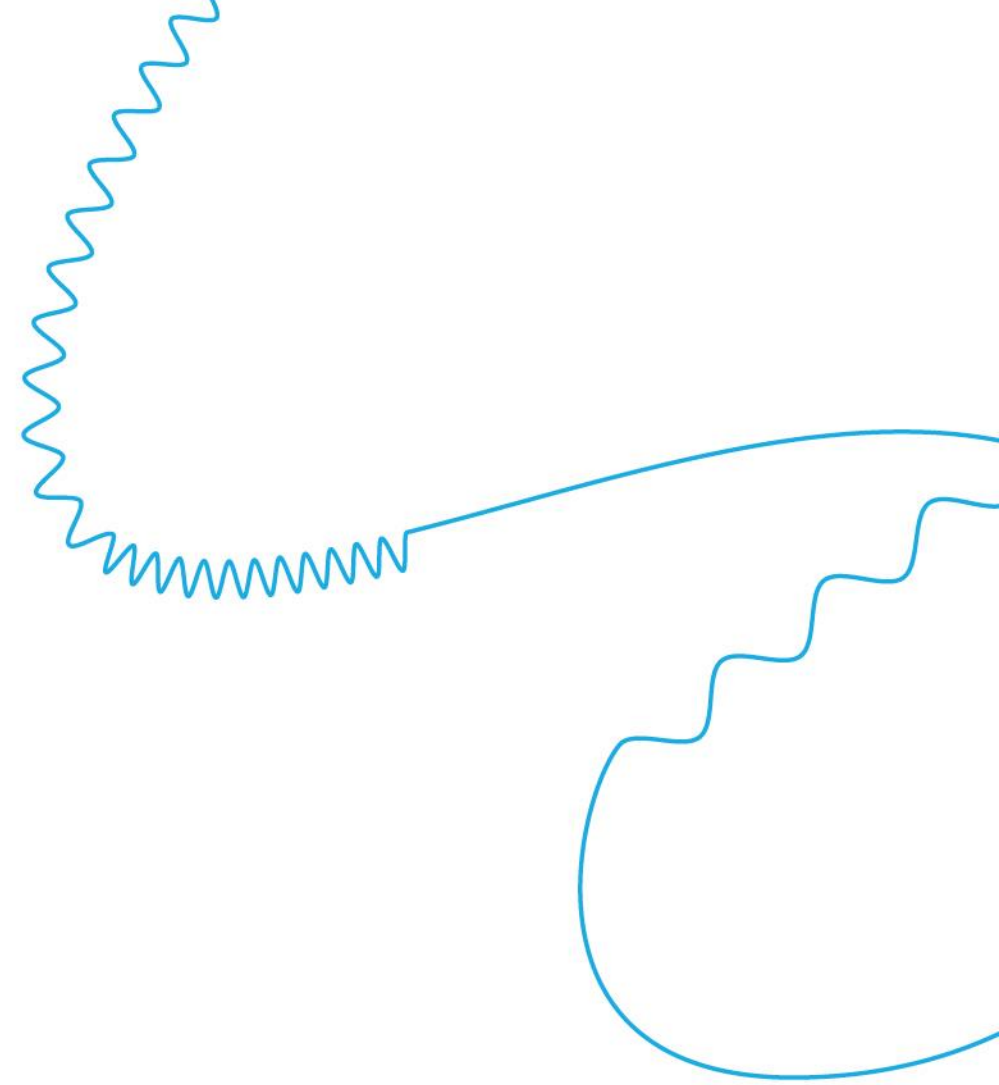




Moderna ESG Day

November 10th, 2022



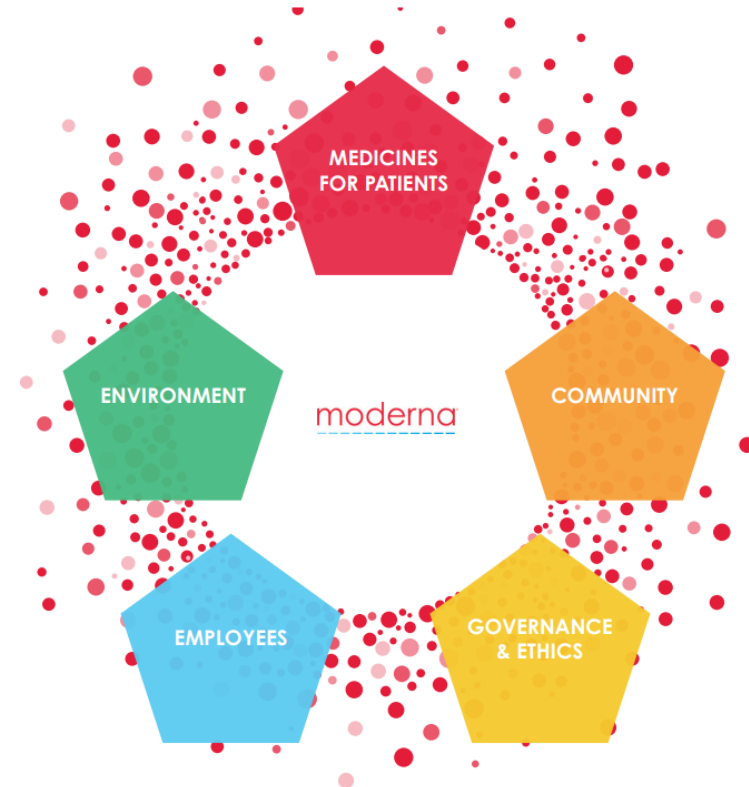
moderna®

I Forward-looking statements and disclaimer

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including statements regarding: the impact of a fall COVID-19 booster campaign on lives and dollars saved; the potential of Moderna's mRNA platform to address significant unmet medical needs; the potential for Moderna's late stage pipeline to have meaningful impact across several therapeutics areas; Moderna's global health strategy, including pandemic preparedness and Moderna's commitment to advance vaccines targeting at least 15 priority pathogens into clinical studies by 2025; Moderna's commitment to vaccines and therapeutics access; Moderna's environmental sustainability strategy, including its commitment to achieve net-zero carbon emissions in its global operations (Scopes 1 & 2) by 2030; Moderna's commitment regarding Scope 3 emissions; Moderna's intention to report to CDP and align with TCFD recommendations; diversity in Moderna's clinical trials and Moderna's ability to meet demographic objectives; the build out of Moderna's regional manufacturing capability, including building infrastructure in Africa; and the impact of the Moderna Charitable Foundation. In some cases, forward-looking statements can be identified by terminology such as "will," "may," "should," "could," "expects," "intends," "plans," "aims," "anticipates," "believes," "estimates," "predicts," "potential," "continue," or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. The forward-looking statements in this presentation are neither promises nor guarantees, and you should not place undue reliance on these forward-looking statements because they involve known and unknown risks, uncertainties, and other factors, many of which are beyond Moderna's control and which could cause actual results to differ materially from those expressed or implied by these forward-looking statements. These risks, uncertainties, and other factors include, among others, those risks and uncertainties described under the heading "Risk Factors" in Moderna's Annual Report on Form 10-K for the fiscal year ended December 31, 2021 and Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2022, each filed with the U.S. Securities and Exchange Commission (SEC), and in subsequent filings made by Moderna with the SEC, which are available on the SEC's website at www.sec.gov. Except as required by law, Moderna disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this presentation in the event of new information, future developments or otherwise. These forward-looking statements are based on Moderna's current expectations and speak only as of the date of this presentation.

Moderna's mission and five focus areas of our corporate responsibility framework

To deliver on the promise of mRNA science to create a new generation of transformative medicines for patients.



I Today is Moderna's first ESG Day

Launched **corporate social responsibility framework** in 2018

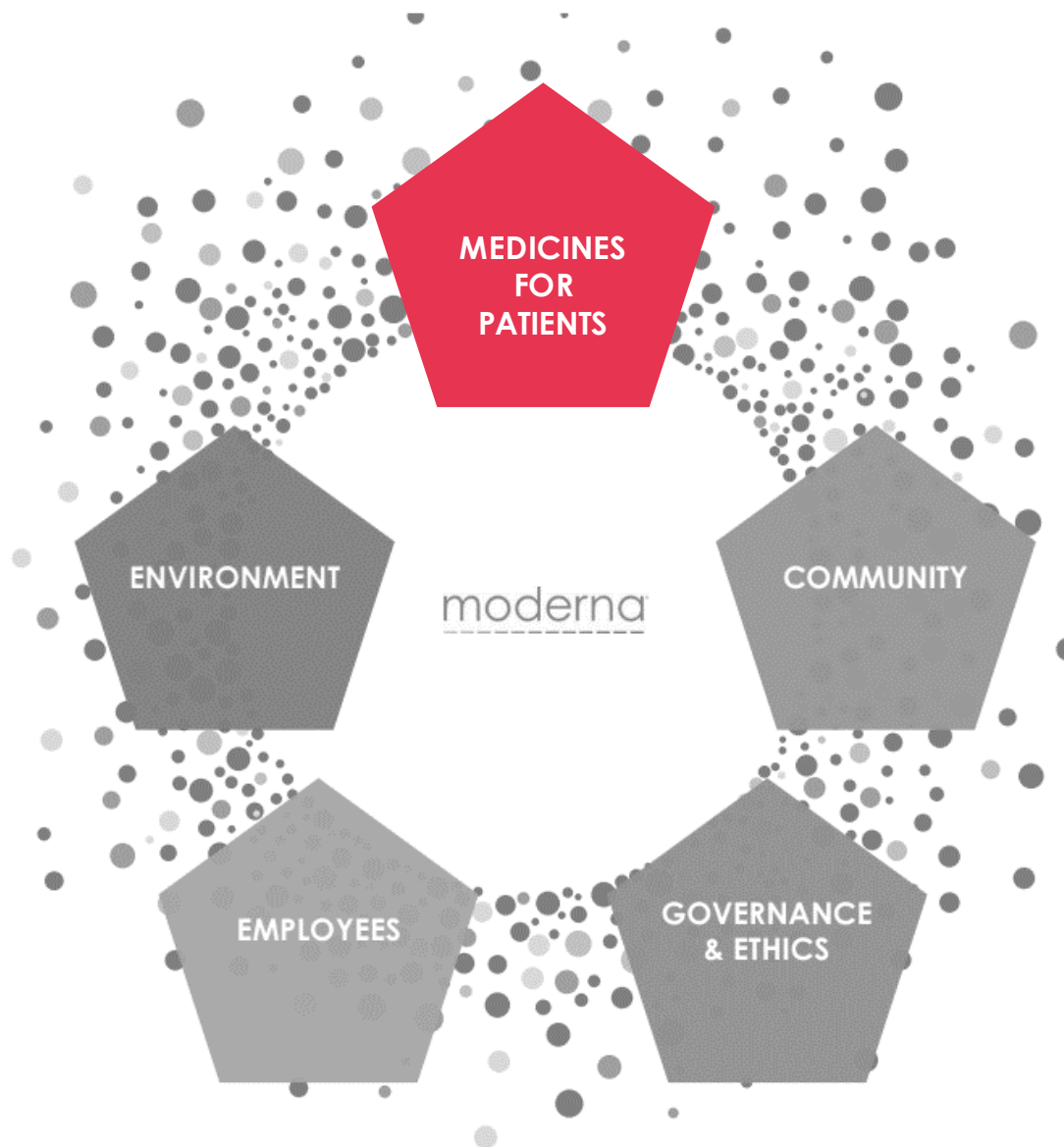
Released **first Environmental, Social and Governance (ESG) report** in June 2022

Today's goal is to **engage stakeholders, highlight progress and be transparent** on our ESG journey



https://assets.modernatx.com/m/ccaae809ca9152c/original/Moderna_ESG_2021.pdf

I Medicines for patients



Moderna has a diverse portfolio of vaccine and therapeutic programs in preclinical and clinical development

			Preclinical	Phase 1	Phase 2	Phase 3	Licensed
Respiratory Infectious Diseases	mRNA-1273	SARS-CoV-2					
	mRNA-1345	RSV (older adults)					
	mRNA-1010	Seasonal Flu (HA)					
	mRNA-1283	SARS-CoV-2					
	mRNA-1073	COVID + Flu					
	mRNA-1020/-1030	Seasonal Flu (HA+NA)					
	mRNA-1345	RSV (pediatrics)					
	mRNA-1653	hMPV + PIV3 (pediatrics)					
	mRNA-1011/-1012	Seasonal Flu (HA)					
	mRNA-1230	COVID + Flu + RSV					
	mRNA-1287	HCoV					
	mRNA-1365	RSV + hMPV (pediatrics)					
Latent and Global Health Infectious Diseases	mRNA-1647	CMV					
	mRNA-1893	Zika					
	mRNA-1189	EBV					
	mRNA-1574, 1644	HIV					
	mRNA-1215	Nipah					
	mRNA-1195	EBV Therapeutic					
	mRNA-1468	VZV					
	mRNA-1608	HSV					
Rare Diseases	mRNA-3927	PA					
	mRNA-3705	MMA					
	mRNA-3745	GSD1a					
	mRNA-3692	CFTR (Vertex)					
	mRNA-3351	CN1					
	mRNA-3602	PKU					
	mRNA-3139	OTC					
Oncology	mRNA-4157	PCV (Merck)					
	mRNA-5671	KRAS					
	mRNA-2905	IL-12					
	mRNA-2752	Triplet					
	mRNA-4359	Checkpoint Vaccine					
Autoimmune	mRNA-6981	PD-L1					
Cardiovascular	AZD8601	VEGF-A					
	mRNA-0184	Relaxin					

Moderna's mRNA technology has enabled the rapid development of our infectious disease vaccines portfolio

			Preclinical	Phase 1	Phase 2	Phase 3	Licensed
Respiratory Infectious Diseases	mRNA-1273	SARS-CoV-2					
	mRNA-1345	RSV (older adults)					
	mRNA-1010	Seasonal Flu (HA)					
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	mRNA-1073	COVID + Flu					
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	mRNA-4359	Checkpoint Vaccine					
Autoimmune	mRNA-6981	PD-L1					
Cardiovascular	AZD8601	VEGF-A					
	mRNA-0184	Relaxin					

The impact of safe and effective vaccines on global health, economies and social welfare is undeniable



We have had the privilege of protecting **hundreds of millions of people** in 2021 & 2022 with our COVID vaccines



Resulting in an estimated **1.7 million deaths averted** in 2021 because of Moderna's vaccine alone¹



A fall COVID-19 booster campaign **could save thousands of lives and billions of dollars**²

We hope to have a large impact on human health with many more of our vaccines

Moderna's mRNA platform enables us to rapidly develop many vaccines, potentially allowing us to address significant unmet medical needs

In our prophylactic vaccine modality, we have:

33 development programs

26 in the clinic

4 in Phase 3

3 approved products

Our mRNA vaccine technology advantages facilitates development of:

9 vaccines to address unmet needs
(no vaccines available)

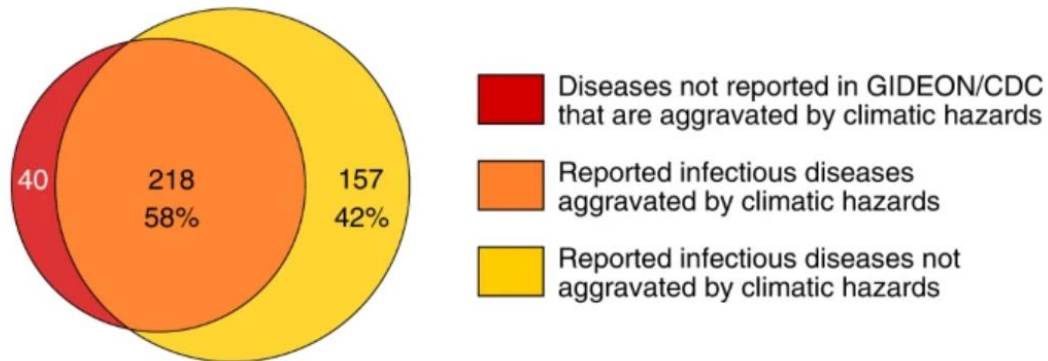
7 vaccines against latent viruses

6 combination vaccines

Climate change is aggravating human pathogenic diseases

A pathogen and a person coming into contact is the most important factor for the emergence of a human pathogenic disease

Subset of diseases aggravated by climatic hazards compared with all reported infectious diseases

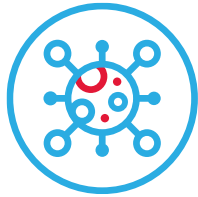


Climate change is leading to a **shift in the geographical range of species** (increasing range expansion of vectors with warmer weather, disrupting habitats)

Climatic hazards facilitated the contact between people and pathogens by **moving people closer to pathogens**

Climate change has also **enhanced specific aspects of pathogens**

Utilizing our mRNA vaccine technology to accelerate pandemic preparedness globally



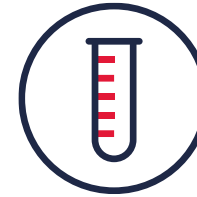
Priority Pathogens

Commitment to **advance vaccines targeting at least 15 priority pathogens into clinical studies by 2025**



mRNA Access™

New collaborative access enabling researchers around the world to utilize Moderna's mRNA technology platform to pursue research in their own labs on emerging and neglected infectious diseases



Regional Manufacturing

Operate mRNA manufacturing facilities around the world to be ready to respond to any regional outbreak

Our mRNA therapeutics pipeline addresses unmet medical needs and has the potential to transform the lives of many patients

			Preclinical	Phase 1	Phase 2	Phase 3	Licensed
Respiratory Infectious Diseases	mRNA-1273	SARS-CoV-2					
	mRNA-1345	RSV (older adults)					
	mRNA-1010	Seasonal Flu (HA)					
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Autoimmune	mRNA-6981	PD-L1					
Cardiovascular	AZD8601	VEGF-A					
	mRNA-0184	Relaxin					

Moderna-Institute For Life Changing Medicines (ILCM) collaboration

- **Crigler-Najjar syndrome is a severe condition that can lead to jaundice and damage to the brain, muscles and nerves.**
The symptoms become apparent shortly after birth and can be life-threatening
 - It is estimated that there **are only approximately 70-100 known cases of CN-1 in the world**
- The goal of the collaboration is to make an mRNA therapy for the **treatment of CN-1 available at no cost to patients**
- Under the terms of the agreement, **Moderna will license mRNA-3351 to ILCM with no upfront fees, and without any downstream payments**
- **ILCM will be responsible for the clinical development of mRNA-3351**



THE INSTITUTE FOR
Life Changing Medicines

<https://www.lifechangingmedicines.org/>

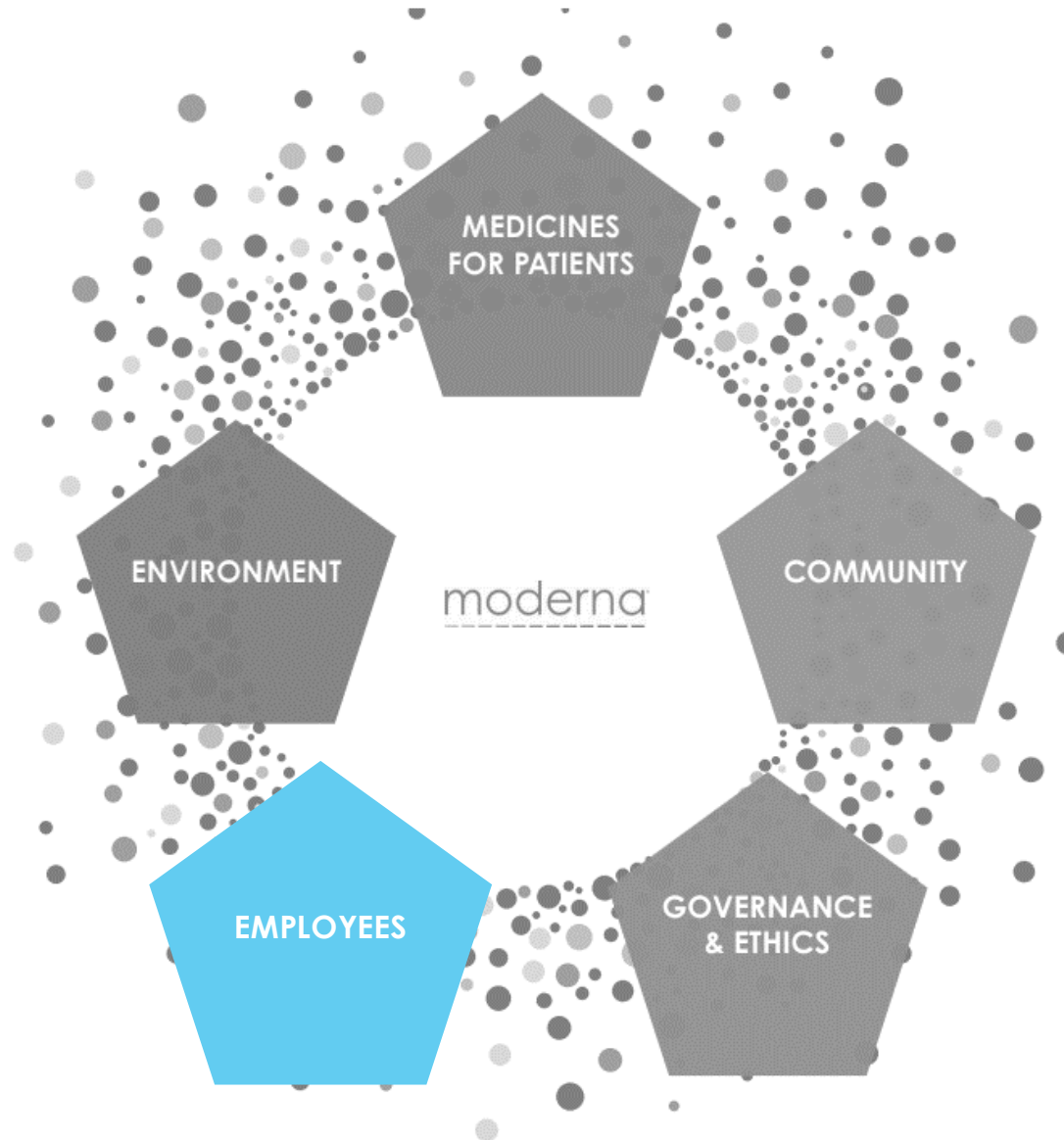
I We are committed to reach as many people as possible

