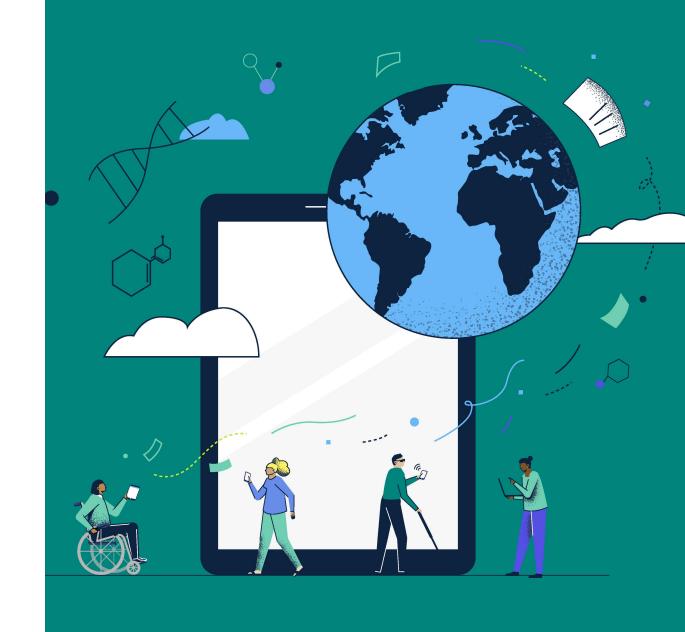


Digital Accessibility

In Global Pharma





Digital Accessibility in Global Pharma A11Y Content

WHAT

- Information
 Communication
 Technologies
- Digital Ecosystems
- User Centered Digital Products & Services
- Web Content Accessibility Guidelines
- Design Principles
- Shift Left | Design Systems

WHY

- Disability Inclusion
- Human Rights
- Diversity Equity & Inclusion
- Environment Social Governance
- Market
- Cybersecurity
- Artificial Intelligence

HOW

- Policy
- Governance
- Workstreams

Summary | Q&A





Digital Accessibility in Global Pharma A11Y Definition



Digital Accessibility

Digital Accessibility

The practice of designing and developing software user interface so that people with disabilities can effectively understand, interact, and respond meaningfully to the digital content – whether by their own means, or with the aid of assistive technologies.





Digital Accessibility in Global Pharma A11Y Numeronym



Accessibility is often abbreviated to A11Y. It is a numeronym (*number-based abbreviation*) used in place of the word "accessibility".

The number 11 refers to the number of letters omitted.

It can be pronounced "ay-eleven-why" or "ay-one-one-why" ... depending on the immediate circumstance.





Digital Accessibility in Global Pharma A11Y Co-Sponsorship



Diversity Equity Inclusion
Chief Diversity Office

Inspired



Information Technology
Chief Technology Office

Enabled



Business
Chief Strategy Office

Empowered



WHAT ?





Digital Accessibility & Vaccination Access Ally Co-Sponsorship



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Digital Accessibility in Global Pharma A11Y ICTS



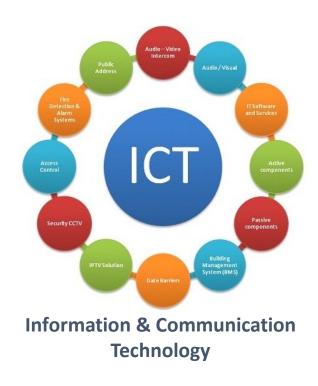
Information & Communication Technologies (ICTs)

- Websites
- Mobile Applications
- Multi-media
- Enduring internal or external web enabled products and services
- Electronic internet documents (e.g., PDFs)
- Proprietary and licensed software





