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Equitable access to innovative medicines

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Impact & Health Equity

Novartis 10th annual ESG investor event

November 13, 2023









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Key highlights

Vas Narasimhan

Chief Executive Officer









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Equitable access to innovative medicines

Lutz Hegemann

President, Global Health & Sustainability







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Agenda

Equitable access to innovative medicines



Lutz Hegemann
President Global Health
& Sustainability

Innovation for Global Health to drive impact in neglected tropical diseases

Drug discovery for Global Health

Thierry Diagana

Head Global Health

Research



Sujata Vaidyanathan
Head Global Health
Development Unit

with access

Linking development

Evolving ESGreporting landscape



Paul Penepent
Head Finance
Reporting & Accounting







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Focusing on innovation and access to medicines to create value for the company while mitigating risks

Value creation **Innovation and** Human access to medicines capital Future-proof pipeline addressing Diversity, Equity unmet medical and societal needs & Inclusion Broad access to our medicines, Culture including underserved populations **Talent Dedicated Global Health unit**





Focus of today's session





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Creating impact by fulfilling unmet medical need through delivering innovative, quality medicines to as many people as possible

>250 million patients

reached with innovative medicines (2022)

~130 pipeline projects

further expanding patient reach

First gene, siRNA and radioligand therapies (at scale), fulfilling unmet medical need

~40 new drug approvals

over the last 20 years, delivering innovative medicines

Recent innovation highlights:

Kisqali[®] NATALEE eBC

Scemblix® CML

Pluvicto[®] Prostate cancer

iptacopan PNH and C3G







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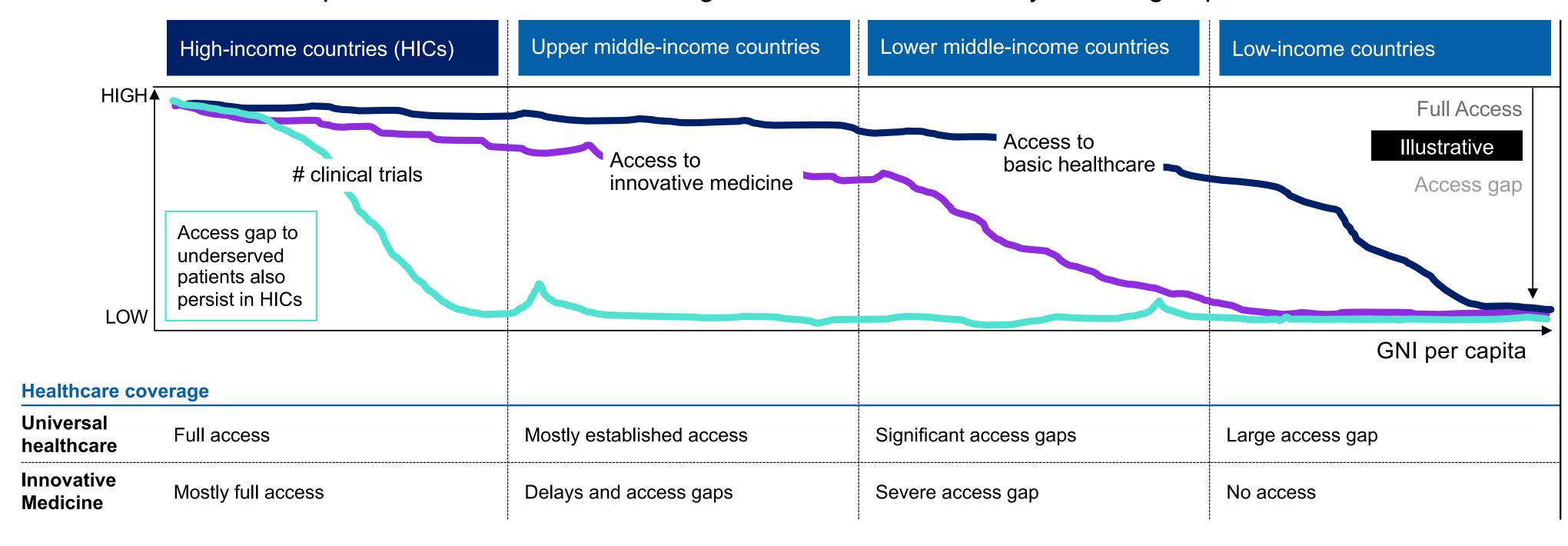
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Innovation and access to medicines is required to address the R&D and access gaps irrespective of a country's income

Illustrative: schematic representation of access challenges across different country income groups¹



^{1.} Source: BCG analysis 2023.







