



Measuring the impact of training interventions

Alex Kojo Boahoma National Project Officer, Ghana

October, 2022



The DTC Project in Ghana



- ☐ Targets 17,200 persons living and rural underserved communities (women entrepreneurs, marginalized individuals, schoolteachers, youth and students)
- ☐ Funding from NORAD
- ☐ Implementation from January 2021 to December 2023
- Major activities include
 - Training of 17,200 citizens
 - Training of 186 master trainers
 - Capacity of 200 community ICT centers built
 - National stakeholder workshop organized
 - Localized and contextualized training content developed
 - At least 10 coding clubs established



Project Performance Indicators



Level	Indicator	Means of Verification
Overall Impact:	Digital skills levels in beneficiary countries (SDG indicator 4.4.1)	ITU Statistics
Objective:	Increased use of Internet disaggregated by age and sex (SDG indicator 17.6.1	ITU Statistics
Outcome:	Percentage of people whose well-being and livelihoods have improved based on the skills acquired	DTC (Ghana) survey reports

- The impact measurement methodology specifically answers the Outcome Indicator
- It will also enable the project to measure other outcomes that are not anticipated in the logical framework.



Learning/Research Questions



What impact does the digital skills training provided by the project have on beneficiaries' ability to seize employment and enterprise opportunities that improve their livelihoods and contribute to improved wellbeing?

- ☐ Does enhanced digital skills and knowledge result in improved livelihoods and wellbeing?
- ☐ Are there any observed differences in the impact achieved based on the type of beneficiary? What factors are responsible for the differences, if any?

The question focuses on:

- ☐ Changes/improvements in beneficiary livelihoods
- ☐ Changes/improvements in beneficiary employability
- ☐ Changes/improvements in beneficiaries' desire for further digital skills acquisition
- ☐ Changes/improvements in the day-to-day lives with newly acquired skills



Areas of Anticipated Changes



- ☐ Changes/improvements in beneficiary livelihoods
- ☐ Changes/improvements in beneficiary employability
- ☐ Changes/improvements in beneficiaries' desire for further digital skills acquisition
- ☐ Changes/improvements in the day-to-day lives with newly acquired skills



Specific Indicators of Interest



- ☐ Indicator HH4: Proportion of households with a computer
- ☐ Indicator HH5: Proportion of individuals using a computer
- ☐ Indicator HH6: Proportion of households with Internet
- ☐ Indicator HH7: Proportion of individuals using the Internet
- ☐ Indicator HH8: Proportion of individuals using the Internet, by location
- ☐ Indicator HH9: Proportion of individuals using the Internet, by type of activity



Evaluation Design



- ☐ A mixed methods design, comprising the use of pre- and postassessment surveys (quantitative) and focus group discussions (qualitative).
- ☐ **Pre-Assessment:** This involves collecting detailed information on a sample of project beneficiaries at the start of training (420 persons).
- □ **Post-Assessment:** The post-assessment will be a follow-up survey on the respondents from the pre-assessment. The assessment will be undertaken 8-10 months after the training.
- □ Focus group discussions (FGD): FGDs will also be organized with selected beneficiaries to improve the breadth and depth of understanding and corroboration of the pre- and post-assessment.



Sampling Approach



- ☐ The survey targets **15**% of beneficiaries trained in August 2022, amounting to about **450 beneficiaries** across the country.
- ☐ The sample was concluded through a stratified random sampling approach.
- ☐ The stratification takes into consideration sex (male vs female) and the beneficiary category (women entrepreneurs; marginalized individuals; schoolteachers; youth; and students).
- ☐ The sampling approach ensures that we achieve representativeness







- ☐ Possibility of attrition within the sample
- ☐ Survey response is self-reported by respondents, which is difficult to verify
- ☐ The absence of a strong counterfactual



Evaluation Schedule



Digital
Transformation
Centres

	Activity	Timelines
on	Finalization/Conclusion of evaluation approach	July 2022
	Finalization of pre-assessment questionnaire	August 2022
	Training of instructors on pre-assessment question	August 2022
	Collection of data – pre-assessment	August 2022
	Analysis of pre-assessment data	September 2022
	Finalization of post-assessment questionnaire	May 2023
	Training of enumerators on post-assessment questionnaire	June 2023
	Collection of data – post-assessment	June 2023
	Focus group discussions	June/July 2023
	Analysis of pre- and post-assessment data	July - August 2023
	Preparation of evaluation report	July – August 2023
	Hold a virtual validation workshop on the evaluation report findings	August/September 2023



Digital Transformation Centres



THANK YOU!