Digital Accessibility in Global Pharma A11Y Digital Ecosystem















Digital Accessibility in Global Pharma A11Y Digital Ecosystem

















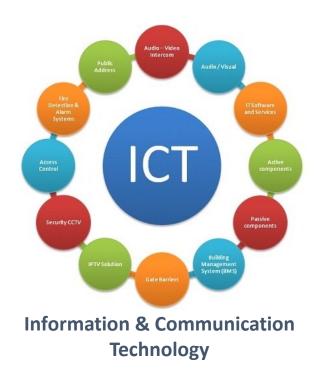








Digital Accessibility in Global Pharma A11Y Digital Ecosystem



















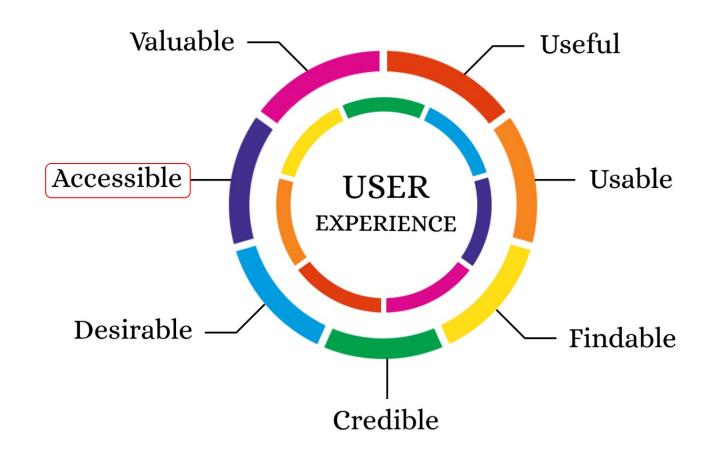






Digital Accessibility in Global Pharma A11Y User Experience

User Centered
Digital Products &
Services







Digital Accessibility in Global Pharma Ally Standards

Web Accessibility Initiative



World Wide Web
Consortium

Web Content Accessibility
Guidelines





Digital Accessibility in Global Pharma A11Y Standards

Principle	Guideline	Level A	Level AA	Level AAA
1. Perceivable	1.1 Text Alternatives	1.1.1		
	1.2 Time-Based Media	1.2.1 – 1.2.3	1.2.4	1.2.6 – 1.2.9
	1.3 Adaptable	1.3.1 – 1.3.3	1.3.4 – 1.3.5	1.3.6
	1.4 Distinguishable	1.4.1 – 1.4.2	1.4.3 – 1.4.5, 1.4.10 – 1.4.13	1.4.6 – 1.4.9
2. O erable	2.1 Keyboard Accessible	2.1.1 – 2.1.2, 2.1.4	_	2.1.3
	2.2 Enough Time	2.2 – 2.2.2		2 .3 – 2.2.6
	2 Seiz as	2.3		2 .2 – 2.3.3
	2 Navi able	2.4 -2 .4	2 5 - 4.7	2 .8 – 2.4.10
	2.5 Input Modalities	2.5.1 – 2.5.4		2.5.5 – 2.5.6
3. Understandable	3.1 Readable	3.1.1	3.1.2	3.1.3 – 3.1.6
	3.2 Predictable	3.2.1 – 3.2.2	3.2.3 – 3.2.4	3.2.5
	3.3 Input Assistance	3.3.1 – 3.3.2	3.3.3 – 3.3.4	3.3.5 – 3.3.6
4. Robust	4.1 Compatible	4.1.1 – 4.1.2	4.1.4 – 4.1.3	





Digital Accessibility in Global Pharma A11Y Design Principles



Digital Accessibility

- 1. Allow for user preference
- 2. Allow the user to stay in control
- 3. Communicate clearly
- 4. Do no harm
- 5. Optimize interactivity
- 6. Properly structure elements
- 7. Provide equivalent experiences
- 8. Support wayfinding and navigation





Digital Accessibility in Global Pharma A11Y Shift Left

Shift LEFT



The practice of moving testing, quality, and performance evaluation early in the development process, often before any code is written.



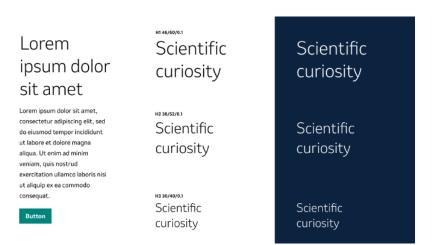


Digital Accessibility in Global Pharma A11Y Shift Left

Style Guides

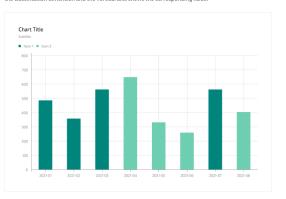
Master brands

Design Systems



Single Column Chart

A column chart uses series of columns to display the value of the dimension. The horizontal axis shows the classification dimension and the vertical axis shows the corresponding value.