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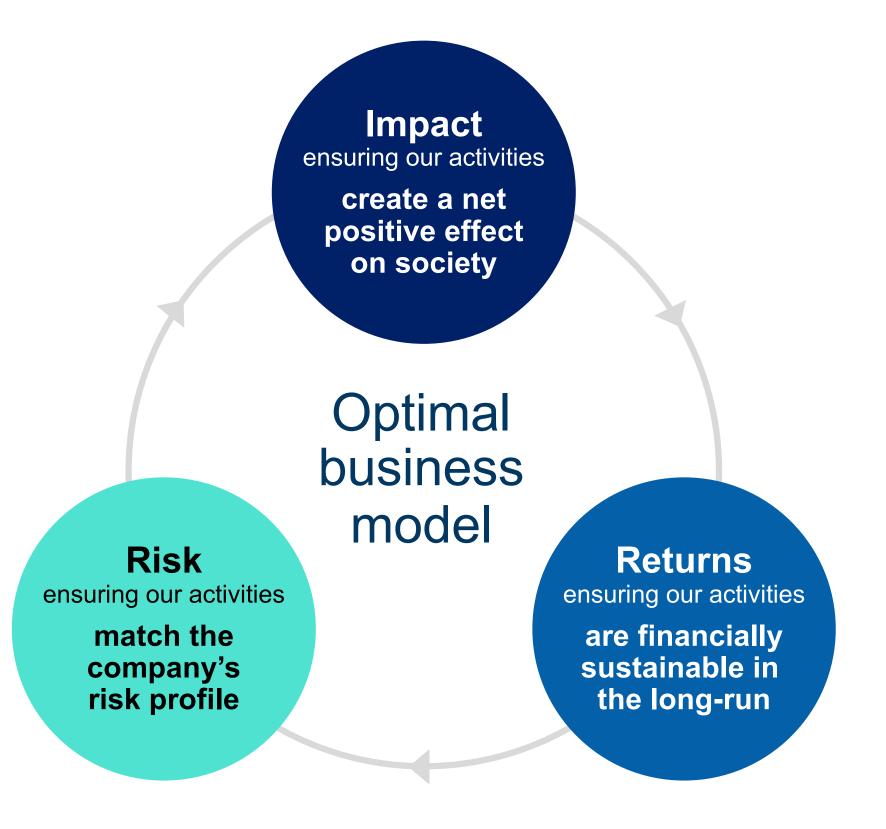
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For Novartis, ESG is a framework to manage business risks whilst also delivering impact which creates value for our stakeholders



ESG is a framework to incorporate environmental, social and governance factors into business activities.

What we must do as a baseline to manage material risks.



IMPACT is change in wellbeing beyond what would have happened otherwise and must be measurable.

Where we can create value for stakeholders.



