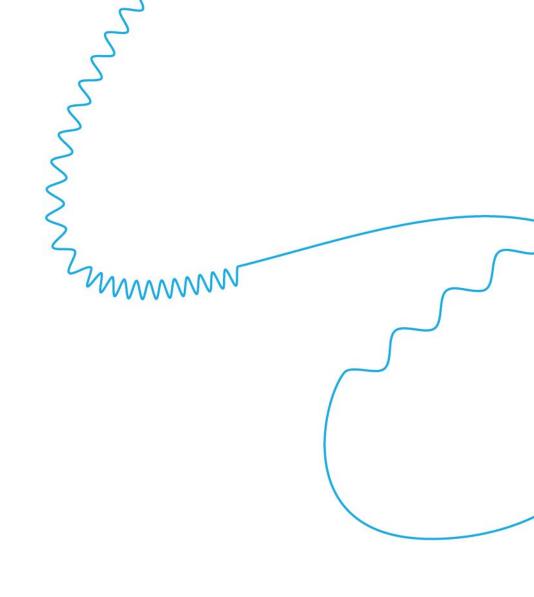
## **ESG DAY 2023**

December 7, 2023





## Forward-Looking Statement 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 potential for Moderna to launch up to 15 products in the next five years, including several respiratory vaccine launches by 2025; Moderna's ability to leverage its mRNA platform for pandemic readiness and to prepare for Disease X; Moderna's commitment to achieving netzero carbon emissions in its global operations for Scopes 1 and 2 by 2030 and to defining a near-term science-based target and evaluating a long-term target for Scope 3; the potential of Moderna's mRNA platform for addressing rare diseases; Moderna's ability to enroll and retain diverse participants in its clinical trials; Moderna's implementation of its climate and environmental initiatives; and Moderna's efforts to embed sustainability across its supply-chain. 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 forwardlooking 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, 2022, 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.



## Introduction

Stéphane Bancel

Chief Executive Officer

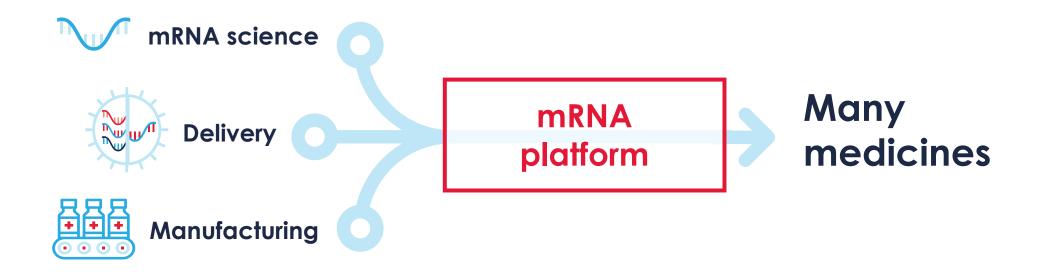


## Our mission

Deliver the greatest possible impact to people through mRNA medicines.



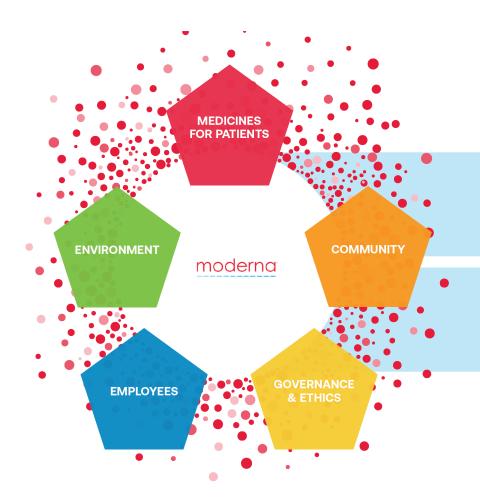
## Investing in a platform to deliver on the promise of mRNA



Our platform incorporates the advancements and inventions we've made and continue to make in mRNA science, delivery technologies and manufacturing processes



## Moderna's ESG framework is critical to deliver on our mission



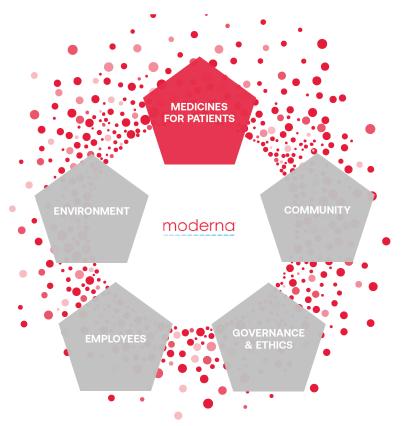
Create sustainable long-term value for our stakeholders

Understand and manage **ESG** risks and opportunities

Deliver the greatest possible impact to people through mRNA medicines.

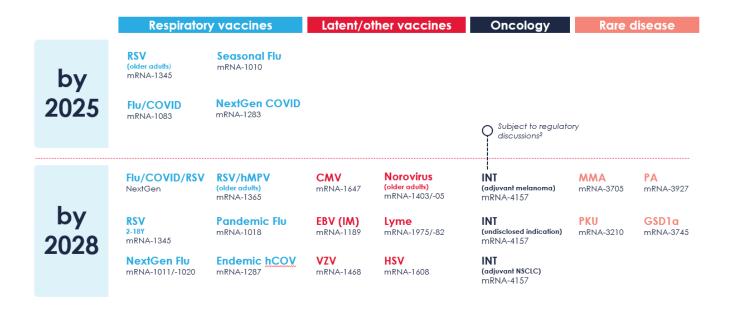


# We believe that Moderna's mRNA platform has the ability to meet many unmet medical needs



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

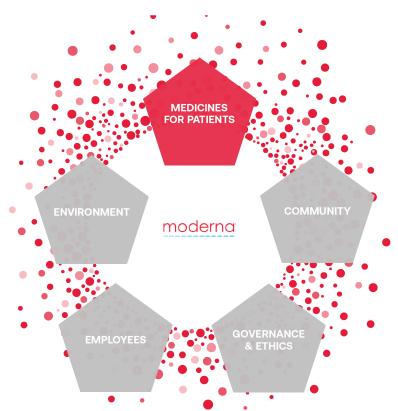
We are beginning to deliver great impact with our mRNA medicines. Anticipating up to 15 launches in the next 5 years<sup>1</sup>



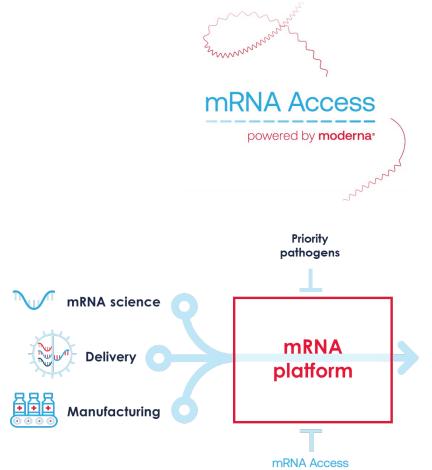
- 1. Subject to positive clinical data and regulatory discussions/approvals.
- 2. Subject to future regulatory discussions, there may be potential for accelerated approval in some markets.



