Genome Editing Policy and Guidelines – Africa Union Members States

Virtual Workshop on Regulatory Approaches for Agricultural Applications of Animal Biotechnology

SEPTEMBER 29, 2020

AUDA-NEPAD-ABNE Team Silas Obukosia,



Contribution of Agenda 2063 and SDG





Mandate, Vision, Mission In line with AUDA-NEPAD mandate and core functions and towards the objectives of the AU Agenda 2063

AUDA-NEPAD Mandate



Provide knowledge-based advisory services and technical assistance to African Union Member States and regional economic communities to strengthen their capacity

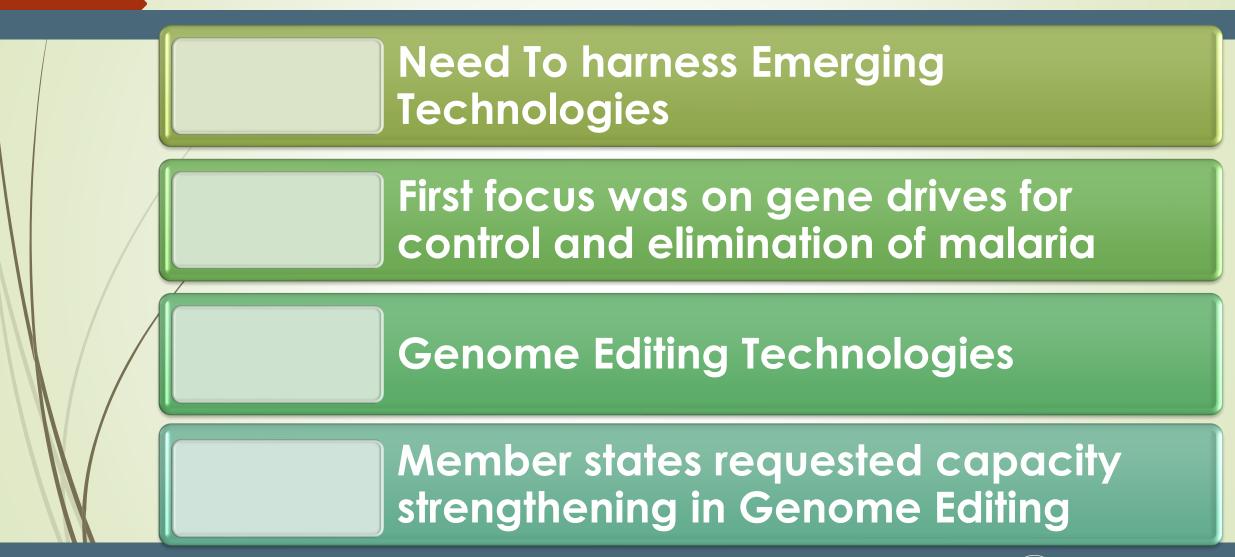






Act as the continent's technical interface on policy development recommendation and implementation with partners and stakeholders Undertake the full range of resource mobilization



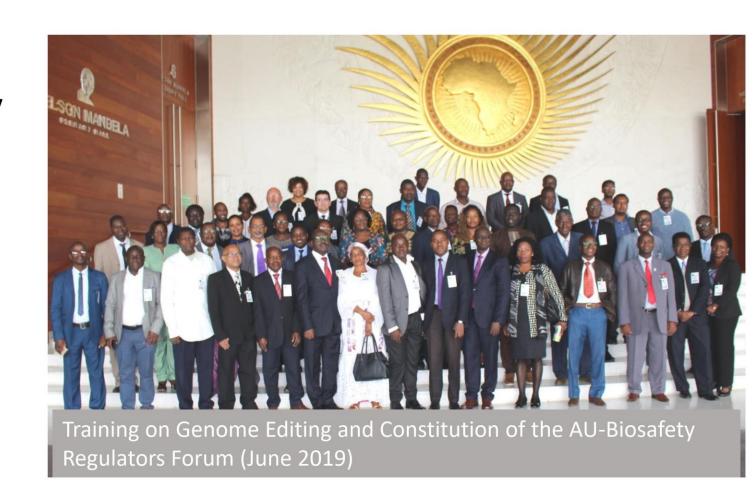




Political will expressed through the need to harness Emerging technologies....Gene Drive and Genome Editing

 All 55 AU member states requested for trainings on Genome Editing, development of regulatory guidance tool

 Regional and continental approach is needed in developing a harmonized policy on genome editing