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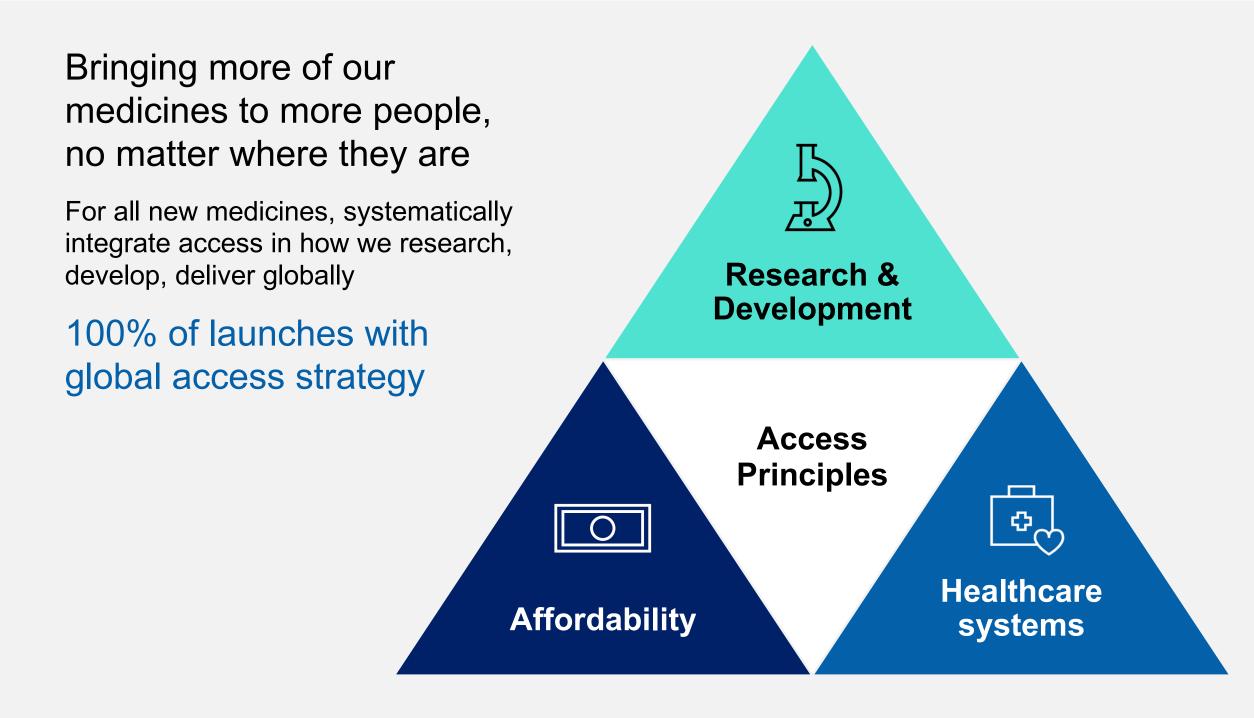
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Novartis Access Principles are designed to drive impact¹



Selected examples

R&D

Trial diversity strategy

Adaptive development: Modification of medicines for vulnerable populations

Affordability

Tiered pricing framework (EMBs)

Sub-Saharan Africa: Shift from margin to impact focus

ATOM: 1st company to contribute an innovative medicine²

Healthcare systems

One Novartis Health System Strengthening framework

US Foundation made disparities of care a priority

^{1.} Impact is change in wellbeing beyond what would have happened otherwise and must be measurable. 2. ATOM – Access to Oncology Medicines. Novartis granted a "freedom to operate" license ahead of patent expiry in multiple LMICs for nilotinib in chronic myeloid leukemia.





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Example 1: A long-term approach to chronic myeloid leukemia in Ethiopia



Commitment

Since 2004, we have been donating first line treatments for CML through the Glivec® International Patient Assistance Program, in partnership with the Max Foundation.

Impact

2,000 patients on program as of 2023. As the median age of CML patients in Ethiopia is ~38 years (below global average), outcomes from this program translate to sustained socio-economic impact.

Catalyzed development of healthcare provider capabilities; e.g. number of hematologists has grown from 3 to 30 since 2004.

Sustainability

Government of Ethiopia is now financing second line treatments for CML patients who progress or are resistant to Glivec®, with 160 patients benefitting from access to Tasigna®.



