Reducing Global Cancer Deaths

Project STELLA
(Smart Technologies to Extend Lives with Linear Accelerators)

30th Anniversary of the TERA Foundation
C. Norman Coleman
Senior Scientific Advisor (NGO)
A world class team of experts has been working on the STELLA Radiation Treatment Technology since 2017 in order to:

- Expand access to high quality cancer treatment globally
- Offer an innovative and transformative Radiation Therapy (RT) treatment system
- Drive down the operating complexity and cost of treatment
- Answer a critical societal need that current manufacturers do not address

The novel treatment system will be:

- More reliable
- 50% lower capital expense
- 40-60% less costly to operate and service
Re-engineering the LINAC to Improve Access

Dramatic Disparity in Access to Radiation Therapy (RT)

- RT is essential for most cancers
- 2040 - 27.5 M new cases and 16.3 M deaths
- 70% of projected cancer deaths will occur in LMICs
- Only 10% of patients in low-income and 40% in middle-income countries have access to RT
- Current need for more than 3500 LINACs in Africa alone
- Estimated need for more than 10,000 LINACs in LMICS by 2035

Disparity –
- US – 331 Million people – 3827 LINACs
- Ethiopia – 115 Million people – 1 LINAC

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Re-engineering the LINAC to Improve Access

Project STELLA Integrated Solution

- **Novel LINAC**
- **Advanced Software and Operating Systems to Optimize Performance**
- **Training and Mentoring of Personnel in LMICs**

Priority focus

Endowment

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Getting the job done: PEOPLE, technologies, knowledge, methods

Botswana 2019 Project STELLA
A Partnership to Transform Global Cancer Care

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Healthful aging and mentorship: People-to-people

Capturing Acquired Wisdom, Enabling Healthful Aging, and Building Multinational Partnerships Through Senior Global Health Mentorship

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