Data governance and							Digital cooperation &				Freedom of expression	Emerging trends and issues in	Data standardization,					
data utilisation (32)	Data security and protection (30)	Data privacy (23)	Data flow, transnational regimes & jurisdiction (19)		Data economy (10)	Access to data (9)	stakeholder responsibility (7)	Digital rights & freedoms (7)	Open data (6)	Data ownership (6)	and content moderation (6)	data governance and flow (5)	sustainability & capacity building (5)	Big data (4)	Children's data (4)	Ethics (4)	Health data (4)	Gender and youth implications (4)
	p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(12)	(1)	(-,	(,,	· · · · · · · · · · · · · · · · · · ·	(-)	(-)	(-)		g (-/		(,)		( )	( )
Governance (9)	Protection (21)	Data privacy (17)	cross border flow of data (4)	Data and Al (4)	Data driven societies and economies (4)	Data access (7)	Digital cooperation (3)	Human rights (3)	Open data (4)	Ownership (5)	Freedom of Information and expression (3)	Facial recognition technologies (2)	Standardisation	Big Data (3)	Children right (2)	Algorithmic ethic	Health data (3)	Youth empowerment (3)
						Free flow of non-personal												
				Algorithms/Al Decision		data and greater access to such data to industry			Social media for open		Digital illiteracy and adaptability of the	Safe use of	Data driven sustainability	Impacts of big	Collection and processing	Ethics and	Sharing and control	
Data validation (5)	Security (5)	Data encryption	Research and data management (3)				Accountability (2)	Digital rights (2)	data		technology	biometrics	and SDGs	data	of children's data	regulation	of medical data	Gender implication
				Al for data analysis and			Reduce amount of data					Emerging trends in	Capacity building in		Economic exploitation of	Internet ethics and		
Sovereign data (4)	Safe and Secure data (2)	Personal data portability	Jurisdictional Issues (3)	trend analysis (2)	Data Marketing (2)	Data access to SMEs	sent (Carbon pollution	ethics and integrity	Open data policies		Fake News	data	developing countries		children in the digital world	regulation		
													Data for climate change					
	Political micro-targeting of										Ethical oversight and		and environmental					
Data visualization (4)	ads	Data transparency	Data transfer (2)	Digital Identity	Banking of data silos		Data colonialism	Digital freedom			scrutiny	Data Identity	sustainability			Data ethics		
Disinformation and misinformation (3)	Protection of minors on Internet	User privacy	Build greener application and websites (2)	Machine learning	Internet Border versus Digital Economy								Job creation					
mumormator (b)	I I I I I I I I I I I I I I I I I I I	osci pinacy	WCDSICS (E)	macrinic rearring	Digital Economy								oo cicaioi					
Digital forensics (2)		Copyright	Data control and process	Deep learning and Al														
Data for disaster management		Privacy enabling technology	Quantum computing	Detox the Algorithm														
				Medical Resources via														
Data Mobility			Transactional data regimes	drone														
				Autonomous functioning														
Surveillance			Data Breaches	machines and robots													-	
1				Artificial Intelligence for													1	
Challenges in digitization of the world			Commodification of Data	Public Data and Policy formulation													1	
ure world			Commodification of Data	iormulation														
1																	1	
Data policies and clarity				Al and Human Rights													1	
				Al for E-Diplomacy														
				Policy as Code (use of RPA and Al for self-healing													1	
				policy)														

## **Data Policy Questions**

	The theme should address the minority, vulnerable or marginalised group.
	What is the impact of AI on data protection and privacy on context of refugees and most vulnerable groups?
	How can this vulnerable social group have a safe experience online through AI, and what challenges arise with regard to data protection?
Inclusion	How can we establish a sensible framework for data access and use by law enforcement agencies and judicial authorities?
	Does the future of the internet cater for the vision impaired people or people with disability?
	FinTech for the financial inclusion using internet/telecom infrastructure based in the Blockchain.
	How accessible and affordable can the internet to rural areas in the global South?
	How can we get the best value out of data for wellbeing, society, economy, climate and sustainable development?
	How can we balance data collection, data protection and privacy in a responsible way?
	Data to include climate change and environmental sustainability
	Reducing amount of data sent (Carbon pollution)
	Build greener websites and applications
Development & Sustainability	How is data quality playing a role in the conception of Internet Commons?
Development & Sustamability	Deliberate Regional and Governmental User Policies to Guarantee Sustainable use of the internet
	Tapping the green power of Al and loT for energy conservation
	Utilizing technologies to promote sustainable agriculture
	Understanding Energy use and promoting health practices in rural/peri-urban communities in Africa
	How to contribute to ensure the sustainable use of energy by servers?
	What should data reflect to represent the foundations fostered in IGF?
	Enabling the secondary use of data for societal good whilst preserving privacy. Is this a technological or regulatory problem?
	What 's the impact of the GDPR 2 years after?
	What's the awareness of data protection across users, companies and public authorities
	How effective is the data privacy strategy to ensure where who and where our data is accessed Can we trust online web apps and the internet in general with our data? How can we get
	compensations from big tech companies for using and selling our data without consent.
	What do individuals think about the data being gathered about their everyday activities? What role can IGF play in making sure that we achieve a level playing ground before some technologies
	are developed or used?
	What are the legal and regulatory gaps that prevent all under 18's from receiving specific recognition, rights and protection in the digital environment?
	Keeping the pace between data governance and proliferating privacy and security policies.
	How to help developing countries to build a strategy for Personal data protection?
Privacy & Safety	Promoting the sharing of data in a way that promotes innovation yet protects proprietary data
	The main issue on data governance is to ensure the development of human-centric data governance frameworks at national, regional and international levels. The balance among fundamental
	rights is modified with each ICT every day.
	What is predatory company behaviour? How can companies provide encryption and still ensure they meet public expectations to prevent and address criminal activity on their services?
	Misinformation and confusion on encryption: What can/cannot be achieved with encryption, does it offer a false sense of security?
	Child protection and open data tools kits programmes from big IT firms
	Safeguarding against the fragmentation of the Internet to ensure that it remains one interconnected, global Internet
	How can ethical, legal and regulatory frameworks ensure that the best interests of children are a primary consideration in the design of data driven technologies?
	What are the legal and ethical considerations related to the use of personal data and information?
	The Impact of changes in the job market and conditions of employment in the 'gig' economy
Economy	Market regulation and taxation.
	Responsibility and Data-driven Economy