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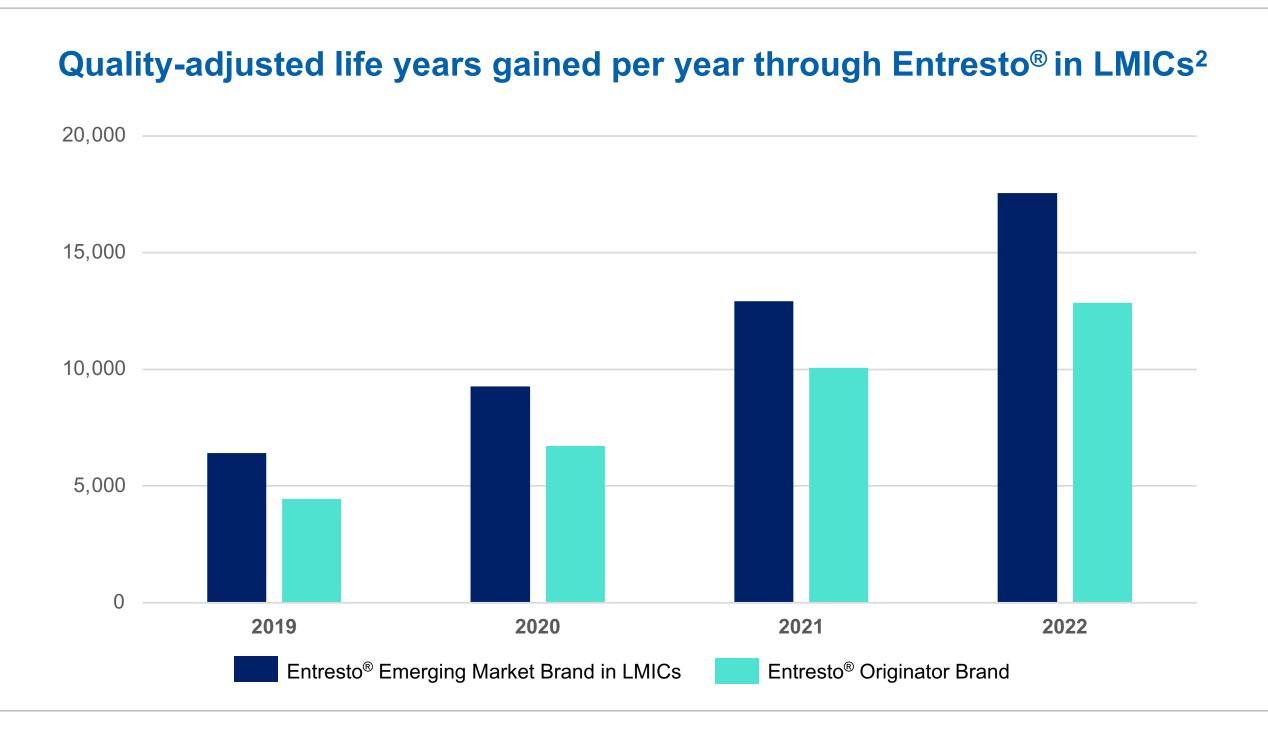
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Example 2: Significantly increasing impact¹ in cardiovascular disease through Entresto[®] emerging market brands



Access Principles

Helped us broaden our coverage and deepen our impact. Launched in **69 LMICs**³; first LMIC launch: 2 months after EU launch⁴

Affordability

Entresto® emerging market brand launched in 43 countries; generated an additional **17,000** quality-adjusted life years in 2022 vs. >6,000 in 2019

Health System Strengthening

Improving CVD management, detection and prevention through partnerships as well as activities of Novartis Foundation⁵

R&D

Running a Ph4 trial in Chagas disease (neglected tropical disease) - related cardiomyopathy



^{1.} Change in wellbeing beyond what would have happened otherwise, measurable. 2. King et al Cost-Effectiveness of Sacubitril-Valsartan vs. Enalapril in HFrEF. JACC Heart Fail. 2016 May. QALY based on patients reached x difference in QALY gained vs. SoC (as per Seddik et al The Social Impact of Novartis Products, Aug 2018). LMICs/Emerging markets: same definition applied as for Sustainability Linked Bond. 3. 43 LMICs with EMB (incl. Cameroon, Zimbabwe, Ethiopia, Ghana, Indonesia, Kenya, Sri Lanka, Morocco, India, Nigeria, Philippines, Sudan); 26 LMICs with Originator Brand (incl. Rwanda, Venezuela, Egypt, Malaysia). 4. Entresto® Launched in Malaysia 2 mos after EU; EMB launched in India 12 mos after EU. 5. Non-profit focused on urban heart health equity, leveraging data/ AI for prevention.



