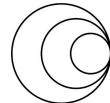


# Day 1: Capacity Development Overview



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# Course roadmap

Sun 7 May  
**Introduction Day**



Mon 8 May  
Day 1  
**Capacity Building**



Tue 9 May  
Day 2  
**Specimen and Sequencing**



Wed 10 May  
Day 3  
**Data Tools and Pipelines**



Thu 11 May  
Day 4  
**Frameworks,  
Guidelines, and  
Decision-making**



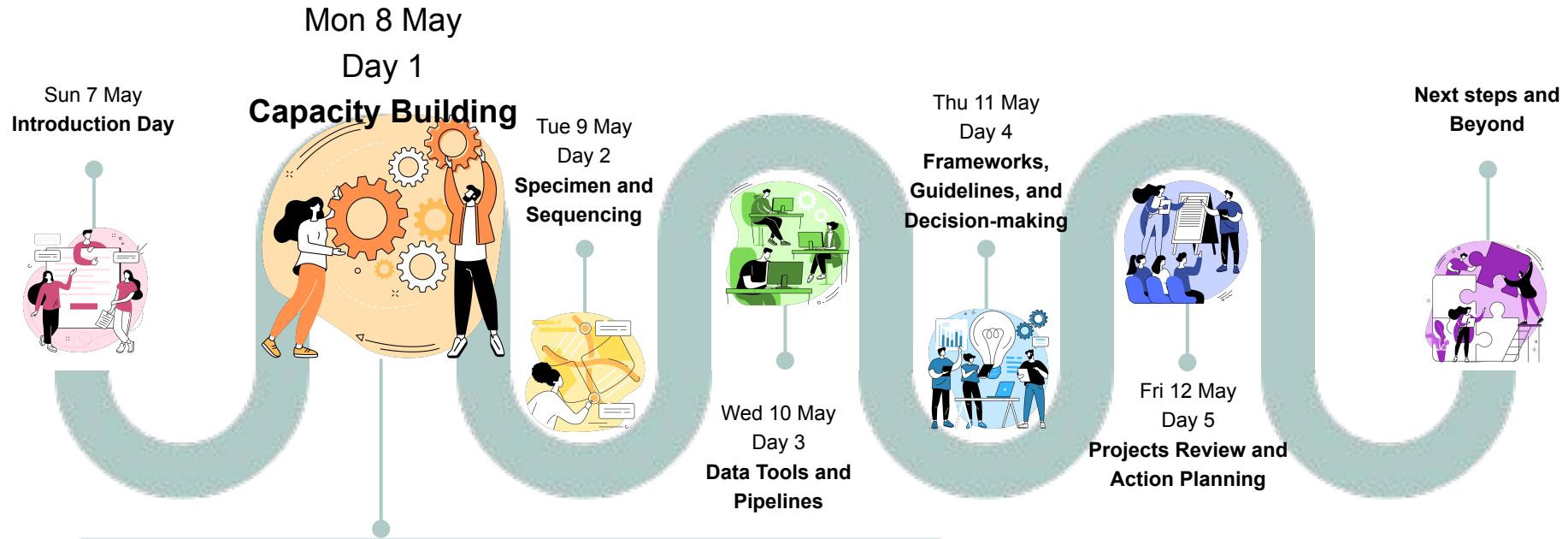
Fri 12 May  
Day 5  
**Projects Review and Action Planning**



**Next steps and  
Beyond**



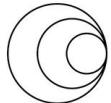
# Course roadmap



Introduction

Overview of basic concepts

Case studies



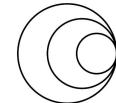
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# Day overview

- Morning
  - Developing capacity for pathogen genomics
  - Practical approaches - specimen, genomics and data infrastructure
  - Practical approaches - Translation of genomics into public health interventions
  - Challenges and opportunities - Group action planning
- Afternoon
  - Design genomics training I - Training design elements
  - Establishing needs for pathogen genomics skills development



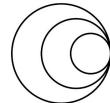
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# Day 1 Session 1: Developing capacity for pathogen genomics