Accent

Our accent palette is only used to complement our primary and secondary palette. It allows for rich and expressive combinations in infographics and illustrations.



Common Scales

Our company's projects cover a large number of products of different types and even different orders of magnitude. In order to help designers of various levels to have consistency and similar hythm in designing page alyout, to unify designing language and reduce the restoration losses, MDS is proposing the concept of UI common scales. There is a set of arrays that can be used as dimensions for UI layout decision. All the numbers are multiples of 8 and have a dynamic sense of rhythm. After verification, it can help us to achieve a faster and better design decision making of layout design.





WHY ?





Digital Accessibility in Global Pharma A11Y Co-Sponsorship



Diversity Equity Inclusion
Chief Diversity Office

Inspired



Information Technology
Chief Technology Office

Enabled



Business Chief Strategy Office

Empowered





Disability Inclusion in Vaccination Strategies

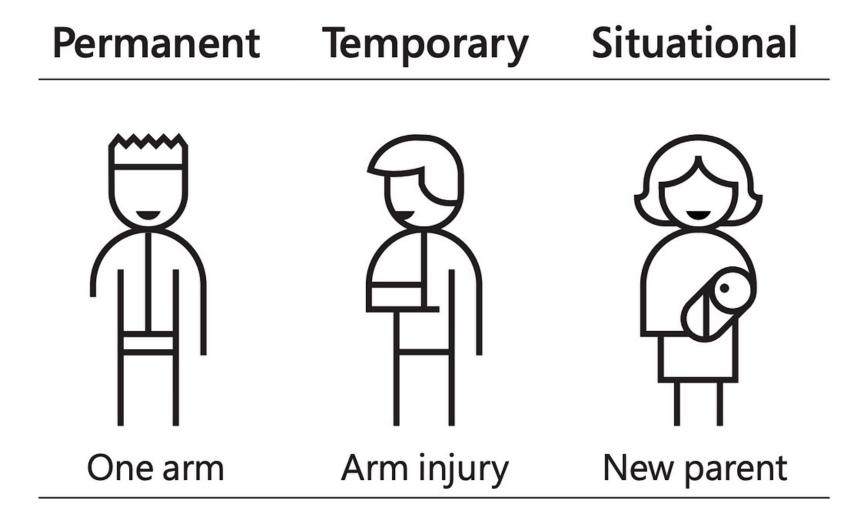


An essential part of making a accessibility strategy truly equitable, diverse, and inclusive.

- All races, genders, sexual orientation, nationalities, religions, incomes, and social classes.
- Physical, cognitive, mental health, learning, hearing, visual, and speech.