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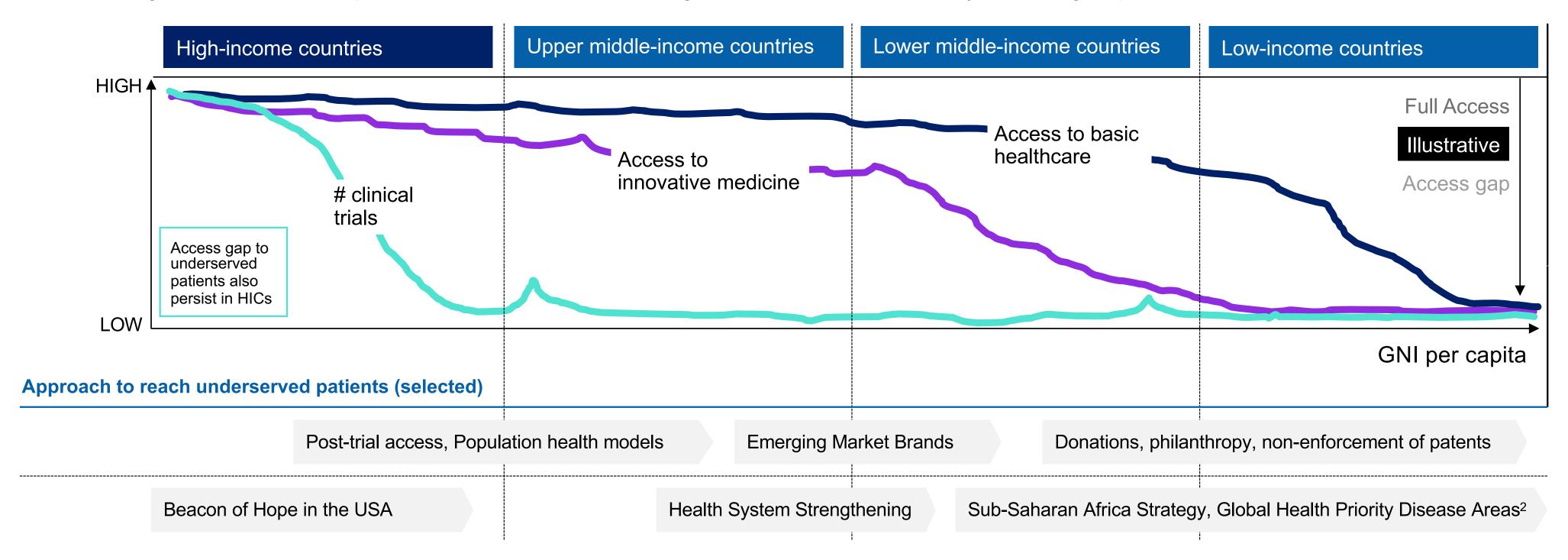
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Core business and Global Health approaches are complementary across portfolio, geographies and income brackets

Illustrative: global schematic representation of access challenges across different country income groups¹



ATOM – Access to Oncology Medicines. 1. Source: BCG analysis 2023. 2. Malaria, Sickle Cell Disease, Leprosy, Chagas disease.







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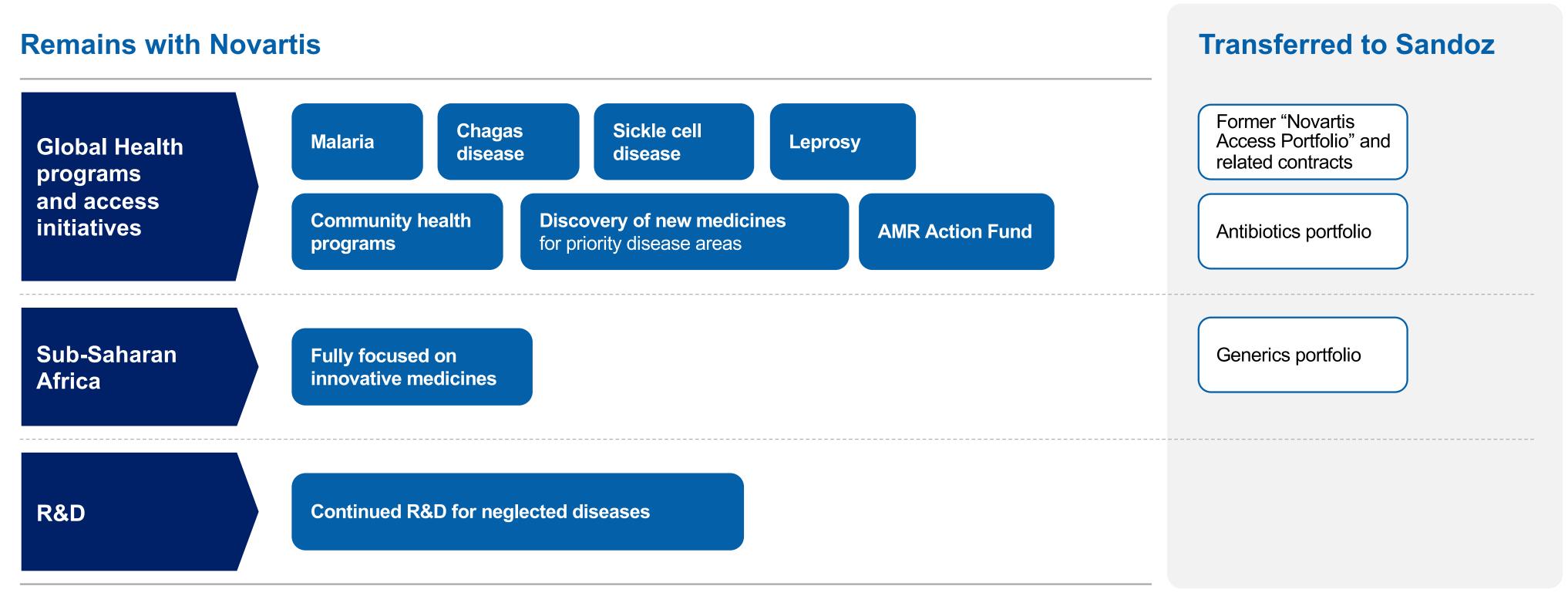
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Conclusion

