

Developments in African Cyberinfrastructure to support Open Data & Open Science

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Abstract

This talk traces the development of Pan African Cyberinfrastructure to support advancement of the science enterprise in Africa. The talk looks at an African continental initiative like the African Open Science Platform (AOSP) - a regional initiative like the Southern African Development Community cyber-infrastructure Framework (SADC CI) and finally examples of National Initiatives like NICIS in South Africa and ODOS in Botswana.

A cyberinfrastructure facilitates collaborative ecosystems for research, innovation and teaching by creating a shared commons for data, computational platforms and human capital development over a fabric of high speed connectivity afforded by National Education and Research networks (NRENs). Development of these cyberinfrastructures will be a bedrock for African participation in global projects of consequence such as the Square Kilometer Array (SKA), Human Heredity and Genomics (H3Africa), Weather and Climate Change and others - and will contribute to African advancement and integration through science, technology and innovation and thereby advance African Agenda 2063: *The Africa We Want*.

Keywords

Cyberinfrastructure, High Performance Computing, National Education Research Networks, Open Data, Open Science

References

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