SURVEY RESULTS – BASELINE

Conducted in August 2022



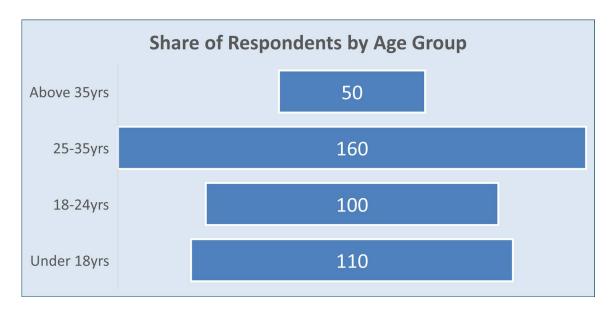


Share of Respondents By Age Group



Digital

Transformation Age Groups	Value	Percent
Above 35yrs	50	12%
25-35yrs	160	38%
18-24yrs	100	24%
Under 18yrs	110	26%
TOTAL	420	100%



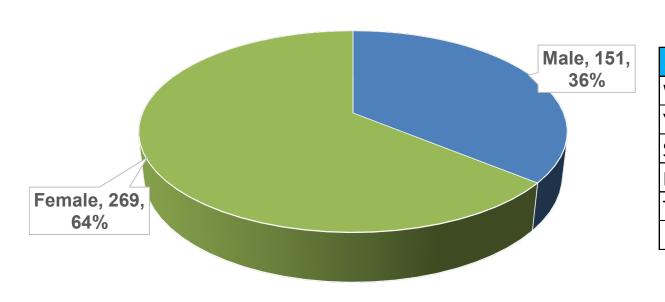
	Male	Female	Overall
Average Age	25	25	25
Median Age	24	25	25
Modal Age	25	25	25



Number of Respondents by Sex



Share of Respondents by Sex

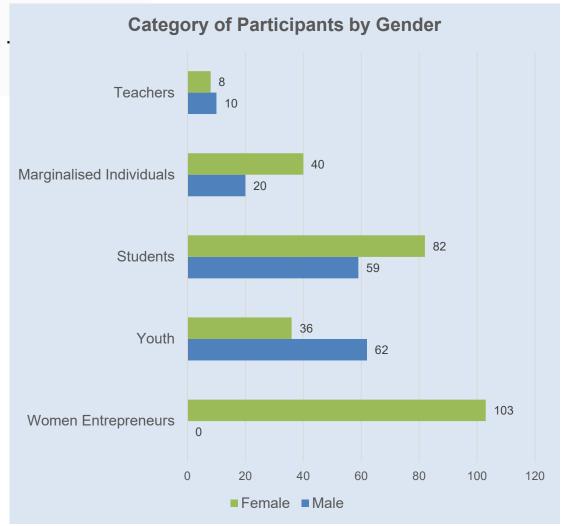


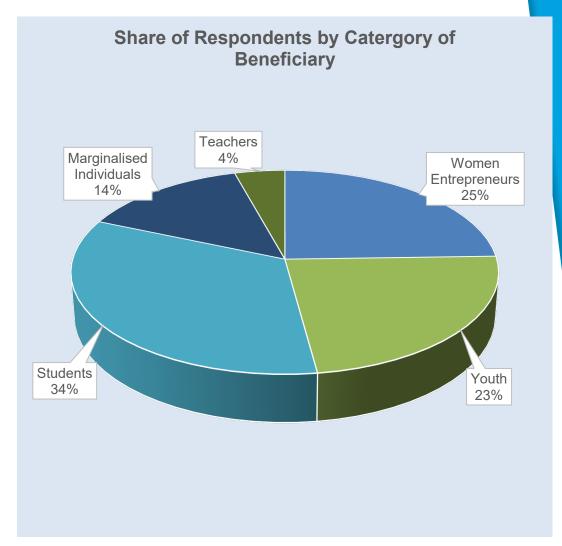
_		_	
Category	Male	Female	Total
Women Entrepreneu	0	103	103
Youth	62	36	98
Students	59	82	141
Marginalised Individu	20	40	60
Teachers	10	8	18
	151	269	420