The vast majority of Novartis Global Health programs have remained in Novartis after the Sandoz spin-off



AMR – Antimicrobial resistance. NCDs – Non-communicable diseases







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Innovation for Global Health to drive impact in neglected tropical diseases



Thierry Diagana Head Global Health Research **Drug discovery for Global Health**



Sujata Vaidyanathan Head Global Health Development Unit Linking development with access







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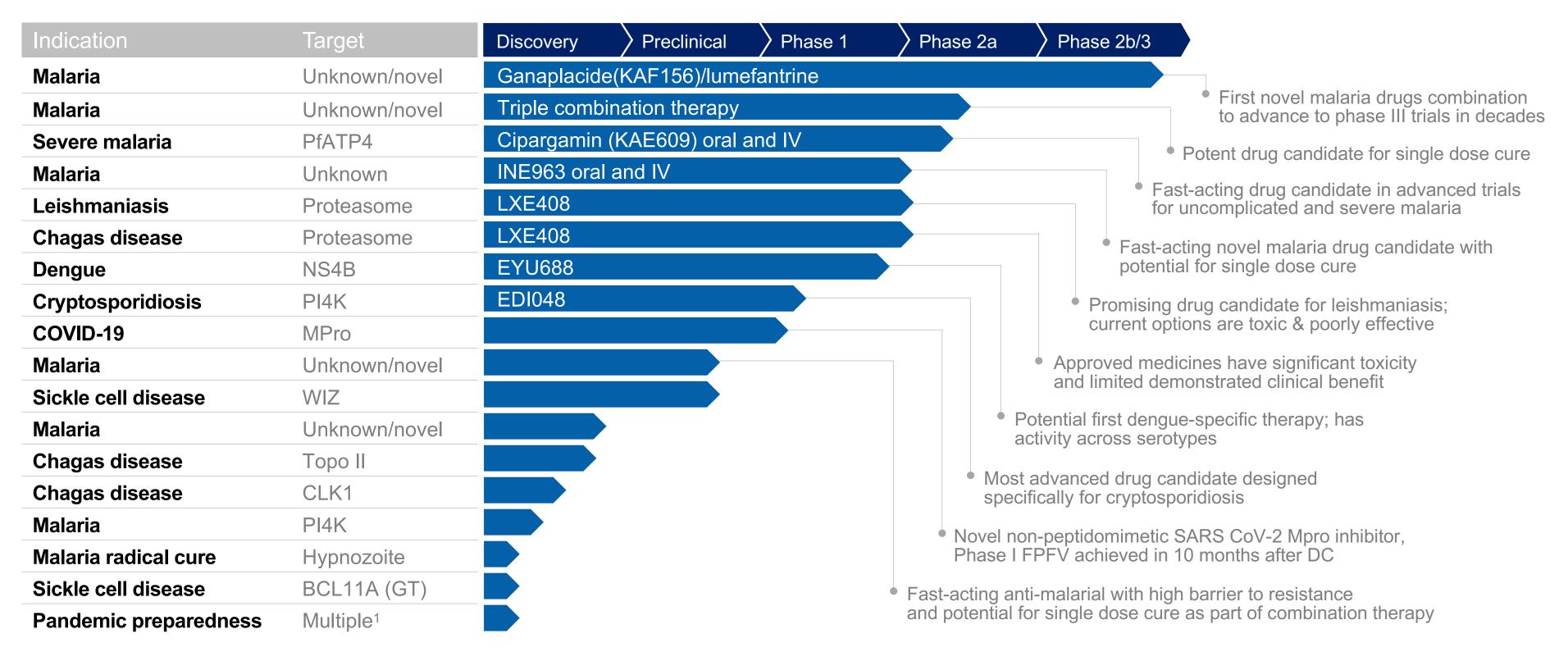
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One of the most extensive pipelines in Global Health with 7 new chemical entities currently in human trials across 6 disease areas