## Leveraging our mRNA platform for pandemic readiness



The world needs novel, innovative approaches to address both known and emerging infectious diseases and we know that we can't do it alone



### Disease X

Named by the WHO, "Disease X" represents the knowledge that a serious international epidemic could be caused by a pathogen currently unknown to cause human disease



# We are committed to building Moderna in a way that minimizes our impact on the environment





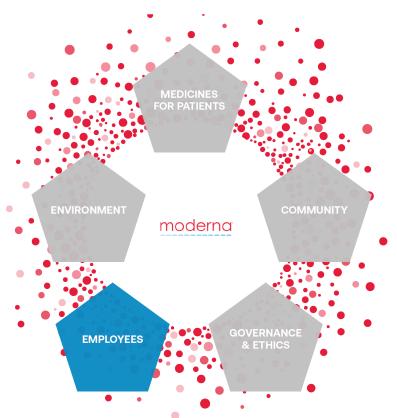
Moderna is committed to achieving net-zero carbon emissions in our global operations for Scopes 1 and 2 by 2030



Moderna is committed to defining a nearterm science-based target and evaluating a long-term target for Scope 3



## Moderna seeks to attract and retain the best talent



We give our people a platform to change medicine and an opportunity to change the world

### Building an innovative People Platform for our employees



### Being recognized as a great place to work



3<sup>rd</sup> consecutive year #1 large employer in BioSpace's Best Places to Work



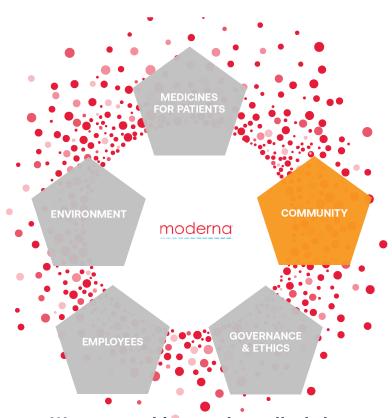
9<sup>th</sup> consecutive year ranked as one of the top employers by Science Careers



1st year recognized as Great Place to Work



# Committed to having a positive impact on communities around the world

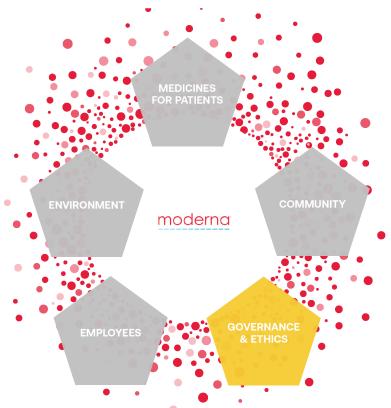


We are seeking partners that share our commitments to improving human health and closing opportunity gaps in our communities





## **Building Moderna in the right way**



Our continuous focus on quality, transparency, and ethical behavior is critical to building and maintaining trust with all our stakeholders

### ESG accountability at Board and Executive **Committee level**



## Continuing our journey to increase transparency and ESG reporting









## **ESG** Day agenda

Welcome and Intro	Stéphane Bancel, Chief Executive Officer					
Medicines for patients	Kyle Holen, M.D., Head of Development, Therapeutics and Oncology					
	Jameka Hill, Senior Director, Patient Engagement & Clinical Trial Health Equity					
	Hamilton Bennett, Senior Director, Vaccine Access & Partnerships					
	Guest speaker: Teresa Lambe, PhD, FRSB, OBE Calleva Head of Vaccine Immunology and Professor of Vaccinology & Immunology and PSI Investigator, University of Oxford					
Environment	Deborah Donovan, Senior Vice President, Environmental, Health & Safety					
Employees	Tracey Franklin, Chief Human Resources Officer					
Communities	Katherine O'Malley, Executive Director, Internal Communications and Employee Engagement					
Governance & Ethics	Shannon Klinger, Chief Legal Officer and President, Moderna Charitable Foundation					
Conclusion	Stéphane Bancel, Chief Executive Officer					
General Q&A	Stéphane Bancel, Kyle Holen, Hamilton Bennett, Deborah Donovan, Tracey Franklin, and Shannon Klinger					



# Medicines for patients

Kyle Holen, M.D.

SVP, Head of Development, Therapeutics and Oncology, Research & Development



## We leverage our mRNA platform to create modalities





### **Proof-of-concept**

- COVID
- RSV
- Flu



### **Proof-of-concept**

 INT in adjuvant melanoma



Rare disease intracellular therapies

### **Proof-of-concept**

- PA
- MMA
- •GSD1a



## Our pipeline demonstrates Moderna's potential impact across many diseases

			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-1083	Flu + COVID					
	mRNA-1020/-1030	Seasonal Flu (HA+NA)					
	mRNA-1345	RSV (pediatrics)					
	mRNA-1230	Flu + COVID + RSV					
	mRNA-1045	RSV + Flu					
	mRNA-1011/-1012	Seasonal Flu (HA)					
	mRNA-1018	Pandemic Flu					
	mRNA-1287	Endemic HCoV					
	mRNA-1365	RSV + hMPV					
Latent and other	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					
	mRNA-1403/-1405	Norovirus					
	mRNA-1975/-1982	Lyme					
	mRNA-1769	Мрох					
Rare Disease	mRNA-3927	PA					
	mRNA-3705	MMA					
	mRNA-3745	GSD1a					
	mRNA-3692	CFTR (Vertex)					
	mRNA-3351	CN-1					
	mRNA-3602	PKU					
	mRNA-3139	OTC					
Oncology	mRNA-4157	INT (Merck)					
	mRNA-5671	KRAS					
	mRNA-2752	Triplet					
	mRNA-4359	Checkpoint Vaccine					
Autoimmune	mRNA-6981	PD-L1					
Cardiovascular	mRNA-0184	Relaxin					



## Rare diseases are not rare

## How many people have rare diseases?

Rare diseases may be inherited, which means they are passed down through families. They often affect children early in life.

Rare diseases each affect less than 200,000 people in the US.¹ But, taken together, rare diseases are not actually rare:



## ~1 in 10 people

in the US are living with a type of rare disease, including rare cancers<sup>1</sup>



3.5-5.9%

of the world's population has a rare disease<sup>2</sup>



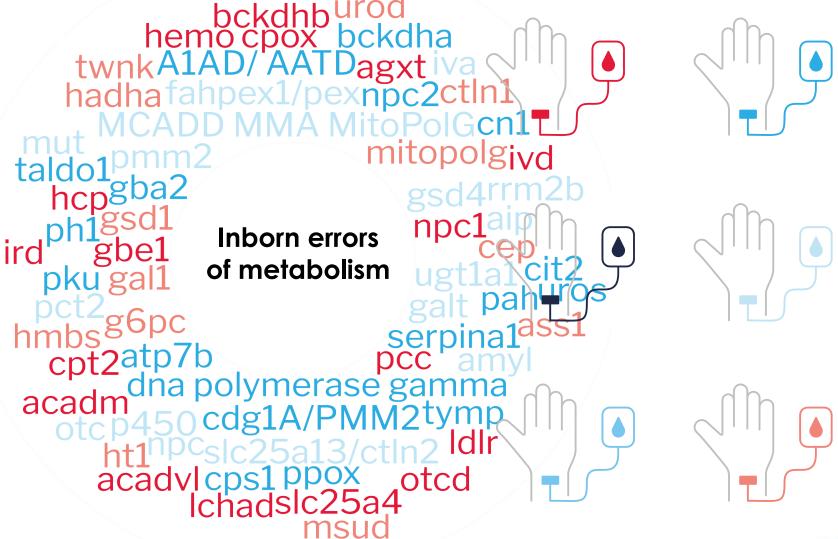
## 263-446 million

people worldwide, at any given time, are living with a rare disease<sup>2</sup>



<sup>1.</sup>https://rarediseases.org/wp-content/uploads/2019/01/RDD-FAQ-2019.pdf 2.https://www.nature.com/articles/s41431-019-0508-0