Alice Matimba



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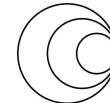


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# Session outcomes

At the end of this session attendees will be able to

- Outline the capacity development pathway of pathogen genomics from sample to decision-making
- Outline the key elements of designing capacity building in the context of pathogen genomics

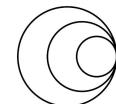
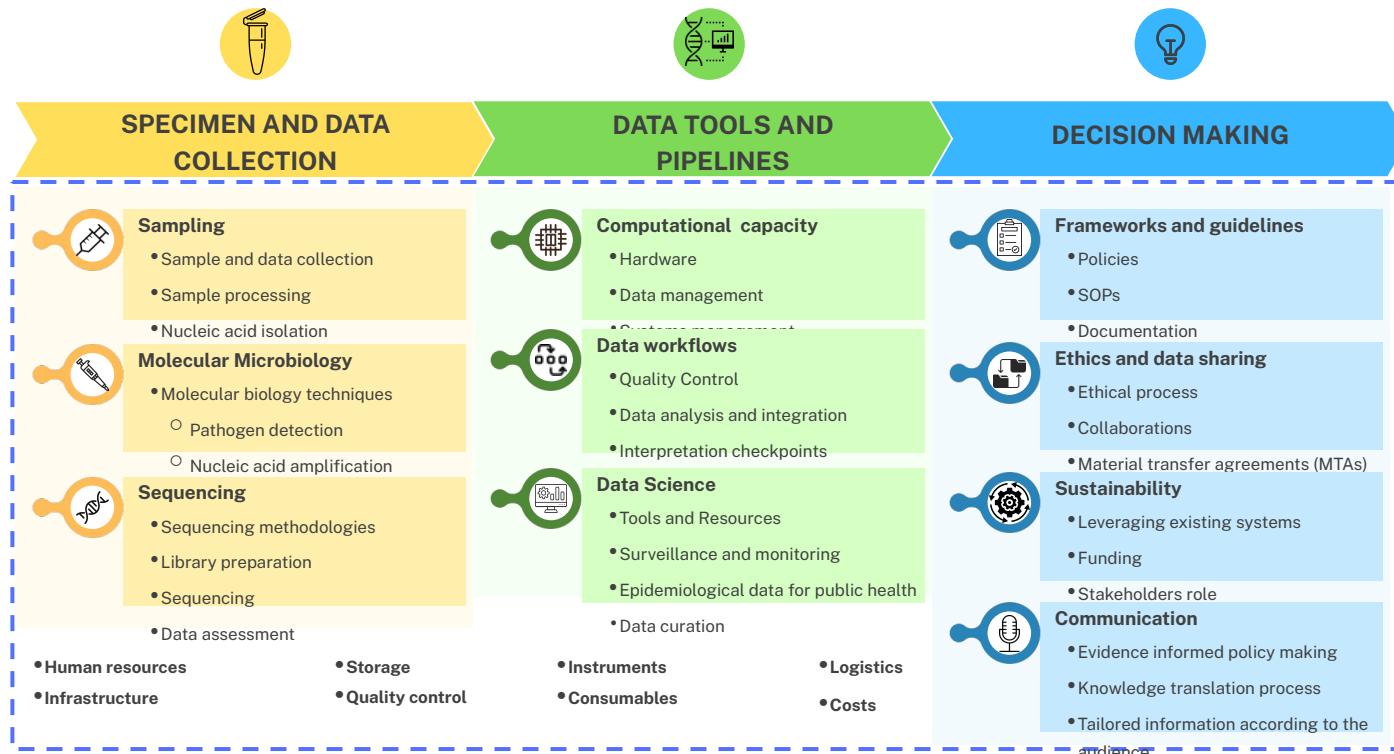


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# Sample to decision-making pathway



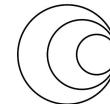
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# What is Capacity building