Number of Respondents by Category of Trainee





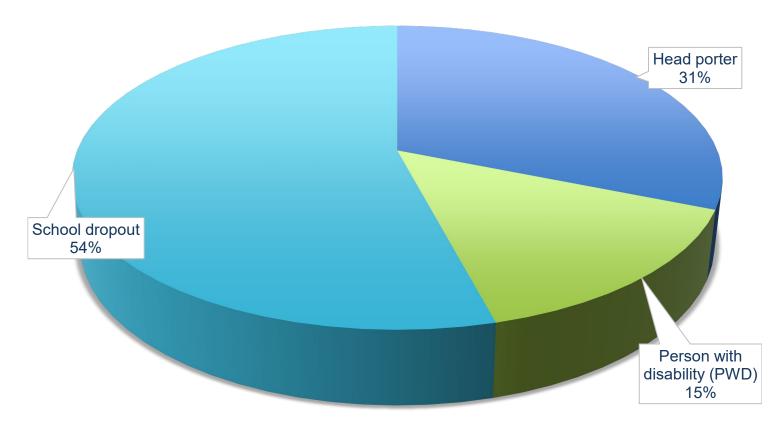




If marginalised, describe type of marginalisation



Type of Marginalisation

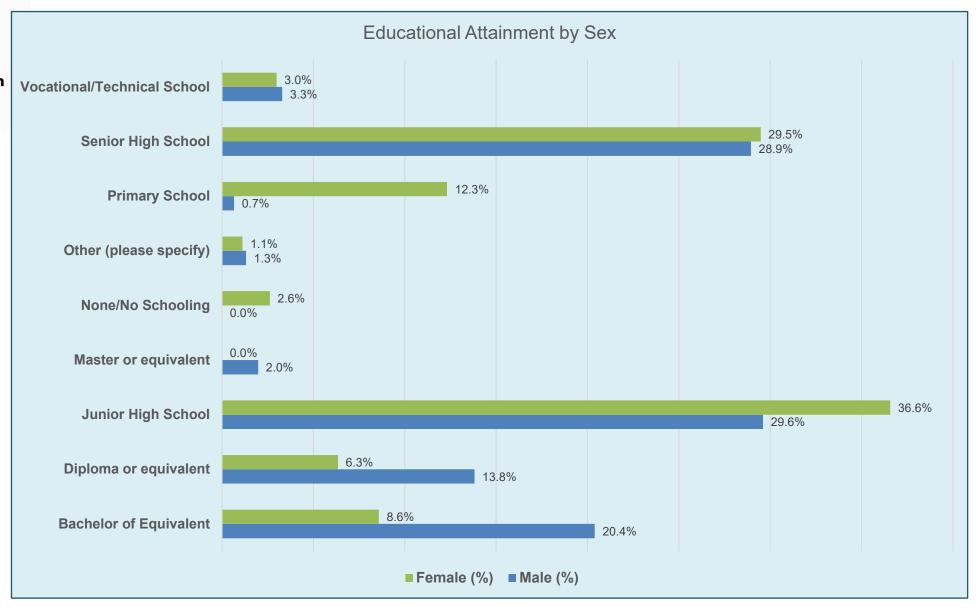




Digital Transformation Centres

Highest Educational Attainment by Sex



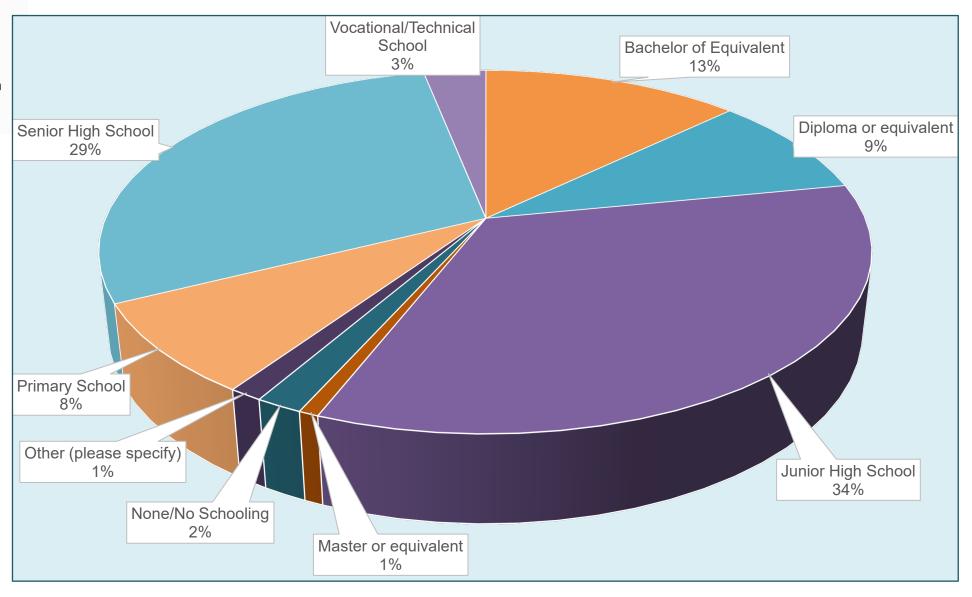




Share of Highest Educational Attainment - Overall











Indicator HH4: Proportion of households with a computer



- ☐ Only 37% of respondents live in a household with a computer.
- A *computer* refers to a desktop computer, a laptop (portable) computer or a tablet (or similar handheld computer).
- Household with a computer' means that the computer is generally available for use by all members of the household at any time, regardless of whether it is actually used.

Responses	Male	% Male	Females	% Females	Total	Overall
Yes, A desktop computer	26	17%	23	9%	49	12%
Yes, A laptop computer	55	35%	53	20%	108	26%
Yes, A tablet	22	14%	27	10%	49	12%
No	76	48%	187	70%	263	63%



Indicator HH5: Proportion of Individuals Using a Computer



Digital
Transformation
Centres

- This is the proportion of individual household members who used a computer from any location in the last three months.
- ☐ 64% of respondents had used a computer during the reference period
- A *computer* refers to a desktop computer, a laptop (portable) computer or a tablet (or similar handheld computer).

	Male		Female		Total Value	
Responses	Value	%	Value	%	Total	%
YES	120	79%	150	56%	270	64%
NO	32	21%	118	44%	150	36%



Indicator HH6: Proportion of households with Internet



Digital Transformation Centres

- ☐ This is the proportion of households with Internet access at home.
- Household with Internet access' means that the Internet is generally available for use by all members of the household <u>at any time</u>, regardless of whether it is actually used.
- ☐ 64% of respondents have internet at home

