

Workshop on adoption of ICTs and digital skills development

1 June 2023, Geneva

Digital Transformation Centres

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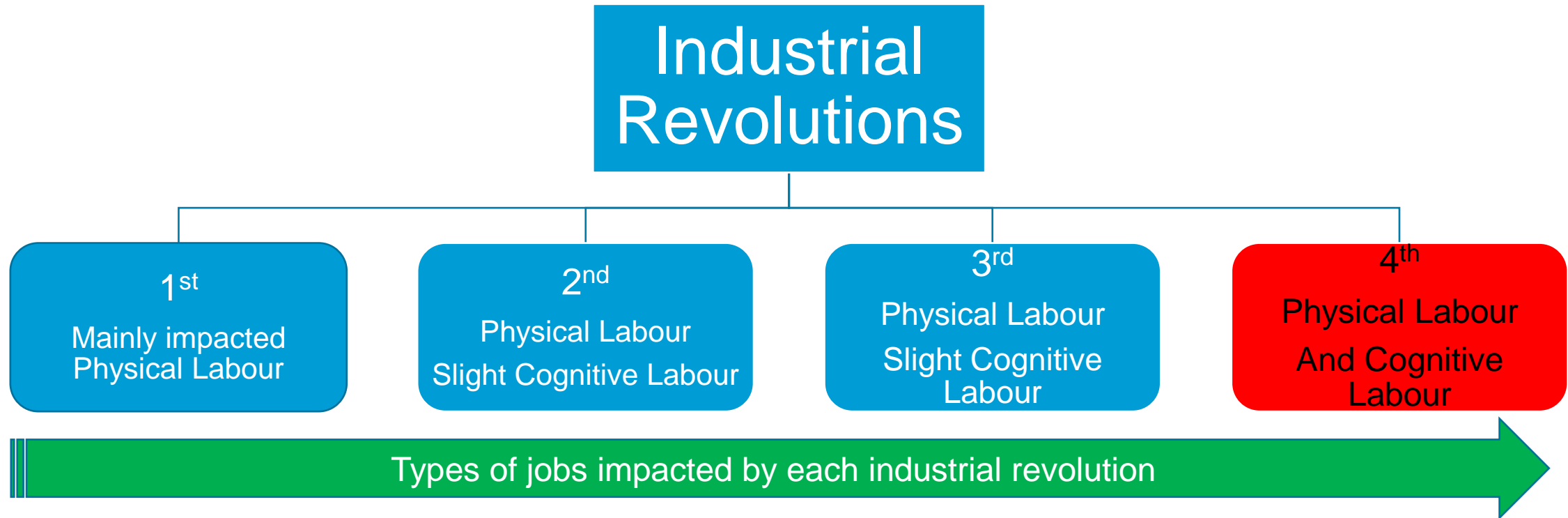
ITU-D Study Group 2 rapporteur group meetings (22 May - 2 June 2023)



4th Industrial Revolution

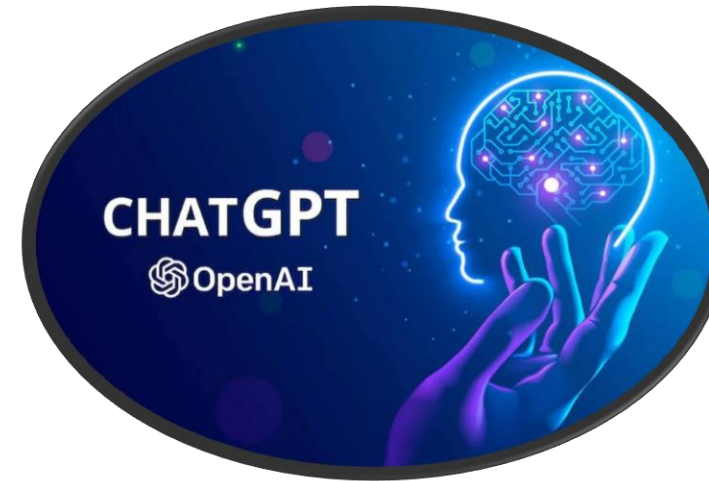
2018 Pre-COVID & 4th Industrial Revolution

The Impact on Jobs



Where are we Today?

