

Capacity Building in H3Africa

Outline

- Capacity development (short, medium and long term priorities)
 - Human capacity
 - Hardware, tools and resources
 - Technology platforms
- Synergy with other initiatives
- Sustainability

Human capacity development

- Training requirements:
 - Bioinformaticians (use existing data to practice on)
 - Genomics researchers
 - Clinical scientists
 - Ethics experts
 - **Interdisciplinary researchers**
- Target audience, dissemination of course materials (Vidyo)
- Career development within H3A

Training format

- How (format):
 - Short courses
 - Internships
 - Formal curricula
 - Degree programs
 - Online training
- From whom -trainers?

Priorities for training

- Short term:
 - Bioinformatics training (computing)
 - Biostatistics
 - Short courses required, what and when??
- Long term:
 - Faculty trained in genomics and bioinformatics
 - MSc and PhD graduates
 - Technicians

Hardware and tools

- Basic computing infrastructure
- Access to existing computing resources (Cloud)
- Access to existing tools, training on how to use these
- Developing new tools –access, IP issues?
- What are the priorities –use concept sheets?
- Other resources –materials, protocols etc.

Technology platforms

- Using existing ones in Africa
- Building new ones in Africa
 - Set up and quality control
 - Maintenance
 - Cost of running
 - Long term sustainability
- Outsourcing to commercial companies or collaborators abroad

Capacity building in H3Africa

- Unified training plan?
- Unified resources and infrastructure development plan?
- Working groups

Synergies with other initiatives

- Work with existing networks
- Work with existing training programs
 - Wellcome trust training
 - SACORE
 - MEPI

Sustainability

- What happens to our trainees?
- Skills retention
- Skills development in grant writing
- South African NBN example
- Buy in from institutions and government
- Leveraging funding
- From discovery to translational science