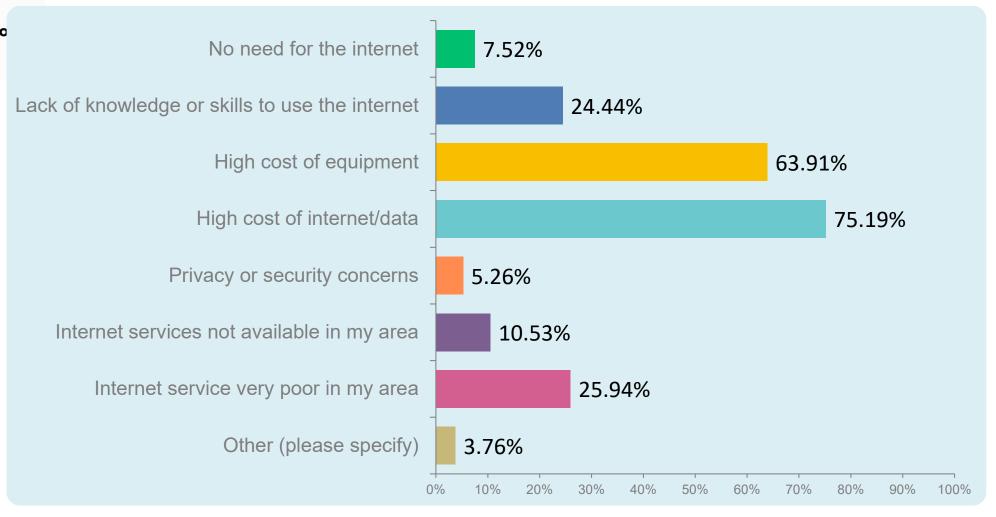
	Male		Female		Total Value	
Responses	Value	Male	Value Female		Total	Overall
YES	93	61%	175	65%	268	64%
NO	59	39%	93	35%	152	36%



Reasons for no internet access at home



Digital Transformatio Centres





Indicator HH7: Proportion of individuals using the Internet



Digital Transformation Centres

- ☐ This is the proportion of individuals who used the Internet from any location in the last three months.
- ☐ Use can be via a number of devices, such as desktop or laptop computers, smartphones, tablet, game machine, digital TV etc
- ☐ Access can be via a fixed or mobile network
- ☐ 75% of respondents had used the internet during the reference period

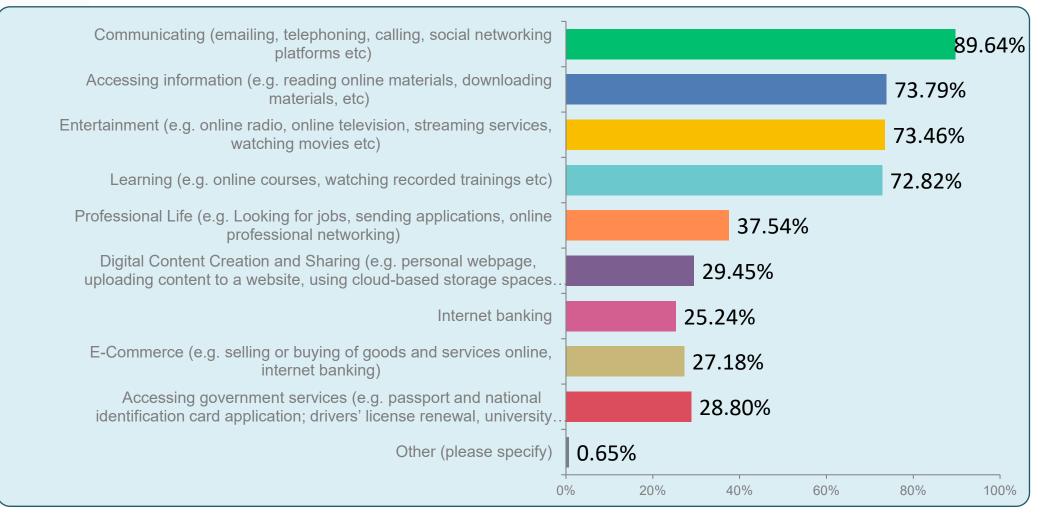
	Male		Fen	nale	Total Value	
Responses	Value	Male	Value	Female	Total	Overall
YES	132	87%	180	68%	312	75%
NO	19	13%	86	32%	105	25%