# The challenge: There are many rare diseases and each disease requires a unique therapy



# Moderna's mRNA platform is positioned to address the therapeutic and regulatory challenge



Engaging with global regulators with innovative approaches to approval leveraging platform data

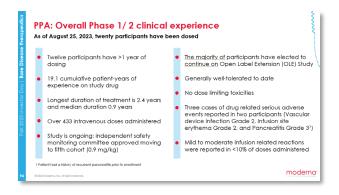


## We've seen proof of concept across our rare disease programs

We expect to have significant impact across many rare diseases

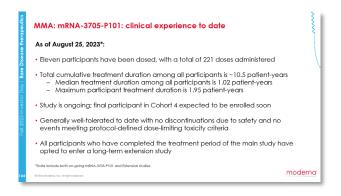


### Propionic acidemia (PA)



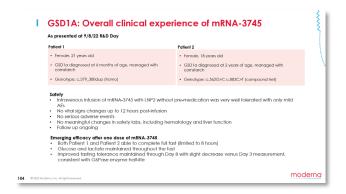


### Methylmalonic acidemia (MMA)





### Glycogen storage disease (GSD1a)





# We are inspired by the impact that we can have on patients and their families



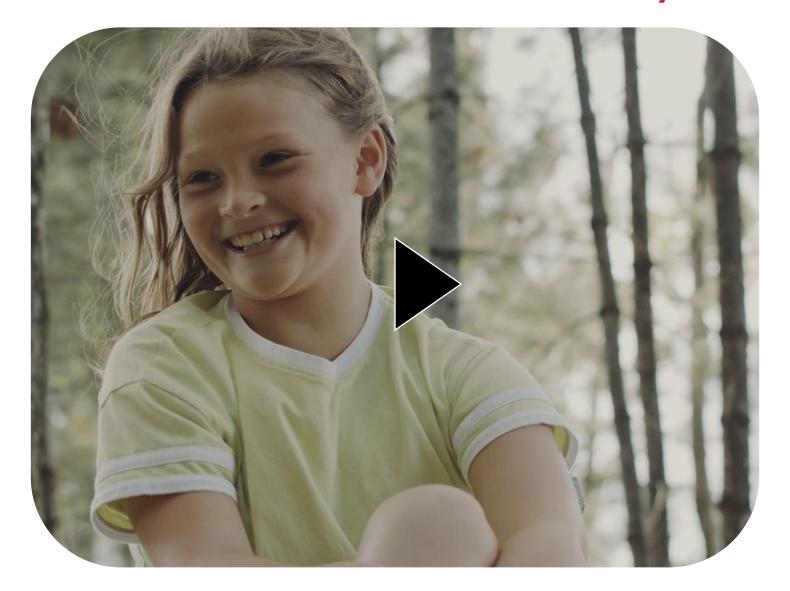


## **Future**

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irdMore than 10 makendine use programs in
  research that rate priveeding to IN
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## Rare disease Voice of the Patient: Jordan's story





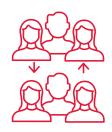
## Inclusive Research

## Jameka Hill

Senior Director, Patient Engagement & Clinical Trial Health Equity



## 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:

of the sample population are from 37% Global Ethnic Majority (GEM) groups

50% female assigned at birth

Balance across age cohorts

Moderna is engaging clinical trial sites in 32 countries to address health inequalities and disparities on a global scale



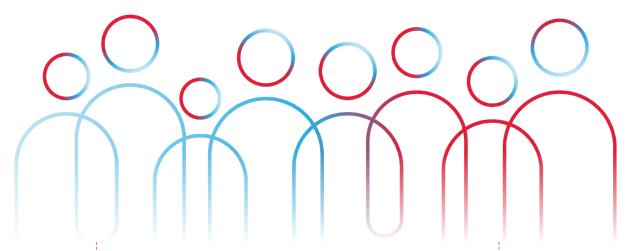
1. GEM = "Global majority" is a collective term for non-white people of African, Asian, Latin American, and Arab descent, who constitute approximately 85 percent of the global population.



## Mod A comm

## Moderna persistently advances inclusive research

A committed approach towards offering equal healthcare accessibility to all groups is achievable and necessary



### **Ethnicity**

38%

Moderna average

Global Ethnic Majority (GEM) enrollment across 37 infectious disease trials in U.S.<sup>1</sup>

Sex

**52%** 

Moderna average

Female enrollment across 36 infectious disease trials in U.S.<sup>2</sup>

Age

39%

Moderna average

65+ enrollment across 24 infectious disease trials; only inclusive of trials that enroll 65+ year old participants in U.S.

Data as of 17 November 2023.

1.Industry average for U.S. Global Ethnicity Majority enrollment is approximately 22% Flores LE, Frontera WR, Andrasik MP, et al. Assessment of the Inclusion of Racial/Ethnic Minority, Female, and Older Individuals in Vaccine Clinical Trials. JAMA Netw Open. 2021;4(2):e2037640. doi:10.1001/jamanetworkopen.2020.37640, available at <a href="https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2776562">https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2776562</a>
2. Excluded one 100% female trial



# By focusing on awareness, access, and flexibility, we make clinical trials more inclusive

Driving strategy and managing initiatives to build trust and ensure traditionally underrepresented groups can be better engaged in our trials

Embedding the importance of diversity in clinical trials into our company's culture

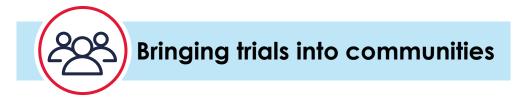
Establishing demographic objectives and diversity plans for each trial

Selecting trial sites with inclusion in mind

Developing outreach and education tailored to specific populations

Leveraging dashboard and metrics to measure performance and provide transparency











Moderna aims to be inclusive for people in all communities with our clinical trial branding and outreach strategies

### **Build awareness and trust**

Educate about clinical trials through programs and community partnerships

### Support health literacy and languages

Offer materials, consent forms, and trial support in native languages to improve understanding about trial expectations

## **Engage and foster community** relationships

Partner with community leaders and diverse clinical trial sites to provide culturally competent support







## Bringing trials into communities

Increasing accessibility requires novel solutions







### Pharmacies & community clinics

Local pharmacies and community clinics provide space and resources for running clinical trials

### Mobile units

Mobile health units to bring trials directly to participants

### Pop-up clinics

Temporary clinics in accessible community spaces support trial awareness, education

By building strong partnerships and meeting patients where they are, we are able to dramatically increase participation from underserved communities



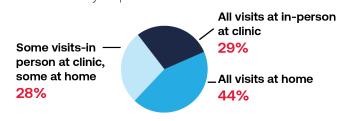
## **Providing options**

We are offering flexible trial visit options because no single solution works for everyone

### **Everyone is different**

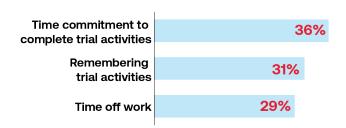
### Visit location preference

If you could choose the location of clinical trial visits, which would you prefer?



### Challenges

What would be the top 3 challenges for enrolling your child and participating in a clinical trial?