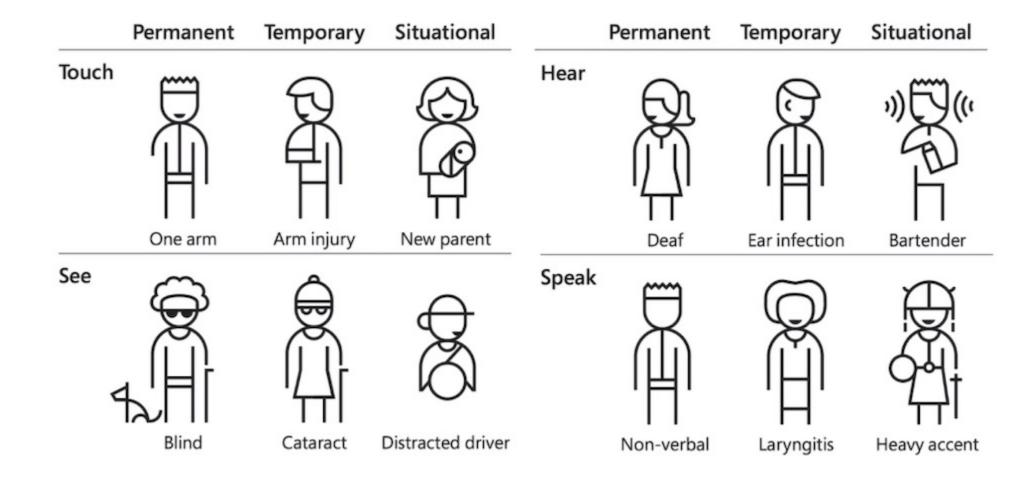




















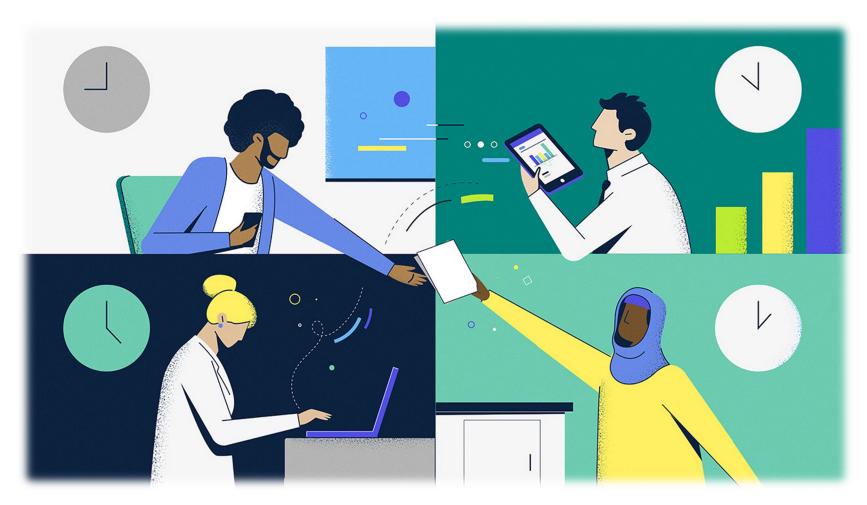






Digital Accessibility in Global Pharma A11Y Disability Inclusion

Disability representation can often be overlooked



The lack of disability representation can be attributed to several factors, including:

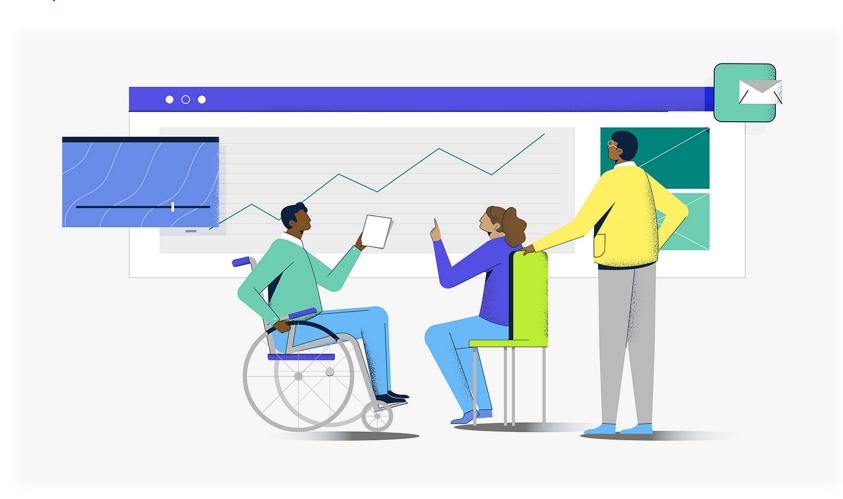
- Inaccessible workspaces & places
- Bias and discrimination
- Limited understanding of disabilities





Digital Accessibility in Global Pharma A11Y Disability Inclusion

People with disabilities offer so much more than their skill sets.



They often come from diverse walks of life that can be invaluable not only to their role within your organization, but to the overall company culture.

Benefits of disability inclusion in the workplace include:

- Innovation and creativity
- Increased engagement and retention
- Enhanced reputation





Digital Accessibility in Global Pharma A11Y Human Rights

United Nations

Convention on the Rights of Persons with Disabilities

Article 9 – Accessibility

- Live independently
- Participate fully in all aspects of life
 - Physical environment
 - Transportation
 - Information
 - Communications
 - Urban, rural

Promote the design, development, production and distribution of accessible information and communications technologies and systems at an early stage, so that these technologies and systems become accessible at minimum cost.



Digital Accessibility in Global Pharma A11Y Human Rights



American with Disabilities Act

Title III – Public Accommodations

- Provide full and equal enjoyment of goods and services
- Provide appropriate communication aids and services
 - Retail
 - Financial Services
 - Hospitality
 - Food & Beverage
 - Entertainment
 - Healthcare

A website with inaccessible features can limit the ability of people with disabilities to access a public accommodation's goods, services, and privileges available through that website.



