

## **Foundations of ICT4D**

### **ICT4D Value Chain:**

Readiness Availability Uptake Impact

### **ICT4D Readiness Indexes:**

- Digital Opportunity Index (DOI) (disc)
- ICT Opportunity Index (disc)
- ICT Development Index (IDI)
- Economist's E-Readiness Index
- Digital Economy Index (DEI)
- World Economic Forum's Networked Readiness Index (NRI)

### **Technological Foundations of ICT4D:**

- Infrastructure: Hardware, Software, Data, Communication & Processing

### **Ladder of ICT4D Roles:**

- Digital non-user, Digital consumer, Digital Producer

### **Global ICT4D Stakeholders:**

- ITU, UNCTAD, UNESCO, UNDP, FAO, UNDESA, WHO, World Bank, Other UNGIS member agencies, WSIS

### **ICT4D Policies:**

- why?
- Innovation failure: Innovation system does not align with development goals
- Access failure: Lack of access for the technology infrastructure
- Use failure: Applications are used inefficiently
- Impact failure: Application has lack of impact or negative impacts due to use of ICT

### **Financing ICT4D:**

- Sources: International donors, Banks, Governments, Private sector
- Types: Grants, Loans, Equity financing, Subsidy, Credit guarantees

### **Digital Divide:**

- Technological division

- Social divisions: Income, Gender, Education, Age, Ethnicity, Disability, Geography

**Digital Continuum:**

- Moving from digital divide to digital inclusion

**Value Chain Dimensions of the Digital Divide:**

- Availability, Accessibility, Adoption, Application

**Digital Inclusion:**

- Equitable, meaningful, and safe access to digital technologies