Workshop on Genome Editing



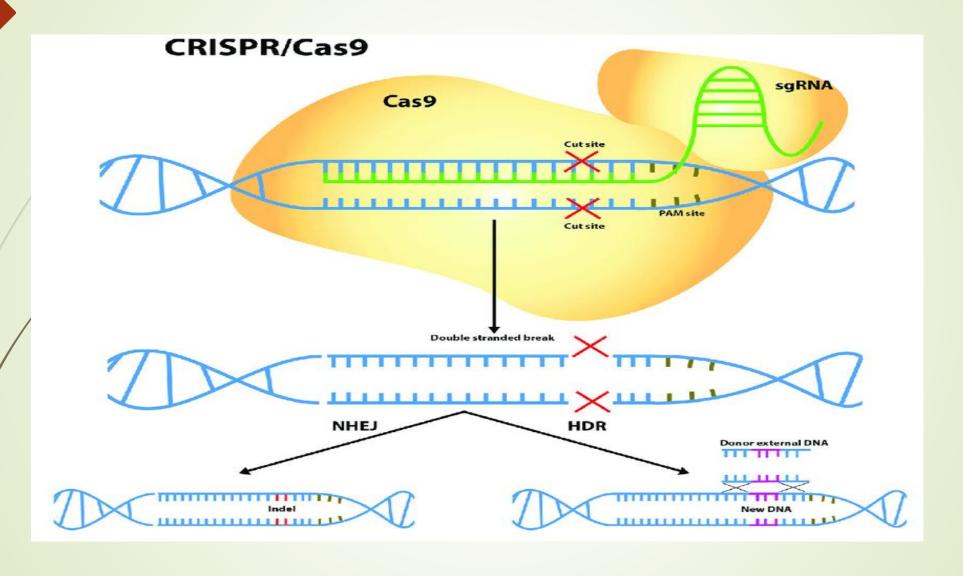
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Science-Based approach to Regulation Genome Editing

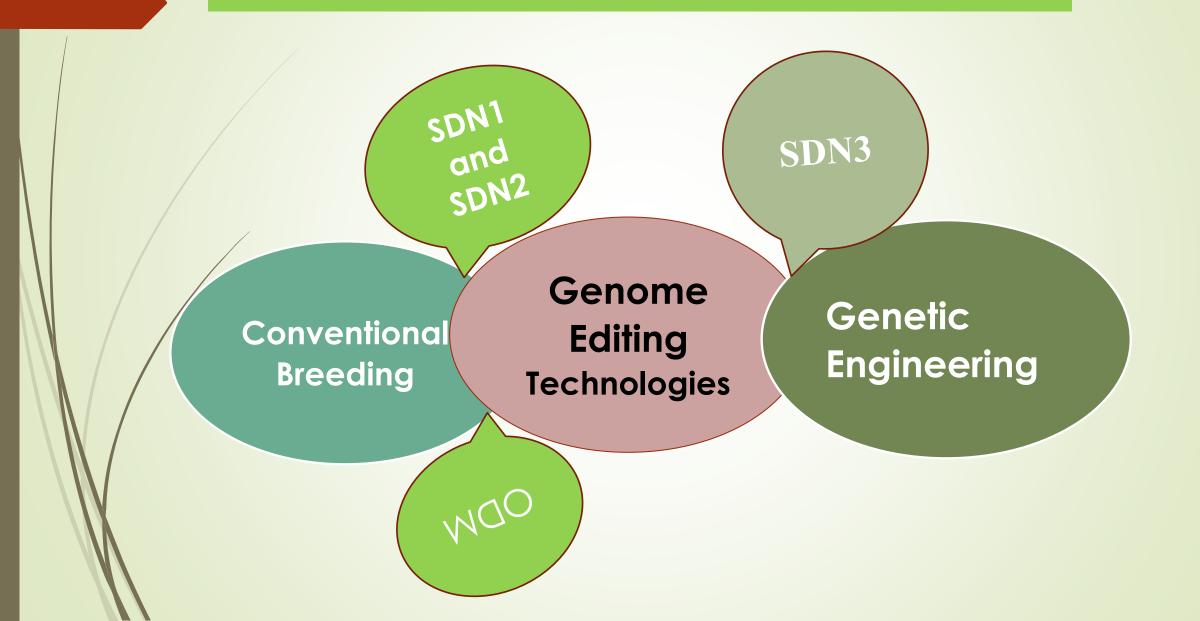
Training in Eswatini and Malawi



Science Based Approach????



RELATIONSHIP IN FOUR APPROACHES



Africa Union Panel of Experts on Emerging Technologies

- APET- technical documentation on the science and regulation of genome editing technologies
- Specifically guidance on the regulation of genome editing- site directed nucleases (SDN) based
 - CRISPR and Cas associated proteins,
 - Zinc Finger Nucleases (ZFNs),
 - Meganucleases also called Homing Endonucleases
 - Transcription Activator Like-Effector Nucleases (TALENS)
- Oligonucleotide DNA Mutagenesis ODM.
- This documents will serve a baseline for Africa Union Member States to develop sovereign regulatory frameworks to regulate the science of genomic editing in their specific countries.



Conclusions and Observations

- Africa Policy support use of Science Technology and Innovation for Social economic development
- Animal, Health, Crop and Industry
- Emerging Technologies including Genome Editing
- Will be developing a Policy for member States on Genome editing
- Acknowledgments-Sam Timpo, Moussa Savadogo, Jeremy Ouedraogo, Sunday Akile, Jean Kebere, Wolde Sinebo- MSU Team Karim Maredia, Ruth Mbabazi