	Highlights all kind of capacity building in poor countries thru intelligent networks.								
Capacity Development	Building Data capacity and Making global data governance work for developing countries.								
Capacity Development	How to find and train a more diverse pool of software engineers?								
	How can we develop and establish global norms for the added-value application of machine learning and artificial intelligence?								
	How can algorithms and Artificial Intelligence help implement children's rights in the digital environment?								
	How to ensure that the automation of welfare systems and systems that support asylum seekers and refugees increasingly used by public- private partnerships around the world do not violate								
	the fundamental rights and freedoms of the most vulnerable populations?								
	Al principles and regulation: How should we address the potential for data and Al technologies to wittingly or unwittingly be used in ways that adversely impact vulnerable populations or certain groups of society?								
	- Al principles and regulation: How can regulation be crafted to tackle undesirable behaviour without restricting beneficial uses of Al or undermining incentives for innovation?								
ΔΙ	- All ethics: How do we move from the articulation of ethical and human rights principles for All to the operationalization of ethics by those deploying All technologies?								
<b>~</b>	- Digital Sovereignty: How can governments enable the continued benefits of data flows (e.g. to support commerce or develop new AI applications) while respecting national interests and								
	values?								
	- Data sharing and open data initiatives: What frameworks can be put in place to enable sharing of public data by governments to provide smaller players with access to larger data sets, helping								
	to level the playing field in data-driven technologies?								
	- Data and e-evidence: What protections and conditions should be in place to govern transfer of personal data in response to requests from Law Enforcement Authorities?								
	- Data and policy-making / Sustainability: How could policy-making benefit from the analysis of big data to better understand impacts of policy decisions on sustainability?								
	- Data and Sustainability: What role can data and Al play in tackling sustainability issues such as climate change, biodiversity, conservation and water scarcity?								
	OECD's AI Principles as a framework for develop AI for economic growth and societal benefit								
	Design and implementation of data intelligence capabilities to improve the analysis processes and generate efficient regulatory policies.								
	Best practices and recommendations of the use and data exploitation, which establish the principles to be adhered for the proper use of the personal data by regulated, as well as establish								
	recommendations to public and private institutions in the matter.								
	Subjects in matter of transparency, information access, accessibility and personal data protection, as well as open government actions.								
	Global traffic exchange trends and policies, risks and opportunities								
	ata Statistics and how it is modelled through verified policies could help in promoting access to reliable information that could improve different sectors and also In particular the ICT								
	how to share data creating value for all the parties (data trust, data sharing agreement, data pilot di Decode, data dividend).								
-1 0	How to transfer the results of various Africa's research on Data from universities, colleges and research centers to African enterprises and users.								
Flow & Utilisation	What are requirements for international data flow and how should it be established?								
	How companies could increase the use of Data, and upgrade the appropriation of new digital assets, and all sectors alike.								
	How can we assess the impact of big data on existing communications, legal and regulatory systems? Who should own and control such data?								
	What are the consequences of increasing data concentration and technical development for individuals and our fundamental values? Does informational self-determination exist today or are								
	citizens increasingly losing control over their data? How could a truly self-determined data space look like?								
	How should data collected by companies be shared to achieve the best public outcomes? What is the impact on competition, how do we ensure quality and innovation?								
	How should policy makers weigh benefits against problematic effects?								
	Data Validation Approaches In Storage and Retrieval Systems								
	How to transfer the results of various Africa's research on data from universities, colleges and research centers to African enterprises and users?								