### Solutions offer choice

### Home visits

Let participants choose to have a study visit at home for appropriate protocol assessments

### **Telemedicine**

Support for visits when participants cannot easily travel to the trial site clinic

### Travel / Stipend / Reimbursement

Participant payments to cover appropriate reimbursements and limit out-of-pocket expenses

### Results

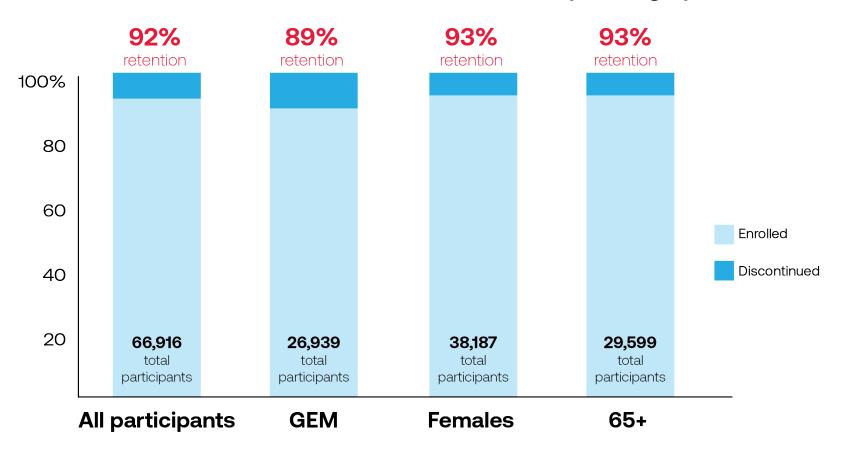


of Moderna trials in 2023 include visit optionality for at least a portion of the schedule of events



## We are enrolling and retaining diverse participants

### Infectious disease trial enrollment and retention by demographic



Discontinued = patients who have withdrawn due to withdrawn consent, or physician decision, or adverse event Enrollment and discontinuation across 28 infectious disease trials, excludes Covid-19 clinical trials



Data as of 17 November 2023

## We are increasing accessibility to potential therapies of tomorrow







Our approach to inclusive research builds confidence in our data and trust in our communities



Data we collect represent populations most at risk and likely to use our products



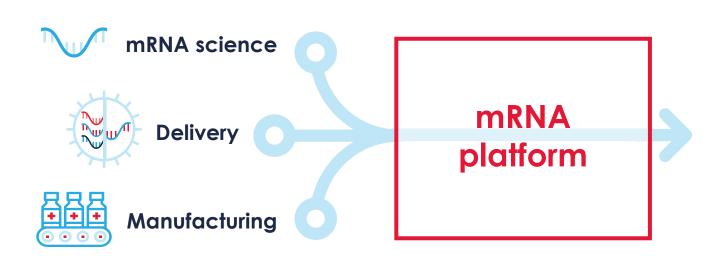
## Pandemic preparedness

## **Hamilton Bennett**

Senior Director, Vaccine Access & Partnerships



# Moderna used our platform to rapidly respond to the greatest public health threat of our time



## **COVID-19 Vaccine**

- Less than 1 year to EUA authorization
- 25% delivered to LMICs<sup>1</sup> in 2021
- Lowest tier pricing for Gavi countries
- Commitment to not enforce our patents in LMICs<sup>1</sup>

**FDA Strain selection** 

**FDA Approval** 

We demonstrated our ability to respond rapidly to new variants of concern

June 29, 2022

August 31, 2022 <sup>2</sup>

63 days

June 16, 2023

**September 11, 2023** <sup>3</sup>

87 days



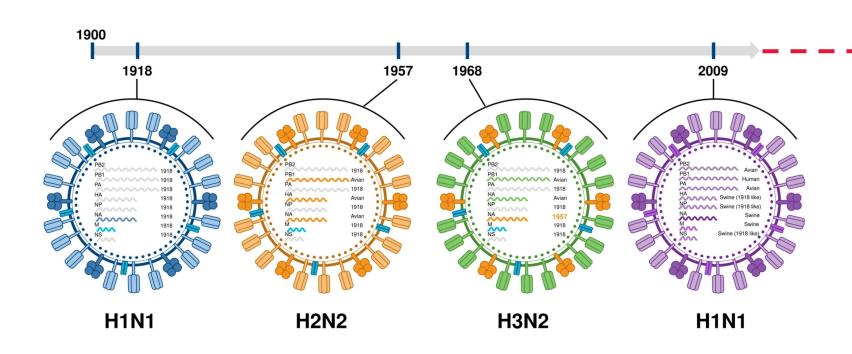
<sup>1</sup> LMICs: Low- and middle-income countrie

FDA Authorization for Emergency Use of Omicron-Targeting Bivalent COVID-19 Booster Vaccine for Adults 18 Years and Older. https://investors.modernatx.com/news/news-details/2022/Moderna-Receives FDA-Authorization-for-Emergency-Use-of-Omicron-Targeting-Bivalent-COVID-19-Booster-Vaccine-for-Adults-18-Years-and-Older/default.aspx

<sup>3.</sup> FDA approval (12+) and authorization (6m-11yrs) granted on September 11th, 2023 of XBB.1.5 monovalent vaccine. https://news.modernatx.com/news/news-details/2023/Moderna-Receives-U. Approval-for-Updated-COVID-19-Vaccine/default.aspx

## Influenza continues to be a significant pandemic threat

Influenza pandemics occur when a novel reassortant virus is introduced to the population



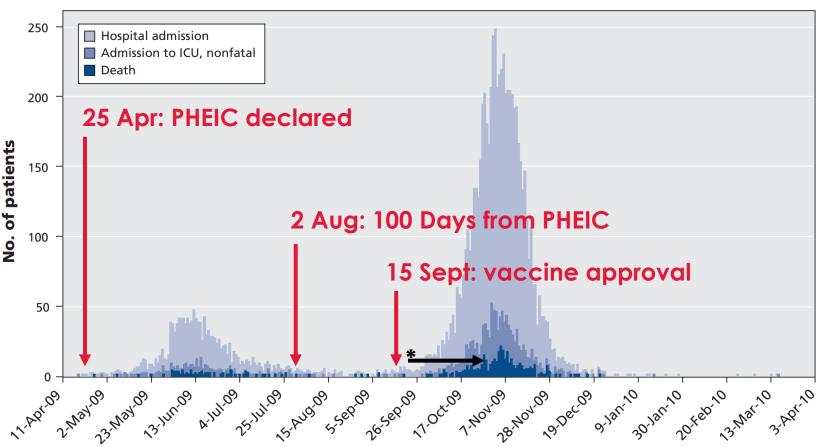
Moderna initiated a
Phase 1/2 clinical study
of mRNA-1018 against
H5 and H7

Source: https://www.nature.com/articles/s12276-021-00603-0



# A rapid response could prevent the surge of hospitalizations and deaths seen in previous pandemics

Incidence of hospital admissions and severe outcomes during the first and second waves of pandemic (H1N1) 2009 in Canada

