UBORA: '*Excellence*' in Swahili

UBORA: Euro-African Open Biomedical Engineering e-Platform for Innovation through Education

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731053

UBORA: The project

e-Infrastructure for the **co-design** of **open source** biomedical devices to address current and future global healthcare challenges

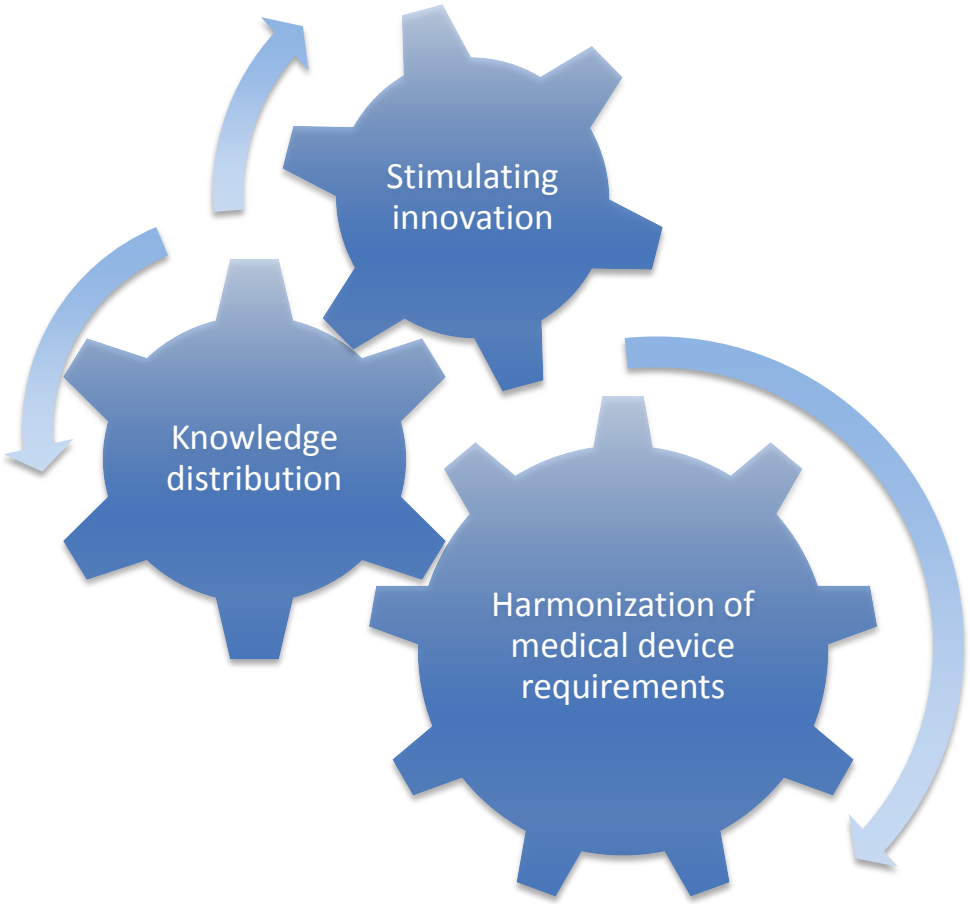
UBORA: The consortium

- University of Pisa
- Kenyatta University
- Uganda Industrial Research Institute
- Universtidad Politécnica de Madrid
- Royal Institute of Technology in Stockholm
- University of Tartu; AgileWorks

UBORA: Advisory board

- Dr. Victor Konde**, Scientific Affairs Officer**, New Technologies and Innovation at United Nations Economic Commission for Africa (UNECA), Addis Ababa, Ethiopia. One of UNECA‟s thematic areas is Innovation and Technology, with a focus on assisting African countries
- Dr Ray Garcia. **Entrepreneur** with over twenty years of global experience in creating business value with innovative information technology products. He is also a consultant to UNIPI‟s
- Dr Philippe Lamesch: Uni Luxemborug. In charge of **fund raising** for the university
- Dr Elizabeth Molyneux. An experienced **paediatrician** at the College of Medicine, University of Malawi for and is an advocate of appropriate technology.
- Dr. Paolo De Simone. A dynamic **surgeo**n at the Azienda Ospedaliero-Universitaria Pisana, specialising in hepatic transplant and liver surgery using advanced surgical tools.
- Eng. Alice Ravizza: A biomedical engineer that specializes in managing regulatory constraints for innovative medical devices**, QA and Regulatory** expert