Digital Accessibility in Global Pharma A11Y DEI



- Diversity & inclusion fuels our purpose
- Our workforce diversity represents the people we serve
- Inclusion and belonging are equally important



Digital Accessibility in Global Pharma A11Y ESG

Accessibility is key to Environmental Social Governance



Access to Health

In collaboration with key stakeholders, we work to ensure our science advances health care, and our products are accessible and affordable to those in need.



Employees

We recognize that our ability to excel depends on the integrity, knowledge, imagination, skill, diversity and wellbeing of our employees.



Environmental Sustainability

We consider the impacts of our operations and strive to operate our business sustainably to support the health of our planet and its people.



Ethics & Values

Through our unwavering commitment to transparency, we earn the trust and confidence of our stakeholders.











Digital Accessibility in Global Pharma A11Y Disability Market





1.85 billion Persons with Disabilities



3.3 billion Caregivers (Family & Friends)

\$13+ trillion in disposable income

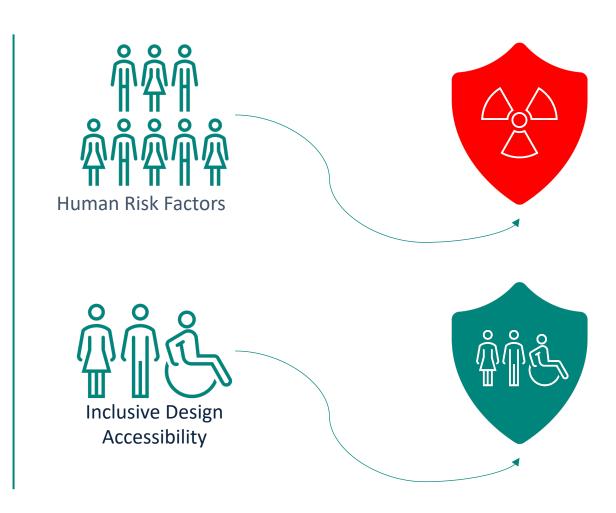
2020 Global Economics of Disability





Digital Accessibility in Global Pharma A11Y Cybersecurity





2021 Why Accessibility is Crucial to Successful Security Awareness Training 2019 Accessibility is Privacy & Security





Digital Accessibility in Global Pharma A11Y Artificial Intelligence

Artificial Intelligence, Augmented Reality, Virtual Reality, & Accessibility



A new way of interacting with one another

Efficiency

Data Sets



Accountability



HOW ?





Digital Accessibility in Global Pharma A11Y Co-Sponsorship



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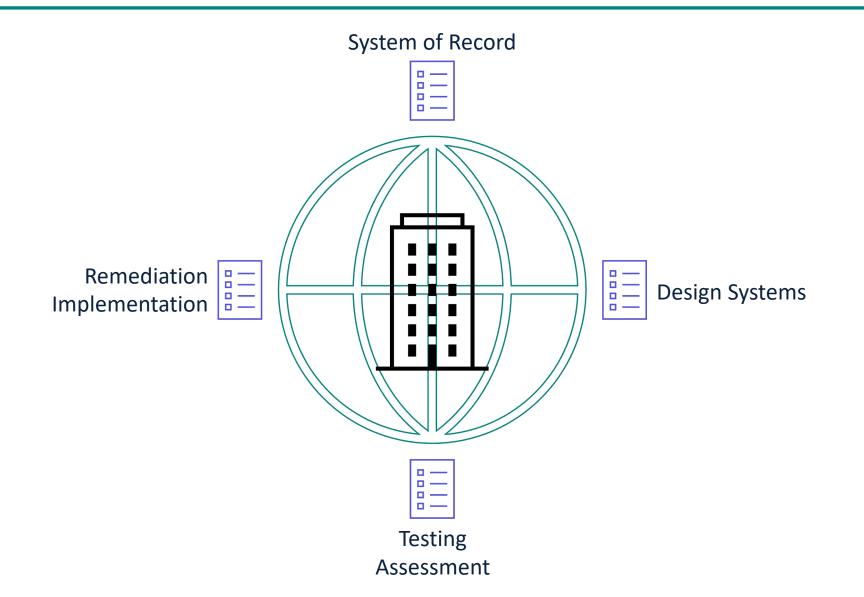
Digital Accessibility in Global Pharma A11Y Cross Organizational







