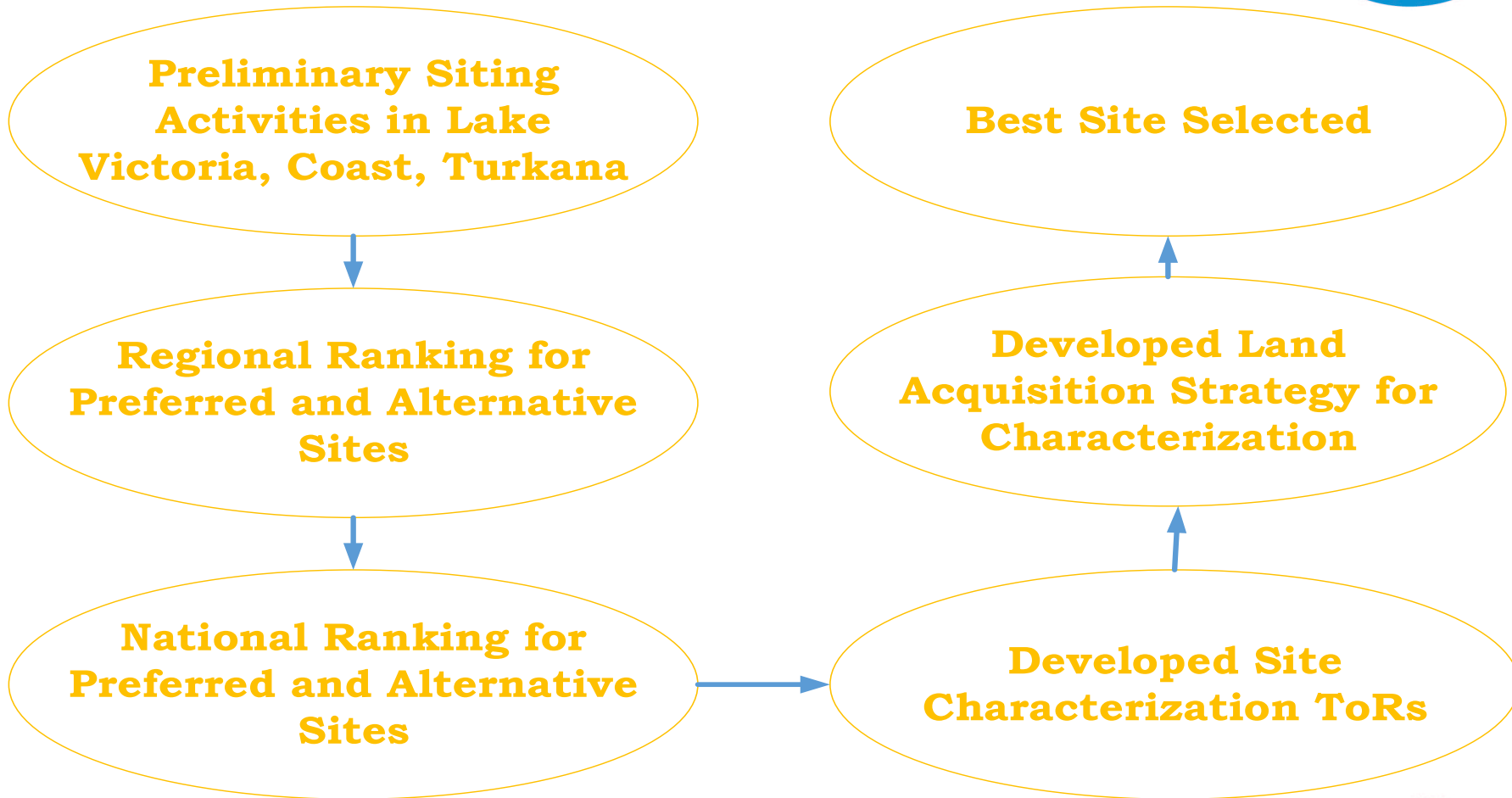
NPP SITING REGIONS

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SITING PROGRESS

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Large NPP Assessment

SMR Assessment

Vendor Readiness Assessment



NuScale-US



RITM-RUSSIA

- WESTINGHOUSE: USA
- EDF: FRANCE
- KEPCO: SOUTH KOREA
- ROSATOM: RUSSIA
- CGN: CHINA
- GE: US/JAPAN

INDUSTRIAL INVOLVEMENT

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**Analysis of Local
Industries ability to
supply**