OpenAI Research



- OpenAI looked at over 1,000 professions in the US
- Labelled each with various tasks needed to perform the jobs
- Used human annotators and a GPT-4 model to rate whether access to a ChatGPT-powered system would cut down the time required for a human to perform a specific task “by at least 50%.”

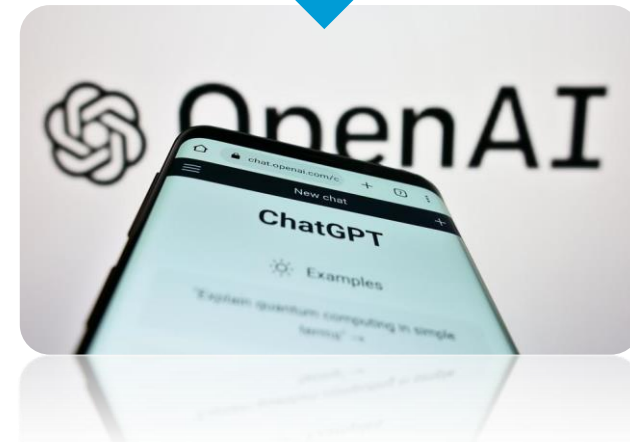
Model α	Mathematicians	100.0
	Correspondence Clerks	95.2
	Blockchain Engineers	94.1
	Court Reporters and Simultaneous Captioners	92.9
	Proofreaders and Copy Markers	90.9
Model β	Mathematicians	100.0
	Blockchain Engineers	97.1
	Court Reporters and Simultaneous Captioners	96.4
	Proofreaders and Copy Markers	95.5
	Correspondence Clerks	95.2
Model ζ	Accountants and Auditors	100.0
	News Analysts, Reporters, and Journalists	100.0
	Legal Secretaries and Administrative Assistants	100.0
	Clinical Data Managers	100.0
	Climate Change Policy Analysts	100.0
<i>The model labeled 86 occupations as "fully exposed."</i>		
Highest variance	Search Marketing Strategists	14.5
	Graphic Designers	13.4
	Investment Fund Managers	13.0
	Financial Managers	13.0
	Insurance Appraisers, Auto Damage	12.6

Group	Occupations with highest exposure	% Exposure
Human α	Interpreters and Translators	76.5
	Survey Researchers	75.0
	Poets, Lyricists and Creative Writers	68.8
	Animal Scientists	66.7
Human β	Public Relations Specialists	66.7
	Survey Researchers	84.4
	Writers and Authors	82.5
	Interpreters and Translators	82.4
Human ζ	Public Relations Specialists	80.6
	Animal Scientists	77.8
	Mathematicians	100.0
	Tax Preparers	100.0
Human ζ	Financial Quantitative Analysts	100.0
	Writers and Authors	100.0
	Web and Digital Interface Designers	100.0
<i>Humans labeled 15 occupations as "fully exposed."</i>		

Findings

Highest Exposed Jobs

- Interpreters and Translators
- Poets, Lyricists and Creative Writers
- Writers and Authors
- Journalists
- Public Relations Specialists
- Mathematicians
- Tax Preparers
- Blockchain Engineers
- Accountants and Auditors



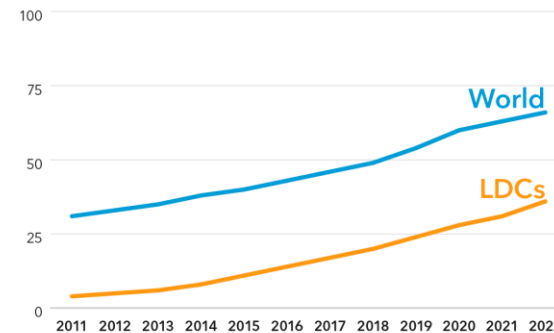
Leveling the playing fields?

Digital Equity is necessary for civic and cultural participation, employment, lifelong learning, and access to essential services.