- Capacity building refers to the process of reinforcement and/or development of skills, knowledge and infrastructure in a specific field in order to address an identified gap or need
- The establishment, development and implementation of human capital, finance and infrastructure, with needs assessment, monitoring and evaluation for implementation in a sustainable way
- Capacity building is the process of improving and/or adding knowledge, skill and resources to an individual or organisation through workshops, trainings, collaborations to ensure they are empowered and confident to carry out their scope of work
- Empowering someone with the necessary knowledge, skills and attitude in performing and improving a defined set of objectives, that encompass institutional, and human workforce capabilities in a sustainable manner



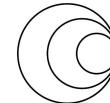
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- Purpose – goal
- Object – area of need
- How – objectives
- Process – implementation
- Context – Environment & Culture



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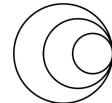
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# Capacity development cycle



Adapted from Strategic Prevention Framework (Inn et al. 2007)

- Needs assessment,
- Define goals, scope and context, capacity assessment and mobilization
- Plan - design, resources (staff, facilities, infrastructure, technology, processes, finance, timelines)
- Implement - operational capacity, management, governance, networks
- Evaluate

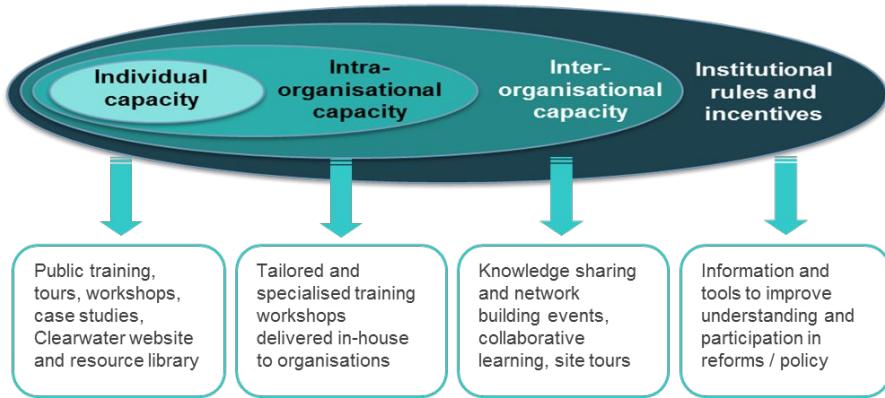


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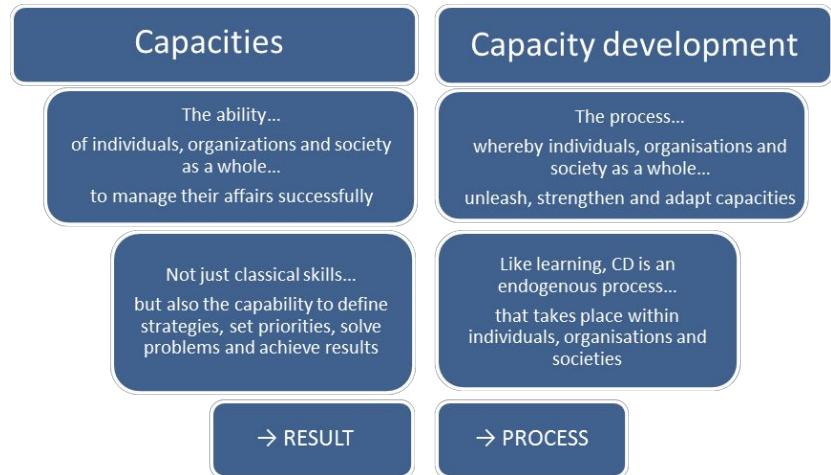


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# Skills capacity development



Brown R, Mouritz M and Taylor A 2006.



OECD, 2006

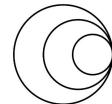
# Define your capacity needs

- What do you need?
- What do you have?
- What is your capacity?
- How will you develop the capacity

## Individual activity

- Current status
- Gaps

*(Infrastructure, Resources, Processes,  
Policies and frameworks, Culture &  
Environmental)*



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