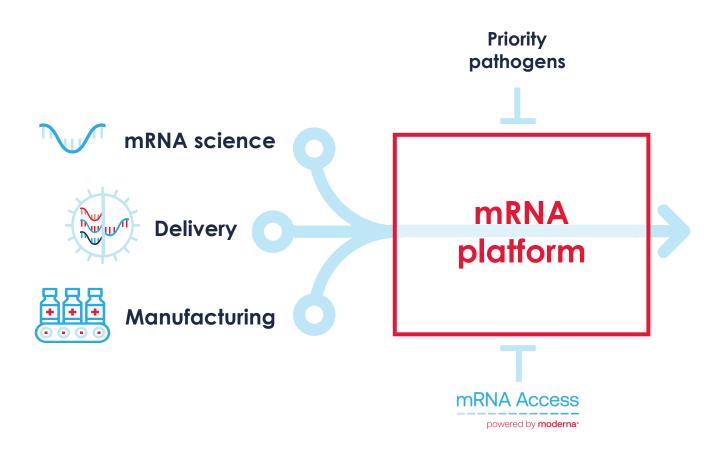


\* Lag in population immunity due to vaccine roll-out

Date of symptom onset or specimen collection



# Our Global Health portfolio will continue to explore the potential of our platform for Disease X

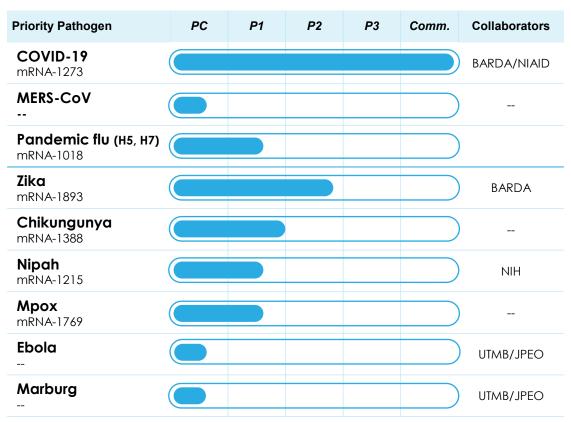


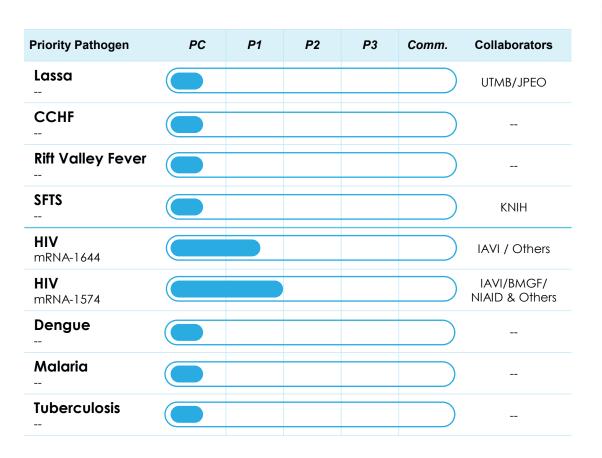
## Disease X

Named by the WHO, "Disease X" represents the knowledge that a serious international epidemic could be caused by a pathogen currently unknown to cause human disease



## Moderna is pursuing a pipeline of Priority Pathogens in readiness for Disease X





#### As of November 2023

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; BARDA, Biomedical Advanced Research and Development Authority; NIAID, National Institute of Allergy and Infectious Diseases; IAVI, International AIDS Vaccine Initiative; BMGF, Bill & Melinda Gates Foundation; NIH, National Institute of Health; UTMB, University of Texas Medical Branch; KNIH, Korea National Institute of Health. JPEO, Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense.



## mRNA Access powered by Moderna

Researchers at collaborating institutions take advantage of our mRNA platform to develop mRNA medicines, assays and animal models for emerging and neglected diseases

Promising programs can leverage Moderna's Early Development Engine to accelerate vaccine development to the clinic



## Global partner list\*

































## **Guest speaker**

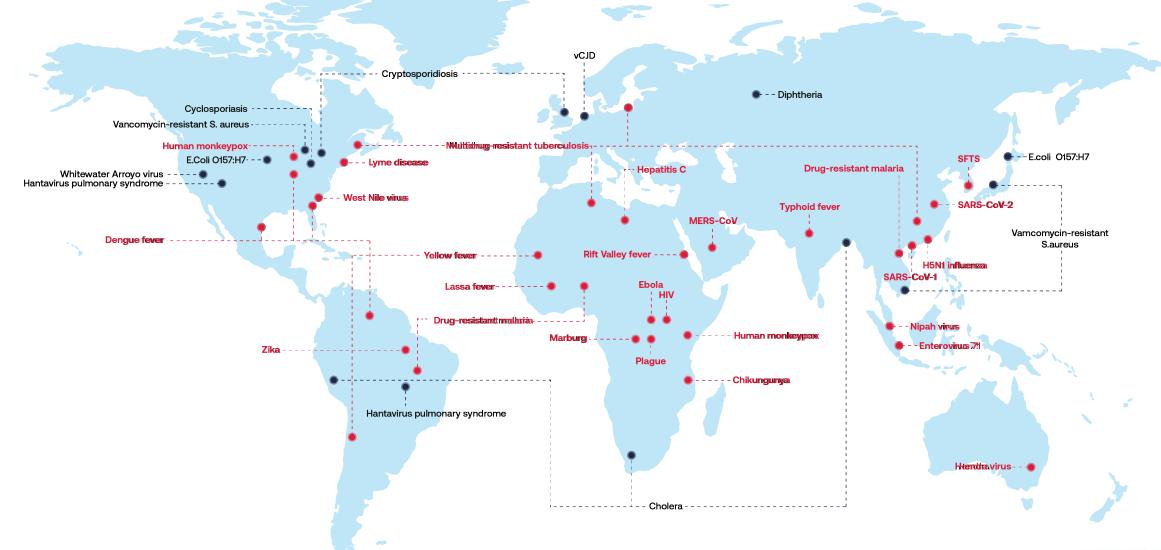


Teresa Lambe, Ph.D.
Professor Of Vaccinology
& Immunology, Calleva
Head Of Vaccine
Immunology





# Our mRNA Access program enables us to work on emerging pathogens across the globe





## **Environment**

## **Deborah Donovan**

Senior Vice President, Environmental, Health, and Safety



# Climate impacts on people and ecosystems are more widespread and severe than expected



Source: National Oceanic and Atmospheric Administration

"Climate change affects the social and environmental determinants of health. It has profound implications for health, wellbeing and healthcare systems everywhere. Climate change is the single biggest health threat facing humanity..."

World Resources Institute, March 20, 2023, "10 Big Findings from the 2023 IPCC Report on Climate Change."