Growth of Internet use in LDCs

Percentage of Individuals using the Internet from 2011 to 2022

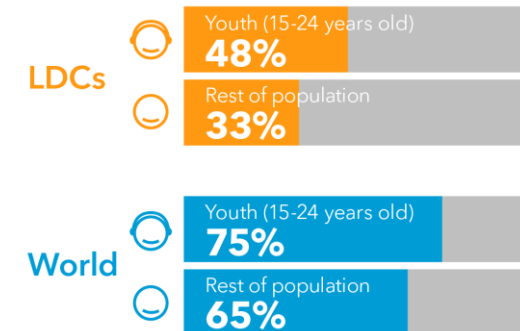


Source: ITU, *Facts and Figures: Focus on Least Developed Countries*



Digital generational gap in LDCs

Percentage of individuals using the Internet in 2022

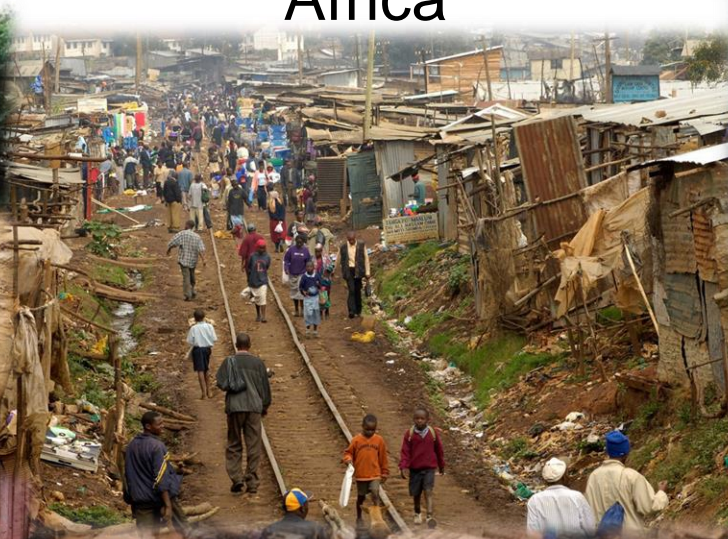


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Beneficiaries

Africa



Europe

Americas



Asia Pacific



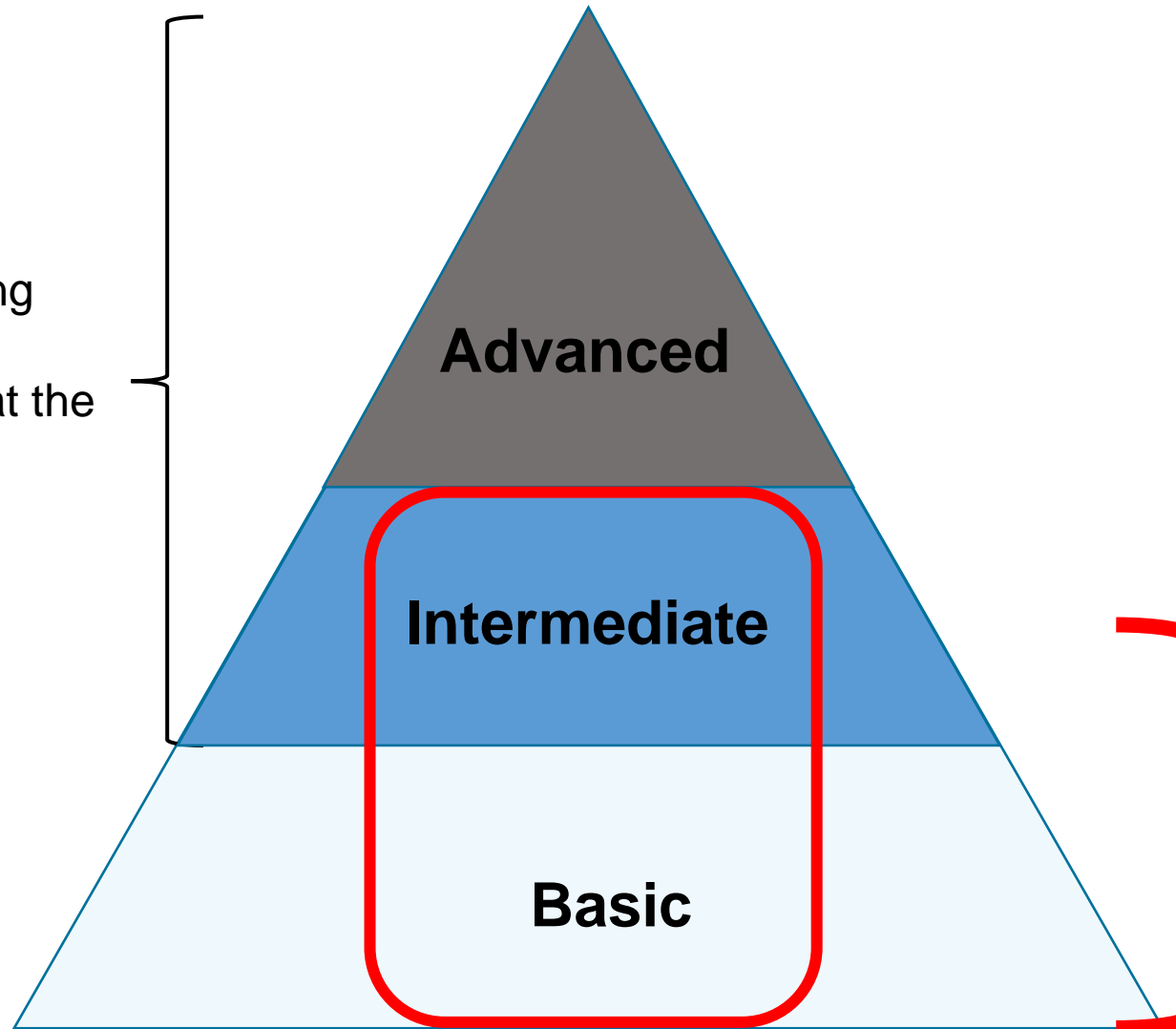
Beneficiaries

- Rural
- Underserved
- Underrepresented
- Gender equity
- Poor
- Disabled
- Elderly



Digital skills levels for Beneficiaries

- Improve workplace efficiency
- Enable startups using digital tools
- Use of digital tools at the community level.



- Target masses who need basic digital skills knowledge for digital inclusion

DTC Training Catalogue

Level	Topic	Face-2-Face or Self-paced	Provider	Provider's Course / Program Name
Basic	Basic hardware (e.g. input devices, ports)	Both	Cisco NetAcad	Get Connected
	Desktop computing (e.g. operating systems, folder management)	Both	Cisco NetAcad	Get Connected
	Essentials of Web navigation (e.g. browsing, search, email, web forms)	Both	Cisco NetAcad	Get Connected
	Basics of Cyber Security (e.g. network security, privacy, malware)	Both	Cisco NetAcad	Intro to Cybersecurity
	Basics of Social Media (e.g. Facebook, Instagram)	Both	Cisco NetAcad	Get Connected
	Basics of IoT (e.g. digital transformation, processing standard business processes)	Both	Cisco NetAcad	Intro to IoT
Intermediate	Fundamentals of Networks (e.g. basic networking concepts)	Face-2-Face	Cisco NetAcad	Networking Essentials
	Fundamentals of Cybersecurity (e.g. security controls)	Face-2-Face	Cisco NetAcad	Cybersecurity Essentials
	Fundamentals of programming (e.g. C, C++, Python, Linux)	Face-2-Face	Cisco NetAcad	C, C++, Python and Linux
	Computer hardware and software	Face-2-Face	Cisco NetAcad	IT Essentials
	Fundamentals of Entrepreneurship & Innovation (e.g. leadership, communication, teamwork)	Both	Cisco NetAcad	Entrepreneurship



Challenges

- Access: devices and connectivity
- Training Venues
- Trainers
- Local language



Solutions

- Local partners and sponsors
- Community centers
- Training of trainers & self-paced
- Local trainers



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Thank You