Indicator HH9: Proportion of individuals using the Internet, by type of activity



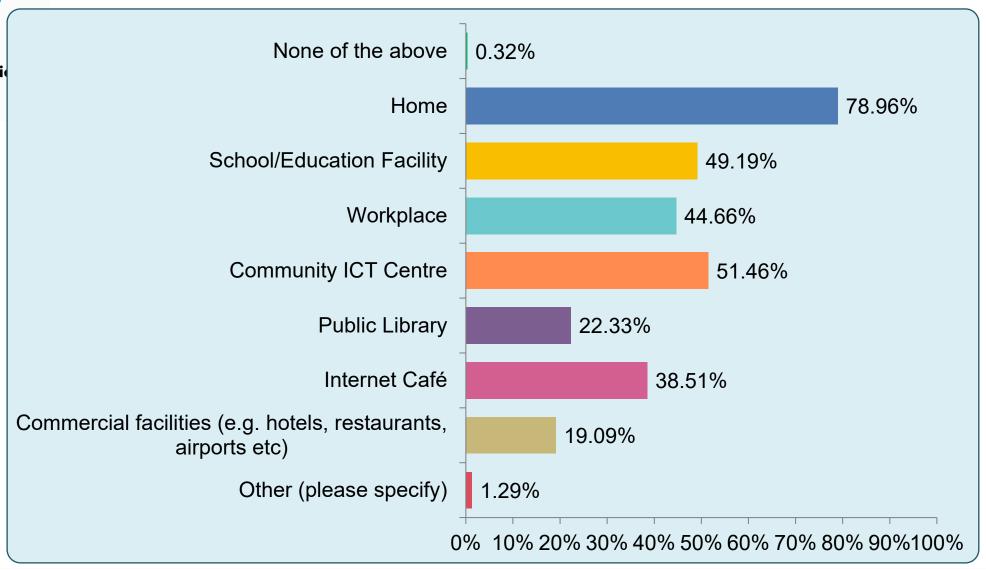
Di Transfo Ce



HH8: Proportion of individuals using the Internet, by location



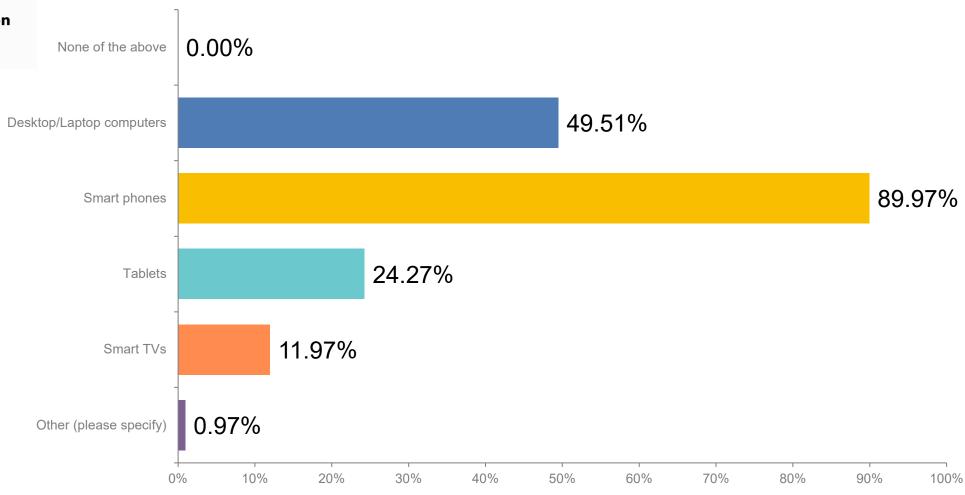
Digital Transformation Centres





What devices do you use to access the internet?









Employment Status



☐ 62% of respondents of the working age group who were open and available for work were employed during the reference period