## Climate policy developments over time

## Before 2015

#### 1972

UN Environment Program (UNEP) is formed

#### 1988

Intergovernmental Panel on Climate Change (IPCC) is established

#### 1990

**IPCC's** First Assessment Report (AR1)

#### 1992

**UN Framework Convention on** Climate Change is established

#### 1995

First Conference of the Parties (COP1)

#### 1997

**Kyoto Protocol** adopted (COP3)

## 2015

Science Based Targets initiative (SBTi) and Task force on Climate Related Financial Disclosures (TCFD) are established

## 2015

**Paris Agreement** (COP21)

#### 2021

IPCC's Sixth Assessment Report (AR6)

#### 2023

Task force on Nature Related Financial Disclosures (TCND)

#### 2018

**IPCC's** Special Report on Global Warming

### 2022

**EU Corporate Sustainability** Reporting Directive (CSRD)

### 2022

**US SEC** proposed rule on climate-related disclosures



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



LEED design in new sites and buildings





## **Natural Resource** Conservation

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



# Progress in 2023 on climate-related sustainability initiatives is driving impact

Initiated Climate
Risk and Scenario
Analysis

Collected and disclosed Scope 3, water intake and waste generation metrics

First time submission of CDP Climate Change disclosure

Enhanced
assurance of energy
and greenhouse
gas from 'limited'
to 'reasonable
assurance'

**IMPACT** 

Increasing understanding of climate-related risks

**IMPACT** 

Enhancing reporting of **key performance indicators** 

**IMPACT** 

Aligning disclosures with standard frameworks

IMPACT

Preparing to meet expectations of proposed SEC regulations on climate disclosures





# Sustainability by design strategy drives action, resulting in impact

#### **Actions**

reviews

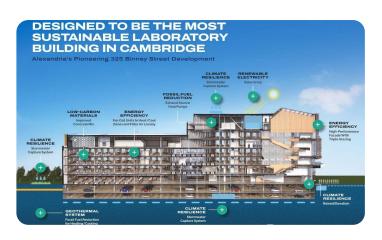
Incorporated sustainability into facility design

Installed heat pumps and electric boilers in new facilities

Set expectations for LEED standards in new facilities

## **Impacts**

- Supporting sustainability initiatives
- Reducing greenhouse gases and air pollutants emissions from combustion
- Improving energy and water efficiency



## Sustainability and LEED standards incorporated for new buildings

- Cambridge, MA USA (Corporate Head Quarters)
- Laval, Canada (Manufacturing)
- Harwell, UK (Manufacturing)
- Melbourne, Australia (Manufacturing)
- Marlborough, MA USA (Manufacturing)





# Natural resource conservation strategy drives action, resulting in impact

#### **Actions**

Performed Energy and Water Assessment at our main manufacturing facility

Initiated MyGreenLab assessments

Completed waste assessment at main manufacturing facility

## Impacts

- Advancing development of net-zero roadmap
- Identification of energy efficiency opportunities and incorporation of new technologies
- Raising awareness of energy and water consumption and waste generation for improvement in operational efficiencies







# Decarbonization of value chain strategy drives action, resulting in impact

#### **Actions**

## **Impacts**

Completed and assured **Scope 3** reporting

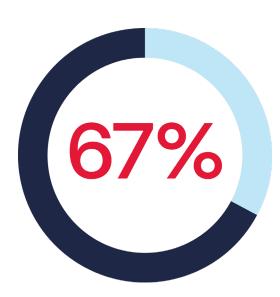
 Improvement on program oversight and accounting

Started supplier engagement

 Identifying top impact suppliers

Subsidized green transportation

 Enabling employees to make greener choices



67% of our suppliers by emissions have an SBTi target or commitment



## We will continue our journey and focus on key milestones



Incorporate
climate risk and
scenario analysis
into our risk
management
programs



Submit GHG
reduction
roadmap for
official validation
by SBTi



## Enhance energy/ GHG programs

- WEF Alliance for Clean Air
- UK Carbon Reduction Plan
- Canada's Net-zero Challenge



Mature natural
resource
conservation
program, focusing
on water use and
waste generation



# Moderna culture & employees

**Tracey Franklin** 

Chief Human Resources Officer





# We give our people a platform to change medicine and an opportunity to change the world

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

Being recognized as a great place to work is a testament to our employees' dedication and relentless pursuit of our mission



















# We continue to focus on the elements of our culture to create an environment where everyone can have an impact

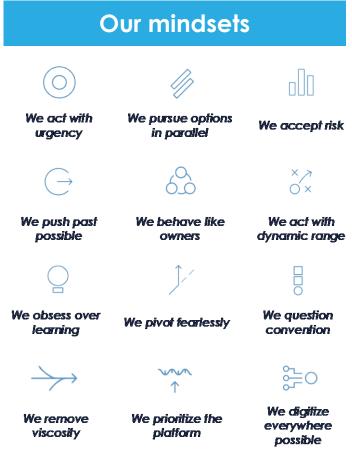
## Our mission

To deliver the greatest possible impact to people through mRNA medicines

# Our values **Bold** Collaborative Curious Relentless Basecamp

Integrity, Quality, Respect



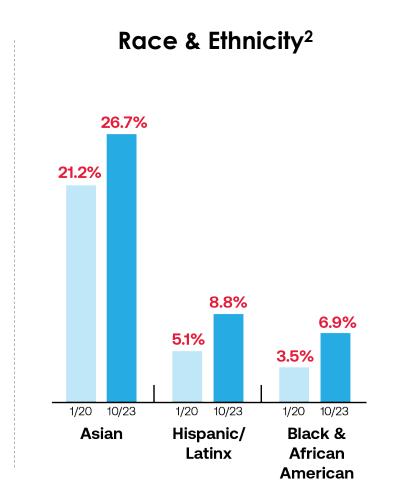




# Our focus on belonging and inclusion enable diverse workforce demographics

## Gender<sup>1</sup> Percent female, all employees 50% 49% 47% 46% 2020 2021 2022 2023 Percent female, executives4 40% 39% 39% 37%

2022







Second consecutive year of no statistically significant differences in pay



Moderna provides equal pay for equal work



2023

2021

2020

## We systematically scale our culture through our People Platform

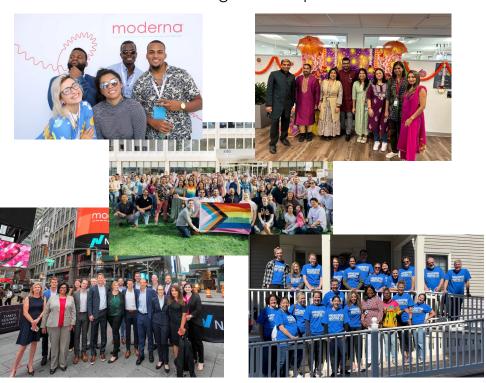




# We drive engagement and innovation by providing programs that are relevant, flexible, and personalized

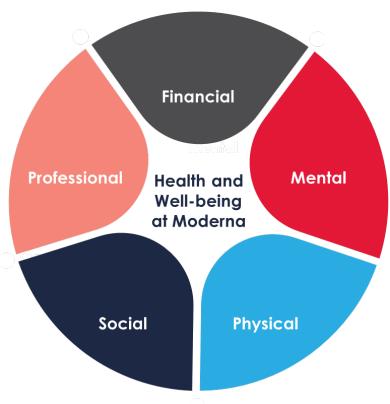
## Belonging, Inclusion, and Diversity

We lead with belonging as we believe our strength comes from our diversity. Introduced our 9<sup>th</sup> ERG, mCARE, which is dedicated to supporting and empowering our employees who are caregivers and parents.