Moderna's Commitment to Vaccines and Therapeutics Access

December 23, 2020

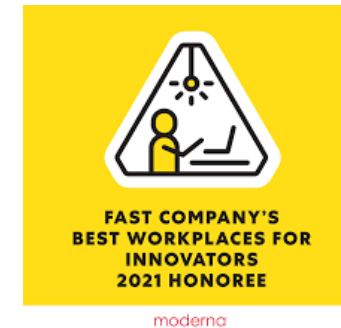
- 1 Moderna is committed to developing a broad portfolio of vaccines and therapeutic solutions to address epidemiological challenges worldwide
- 2 Moderna will invest in R&D in areas of unmet need
- 3 Moderna will work to include communities that have historically been under-represented in clinical research in our development programs, as well as those that are disproportionately impacted by the respective diseases
- 4 Moderna aims to provide effective and affordable vaccines and therapeutics to all populations
- 5 Moderna will price its products through differential pricing frameworks
- 6 Moderna is committed to participating in key public-private partnerships such as Gavi, the Vaccine Alliance
- 7 Gavi-eligible countries will get Moderna's lowest prices, and Moderna commits to an annual independent third-party audit on this commitment

I Employees

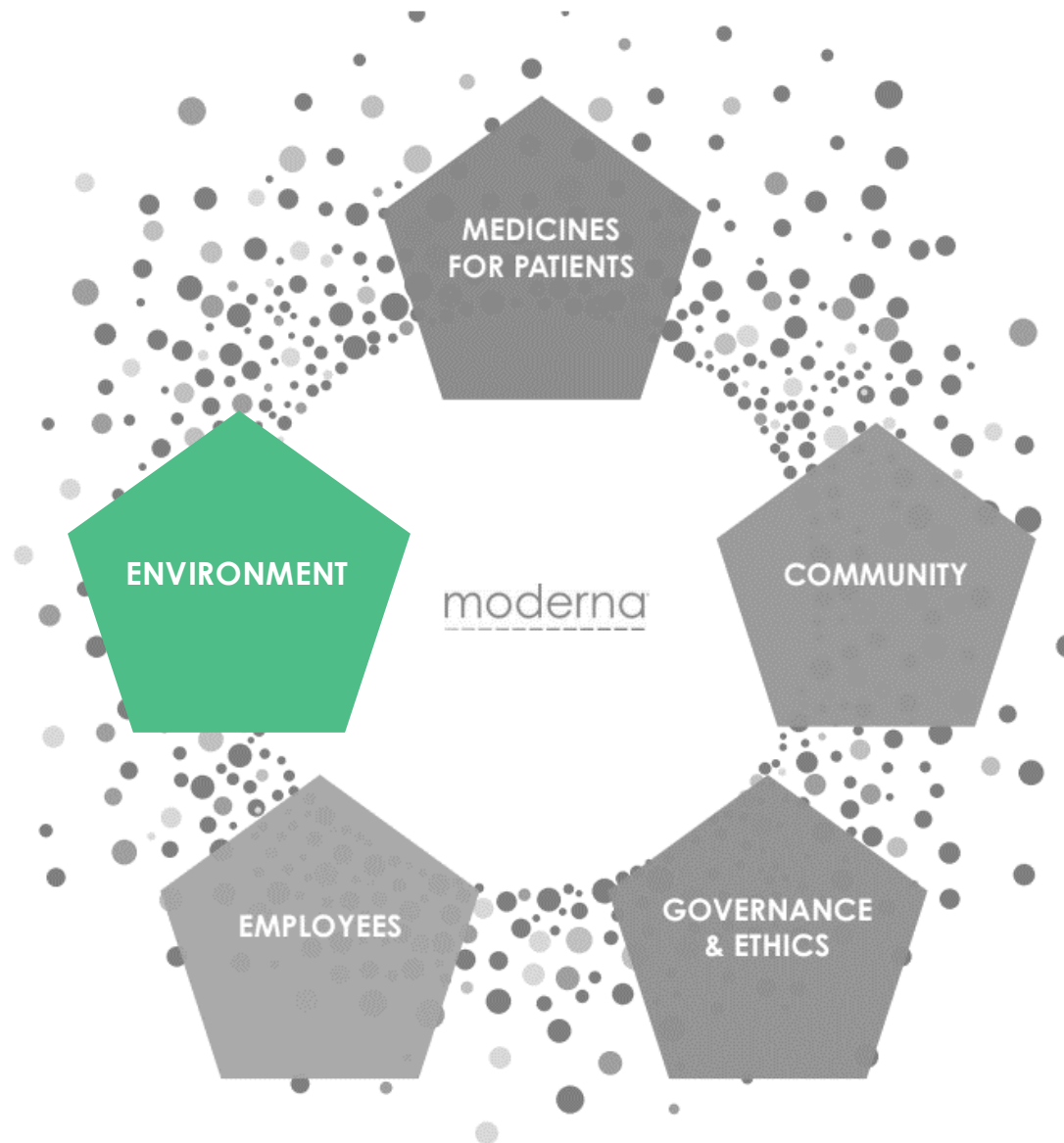


I Moderna seeks to attract and retain the best talent

- **Patients/people** and the impact first
- **Diversity & inclusion** efforts
- Employee resource **groups**
- Ensuring employees have **financial and mental well-being**



| Environment



Climate change is increasingly affecting the foundations of human health

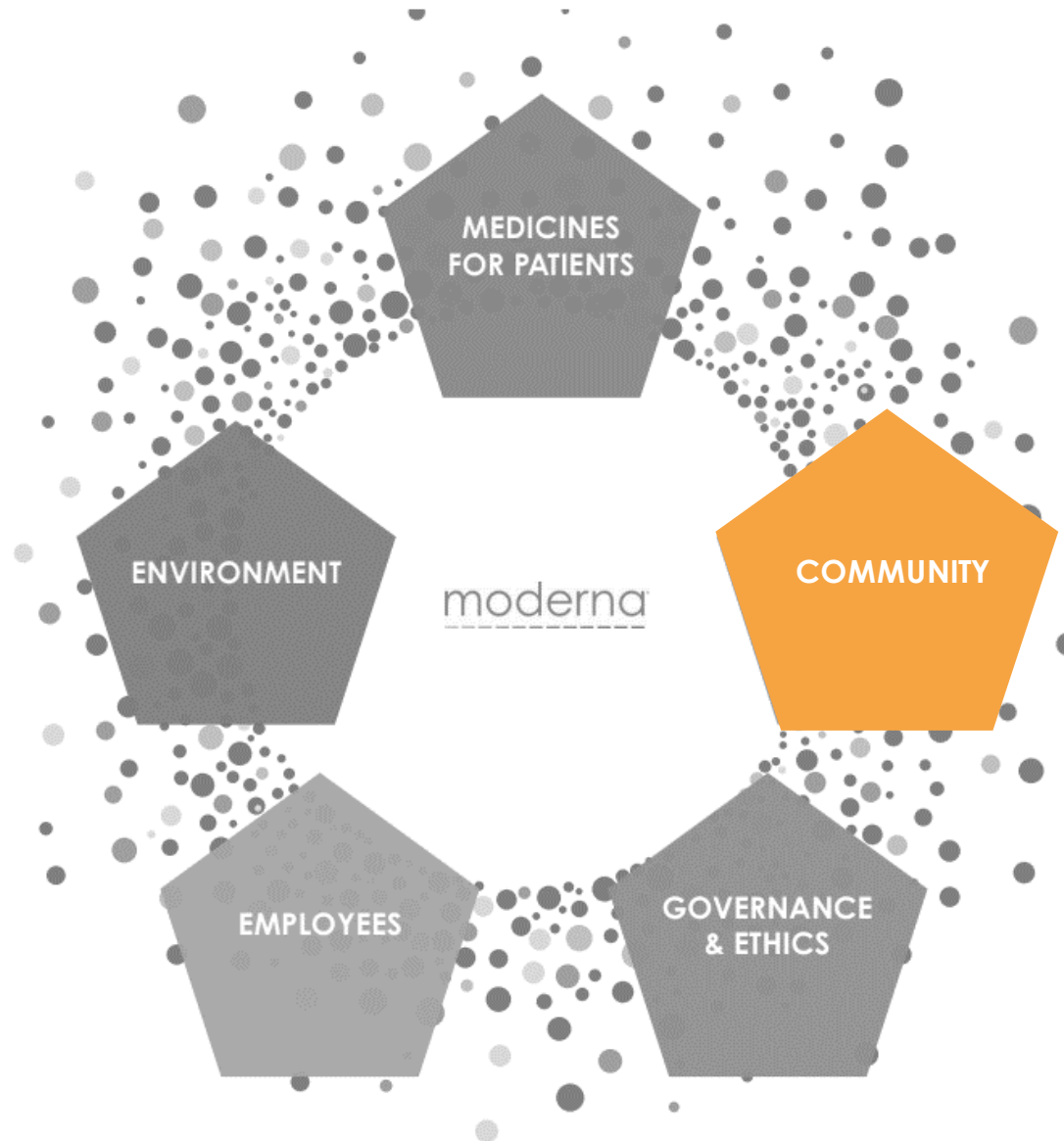


Moderna is committed to achieve **net-zero** carbon emissions in our global operations (Scopes 1 & 2) **by 2030**

For **Scope 3**, Moderna is committed to defining a near-term science-based target and evaluating a long-term target



Community



Committed to having a positive impact on communities around the world



**Corporate
Volunteering**



**Employee
Gift Matching**

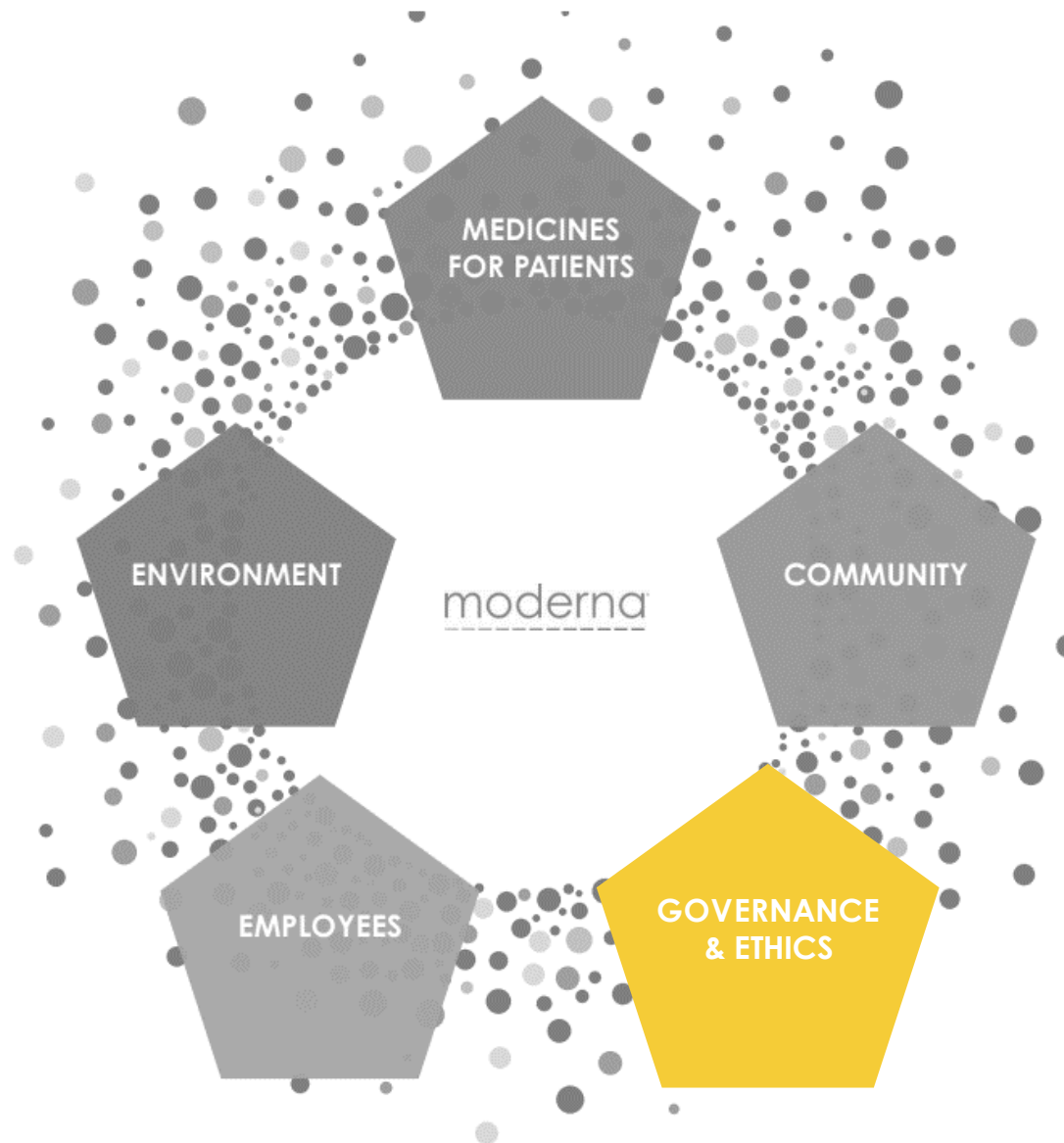


**Philanthropic
Giving**



**Humanitarian
Relief**

Governance & Ethics



I Building Moderna in the right way



ESG accountability at Board and Executive Committee level



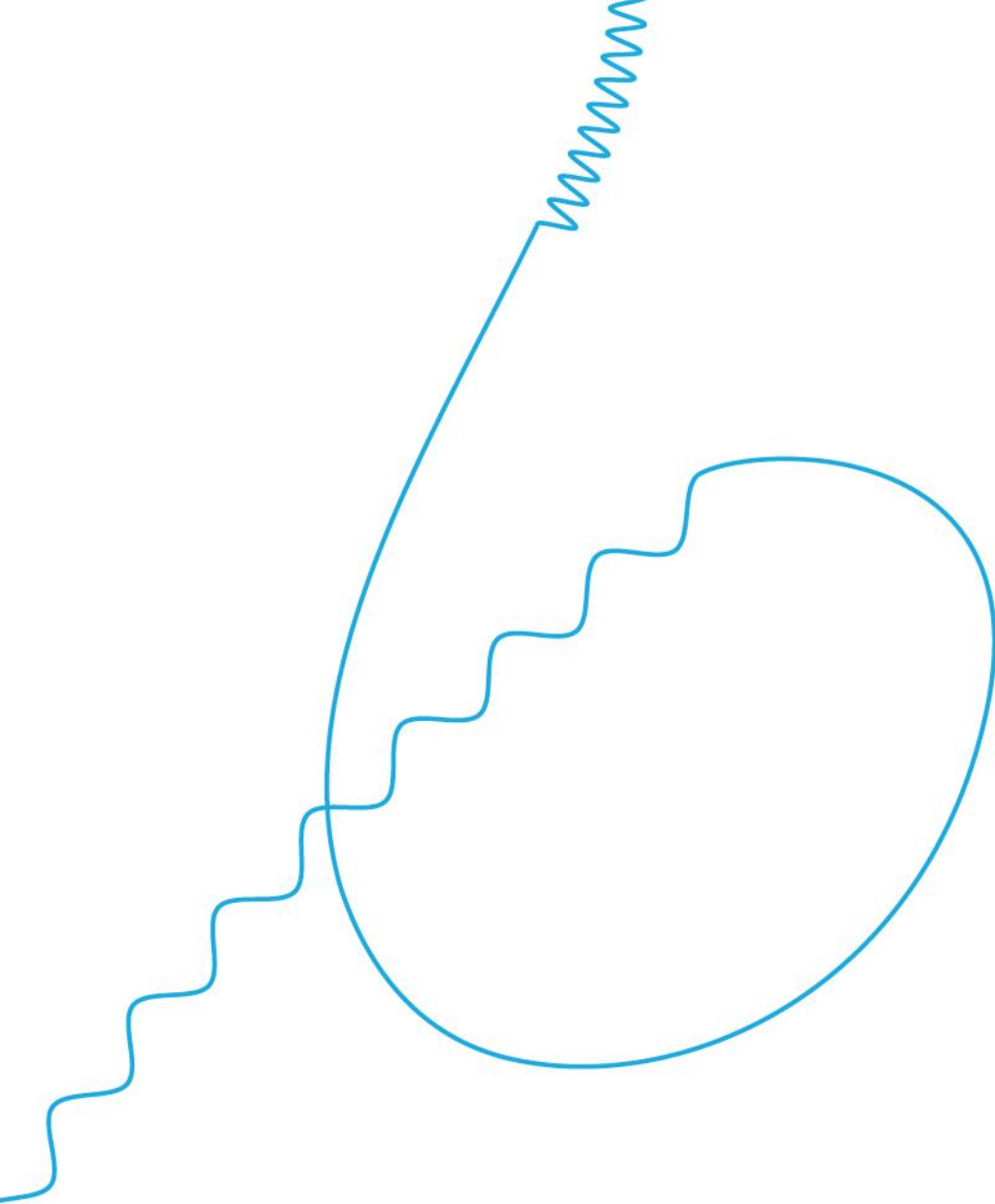
Starting our journey by increasing transparency across our supply chain



Increased disclosure of ESG data and our progress

| Today's agenda

Moderna's Mission and Culture to Drive Impact	<i>Stéphane Bancel, Chief Executive Officer</i>
Medicines for Patients	
<i>Overview of mRNA Vaccines and Therapeutics</i>	<i>Stephen Hoge, President</i>
<i>Inclusive Research at Moderna</i>	<i>Jameka Hill, Director, Patient Engagement and Trial Diversity</i>
<i>Global Health Strategy</i>	<i>Hamilton Bennett, Senior Director, Vaccine Access & Partnerships</i>
Culture & Employees	<i>Tracey Franklin, Chief Human Resources Officer</i>
Communities	<i>Katherine O'Malley, Executive Director, Internal Communications and Employee Engagement</i>
Coffee Break (5 minutes)	
Environment	<i>Deborah Donovan, Senior Vice President, Environmental, Health & Safety, Technical Development and Manufacturing</i>
Governance and Ethics	<i>Shannon Thyme Klinger, Chief Legal Officer, President Moderna Charitable Foundation</i>
Conclusion	<i>Stéphane Bancel, Chief Executive Officer</i>
Q&A	



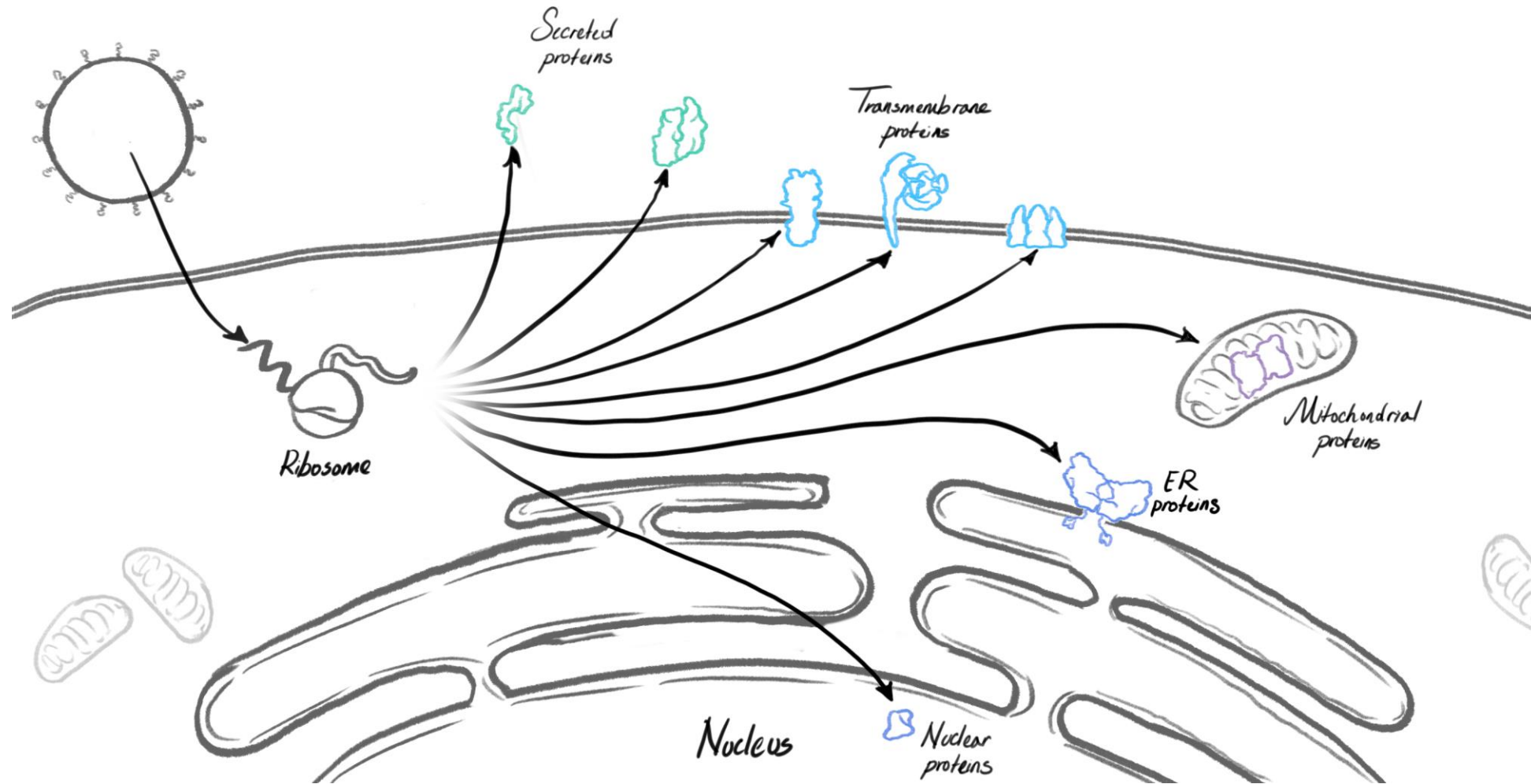
Overview of mRNA Vaccines and Therapeutics

Stephen Hoge, M.D.

