

African Union Development Agency (AUDA)

**AFRICAN UNION HIGH LEVEL PANEL FOR EMERGING
TECHNOLOGIES (APET)**

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“The freest Nations are those who strive to build their own autonomy and prosperity”

AUC and Governments recognize the need to accelerate this movement by using new and emerging technologies



APET creation



Significant progress

- Food production
- Relevant Infrastructures
- Pullback malaria,
- Clean energy,
- ICT : African creativity, emergence of thousands of start-ups.

Advantageous use of scientific and technological opportunities



Drones for precision agriculture

Real-time decisions

Anticipate, adjust water fertilizer and pesticide treatments, reduce risks, and pollution

Land mapping and surveying, livestock rearing



Optimal sustainable and efficient farm management.

Attracting to agriculture African youth, technologically driven

Gene Drive for control and elimination of malaria disease vectors

Large scale



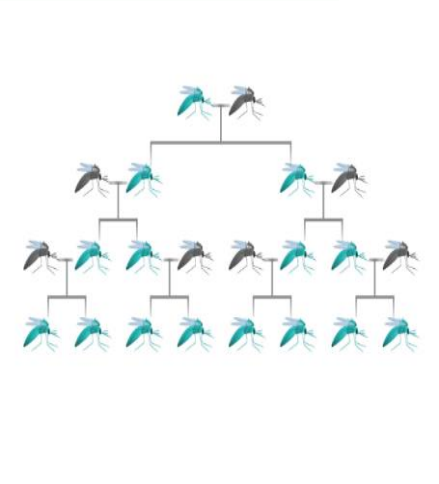
High impact
Less 10% release



Short duration



Gene drive **the most effective** for reducing insect vector of malaria.



Total control



Huge transformative power for agriculture
More productive and resilient varieties

Micro-grids: Empowering Communities and Enabling Transformation in Africa

- Opportunities for youth Entrepreneurship
- Micro grid less capital intensive than grid expansion.
- Answering to climate change adaptation and mitigation
- Cost-effectiveness : declining costs in solar and battery storage technologies



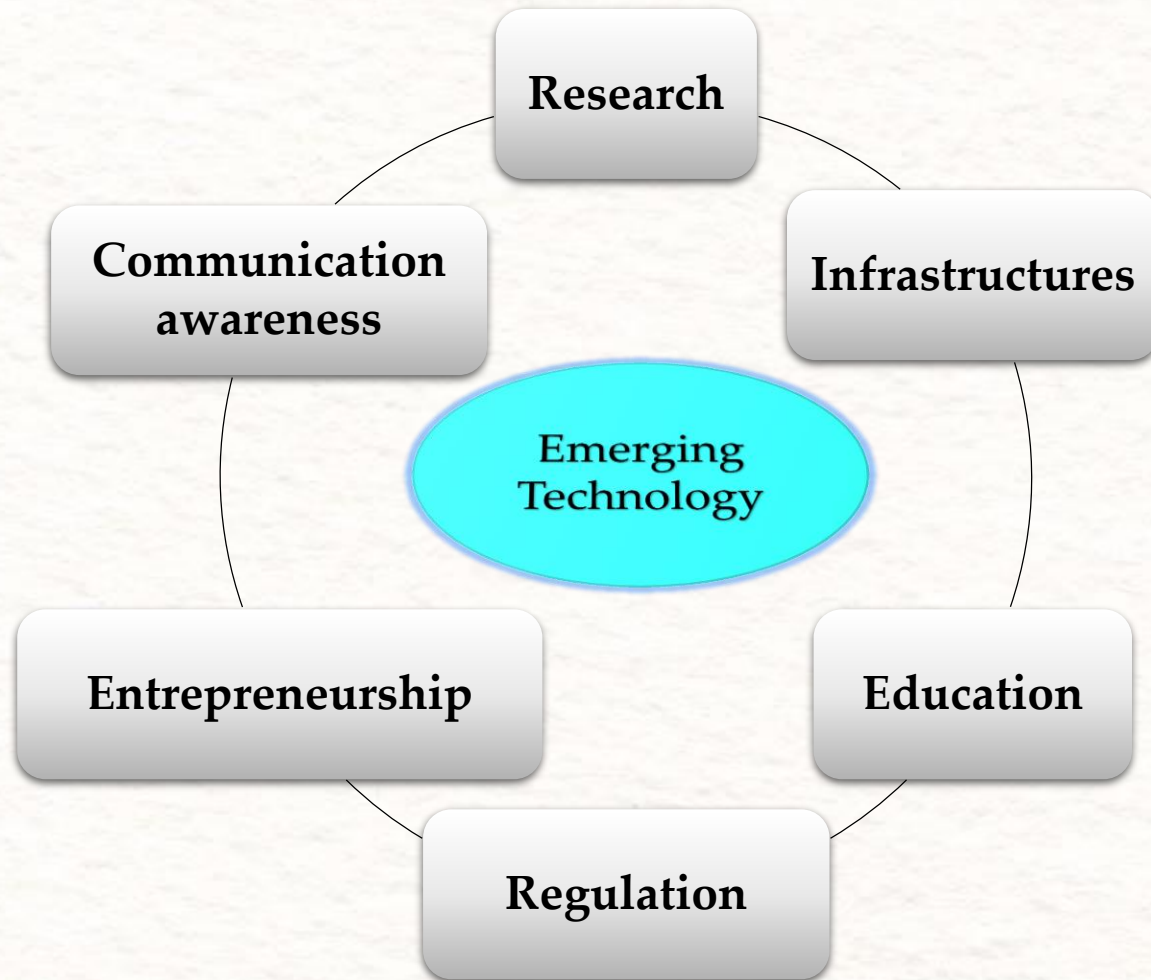
- 3 disruptive ETs in line with **SDGs 3,7,8,9** have reached a level of **relevance, maturity and urgency** tipping point, where their impact can be meaningfully felt.

- Considered as **one component of an integrated approach** rather than standalone technology.
- **Platforms** offering endless opportunities for recombination, basis for industrial development

- Decision *EX. CL/Dec. 986-1007 (XXXII)* of the African Union during the Summit of January 2018.



Strategic policies for implementation



- Call for more proactive engagement of Governments, development partners and private sector to take the leadership
- The Nepad Agency have started an effective implementation of the technologies at RECs and country levels
- Partenering with best skills to develop and disseminate ETs



- English –
- <http://www.nepad.org/resource/drones-horizon-transforming-africas-agriculture>
- **Gene Drives for Malaria Control and Elimination in Africa**
- **Micro-Grids - Empowering Communities and Enabling Transformation in Africa**

- French versions

- **Micro reseaux - autonomiser les communautés et favoriser la transformation en Afrique**
- [des-drones horizon-transformer-agriculture-en-afrique](#)
- **La technologie « gene drive » pour la lutte contre le paludisme et son élimination en Afrique**