## Well-being

We invest in recognizing the uniqueness of each employee to cultivate a holistic approach to their own well-being





# moderna

this changes everything

## **Communities**

## **Katherine O'Malley**

Executive Director, Internal Communications and Employee Engagement



## We continue to increase our impact on local and global communities with our giving strategy







**Employee Gift Matching** 



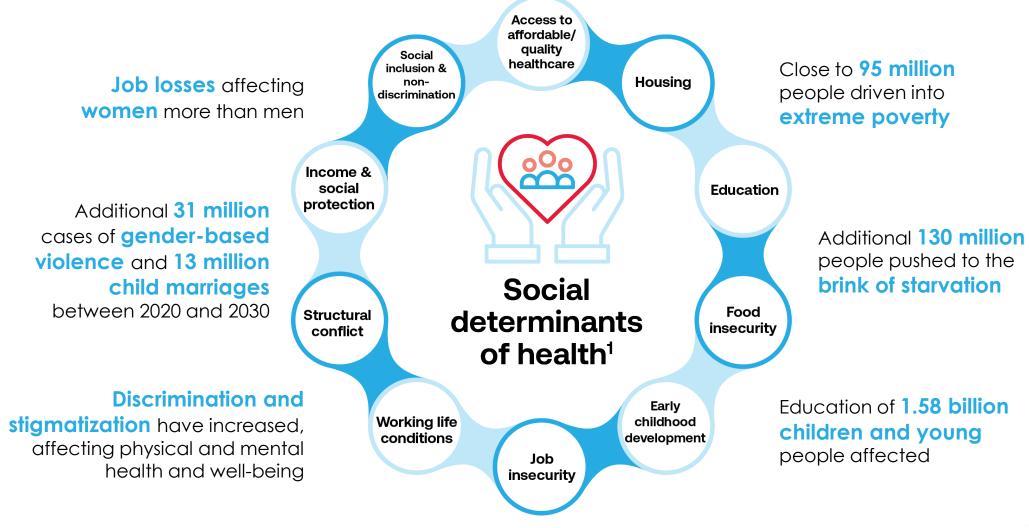
Philanthropic Giving



Humanitarian Relief



## Addressing underlying inequalities in social determinants of health is an imperative to improve global health





## Purpose-driven employees bring passion for our mission and communities











\$800k

in donations from employee matching program

63%

employee participation rate in volunteering and/or giving

Note: 2022 Giving and Volunteering figures.



## Launched Moderna Charitable Foundation in 2022





Promote public health and access to quality healthcare



Advance scientific education and innovation



Advocate for inclusion and diversity

\$7.8M

in grants by the Moderna Charitable Foundation



\$4M

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

Note: 2022 Giving figures.



## Partner highlight: Science communication

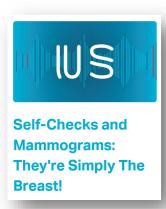




**Objective:** Address the systemic inequities hindering both the STEM ecosystem and girls and gender-expansive youth from underrepresented backgrounds from reaching their full potential

**Impact:** Reached more than 500 girls and genderexpansive youth each semester during 2022-23 academic year, with free, high-quality, hands-on STEM education and mentorship programs





**Objective:** Create healthier individuals, families, and communities by improving access to and understanding of scientific information

**Impact:** Scale system that transforms relevant scientific evidence to simplified, digestible content to improve health literacy and inform related decision-making



## Partner highlight: Addressing effects from COVID-19 pandemic



**Objective:** Provide tailored mental health support to promote and strengthen the emotional wellbeing and resilience of people experiencing chronic stress, grief and loss during the pandemic

**Impact:** Increase coping skills of K-12 teachers and school staff, enhancing their ability to adapt and be resilient

## Imperial College London



**Objective:** Address the real-time needs of millions of children who have experienced the sudden loss of a caregiver due to COVID-19 during the pandemic

**Impact:** Strengthen pathways to policy transformation that ensures scale-up of effective approaches for reaching and caring for bereaved children comprehensively, scale to other countries



## Partner highlight: Amref Health Africa



As a direct result of Moderna Foundation's partnership with Amref Health Africa in Kenya:

1,592,750

people reached with information on COVID-19 vaccines and NCDs

151,647

people received a COVID-19 vaccine

83,164

people screened for high blood pressure

31,075

people screened for elevated blood sugar 2,865

people screened for breast and cervical cancer

The efforts of the project contributed to 25.8% of all the COVID-19 vaccine doses administered in the four counties during the period of September 2022 to September 2023.





## Partner highlight: Amref Health Africa





# Governance & Ethics

## **Shannon Thyme Klinger**

Chief Legal Officer & Corporate Secretary



## **Board of Directors**



Noubar Afeyan, PhD Co-founder and Chairman. Moderna CEO, Flagship Pioneering Committees: Nom Gov (Chair)



Sandra Horning, MD Former Chief Medical Officer of Genentech/Roche Committees: Product (Chair), Nom Gov. Science & Tech



Former President, CEO and Executive Director, NPS **Pharmaceuticals** Committees: Comp (Chair),



Stéphane Bancel CEO. 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, Science & Tech



Paul Sagan Senior Advisor and Executive in Residence, General Catalyst; Former CEO, Akamai Committees: Audit, Nom Gov

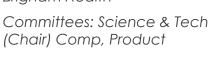


**Stephen Berenson** Managing Partner, Flagship Pioneerina: Former Vice Chairman of JP Morgan Investment Bank Committees: Audit. Product



EVP, Strategy, ModeX Therapeutics; former President of Brigham Health

Elizabeth (Betsy) Nabel, MD





Elizabeth Tallett Former Principal, Hunter Partners; Former President and CEO. Transcell Technologies Committees: Audit (Chair), Comp



## **Board Highlights**





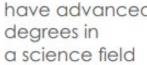


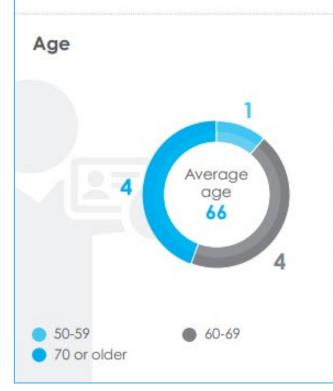


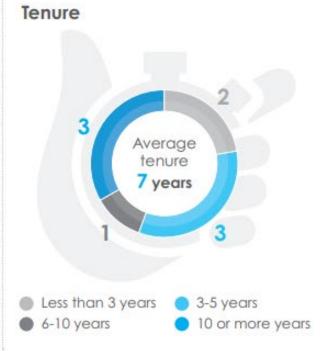
have advanced degrees in















board attendance

meetings in 2022

\* Audit Committee, Nominating and Corporate Governance Committee, Compensation and Talent Committee, Product Development Committee, and Science and Technology Committee.

## Skills and Experience

Our directors represent a diverse range of skills and experience

CEO Experience Digital/Information Security 000005 Drug Development 0000006 Drug Commercialization 0000004 Finance/Accounting 0000007 Government/Regulatory 00000006 Healthcare Industry 0000007 Human Capital Management 000000008 International Experience 000000007 Investor Experience 00000007 Manufacturing/Supply Chain 000004 Science/Technology/R&D 000006



Standing Committees\*

## ESG oversight starts with the Board and Committees



#### **Audit**

- Risk assessment and management
- Internal audit and compliance functions
- Information security and technology risk, including cybersecurity



#### Compensation and Talent

- Human Capital Management
- Recruitment. retention and performance management
- Belonging, Inclusion and Diversity strategy



### Nominating and Corp. Governance

- ESG strategy and metrics
- Climate-related risks and opportunities
- Political engagement and disclosure
- Moderna Charitable Foundation



## **Product Development**

- Clinical trial design, including diversity
- Product quality and safety



## Science and **Technology**

- Intellectual property strategy
- Platform developments and investments

**Recent Board** oversight of **ESG** initiatives

- Update on net-zero carbon emissions in Scope 1 and Scope 2 by 2030 target
- ESG materiality assessment and climate-risk scenario analysis projects update
- ESG-related reporting obligations and transparency initiatives
- Cybersecurity program evolution
- Global pay equity studies