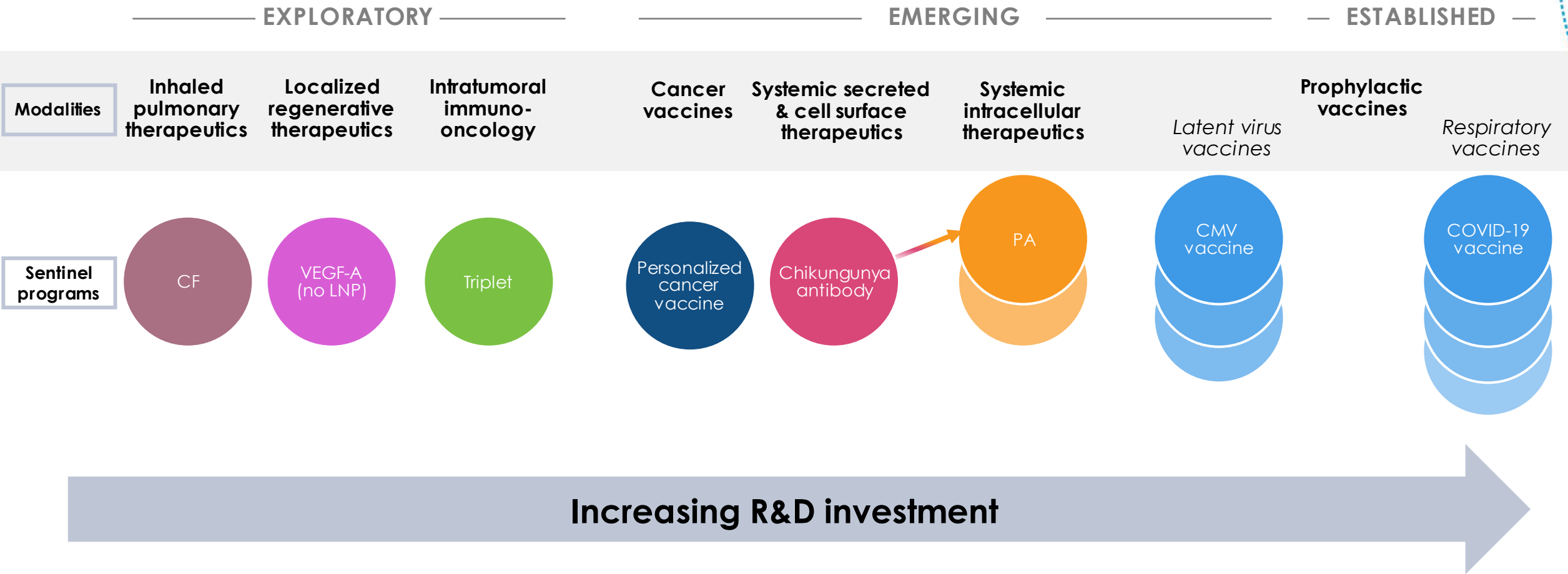
President

moderna®

mRNA is a new class of medicine



I How we accelerate our development pipeline

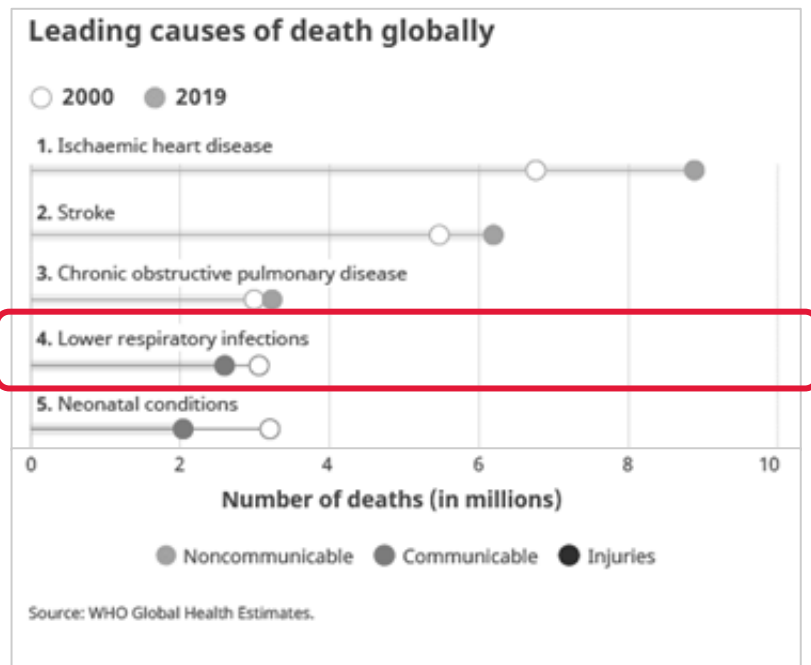


Moderna's late stage pipeline has the potential to have meaningful impact across several therapeutic areas

Respiratory infections are a **top cause of death** globally (3 million deaths)

Approximately **4% of the total world population** is affected by a rare disease at any given time

Cancer impacts large portions of the population



There are about 7,000 known rare diseases



<https://www.ajmc.com/view/not-so-rare-300-million-people-worldwide-affected-by-rare-diseases>

Leads to 10 million deaths annually across the world

<https://www.who.int/news-room/fact-sheets/detail/cancer>

Today you will hear about two key aspects of our R&D organization



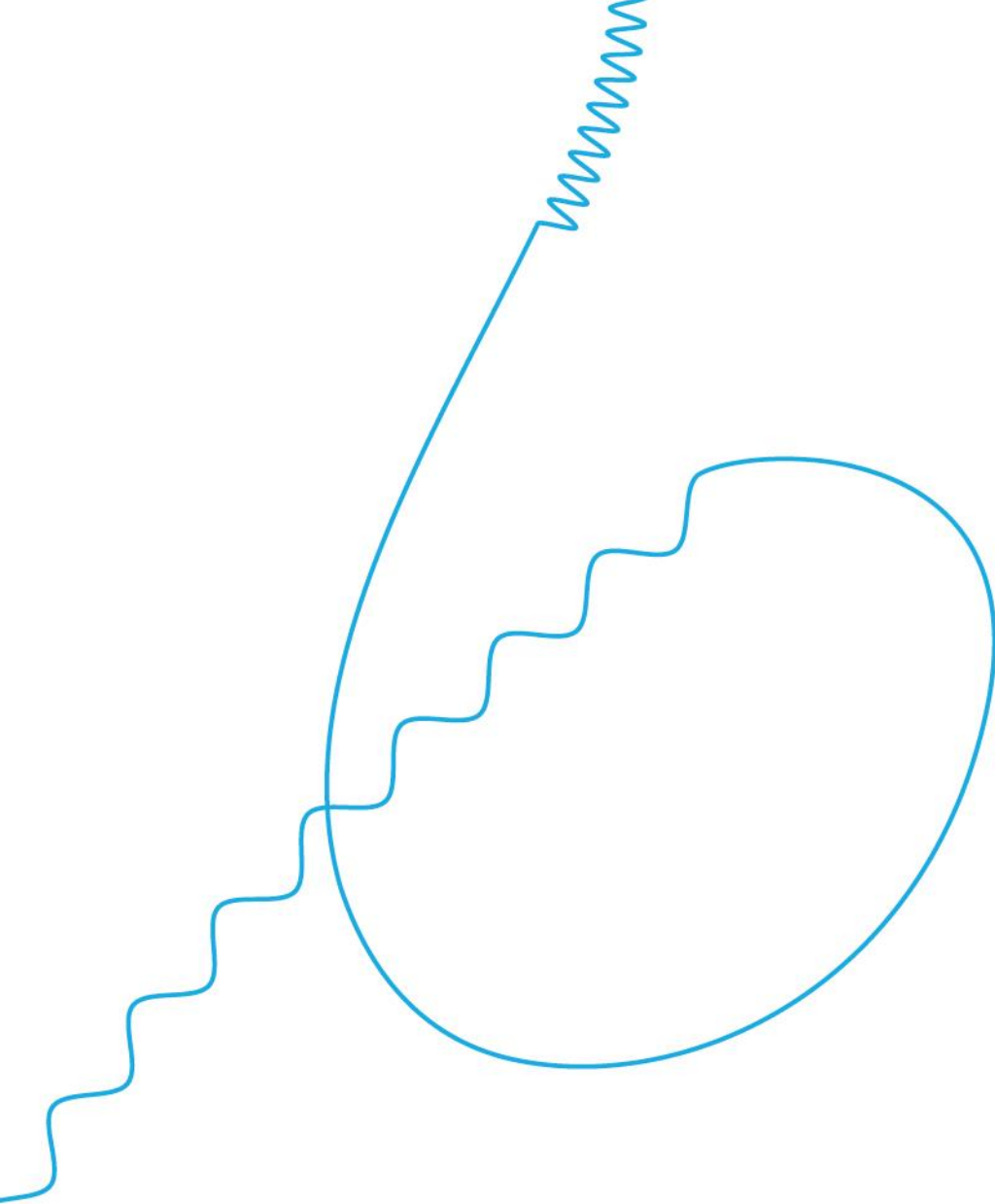
Diversity and inclusion in clinical trials

- Investing to be **the leader in diversity & inclusion in clinical trials**
- **Focus on all stages of clinical development** (Phase 1 to Phase 3), not just the large, pivotal trials



Global health strategy

- Aiming to **enhance capabilities and infrastructure to improve global health outcomes**, including pandemic preparedness
- Partnering with institutions across the world on **R&D for priority pathogens**



Inclusive Research at Moderna

Jameka Hill

*Director, Patient Engagement and Trial
Diversity*

Why is diversity in clinical trials so important?

Drugs and vaccines are safer and more effective for everyone when clinical trials include everyone

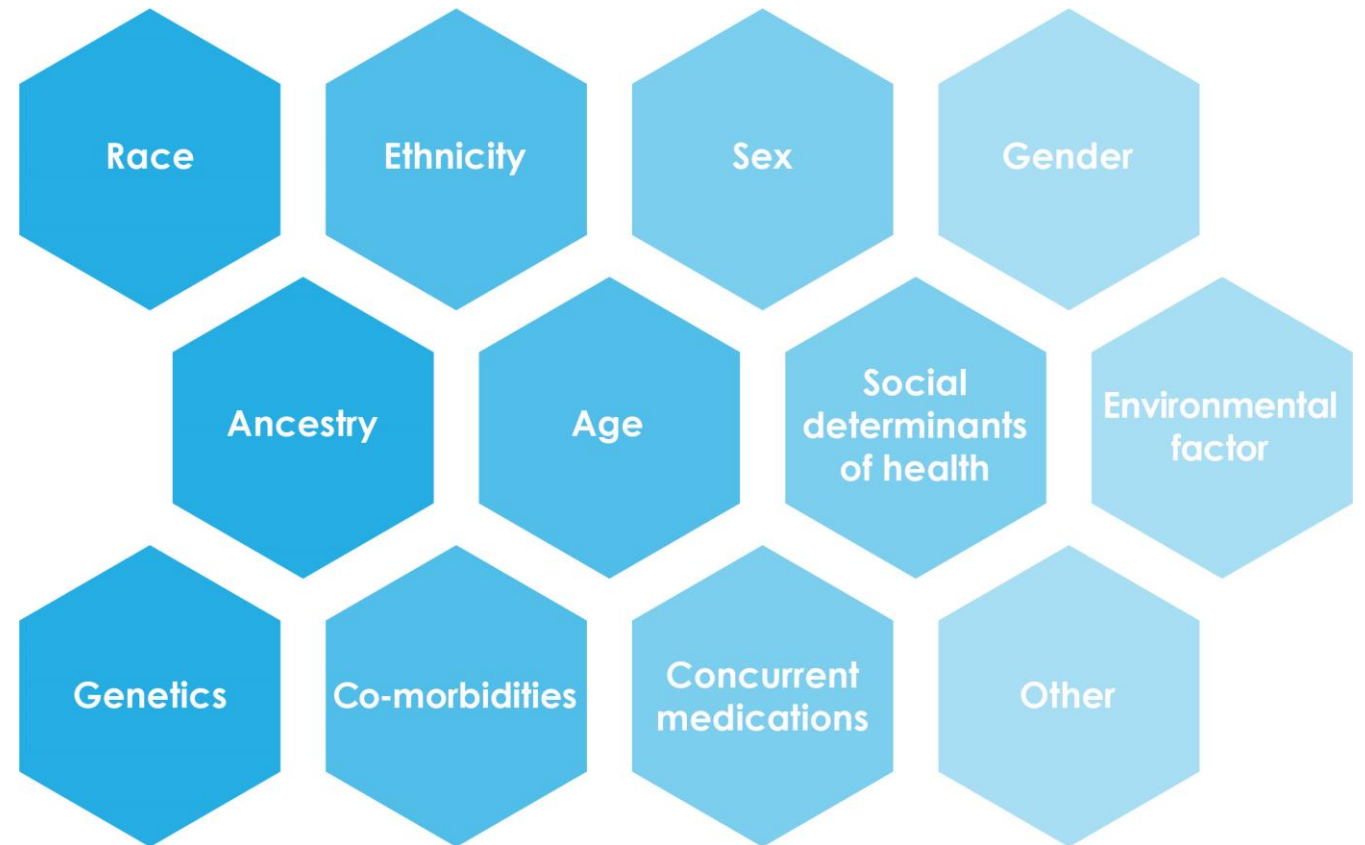
- People of different ages, sexes, races, and ethnicities may react differently to certain medicines and vaccines
- When a clinical trial population is homogenous, research results may be skewed – resulting in data that would not be generalizable to a wider patient population
- Clinical trials historically have been underrepresented in sex/age/race/ethnicity in the U.S.



But racial and ethnic minorities have historically been severely underrepresented in clinical trials

How does Moderna define diversity in clinical research?

- Diversity exists across many dimensions
- Diversity is context-specific
- The importance of each factor may vary depending upon the disease/condition and the population at risk



Women and minorities have historically been underrepresented in clinical trials

Year	Regulatory Efforts to Address Underrepresentation
1993	The National Institutes of Health (NIH) adopted a policy in 1993 mandating all federal grants for clinical research include women and minorities.
2014	The FDA launched a website called <i>Drug Trials Snapshots</i> to provide the public with information about the demographic composition of the data collected in clinical trials of newly-approved medications.
2020	The FDA issued guidance for the industry to improve diversity and representation in clinical trials.
2022	The FDA expanded on previous guidance (2020) for the industry to improve diversity and representation in clinical trials. This new guidance recommends submitting a “Race and Ethnic Diversity Plan” for all new drug and medical device submissions from the early clinical trial phases.

Source: FDA



Reluctance to participate in clinical trials

Mistrust

Limited Awareness of Trials

Lack of Invitation to Participate

Lack of Information

Logistical Obstacles – Time & Resource Constraints

Complexity of Protocol – Study Burden

Ethnic & Cultural Beliefs

Language/Literacy

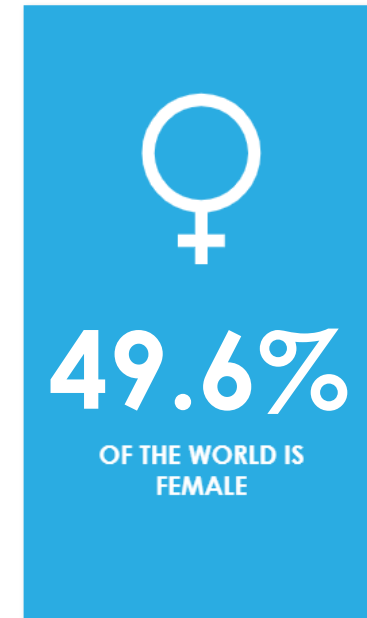
Eligibility Criteria/Comorbid Conditions

I What constitutes diversity in Moderna clinical trials

Race, ethnicity, age, and sex can all **impact how different people respond to the same medicine or vaccine**

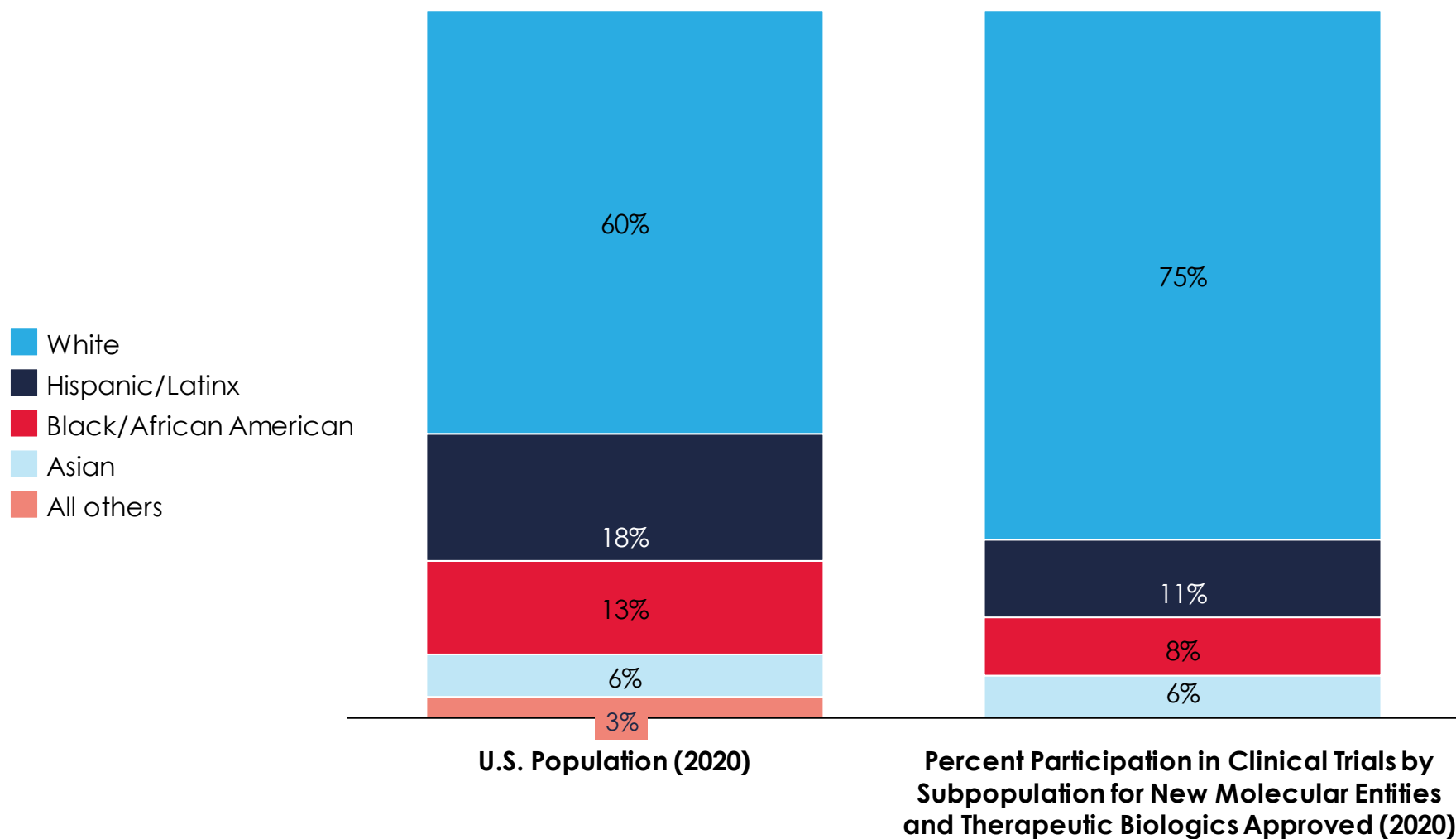
At Moderna, **a clinical trial can be qualified as “diverse” in healthy volunteer trials** when:

- 37% of the sample population within the US are Persons Of Color
- 50% female assigned at birth
- Balance across age cohorts



<https://www.brookings.edu/blog/the-avenue/2018/03/14/the-us-will-become-minority-white-in-2045-census-projects/>
https://unstats.un.org/unsd/demographic-social/products/worldswomen/documents/Population_BW.pdf
<https://www.un.org/development/desa/en/news/population/our-world-is-growing-older.html>

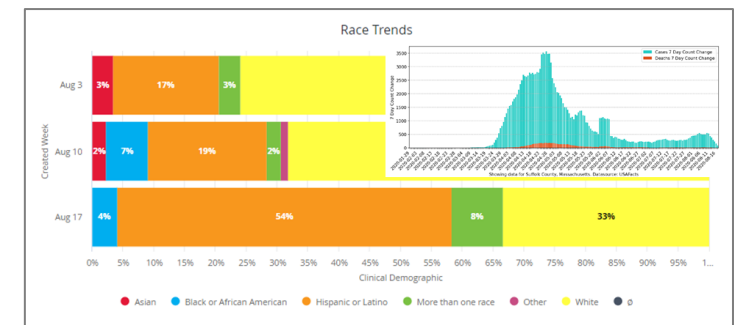
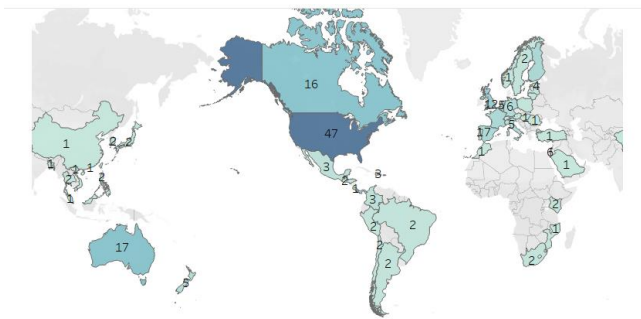
Diversity in clinical trials: where we were in 2020



I Moderna's approach to reach underrepresented groups

Drive strategy and manage initiatives to build trust and ensure medically underrepresented groups can be better engaged in our clinical trials

- Embed the importance of diversity in clinical trials into our company's culture
- Establish demographic objectives and diversity plans for each trial (**Phase 1-3**)
- Select multi-regional clinical trial sites with inclusion in mind
- Increase ways to access trials
- Collaborate with trusted voices
- Develop outreach and education tailored to specific populations
- Leverage dashboard and metrics to understand historical performance within specific indications, inform site selection and enrollment strategy, and measure future performance



Ensured that we enrolled diverse and at-risk populations for our Phase 3 COVID-19 vaccine trial (COVE Study)

Slowed enrollment in the COVE study to ensure diverse representation

Included more than 11,000 participants from communities of color, representing 37% of the study population