Digital Accessibility in Global Pharma A11Y Policy Landscape







Digital Accessibility in Global Pharma A11Y Policy Governance









Steering Committee







Steering Committee



Leadership Forum











Leadership Forum



Champion Network





Corporate Accessibility A11Y Accessibility Steward Network



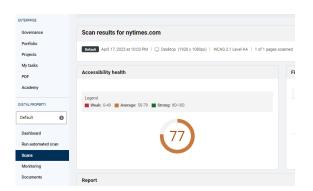








Steering Committee



System of Record



Leadership Forum



Champion Network







Steering Committee



System of Record



Leadership Forum



Supplier Management



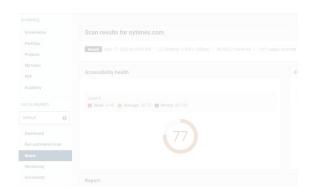
Champion Network







Steering Committee



System of Record



Leadership Forum



Supplier Management



Champion Network



Accountability







Steering Committee



System of Record



Leadership Forum



Supplier Management



Champion Network



Accountability







Communication







Communication



Training











Training



Change











Training



Change





Digital Accessibility in Global Pharma Ally Roadmap

	V4		V:2	V2	Voca A	V
	Year 1		Year 2	Year 3	Year 4	Year 5
xternal Websites & Mobile Apps						
	Change Management	Global Elements	Critical/High Issues	Mediui	m Low/Issues	Monitoring
nternal Websites & Mobile Apps						
ternal Websites & Mobile Apps			Change Managemer	t Critical/High Issues	Medium/Low Issues	Monitoring
arketing Communications						
mail, Banner Ads, SMS, Tencent, iPad, oMe, Product Labeling, etc.			Change Managemen	t Critical/High Issues	Medium/Low Issues	Monitoring
stems & Platforms						
		Change Management		Critical/High Issues		Monitoring
upplier Management						
	Change Management		Reviews & Revisions			Monitoring
ectronic Documents						
	Cha	nge Management	Records & Information Manage	ment Life Cycle		Monitoring
orkforce Tools						
	Change	Management	Critic	cal/High Impact	Medium/Low Impact	Monitoring MERC

Summary **E**







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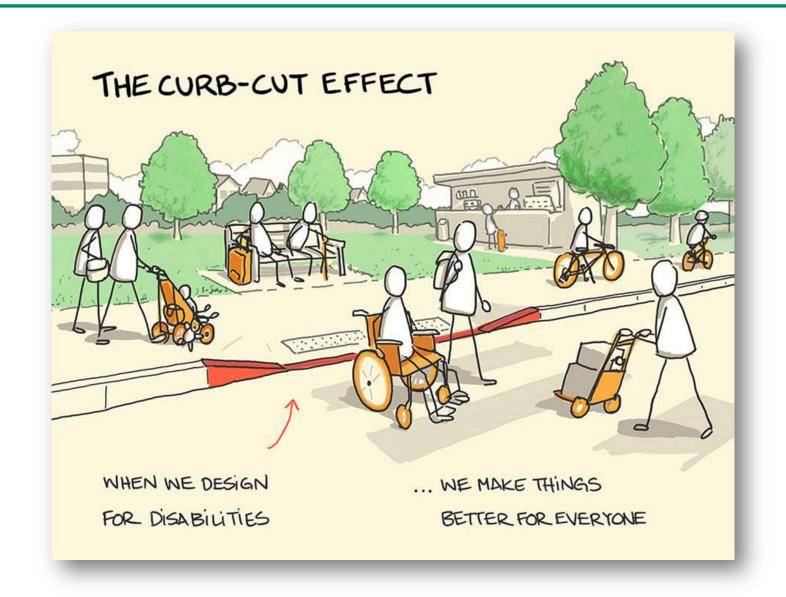
Business
Chief Strategy Office

Empowered





Digital Accessibility A11Y Essential for Some | Useful for All





Q&A ?



Thank You



Dr. Stephen Framil

Corporate Global Head of Accessibility Merck & Co., Inc.