UBORA: Our Aim



Sharing is the key

- Open access **e-infrastructure**
  - Innovators will just have create their profile
- **Open source design**
  - No IP protection
- **Peer-to-peer** review
  - e-infrastructure allows open access to all designs under development
- Expert, **open mentoring**

Quality means safety

- Quality and safety guidelines for biomedical device, under the guidance of **international standards and European MDD (soon MDR)**, are at the foundation of the project
  - Technical state-of-the-art in safety
- Expert mentoring will ensure that the design complies to highest technical standards at all steps
  - Mentors from **Academia and Industry**

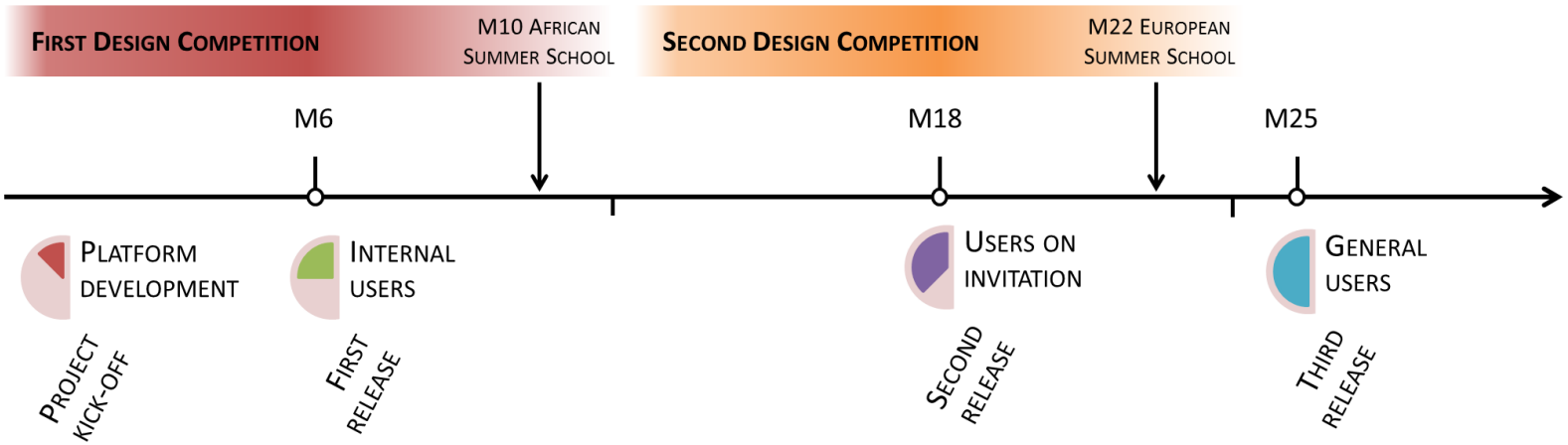
Peer to peer:
peer helps peer growth

- Sharing of **open data** on devices' statistics (performance, field tests, quality control)
- Sharing of mentor comments and even design dead ends
- **Needs based design** on the highest priority medical devices backed with research on current disease burdens

Design for the real world

- Open access to **economic operators**
- Any manufacturer may submit the documentation to the **regulatory authorities**: an effective “double check” of the design
- Manufacturers would always have to comply to all local legal requirements for **manufacturing**
  - Ensure consistent level of safety and quality

The Timeline



First school: Nairobi, 23-27 October, 2017

1. Project brief submission as per template – received 113 proposals
2. Announcement of finalists –28th August, 2017

A call to WHO

Join our Advisory board!

- Promote open access standards and guidelines
  - On design requirements
  - On testing methods/ criteria
  - On manufacturing
- Promote cooperation and mentoring

Thank you from the UBORA Team

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