COVE study: Racial ethnic demographics



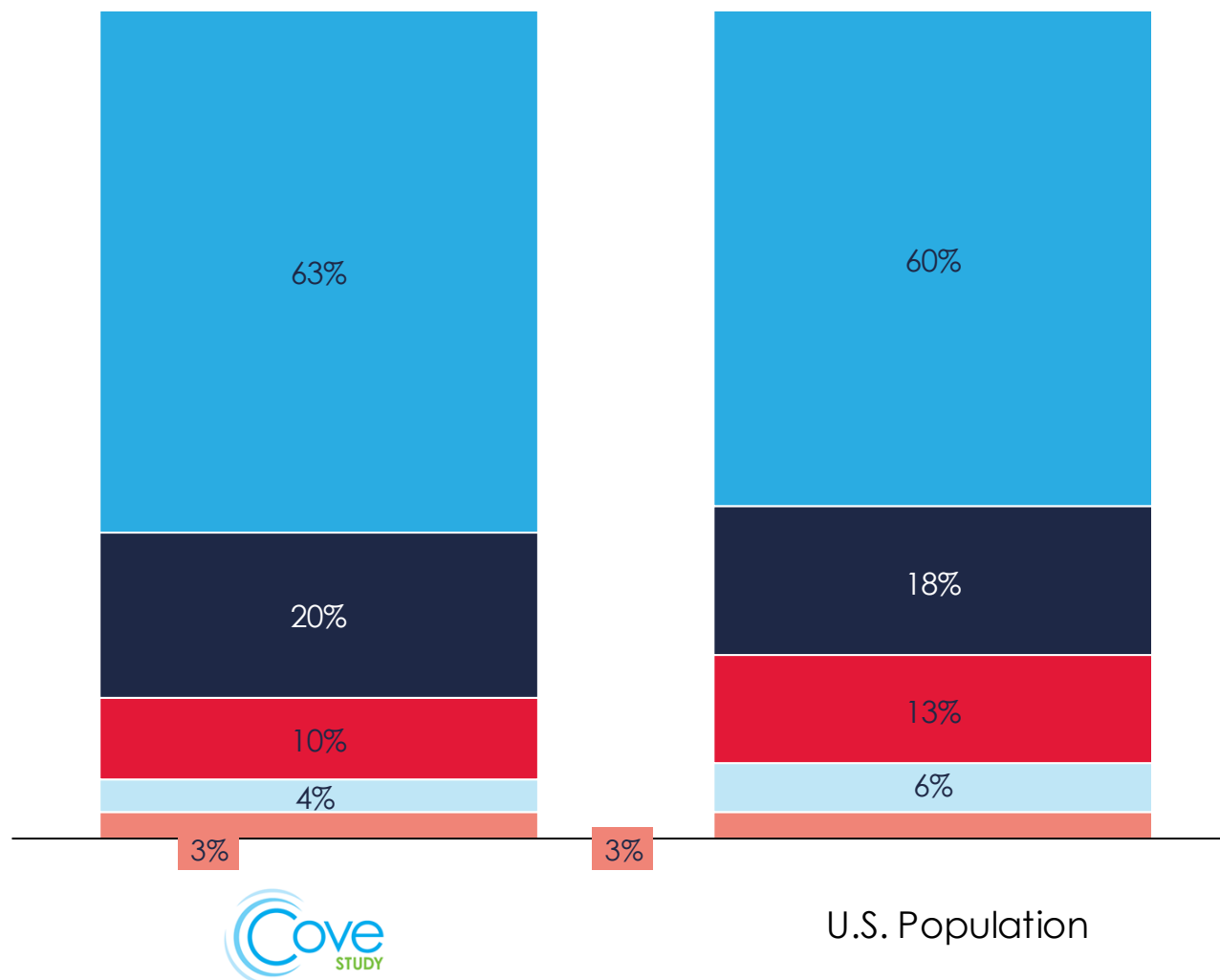
- White
- Hispanic/Latinx
- Black/AA
- Asian
- All others

COVE Study Participants	Count
White, non-Hispanic	19,060
Hispanic or Latinx	6,247
Black or African American	3,114*
Asian	1,365
Others	871^
Total	30,406+

* Includes 251 participants who identify as both Black and Hispanic/Latinx

^Including 148 American Indian or Alaska Native

+ Final Enrollment 30,423 (Oct 22, 2020)



Leveraging our digital infrastructure to support trial diversity

Real-time D&I comparison to census

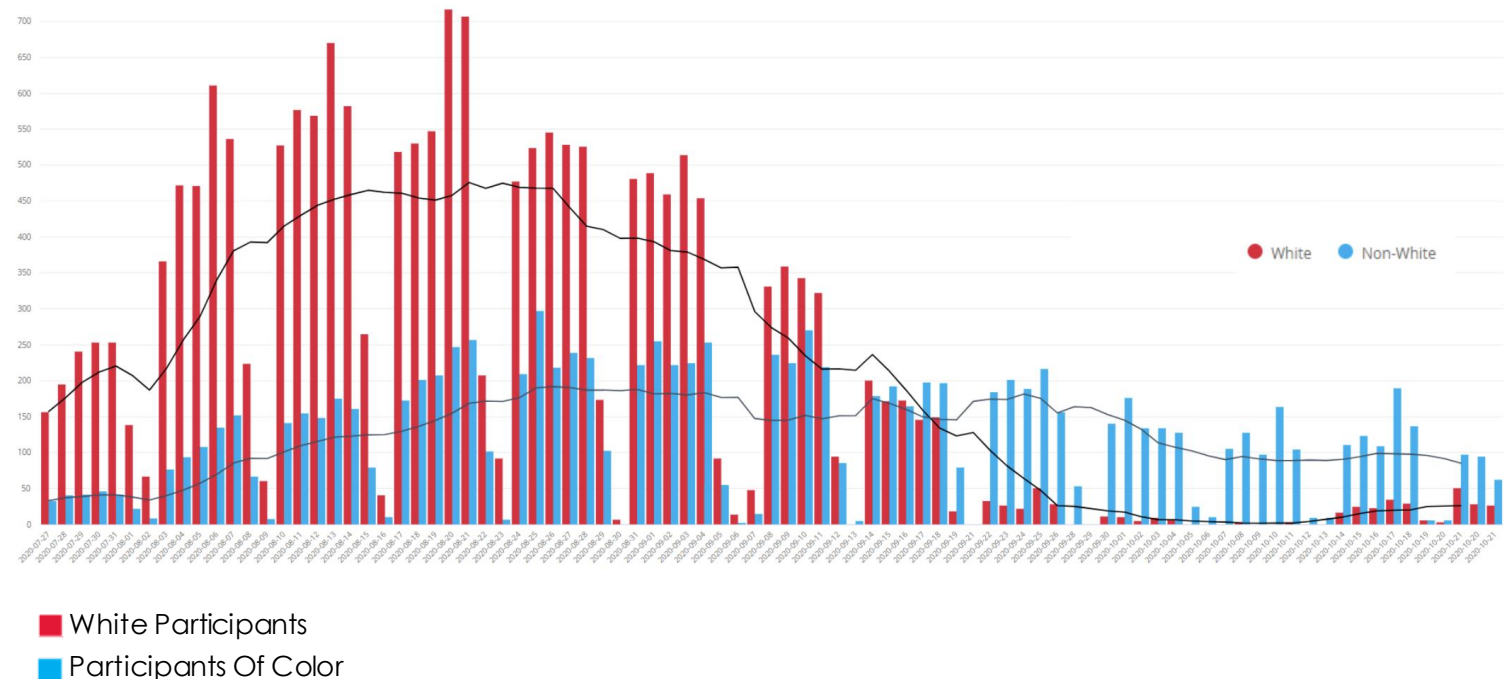
- Empowered COVE clinical team decision making and made an impact for populations most at risk

Shared insights across multiple teams

- Shared insights from central location with Moderna teams, clinical research organizations (CROs), government partners, company website & more

Evolution of diversity throughout enrollment

Interim data snapshot - October 21, 2020 - subject to change



Our pivotal Phase 3 trials in RSV and CMV are both on track to meet demographic objectives



US Enrollment Targets Based on Demographic Composition

	Objective	Current %
White	69%	65%
Persons of color	31%	35%



US Enrollment Targets Based on Demographic Composition

	Objective	Current %
White	58%	52%
Persons of color	42%	48%

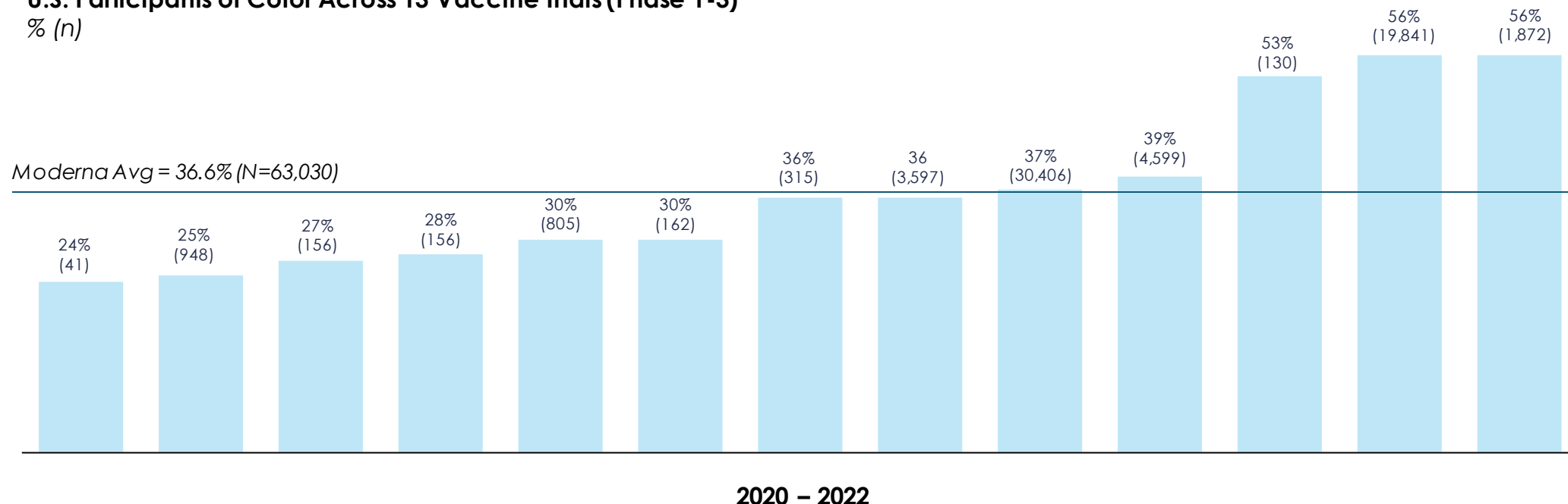
Data as of September 8, 2022

Striving to be a leader in the industry

Moderna continues to lead the industry, proving that concerted efforts to provide equitable healthcare access to all populations are both possible and essential.



U.S. Participants of Color Across 13 Vaccine Trials (Phase 1-3)
% (n)



I Summary



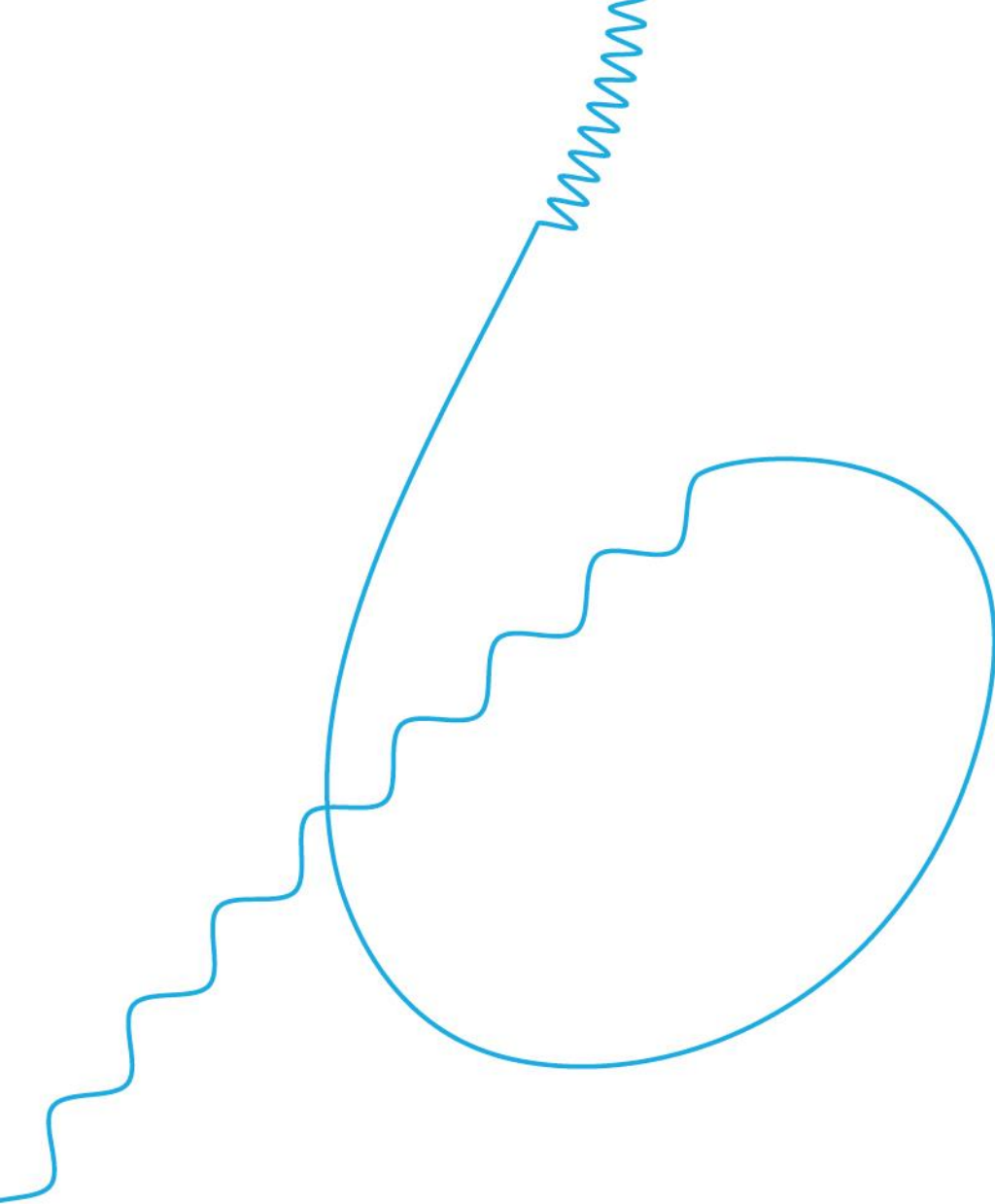
Clinical trial diversity is not solely our ethical responsibility – it is also a scientific imperative



Moderna **leverages our digital infrastructure** to enable meaningful action through real time data transparency



Improving trial diversity is a vital step towards **achieving health equity and helping improve lives around the world**



Moderna's Global Health Strategy

Hamilton Bennett

Senior Director, Vaccine Access & Partnerships



We have been committed to using our mRNA platform for global health since our founding

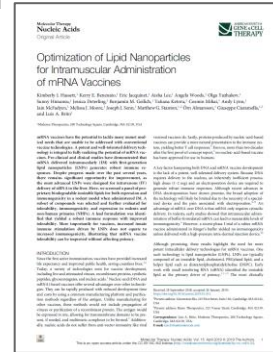


Leading funding & development partners for vaccines



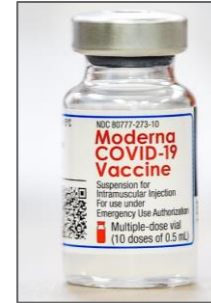
2015
First-in-Human vaccine trial on H10N8 and H7N9 influenza vaccines

Published in 2019: Feldman et al., Vaccine 37 (2019) 3326



2019
Publication of Moderna's work on vaccine-specific LNP in Nucleic Acids

Hasset et al., Mol. Ther. Nuc. Acids 15 (2019) 1

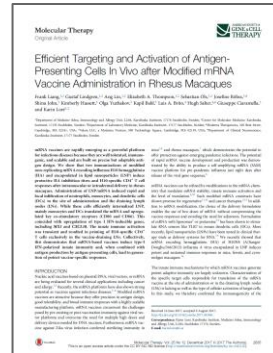


2020/2021
Development & authorization of mRNA-1273 COVID-19 vaccine



2022
Commitment to advance vaccines targeting at least 15 pathogens identified as biggest public health risk

2010
moderna®
Founded



2017
Publication of Moderna's work on mechanistic understanding of mRNA vaccine mechanism of action

Liang et al., Mol. Ther. 25 (2017) 2635

2020

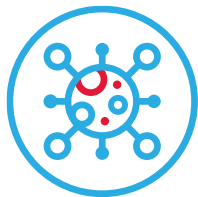
2020/2021
Multiple publications on pre-clinical and clinical results of mRNA-1273



2021

2022

Key pillars of our global health strategy



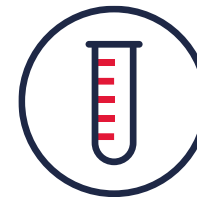
Priority Pathogens

Commitment to **advance vaccines targeting at least 15 priority pathogens into clinical studies by 2025**



mRNA Access™

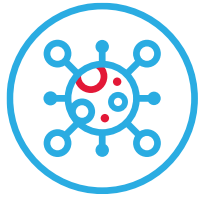
New collaborative program enabling researchers around the world to utilize Moderna's mRNA technology platform to pursue research in their own labs on emerging and neglected infectious diseases



Regional Manufacturing

Operate mRNA manufacturing facilities around the world to be ready to respond to any regional outbreak

I Priority pathogens



Priority Pathogens

Commitment to **advance vaccines targeting at least 15 priority pathogens into clinical studies by 2025**



mRNA Access™

New collaborative access enabling researchers around the world to utilize Moderna's mRNA technology platform to pursue research in their own labs on emerging and neglected infectious diseases



Regional Manufacturing

Operate mRNA manufacturing facilities around the world to be ready to respond to any regional outbreak

Pandemic and epidemic threats will continue to arise

PNAS

“Using recent estimates of the rate of increase in disease emergence from zoonotic reservoirs associated with environmental change, **we estimate that the yearly probability of occurrence of extreme epidemics can increase up to threefold in the coming decades.**”

Marani, Marco et al., *PNAS* (2021), <https://doi.org/10.1073/pnas.2105482118>

THE LANCET
Infectious Diseases

“Disease X is caused by Pathogen X, an infectious agent that is not currently known to cause human disease, but an **aetiologic agent of a future outbreak with epidemic or pandemic potential**...although viral pathogens represent a small proportion of the pathogens that account for emerging infectious disease events, the most devastating recent emergence events have involved RNA viruses.”

Simpson, Shmoma et al., *The Lancet* (2020), [https://doi.org/10.1016/S1473-3099\(20\)30123-7](https://doi.org/10.1016/S1473-3099(20)30123-7)

moderna

Our platform is uniquely suited to address persistent and emerging threats

Persistent Global Health Threats (WHO, CEPI and others)	Prototype Viral Family
Chikungunya virus	Togaviridae
COVID-19	Coronaviridae
Crimean-Congo haemorrhagic fever	Nairoviridae
Dengue	Flaviviridae
Ebola virus disease	Filoviridae
HIV	
Malaria	
Marburg virus disease	Filoviridae
Lassa fever	Arenaviridae
Middle East respiratory syndrome coronavirus (MERS-CoV)	Coronaviridae
Nipah and henipaviral diseases	Paramyxoviridae
Rift Valley fever	Phenuiviridae
Severe fever with thrombocytopenia syndrome	Phenuiviridae
Tuberculosis	
Zika	Flaviviridae
"Disease X"	

Committed to advancing into clinical studies **a portfolio of at least 15 vaccine programs targeting emerging or neglected infectious diseases by 2025**

Focused on **advancing vaccines that address current diseases of significant impact to low- and middle-income countries**, and those that prepare for "Disease X"

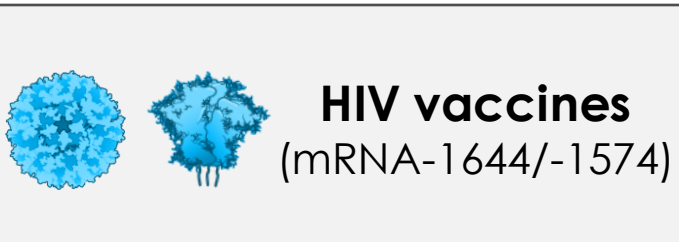
Meaningful progress has been made against prioritized global health programs




Priority Pathogen	ID #	Preclinical Dev	Phase 1	Phase 2	Phase 3	Commercial	Collaborators
COVID-19	mRNA-1273	<div></div>					BARDA/NIAID
Zika	mRNA-1893	<div></div>					BARDA
Chikungunya	mRNA-1388	<div></div>					--
HIV	mRNA-1644	<div></div>					IAVI / Others
HIV	mRNA-1574	<div></div>					IAVI/BMGF/NIAID & Others
Nipah	mRNA-1215	<div></div>					NIH
Monkeypox	mRNA-1769	<div></div>					--
Ebola	--	<div></div>					UTMB
Dengue	--	<div></div>					--
Lassa	--	<div></div>					UTMB
MERS-CoV	--	<div></div>					--
Marburg	--	<div></div>					UTMB
Malaria	--	<div></div>					--
CCHF	--	<div></div>					--
Rift Valley Fever	--	<div></div>					--
SFTS	--	<div></div>					KNIH
Tuberculosis		<div></div>					--

Source: Compiled from Global Health groups.

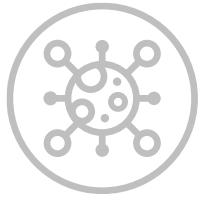
Abbreviations: CCHF, Crimean Congo Hemorrhage Fever; HIV, human immunodeficiency viruses; MERS-CoV, Middle East respiratory syndrome coronavirus; SFTS, Severe fever with thrombocytopenia syndrome.