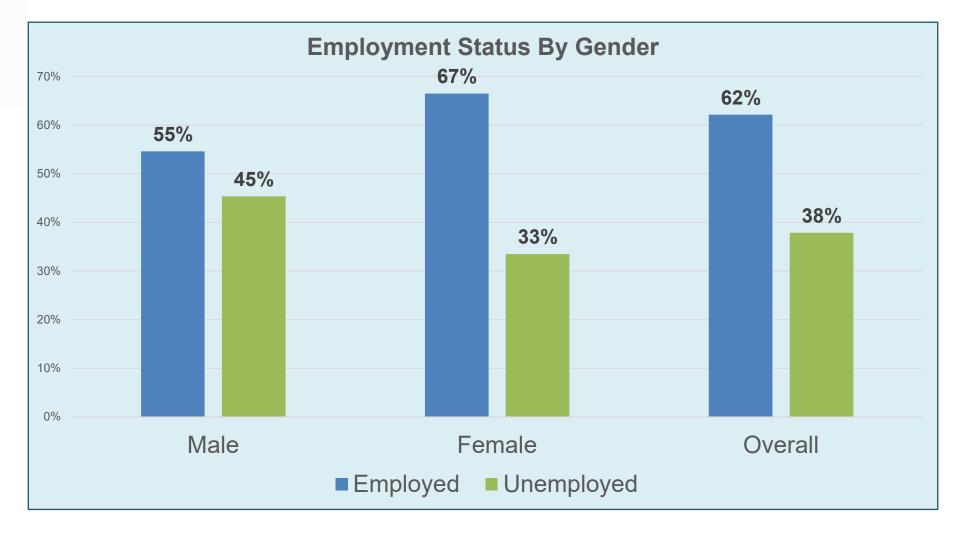
	Ma	Male Female Total V		Female		Value
Responses	Value	Male	Value	Female	Total	Overall
Employed	65	55%	137	67%	202	62%
Unemployed	54	45%	69	33%	123	38%
Not available for employment	31	-	56	-	87	-



Digital Transformation Centres

Employment Status By Gender



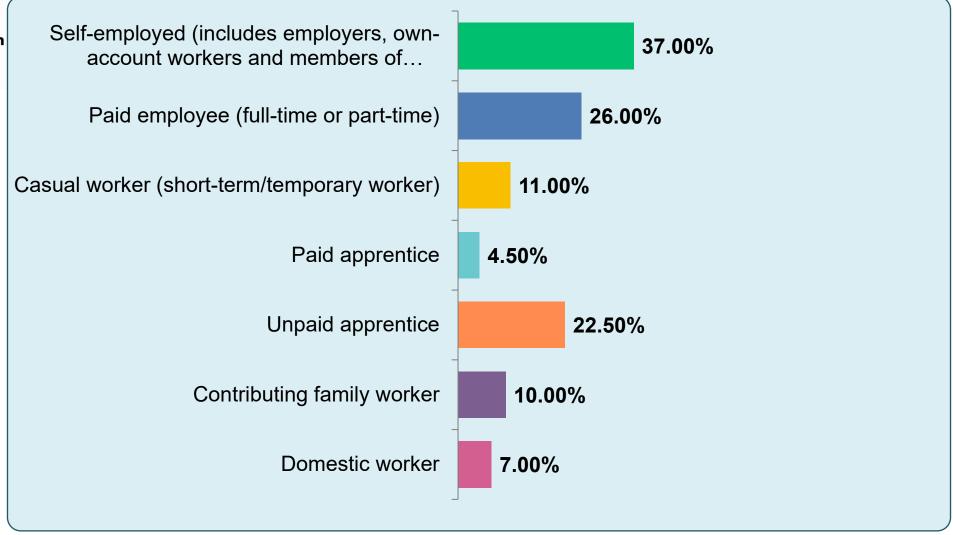




Type of Employment



Digital Transformation Centres



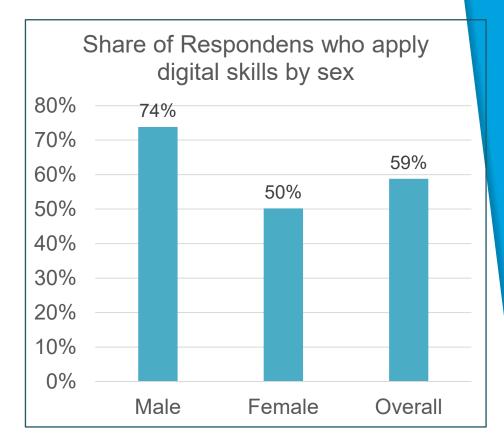


Transformation Centres

Do you use digital skills in anyway in your current job(s), schooling or your daily living?



	Male		Female		Total	Value
Responses	Value	Male	Value Female		Total	Overall
YES	110	74%	131	50%	241	59%
NO	39	26%	130	50%	169	41%





Digital Transformation Centres



THANK YOU!





For more information, please contact us:

DTC@itu.int