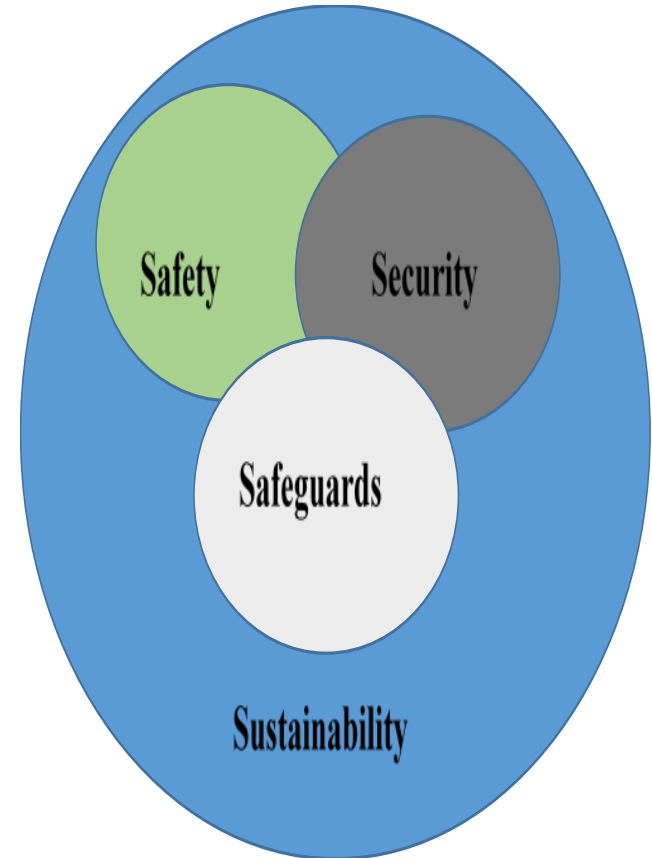
**A database of relevant
industry capability**



Nuclear Regulatory Act, 2019

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Covers the 4S of a
comprehensive Radiation
and Nuclear Regulatory
Regime



Human and Institutional Capacity Development for the NPP

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>500 Kenyans trained through the IAEA National Liaison Office (NLO)

KINGS – South Korea – 31 graduates, 9 ongoing

Institute of Nuclear Science & Technology (UoN) - 66 sponsored students

Kenyan Students in Russia & China Universities

APPLICATION OF NUCLEAR TECHNOLOGY

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Power Generation

**Industrial Applications
(I&C, NDT,
Roads, Desalination,
Hydrogen Gen)**

**Research & Capacity
Building**

**Transport
(Submarine, Space
Missions)**

**Radio-Isotope Generation
Medicine, insect control**

**Agriculture
(Plant Mutation
breeding, Fertilizer, insect
control)**

ROLES OF DIFFERENT ENTITIES

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NEPIO

provide detailed guidance on a holistic approach to national nuclear infrastructure development

Regulator

activities related to the peaceful use of nuclear energy are carried out in a safe manner

Owner Operator

owns and operates a nuclear power plant in a country

BENEFITS OF NPP

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Carbon free

**Revenue Streams for
State & Hosting Counties**

Faster Economic Growth

**Direct Employment-1500
Construction-5000**

**Economic Ripple
Effect in locality**

Stable Power Supply

**Schools, Roads,
Healthcare facilities**

Lower Electricity Tariff

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Thank You!