HIV is an example of leveraging collaborations to advance programs against an unmet need



Human immunodeficiency virus (HIV)	<ul style="list-style-type: none">• Belongs to a class of viruses known as retroviruses• Primary routes of transmission are sexual intercourse and IV drug use, putting young adults at highest risk of infection
Circulation	<ul style="list-style-type: none">• Approximately 1.5 million <u>new infections</u> are acquired worldwide each year, and 650,000 people die
Disease burden	<ul style="list-style-type: none">• Responsible for acquired immunodeficiency syndrome (AIDS), a lifelong, progressive illness with no effective cure
Moderna vaccine clinical stage	<ul style="list-style-type: none">• mRNA-1644 (B cells) Phase 1 ongoing in U.S.• mRNA-1574 (HIV trimers) Phase 1 ongoing in U.S.
Collaborators	  National Institute of Allergy and Infectious Diseases 

| mRNA Access



Priority Pathogens

Commitment to **advance vaccines targeting at least 15 priority pathogens into clinical studies by 2025**



mRNA Access™

New collaborative access enabling researchers around the world to utilize Moderna's mRNA technology platform to pursue research in their own labs on emerging and neglected infectious diseases



Regional Manufacturing

Operate mRNA manufacturing facilities around the world to be ready to respond to any regional outbreak

I Mission of mRNA Access



Primary mission

Create life saving medicines: To accelerate innovation and enable new medicines for emerging and neglected infectious disease through decentralized research and development (R&D)

Additional benefits

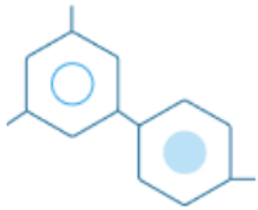


Engage Disease-Area Experts: To engage a community of researchers to tackle the global health priorities of our generation



Inspire Future Scientists: To educate a new generation of scientists and engineers on the use of mRNA as a technology and fuel future innovation

| mRNA Access Powered by Moderna



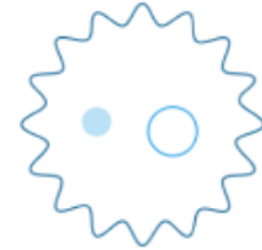
mRNA Design Studio

Our custom mRNA is codon optimized for optimal expression and manufacturability



High-Throughput Production

Optimized mRNA is manufactured using our prophylactic vaccine process, suitable for *in vitro* or *in vivo* testing



Iterative Research

The speed and flexibility of our platform allows for rapid design-test cycles of antigen design and pre-clinical testing

mRNA Access is targeting emerging and neglected infectious diseases

● Existing & Planned Programs ● Potential Future Programs

- Alkhurma virus
- Andes virus
- Bacillus anthracis (anthrax)
- Balamuthia mandrillaris
- Barmah Forest virus (BFV)
- Brucella species (brucellosis)
- Burkholderia mallei (glanders)
- Burkholderia pseudomallei (melioidosis)
- Cache Valley virus
- Caliciviruses
- California encephalitis virus
- Campylobacter jejuni
- Canine distemper (morbilli)
- Cedar (henipa)
- Chapare virus
- **Chikungunya virus**
- Chlamydia psittaci (psittacosis)
- Clostridium botulinum toxin (botulism)
- Coccidioides spp.
- Coxiella burnetii (Q fever)
- **Crimean-Congo haemorrhagic fever (CCHF)**
- Cryptosporidium parvum
- Cyclospora cayatanensis
- Deer tick virus

- **Dengue** (*flaviviridae* proto)
- Eastern equine encephalitis (EEE)
- **Ebola: Sudan and Zaire virus**
- Echovirus
- Entamoeba histolytica
- Enterovirus A71
- **Enterovirus D68**
- Francisella tularensis (tularemia)
- Giardia lamblia
- Guanarito virus
- Hantaan virus
- Hantaviruses causing hanta pulmonary syndrome
- Hazara virus
- Hendra virus
- Hepatitis A
- **Hepatitis C**
- Hepatitis E
- **Hookworm** (*N. americanus*)
- **HPIV** (1 or 3)
- **Human Immunodeficiency Virus** (HIV)
- **Human T-cell leukaemia virus** (HTLV-1)
- Influenza virus A pandemic
- Japanese encephalitis virus (JE)
- Junin virus



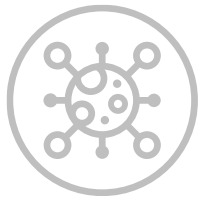
- Kyasanur Forest virus
- Kumasi virus
- LaCrosse encephalitis (LACV)
- **Lassa fever**
- **Leishmaniasis**
- Leptospirosis
- Listeria monocytogenes (Maternal)
- Lujo virus
- Machupo virus
- **Malaria**
- **Marburg and Ravn virus**
- Menagla virus
- Meningococcal meningitis
- **MERS-CoV**
- Microsporidia
- Mojiang virus
- **Monkeypox/Smallpox**
- Naegleria fowleri
- **Nipah virus**
- Omsk hemorrhagic fever virus
- O'nyong-nyong virus
- Phlebovirus (bunyavirales)
- Powassan virus
- Punta Toro
- **Rabies virus**
- **Rhinovirus C**
- Ricin toxin (ricinus communis)

- Rickettsia (spotted fevers)
- **Rift Valley fever**
- Salmonella (typhoid/paratyphoid fever)
- **SARS-CoV-1**
- **SARS-CoV-2**
- **Schistosomiasis** (*S. Mansoni*)
- Semliki Forest virus (SFV)
- **SFTS virus**
- Shigella species
- Sin Nombre virus
- Sosuga virus
- St. Louis encephalitis virus (SLEV)
- Staphylococcus enterotoxin B (SEB)
- Toxoplasma gondii
- **Tuberculosis, including drug-resistant TB**
- Venezuelan equine encephalitis (VEE)
- Vibrio (pathogenic)
- West Nile virus (WNV) (*flaviviridae* proto)
- Western equine encephalitis (WEE)
- **Yellow fever virus** (YFV)
- Yersinia pestis (plague)
- **Zika virus**

mRNA Access Collaborators



I Regional manufacturing



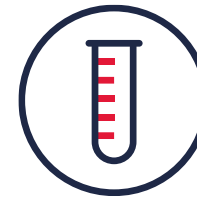
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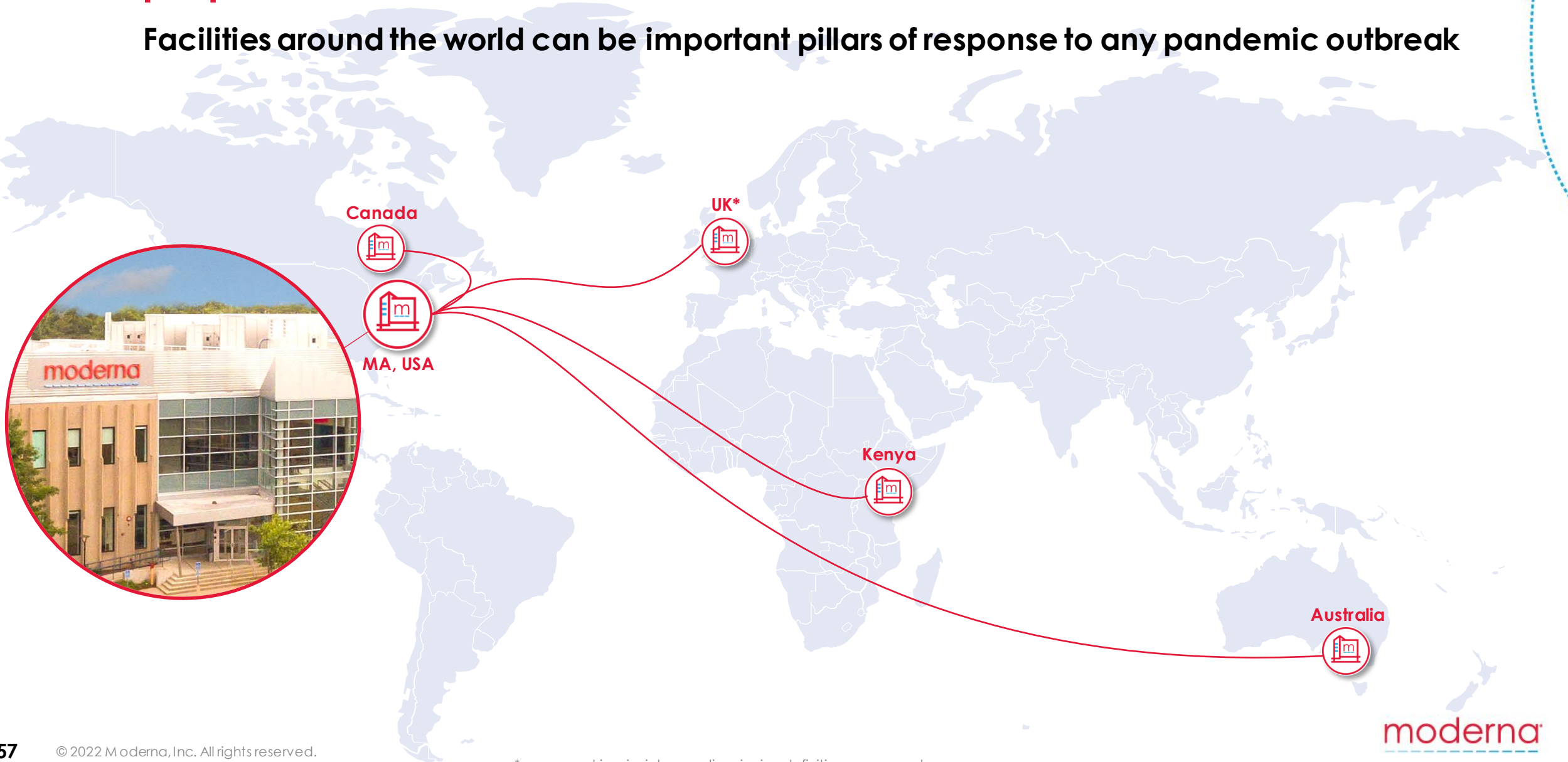


Regional Manufacturing

Operate mRNA manufacturing facilities around the world to be ready to respond to any regional outbreak

We are building regional manufacturing capability to prepare for the future

Facilities around the world can be important pillars of response to any pandemic outbreak



I Making progress in building infrastructure in Africa



Update on Kenya manufacturing facility

- Moderna announced in March 2022 that it had selected Kenya for its **first manufacturing site in Africa**
- **Site selection close to being finalized**, subject to reaching an agreement with the government of Kenya
- While discussions were paused during Kenyan elections, **discussions ongoing with President Ruto's administration**
- **Strong support from the US government**, including the US Ambassador to Kenya, Meg Whitman

I Summary



Moderna has been committed to global health since its founding in 2010, leveraging the power of mRNA



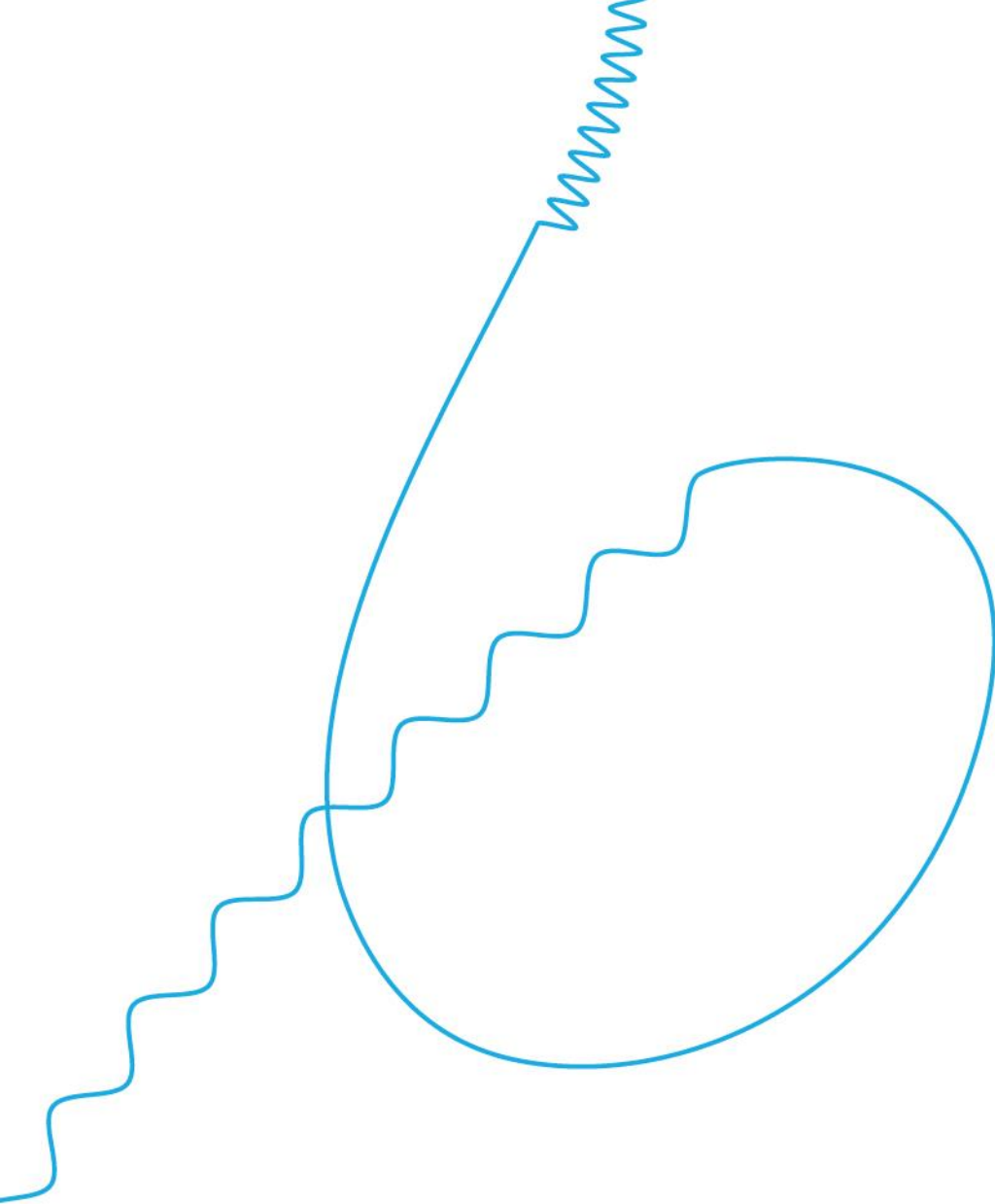
Committed to bringing forward at least 15 pathogens into the clinic in order to help prepare for any future pandemics



Sharing our mRNA platform with collaborators worldwide through mRNA Access is an important part of continued efforts to address emerging and neglected infectious diseases



Building regional manufacturing facilities in order to be able to respond to regional outbreaks worldwide



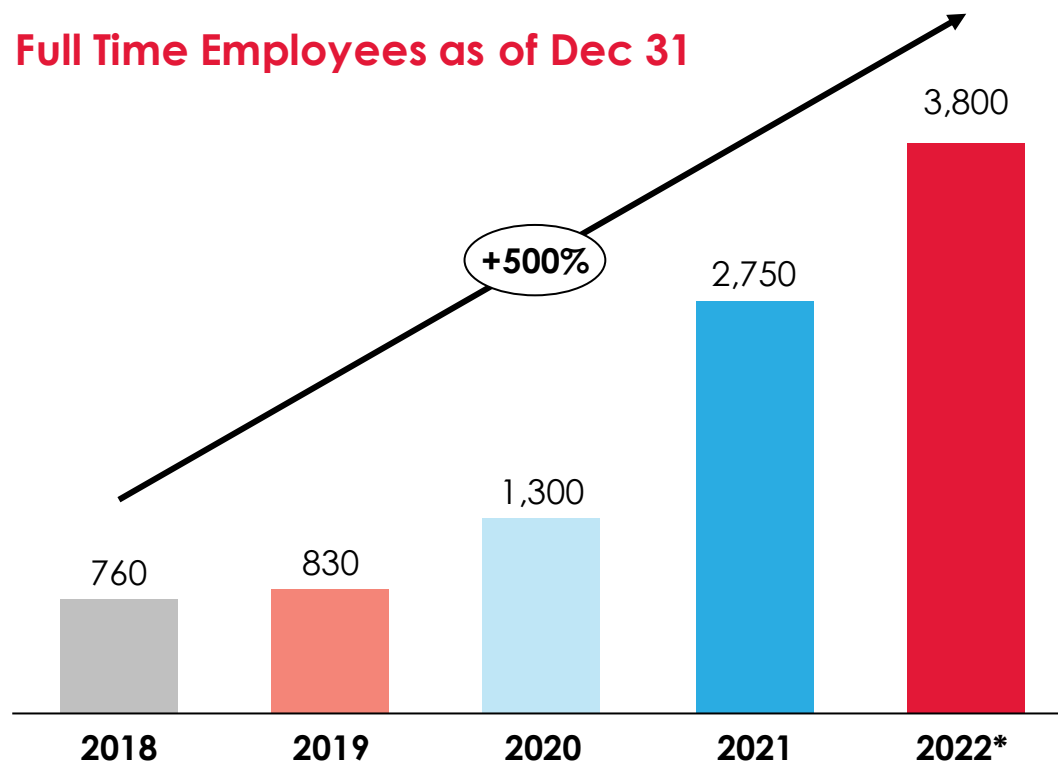
Moderna Culture & Employees

Tracey Franklin

Chief Human Resources Officer



Moderna has expanded rapidly in the last few years



* headcount as of October 2022



Headcount expansion:

Since our IPO in 2018, we have increased our employee headcount ~5X

Geographic expansion:

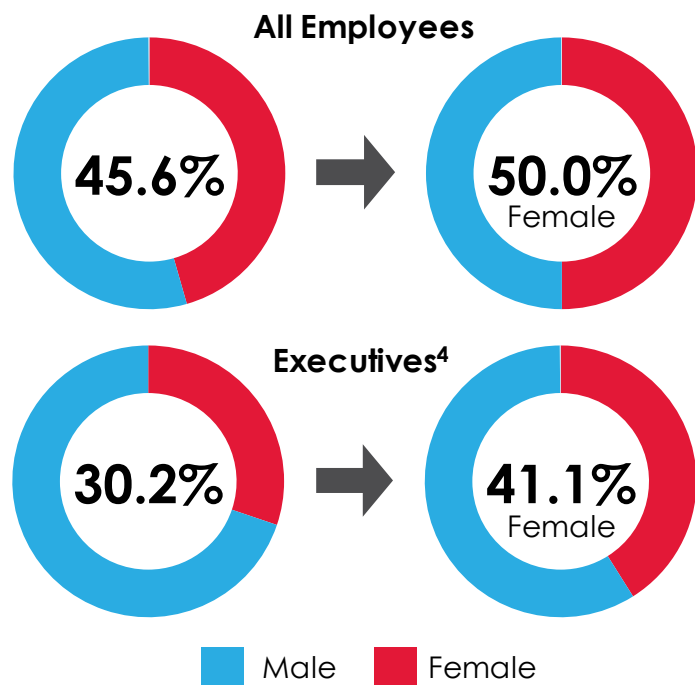
We now have employees in 15 global jurisdictions, with more to come in 2023

I We have made progress in representation

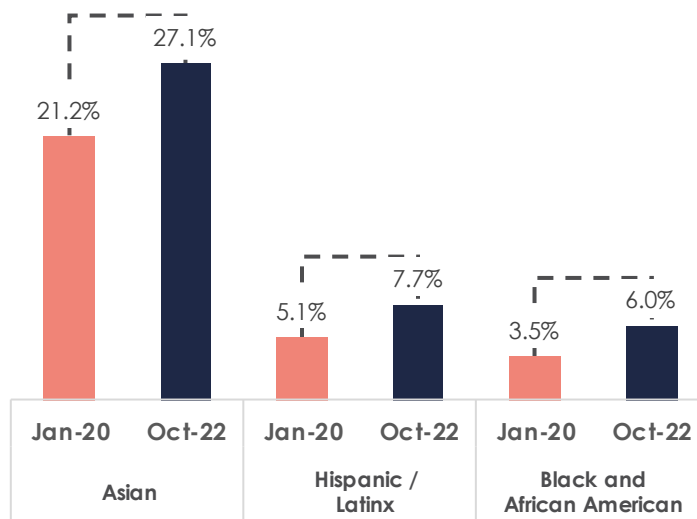
Gender¹

January 2020

September 2022



Race & Ethnicity²



Pay Equity³

Zero

Statistically significant differences in pay

=

Moderna provides equal pay for equal work

1. Global
2. US only
3. Gender globally and race/ethnicity in U.S.
4. Defined as employees at Vice President level and above



Ever since Moderna was founded, we have consistently strived to recruit the best talent from around the world

~185

Employees with a
Green Card
sponsored by
Moderna

34

Nationalities currently
represented

>90%

of our Executive
Committee have
lived and/or
worked outside
the US

>300

Employees working
with active visa status

The elements of our culture support rapid growth and drive an environment where everyone can have an impact

OUR MISSION

To deliver on the promise of mRNA science to create a new generation of transformative medicines for patients.

OUR VALUES



Bold



Collaborative



Curious



Relentless



Basecamp
Integrity, Quality,
Respect

OUR MINDSETS



*We act with
urgency*



*We pursue options
in parallel*



We accept risk



*We push past
possible*



*We behave like
owners*



*We act with
dynamic range*



*We obsess over
learning*



We pivot fearlessly



*We question
convention*



*We remove
viscosity*



*We prioritize the
platform*



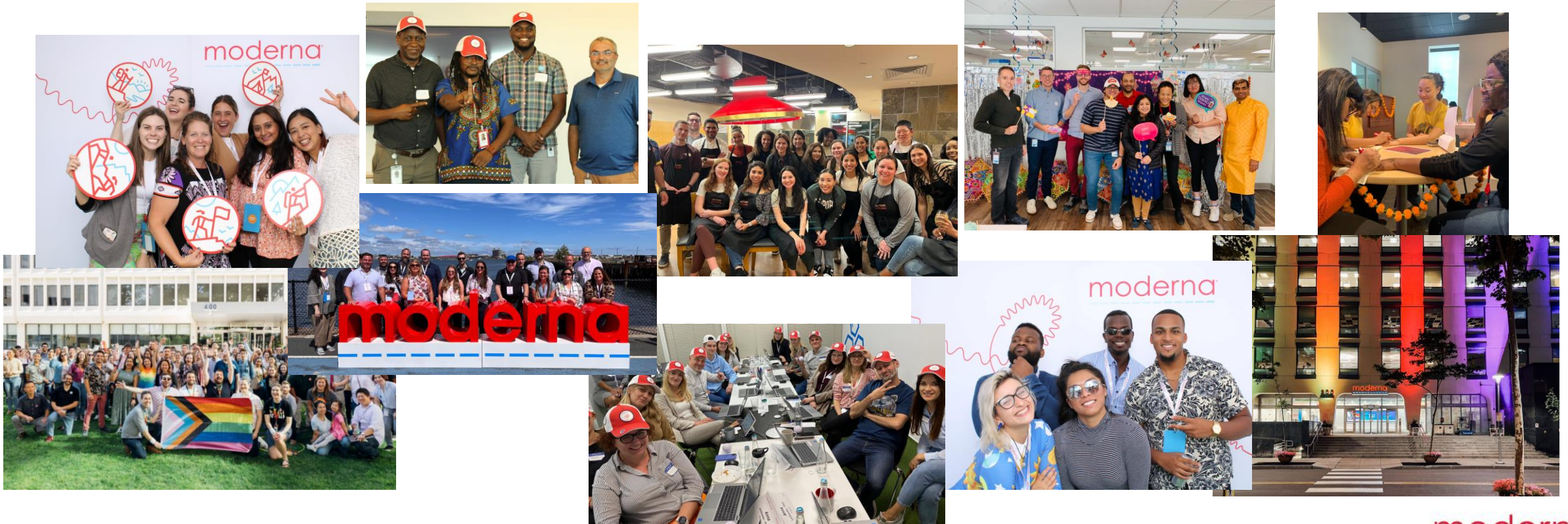
*We digitize
everywhere
possible*

Our philosophy toward diversity and inclusion starts with belonging, the most challenging but essential focus area

Lead with
Belonging

Drive a Culture
of Inclusion

Grow
Diversity



I Video: Moderna employees

moderna

The People Behind the Science

<https://www.modernatx.com/careers/people-behind-the-science>

We have a concrete strategy to continue to advance our Belonging, Inclusion, and Diversity efforts

Roadmap

We have developed a holistic five-year Belonging, Inclusion & Diversity roadmap

Internal

Moderna's nine employee resource groups are focused both on affinity and enhancing the company culture

External

We benchmark our performance versus verified third-party benchmarks

CEO **ACT!ON** FOR
DIVERSITY & INCLUSION

Signatory
company since
2020

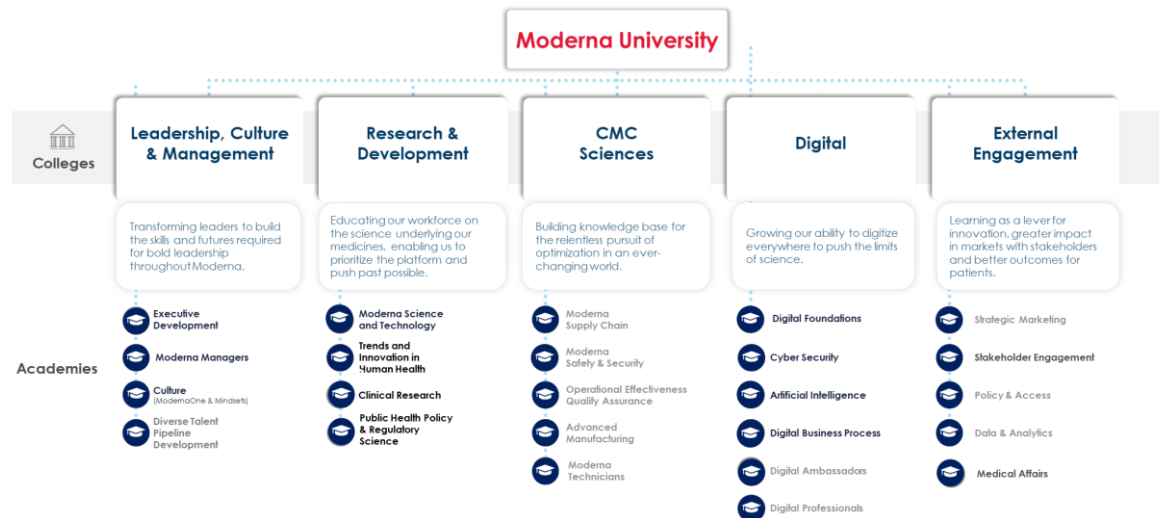


95/100

Score from 2022 Human Rights Campaign Corporate Equality Index, our first rating

We adopt advanced listening tools to identify areas of focus to create an environment where our unique workforce can have the most impact

Learning



Well-being

BUILD THE PATH TO YOUR BEST SELF

We recognize and celebrate the fact that our wonderfully unique colleagues have their own abilities, needs and interests. Moderna's benefits are designed to help you build your path to the best version of you.