## 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

#### **Jerh Collins**

Chief Technical Operations & Quality Officer, leads carbon reduction efforts

#### **Arpa Garay**

Chief Commercial Officer, leads access initiatives

### **Tracey Franklin**

Chief Human Resources Officer, leads human capital initiatives

### Stephen Hoge

President, leads clinical trials, including diversity efforts in clinical trials

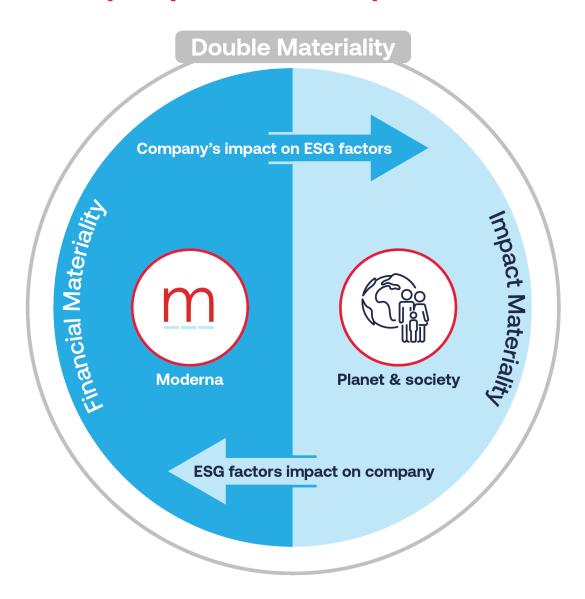


## **Executive / scorecard bonus** program builds in ESG metrics

Human capital ESG metrics since 2021, focused on belonging and engagement



## Double materiality allows companies to assess the financial impact of ESG factors on the company, and the impact of the company on society





## We are conducting a double ESG materiality assessment leveraging AI to build a data-driven and dynamic analysis of material topics

**Internal Stakeholders** Moderna leaders stakeholders Moderna ESG contributors Externa/ Moderna employees m **External Stakeholders Investors Patient organizations** Etternal stakeholders **Suppliers NGOs** moderna

**Industry trends** 

**External sources** 

**Peers** 

**Mandatory regulations** 

Online news & media

Voluntary policy initiatives

## We continue to evolve key elements of our **Ethics & Compliance Program**



#### Governance

Policy development & implementation

**Evolution of Compliance** policies, procedures and other relevant guidance documents with a principle-based approach:

- Code of Fthics & Business Conduct
- Privacy Policy
- Anti-Bribery and Anti-Corruption Policy (ABAC)
- Interactions w/HCPs, HCOs<sup>1</sup>
- Consultancy Services



#### Risk

Due diligence & risk management

Automated **Due Diligence** process covering ethics, ABAC, human rights, and privacy

Consistent vendor risk stratification process

Global Distributor Governance Framework

**Monitoring** to support continuous learning and improvement



## Culture

Patient-centric & ethics

Patients are at the center of everything we do

Speak up & open communication

#### **Training & Awareness**

- ABAC
- Privacy
- Interactions with HCPs, HCOs and patients
- Social Media
- Human Riahts
- UK ABPI<sup>2</sup> Code



## **Innovation**

Digital transformation

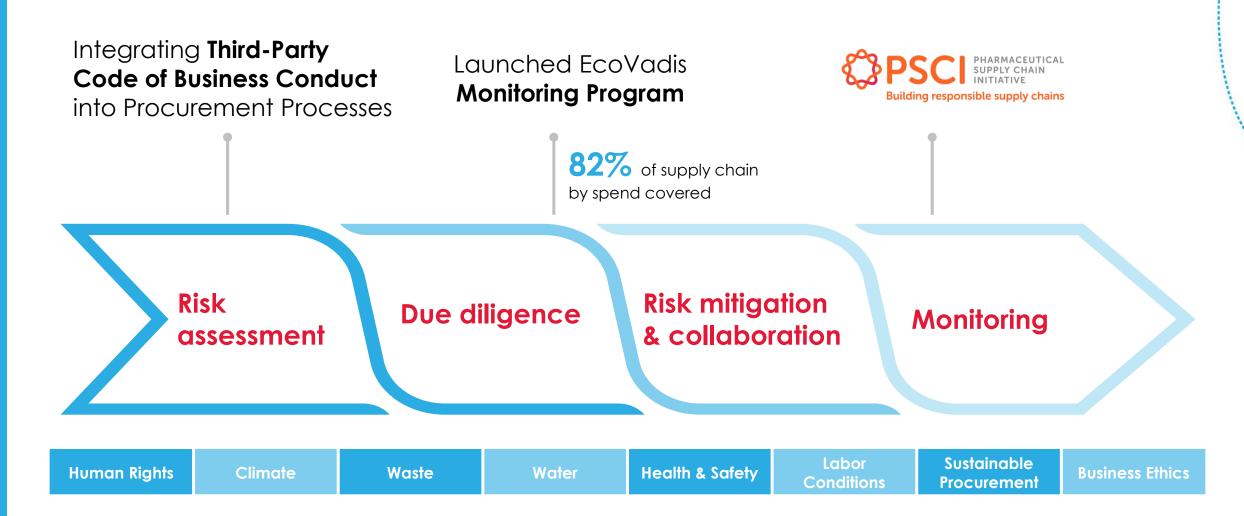
Continuing to explore new technologies to:

- Improve decision making
- Guide users to compliant execution
- Automating processes to manage high risk activities
- Support monitoring & prompt issue identification
- Statistics & trends





## Continuing to embed sustainability across our supply chain





## Commitment to transparency since the beginning of our journey

Key highlights from 2022 / 2023

### **Published annual ESG Report**



#### **Published SASB & GRI Indexes**



## Increased disclosure of ESG data and journey



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



Trade association disclosure No giving to political campaigns



**Published Environmental** 2021 & 2022 Data, with third party assurance



## Next steps in our journey

Complete materiality assessment to inform 2023 ESG Report

Continue to prepare for future ESG reporting requirements



# **Concluding** remarks

Stéphane Bancel

Chief Executive Officer

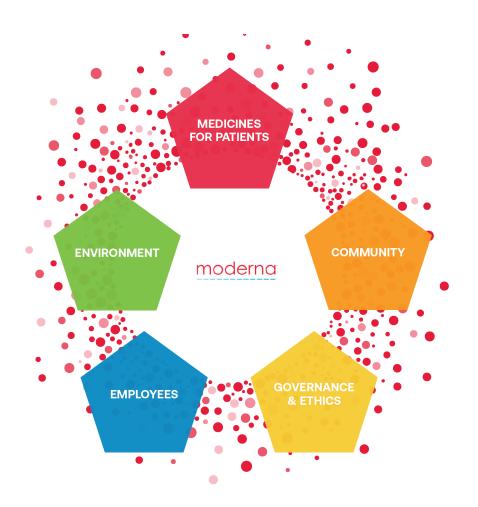


## Our mission

Deliver the greatest possible impact to people through mRNA medicines.



# 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 believe that ensuring the health of our planet is critical to impacting human health

We give our people a platform to change medicine and an opportunity to change the world

We are seeking partners that share our commitments to improving human health and closing opportunity gaps in our communities

Our continuous focus on quality, transparency, and ethical behavior is critical to building and maintaining trust with all our stakeholders



## Thank you