While we recognize there's still more work to do, we want to thank you for joining us as we evolve. We are excited for our future, just as much as we are proud of our progress.

WANT TO FIND OUT MORE?

For even more information visit modernabenefits.com. Your family can also access our virtual tool using access code "Moderna".

Moderna 2023 Summary Slide



Elevating learning at Moderna will help us write our next chapter

Our vision for learning at Moderna

Moderna becomes a 'beacon of education' and recognized globally as the pre-eminent talent development destination in biopharma and beyond.

We achieve this by providing innovative and transformational learning, upskilling, and career development opportunities to our employees and designing an ecosystem to build culture, promote well-being, and drive high-performance.



Investing in learning enables us to give back internally and externally



AI Academy

Transforming the industry through education about the power of AI to accelerate outcomes.

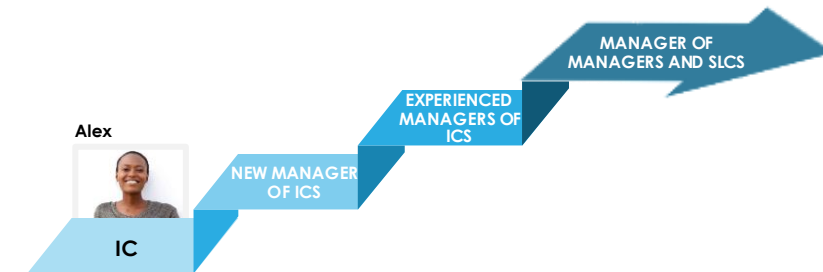
- **Experiential learning** and development of use cases
- As of November 2022, more than 400 employees have gone through the 3-day academy



Moderna Managers

Enable our people leaders to successfully guide and inspire our teams through future bold challenges.

- A newly launched **Moderna Manager Framework and Philosophy**
- New **learning pathways** to equip our Moderna Managers



mRNA and Moderna Science

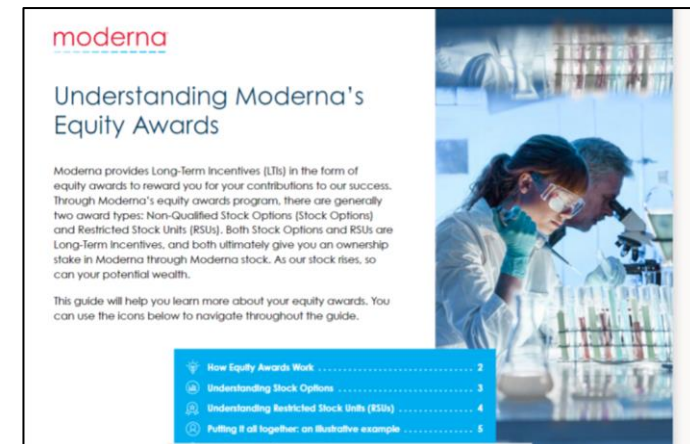
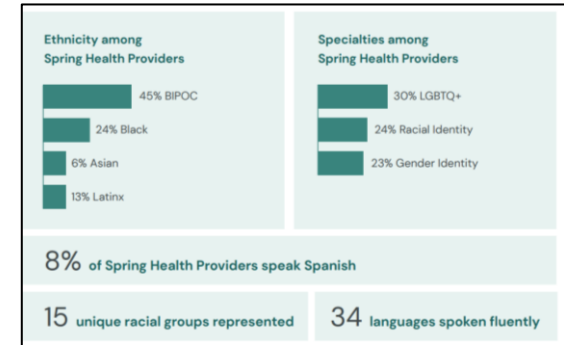
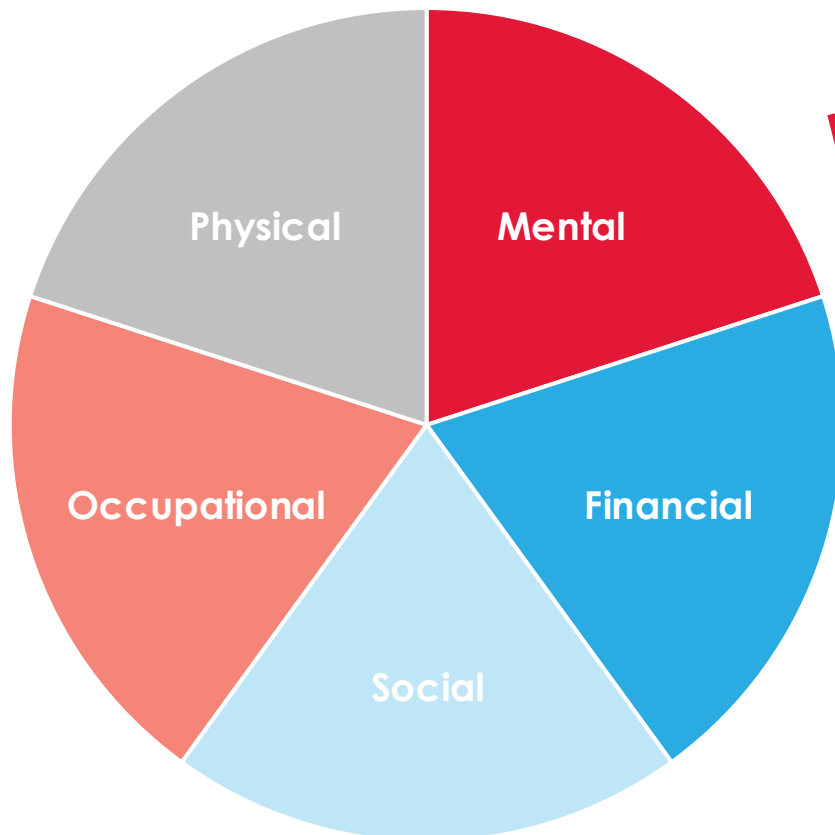
Introduce employees at all levels to the science at the heart of our technology.

- Intent to launch **our external mRNA and Moderna Science certificate program**



| We've developed a customized set of total rewards to support the well-being of our employees

Primary domains of employee health and well-being at Moderna



We measure and hold ourselves accountable to how we're performing against key employee metrics

We consistently achieve **above benchmark** scores on **engagement, culture, and belonging**

Engagement
Benchmark 73

78



Culture
Benchmark 64

73

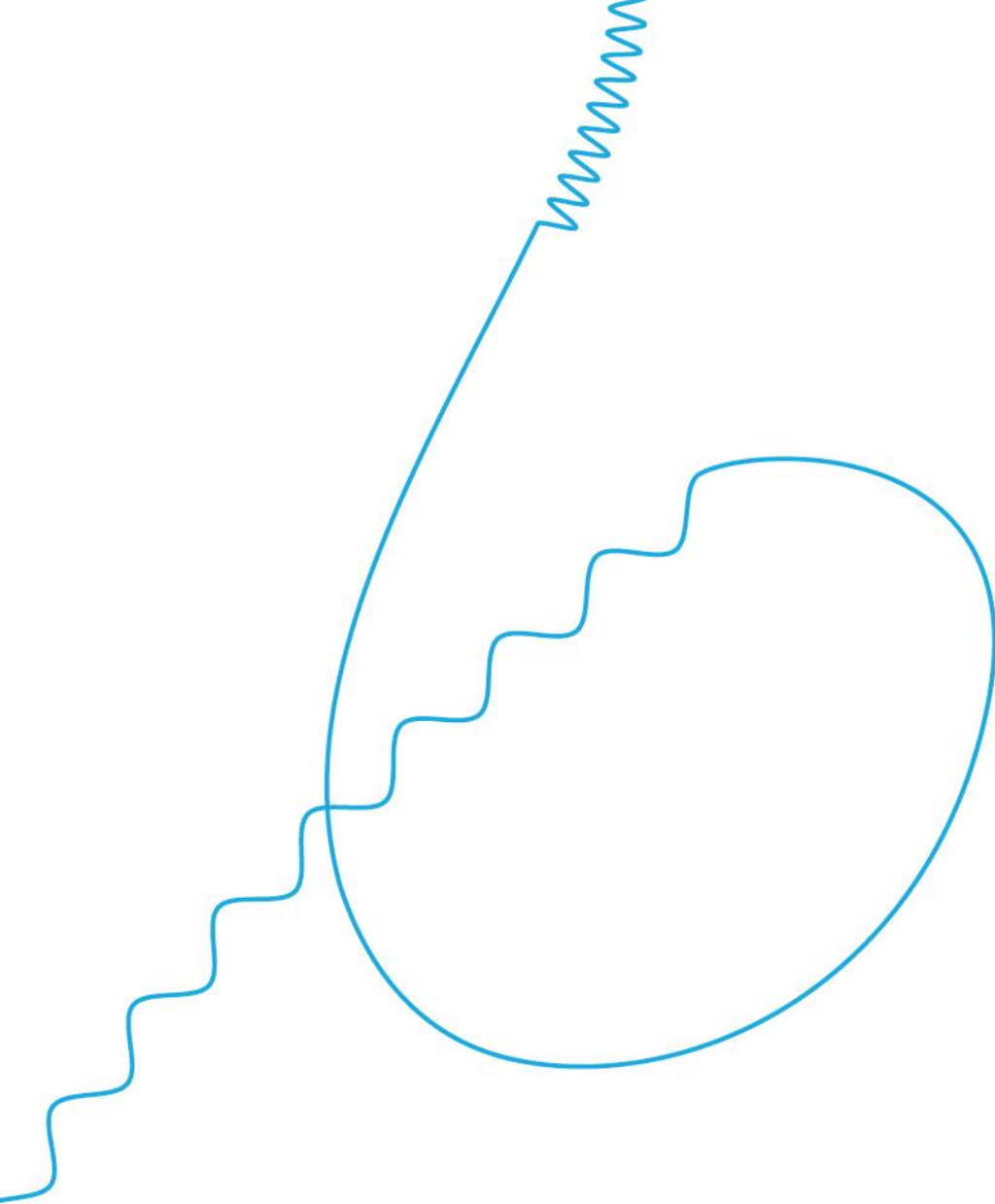


Belonging
Benchmark 70

74



Since 2021 we've included a **belonging metric in our corporate scorecard**, which impacts executive compensation



Communities

Katherine O'Malley

*Executive Director, Internal
Communications and Employee
Engagement*



Vulnerable communities have been disproportionately impacted by the COVID-19 pandemic

Unequal negative effects on the broader social determinants of health observed in 2021²



I We strive to extend our positive impact on society



Corporate Volunteering

Annual **#VolunteerWeek**
New **"Dollars for doers"**
program



Employee Gift Matching

moderna[®]
foundation
Launched in 2022



Philanthropic Giving



Humanitarian Relief

\$1 million
donation to support
humanitarian relief
efforts in Ukraine and
Eastern Europe

Engaging with our communities is critical to deliver on the promise of mRNA



STEM Education Day at Fenway Park, October 2022

Engage the next generation of scientists

Address health literacy gap across our communities

Close the opportunity gap in underserved communities



"There's nothing more normal than neighbors working together. Moderna makes it possible for us to meet and work alongside our neighbors— building community to help communities return to normal."

Moderna employee, 2022

"Volunteering at Heading Home was a humbling experience. We are so focused on our day-to-day work and family lives that we sometimes lose sight of our greater purpose. Small acts of kindness can make a huge difference in other people's lives."

Moderna employee, 2022

"A key highlight was seeing my impassioned colleagues speak to the science of mRNA in a relatable way to eager students and then immediately see the curiosity and excitement on the students' faces. It was a great event to continue our community partnership and showcase our science!"

Moderna employee, 2022

I Launched Moderna Charitable Foundation in 2022

The Moderna Foundation reflects our commitment to giving back to help ensure a stronger and more equitable post-pandemic world through grants, humanitarian support and a new employee matching gift program.

Philanthropic giving

With a special focus on addressing the impact of COVID-19, support organizations and causes that:



Promote public health and access to quality healthcare



Advance scientific education and innovation



Advocate for inclusion and diversity

Initial grant partners:



LIFE SCIENCE CARES
boston



Employee Gift Matching

All employees able to participate and direct funds to their preferred organizations

Promoting public health and access to quality healthcare



Focused on improving health systems and healthcare in sub-Saharan Africa

- Moderna Foundation awarded a total of \$4 million to three organizations focused on improving health systems and healthcare in sub-Saharan Africa



[Link to more detail](#)

Case study: Moderna Foundation is partnering with Seed Global Health for long-lasting impact and change at system level

<https://www.youtube.com/watch?v=ZPCr-hGkLLw>



Celebrating Ten Years of Seed Global Health

Case study: Moderna Foundation is partnering with Seed Global Health for long-lasting impact and change at system level



Dedicated to support our partners in sub-Saharan Africa to create lasting change in the health system. Current partner countries include: **Malawi, Sierra Leone, Uganda, and Zambia.**



Training **nurses, midwives, and physicians**; building complete, fit-for-purpose **health workforce teams** that can provide high-quality care and save lives.

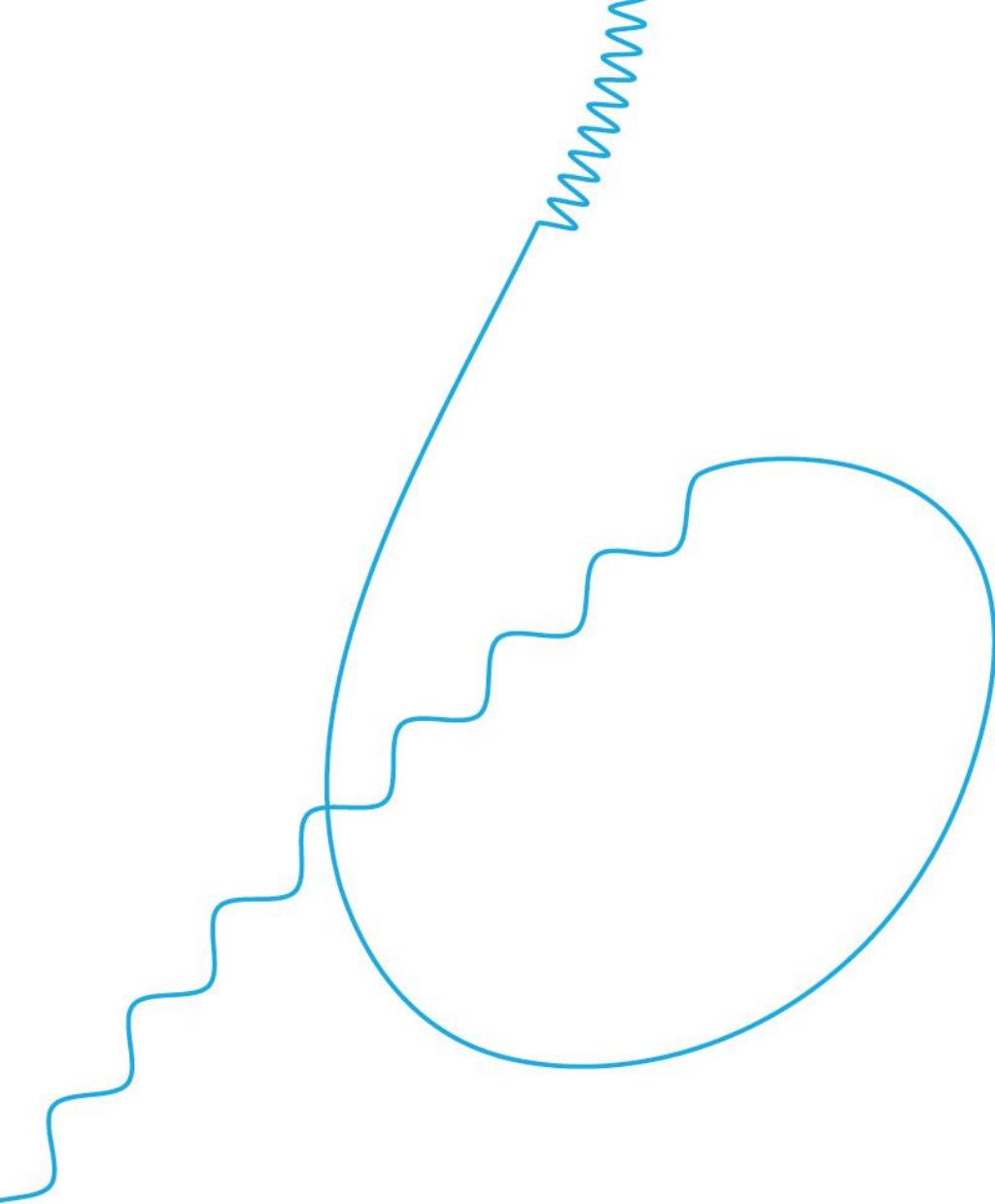


Forming **deep, locally-led partnerships** that inform our work at both the individual and systems levels.

Moderna Foundation's grant will aid in the development of the **health workforce** in **partner countries** by providing clinical education and training, focusing on national quality improvement and creating a model to scale and retain healthcare workers.

| Coffee break: To resume in 5 minutes

Moderna's Mission and Culture to Drive Impact	<i>Stéphane Bancel, Chief Executive Officer</i>
Medicines for patients	
<i>Overview of mRNA vaccines and therapeutics</i>	<i>Stephen Hoge, President</i>
<i>Inclusive research at Moderna</i>	<i>Jameka Hill, Director, Patient Engagement and Trial Diversity</i>
<i>Global health strategy</i>	<i>Hamilton Bennett, Senior Director, Vaccine Access & Partnerships</i>
Culture & employees	<i>Tracey Franklin, Chief Human Resources Officer</i>
Communities	<i>Katherine O'Malley, Executive Director, Internal Communications and Employee Engagement</i>
Coffee break	
Environment	<i>Deborah Donovan, Senior Vice President, Environmental, Health & Safety, Technical Development and Manufacturing</i>
Governance and ethics	<i>Shannon Thyme Klinger, Chief Legal Officer, President Moderna Charitable Foundation</i>
Conclusion	<i>Stéphane Bancel, Chief Executive Officer</i>
Q&A	



Environment

Deborah Donovan

*Senior Vice President, Environmental,
Health & Safety, Technical
Development & Manufacturing*



Human activity has a clear and visible impact on atmospheric conditions



The India Gate war memorial in New Delhi, India, on October 17, 2019. Anushree Fadnavis/Adnan Abidi/Reuters



The India Gate war memorial in New Delhi, India, on April 8, 2020, after a 21-day nationwide lockdown. Anushree Fadnavis/Adnan Abidi/Reuters

Climate change is increasingly affecting the foundations of human health

The 2022 report of the Lancet Countdown on health and climate change: health at the mercy of fossil fuels



68% heat-related deaths increase between 2000–04 and 2017–21

470b potential labor hours lost due to heat exposure globally in 2021

98m more people reporting food insecurity in 2020 than annually in 1981-2010

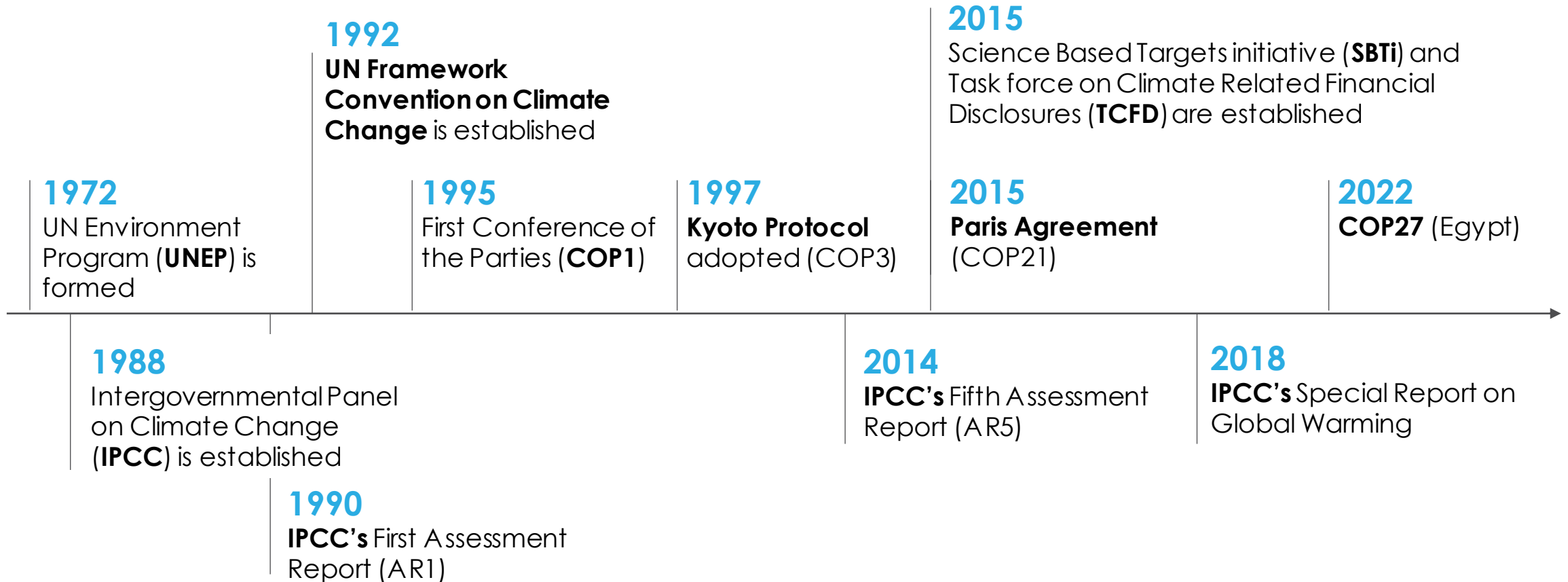
\$253b damage worth in 2021 caused by extreme weather events

~31% months suitable for malaria increased Americas, 13.8% in Africa

12% likelihood increase of dengue transmission from 1951-60 to 2012-21

[https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(22\)01540-9/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(22)01540-9/fulltext)

Climate policy developments over time



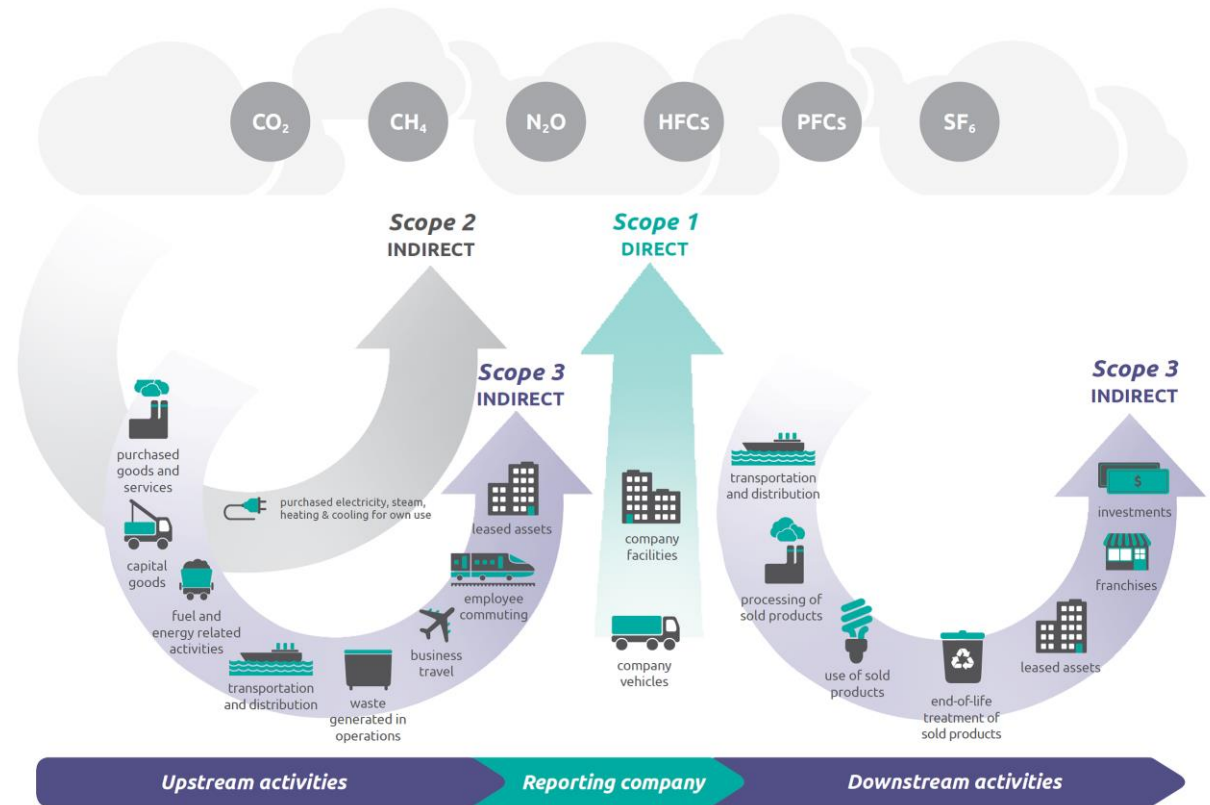
We follow the Greenhouse Gas Protocol Standards for development of our emissions inventory

GHG from human activities (e.g., CO₂, CH₄, N₂O, HCFs, etc.) are accounted for in three “scopes”

Scope 1 Direct emissions from owned or controlled sources (e.g., fossil fuels usage)

Scope 2 Indirect emissions from the generation of purchased energy (e.g., purchased electricity)

Scope 3 Indirect emissions that occur in the value chain (not included in Scopes 1 & 2)



Greenhouse Gas (GHG) Protocol



I We understand the urgency to limit global warming to 1.5°C



Moderna is committed to achieve **net-zero** carbon emissions in our global operations (Scopes 1 & 2) **by 2030**

For **Scope 3**, Moderna is committed to defining a near-term science-based target and evaluating a long-term target



We are joining companies taking action to halve carbon emissions

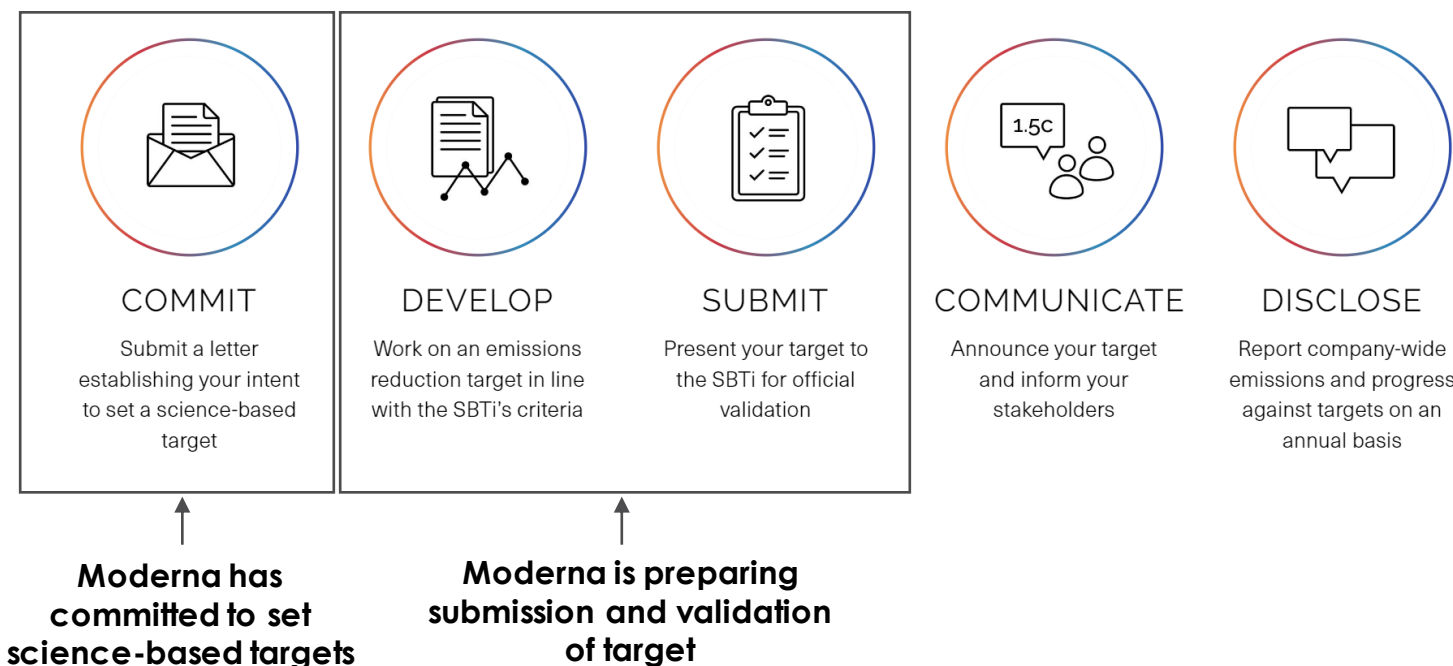


The Science Based Targets initiative (SBTi) drives ambitious climate action in the private sector by enabling organizations to set science-based emissions reduction targets.

In partnership with:



How it works:



<https://sciencebasedtargets.org/>

As we scale our company, we are committed to protecting the planet

Environmental Sustainability Strategy



Sustainability by Design

- **LEED** design in new sites and buildings



Natural Resource Conservation

- **Net-zero** carbon emissions in global operations (Scopes 1 & 2) by 2030



Decarbonize Value Chain

- **Partner** with suppliers to reduce Scope 3 carbon emissions

Current focus areas:

Building a new HQ and R&D operations low-carbon building in Cambridge

**LEED Platinum
Core & Shell** and
LEED Zero Energy

92% reduction
in fossil fuel use

100% of building energy
consumption offset by on- and off-
site renewable energy

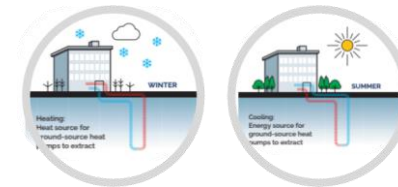


RENEWABLE ELECTRICITY

Solar Array

GEOHERMAL SYSTEM

Fossil Fuel Reduction for Heating/Cooling



CLIMATE RESILIENCE

Stormwater Capture System



Source: <https://www.are.com/cr/AREESG2021.pdf>

I Taking first steps in our journey

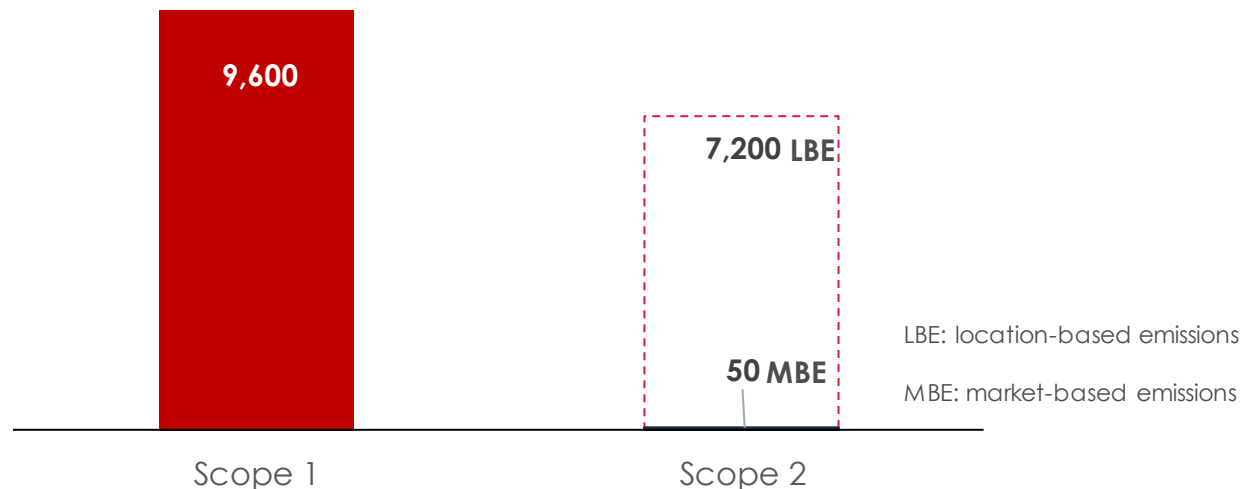


Natural Resource Conservation



Established 2021 base year emissions for Scopes 1 & 2
(3rd party data assurance pending)

2021 CO2e Emissions (metric tons)



Covered 100% of U.S. operations with Green-e Certified renewable electricity certificates in 2021

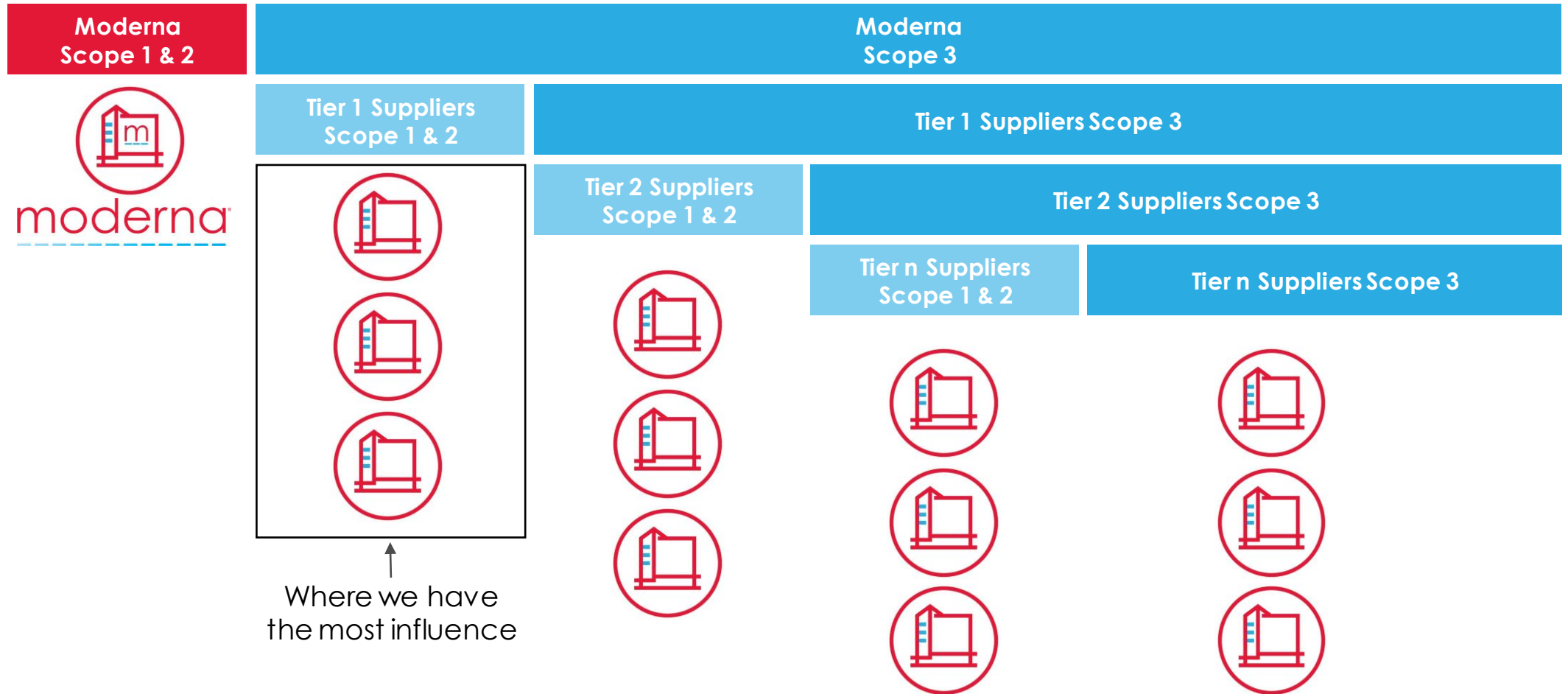


Continued efforts to improve natural resource conservation



Committed to define science-based carbon reduction targets

Similar to peers in pharma and biotech, Scope 3 accounts for more than 90% of our carbon emissions



Already taking steps to understand the carbon footprint of our value chain



Decarbonize Value Chain



Established 2021 GHG Scope 3 Baseline, pending third party verification



Committed to define near-term science-based target and evaluate long-term Scope 3 target



100% subsidized green transportation across our campuses in the U.S.



Piloting biofuel and Sustainable Aviation Fuel to reduce CO2 emissions in transportation and distribution

I Already seeking solutions to decarbonize value chain

HVO Pilot with Kuehne+Nagel

3,700 KM (2,300 mi) round trip

One fuel-up with **HVO**

Mission to reduce CO₂ by **90%**



What is Hydrotreated Vegetable Oil (HVO) fuel?

High quality **diesel fuel** made from renewable, sustainable raw materials, e.g., food waste. It is biodegradable and non-toxic.



I We will continue our journey and focus on key milestones



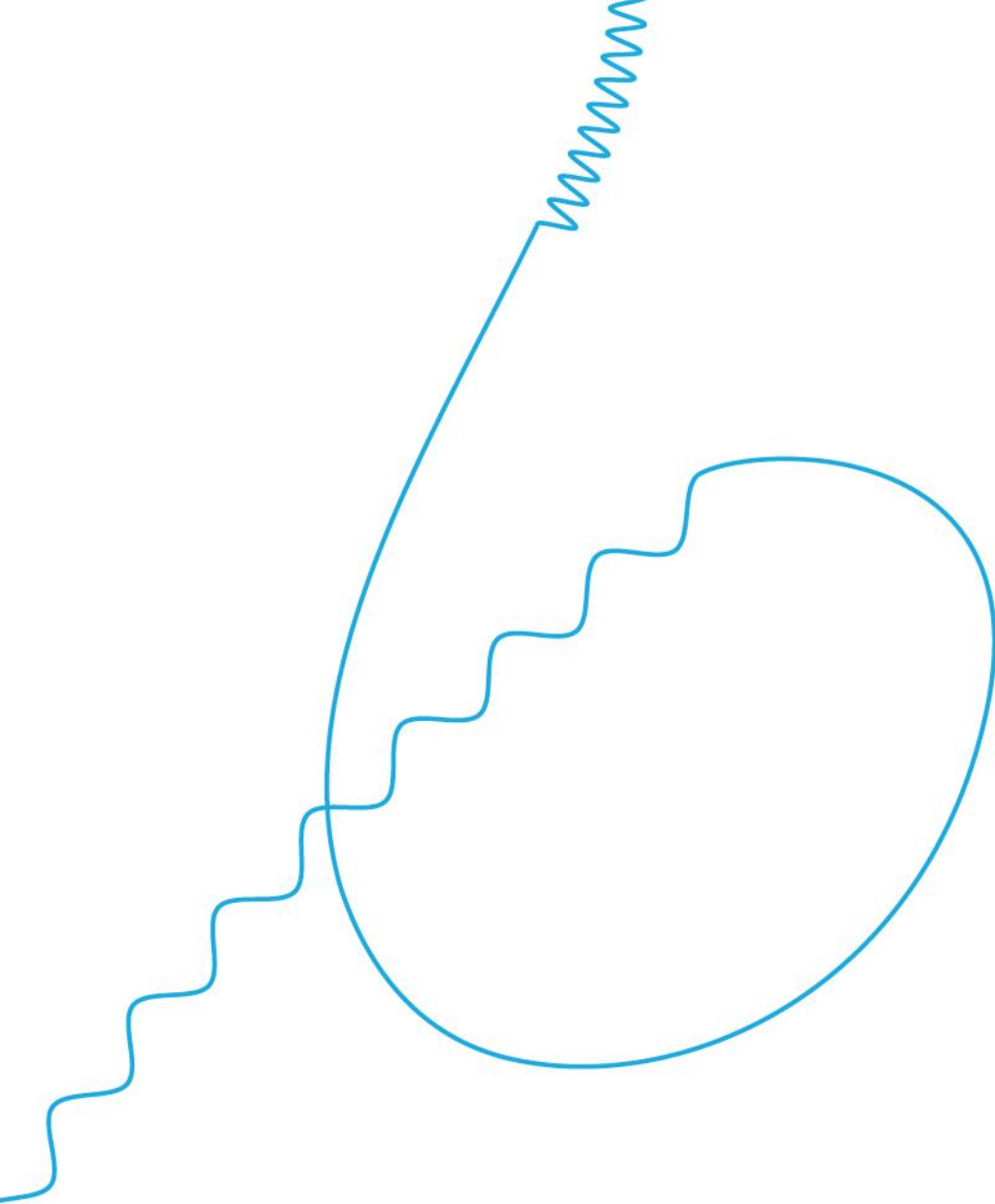
Complete climate risk scenario analysis



Submit science-based targets for official validation by SBTi



Intention to report to CDP and align with TCFD recommendations



Governance & Ethics

Shannon Thyme Klinger

Chief Legal Officer & Corporate Secretary



Board of Directors – Current Composition



Noubar Afeyan, PhD

Co-founder and Chairman, Moderna; CEO, Flagship Pioneering

Committees: Nom Gov (Chair), Product



Sandra Horning, MD

Co-Founder and Advisor, EQRx; Former Chief Medical Officer of Genentech/Roche

Committees: Product (Chair)



Elizabeth (Betsy) Nabel, M.D.

Executive Vice President for Strategy at ModeX Therapeutics; former President of Brigham Health

Committees: Nom Gov, Product



Stéphane Bancel

Chief Executive Officer, Moderna; Former CEO at bioMérieux, managing director at Eli Lilly



Robert Langer, ScD

Academic Co-Founder, Moderna; David H. Koch Institute Professor, MIT

Committees: Nom Gov



Paul Sagan

Senior Advisor and Executive in Residence, General Catalyst; Former CEO, Akamai

Committees: Audit, Nom Gov



Stephen Berenson

Managing Partner, Flagship Pioneering; Former Vice Chairman of JP Morgan Investment Bank

Committees: Audit, Comp (Chair)



François Nader, MD

Former President, CEO and Executive Director, NPS Pharmaceuticals

Committees: Comp, Product



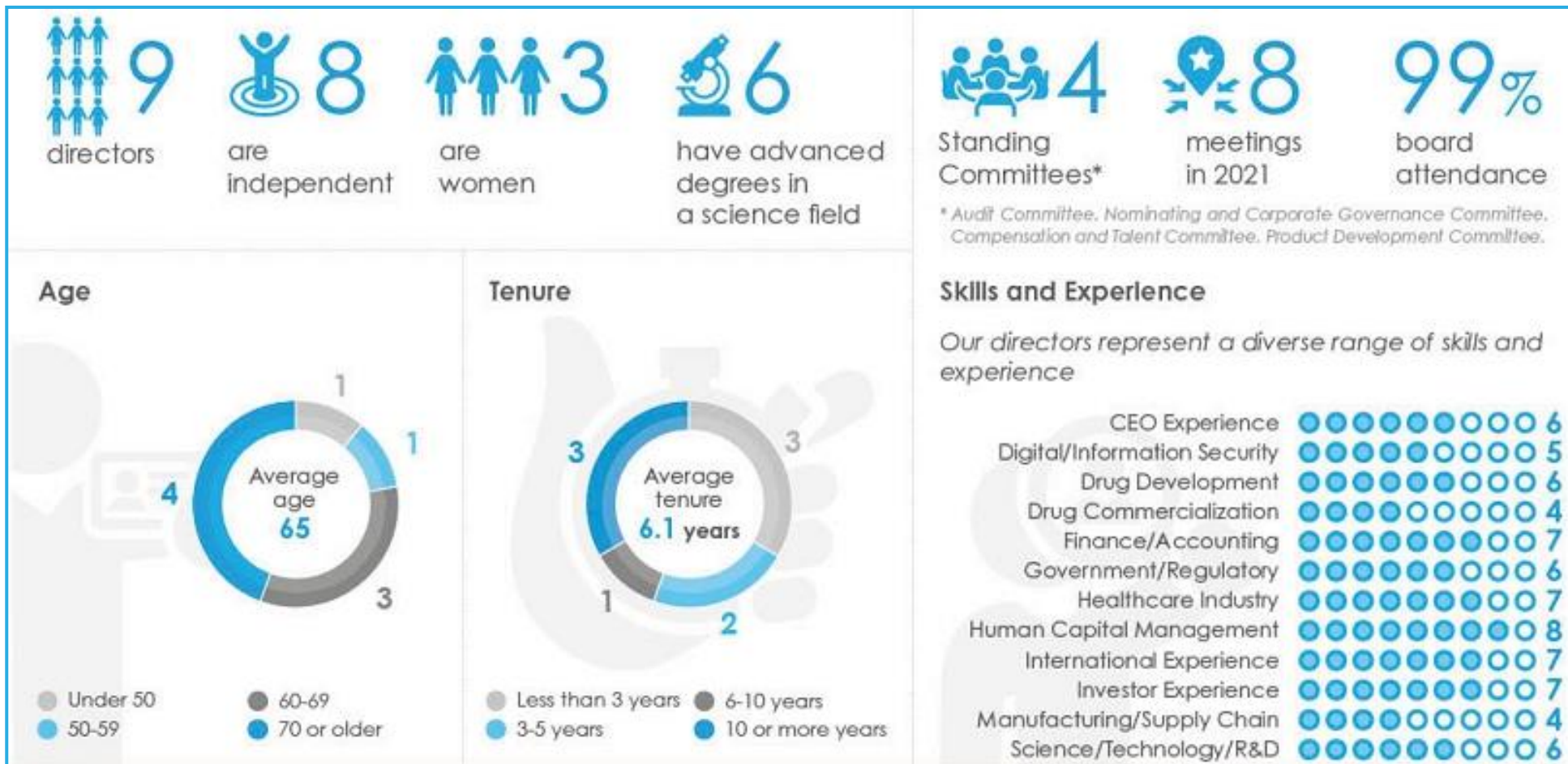
Elizabeth Tallett

Former Principal, Hunter Partners; Former President and CEO, Transcell Technologies

Committees: Audit (Chair), Comp

I 2022 Board Highlights

From 2021 Proxy Statement



ESG oversight starts with the Board and Committees

Board Committees ESG oversight:

Audit Committee	Compensation and Talent Committee	Nominating and Corporate Governance Committee	Product Development Committee
 <ul style="list-style-type: none">• Risk Assessment & Management• Internal audit and compliance functions• Cybersecurity	 <ul style="list-style-type: none">• Human Capital Management• Belonging, Inclusion and Diversity strategy	 <ul style="list-style-type: none">• ESG strategy and metrics• Climate-related risks and opportunities• Political engagement and disclosure• Moderna Charitable Foundation	 <ul style="list-style-type: none">• Clinical trial design, incl. diversity• Product quality & safety

Recent Board oversight of ESG initiatives

- Access initiatives, Moderna's patent pledge, facilitation of dose donations from countries with excess supply
- Net-zero carbon emissions commitment (Scopes 1 & 2) by 2030
- Moderna Charitable Foundation, initial endowment of \$50 million

Moderna continues to embed accountability for ESG throughout the organization

ESG accountability at Executive Committee level:



Overseeing additional elements of ESG initiatives

- Shannon Klinger, Chief Legal Officer leads Moderna's ESG strategy
- Juan Andres / Jerh Collins, Chief Technical Operations & Quality Officer leads carbon reduction efforts
- Arpa Garay, Chief Commercial Officer oversees access initiatives
- Tracey Franklin, Chief Human Resources Officer oversee human capital initiatives
- Stephen Hoge, President oversees clinical trials, including diversity efforts in clinical trials

Annual bonus program builds in ESG metrics



- Human capital ESG metrics in 2021 & 2022, focused on belonging and engagement
- Vaccine availability in low- and middle-income countries metric in 2022

ESG is embedded in our Corporate strategic objectives

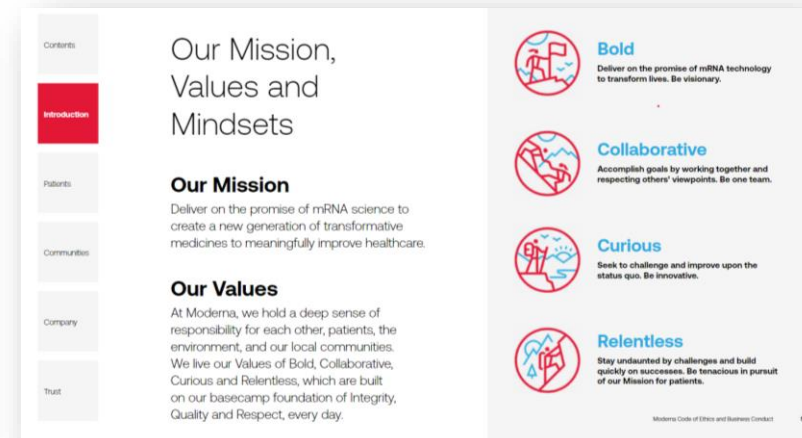
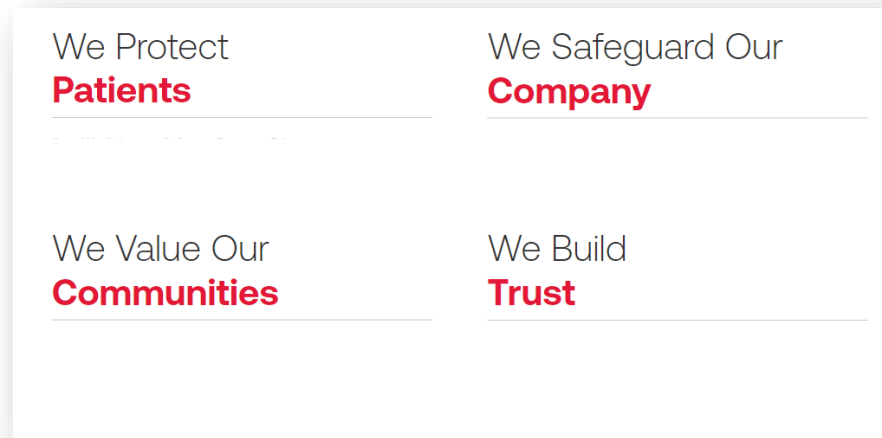


“Act responsibly toward our patients, employees and communities” objective in 2022

I Evolving our Compliance policies, aligned with our values

Moderna's **Code of Ethics & Business Conduct** is our guide for ethical decision making – doing the right thing, the right way, every day!

Effective **January 1, 2023**, Moderna's reimagined, principles-based Code of Ethics & Business Conduct:



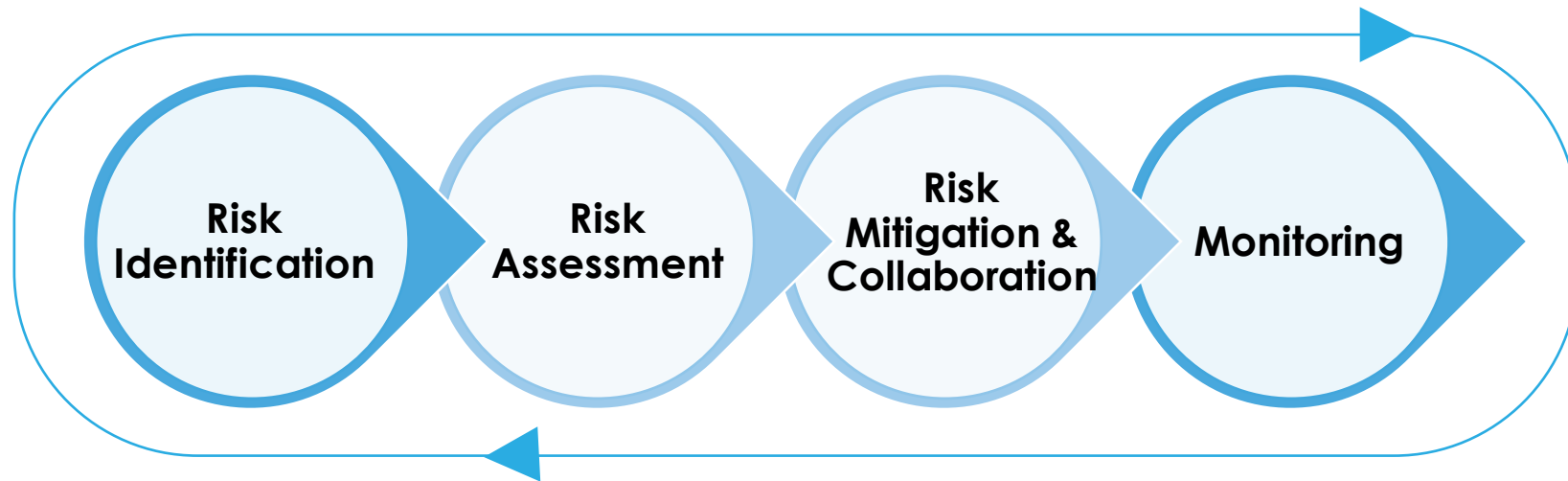
#LivingOurCode campaign was launched October 2022, to familiarize employees with our reimagined Code

I Building a supply chain that reflects our values

Starting our journey by increasing transparency across our supply chain

2022-2023 Building Program Foundations

- Implemented **Third Party Code of Business Conduct*** outlining our expectations of suppliers
- Launching **Sustainable & Responsible Procurement** program & assessment of key suppliers
- Adding contractual clauses in key supplier agreements
- Speak Up Hotline available for individuals to voice concerns or questions
- Published **UK Modern Slavery Act Statement 2021**



Commitment to transparency since the beginning of our journey

Key highlights 2021 / 2022

Published first 2021 ESG Report



Published SASB Index

SASB Index			
The Sustainability Accounting Standards Board (SASB) Foundation was founded in 2011 as a not-for-profit, independent standards setting organization. SASB standards are designed to enable communications on corporate performance on industry-level sustainability issues in a cost-effective and decision-useful manner using existing disclosure and reporting mechanisms.			
As we continue to progress in our corporate social responsibility and ESG journey, we will refer to widely recognized standards to improve our disclosures of environmental, social and governance impacts, and to show how we create value over the long term. We are presenting our disclosures within the SASB framework below for the first time, which is designed for the biotechnology & pharmaceuticals industry, and include references to sections in the report or other filings we have made with the U.S. Securities and Exchange Commission. We will continue to expand upon our ability to share metrics according to the standard and expand our use of other recognized frameworks that will allow us to report on our activities to relevant stakeholders.			
Topic	SASB Code	Accounting Metric Description	Disclosure Reference
Safety of Clinical Trial Participants	HC-SP-210a.1	Discussions by management of management practices for ensuring quality and patient safety during clinical trials	Page 27, Governance and ethics
	HC-SP-210a.2	Number of FDA adverse events reported to clinical trial management and pharmacovigilance that resulted in (1) voluntary Action Indicated (AI) and (2) Official Action Indicated (OAI)	None in 2021. We report material regulatory issues in our annual 10K filing.
	HC-SP-210a.3	Total amount of monetary losses as a result of legal proceedings associated with clinical trials in developing countries	None. In 2021, we were not a party to any material legal proceedings.
Access to Medicines	HC-SP-240a.1	Description of actions and initiatives to promote access to health care products for priority diseases and in priority countries as defined by the Access to Medicine Index	Page 29, Initiatives for Patients
	HC-SP-240a.2	List of products on the WHO List of Prequalified Medicinal Products as part of its Prequalification of Medicines Programme (PPM)	None
Affordability & Pricing	HC-SP-240b.1	Number of settlements of Abbreviated New Drug Application (ANDA) litigation that involved payments or price concessions to delay bringing an authorized generic product to market for a defined time period	None in 2021.
	HC-SP-240b.2	Percentage change in (1) average list price and (2) average net price across U.S. product portfolio compared to previous year	N/A
	HC-SP-240b.3	Percentage change in (1) list price and (2) net price of product with largest increase compared to previous year	N/A

Increased disclosure of ESG data and journey



2021 U.S. EEO-1 report
(U.S. workforce diversity)



Published GHG 2021 Scopes 1 & 2 data (verification pending)



Trade association disclosure
– No giving to political campaigns

Next steps in our journey



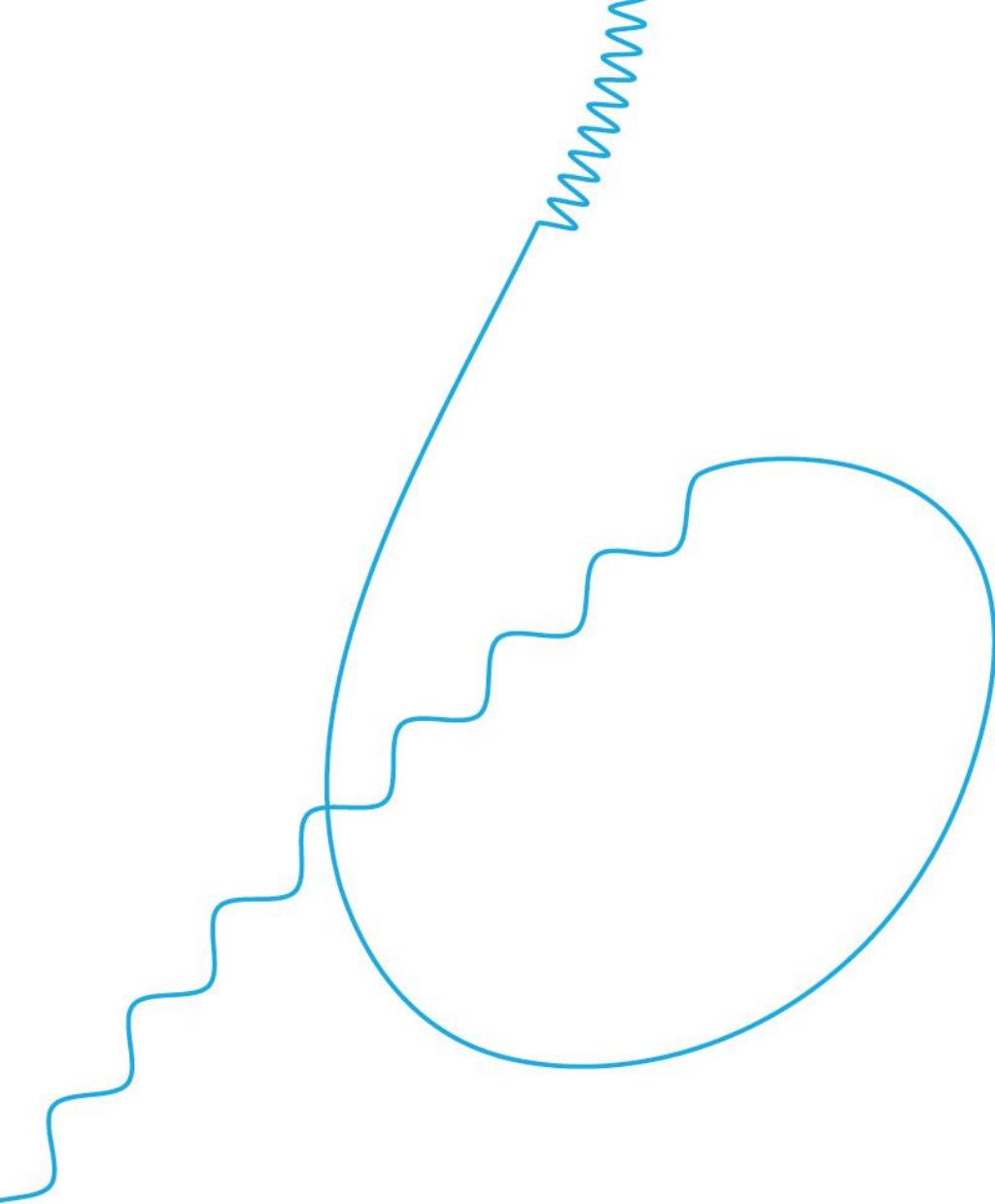
Continue to engage with stakeholders



Continue to monitor ESG reporting and disclosure landscape



Assessing additional ESG reporting frameworks



Concluding Remarks

Stéphane Bancel

Chief Executive Officer



We believe our ESG journey will help Moderna become one of the most impactful companies

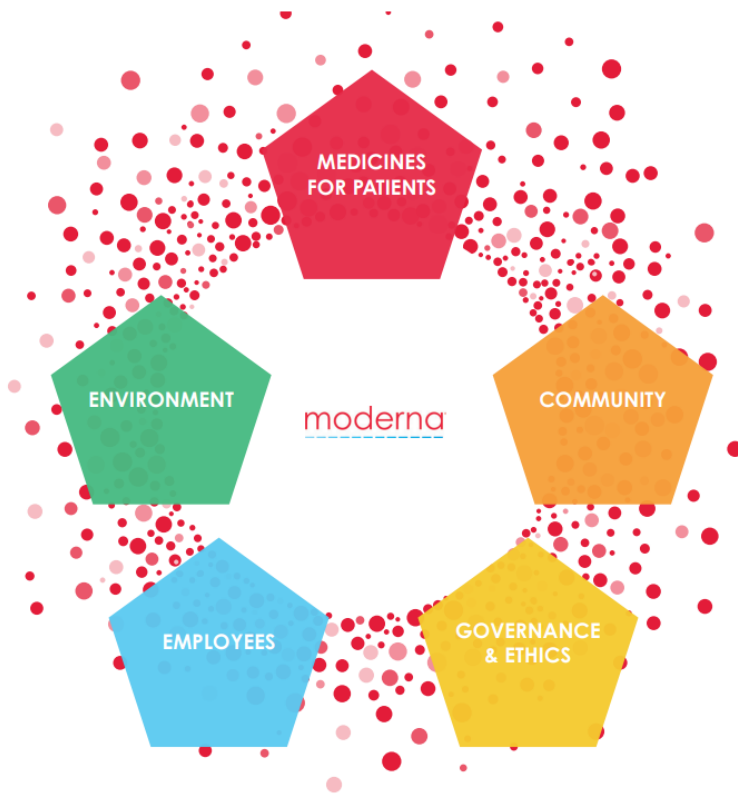
With the potential of **our science** comes a **responsibility to the multitude of patients** our technology could help

We have a responsibility **to our employees to provide fulfilling, purposeful careers**, and that our employees are rewarded for their dedication

We can and should **use our expertise and resources** to **give back to the communities** in which we operate

We have a responsibility to do our part to **ensure the sustainability of our planet**, and we will consider our impact on the environment in the decisions that we make

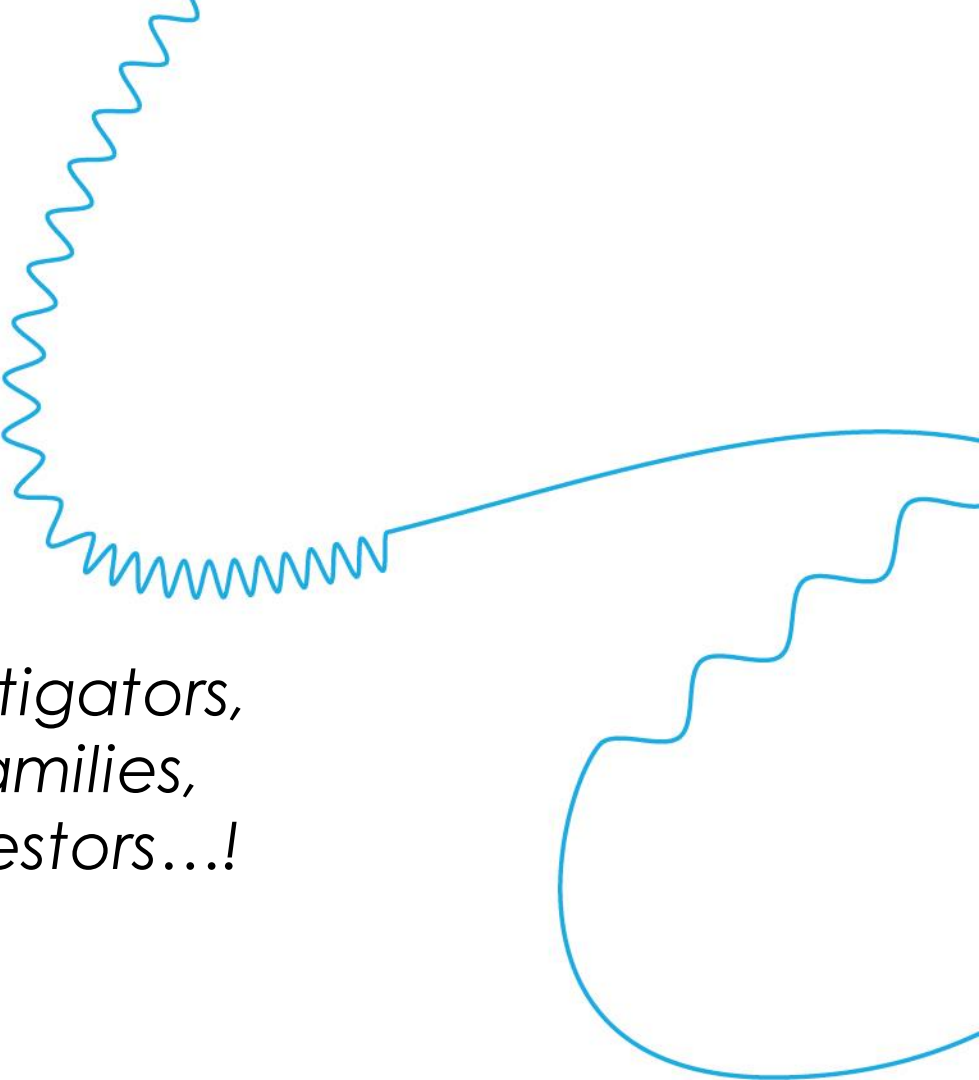
We must hold ourselves to **high ethical standards across all areas of our business** and with our stakeholders—both internal and external—while **ensuring we have the governance and practices** in place to meet these standards





Thank you

*Collaborators, investigators,
patients and their families,
employees and investors...!*



moderna®