GT – In vivo gene therapy. 1. Viruses with epidemic or pandemic potential: flaviviruses, henipaviruses, coronaviruses.







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Novartis is proud of our long-term commitment to Global Health R&D which creates value for all our stakeholders

Value creation



Innovation for Global Health aims to drive impact in neglected tropical diseases

Novel drugs for tropical diseases are eligible for PRV, a financial incentive and external validation of the unmet need¹

Risk mitigation



As the global population grew from 7 to 8bn, ~70% of the added population was in LICs and LMICs... when the population rises from 8 to 9bn, ~90% of the growth will take place in LICs and LMICs²

Novartis assesses impacts of changing disease burdens: Novartis portfolio covers disease areas that could be most impacted by climate change, incl. cardiovascular, NSCLC, malaria, dengue³

Right thing to do



Underserved patients are severely impacted by diseases for which traditional market incentives to conduct R&D do not exist

Novel Global Health therapies can change the course of some of humanity's most longstanding unsolved health challenges



^{1. 6} candidates in our Global Health pipeline eligible for PRVs; 2 PRVs already received by Novartis. FDA and Cosmetic Act, section 524, authorizes FDA to award Priority Review Vouchers (PRVs) to sponsors of approved medicines to treat certain tropical diseases Tropical Disease Priority Review Voucher Program | FDA. 2. https://www.un.org/development/desa/dpad/publication/un-desa-policy-brief-no-140-a-world-of-8-billion/. 3. Internal analysis of scientific literature.



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We leverage Novartis core research and development competencies for Global Health



Disease-focused innovation for Global Health

We apply scientific expertise and advanced technology platforms to discover and develop medicines that target disease areas where we can transform lives

Platforms

Biology and lead discovery

High throughput assay and screening capacity

Medicinal chemistry

Chemical optimization and chemical biology

Structural & biophysical chemistry

X-ray structure, biophysics, mass spectrometry

Pharmacology

Small and large animal models

Artificial intelligence and machine learning

Internal multitask prediction models

Trial capabilities

Early and late stage





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We prioritize our portfolio, beginning with the identification of Global Health challenges identified by the World Health Organization

2 billion

patients do not get medicines they need¹

More than a billion people

suffer from neglected infections each year (parasitic, viral, and bacterial), largely in "tropical" regions²

Underserved patients

living predominantly in lower income countries

Triple burden of disease in LMICs:

neglected communicable diseases, non-communicable diseases on the rise, epidemics and pandemics

Unmet therapeutic needs

There are no treatments, or current medicines are suboptimal, for many priority health challenges identified by the World Health Organization

Examples:

Emerging drug resistance

Malaria

Toxic or poorly effective available therapies

Chagas disease

Leishmaniasis

Parasitic diarrhea (cryptosporidiosis)

No approved therapies

Dengue fever

Viral pathogens with epidemic or pandemic potential

1. Access to Medicine Foundation. 2. World Health Organization.







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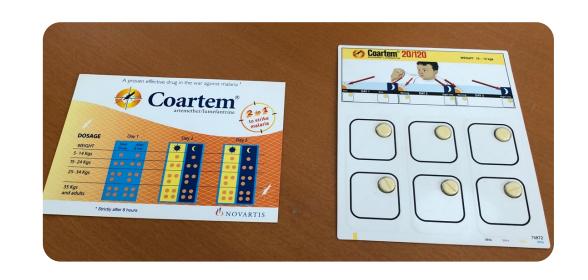
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In malaria, our pipeline is designed to maintain the progress achieved and support efforts for disease elimination

Novartis introduced Coartem, the 1st artemisinin-based combination therapy (ACTs), in 1999

ACTs were designated as first-line therapy for malaria by WHO in 2001

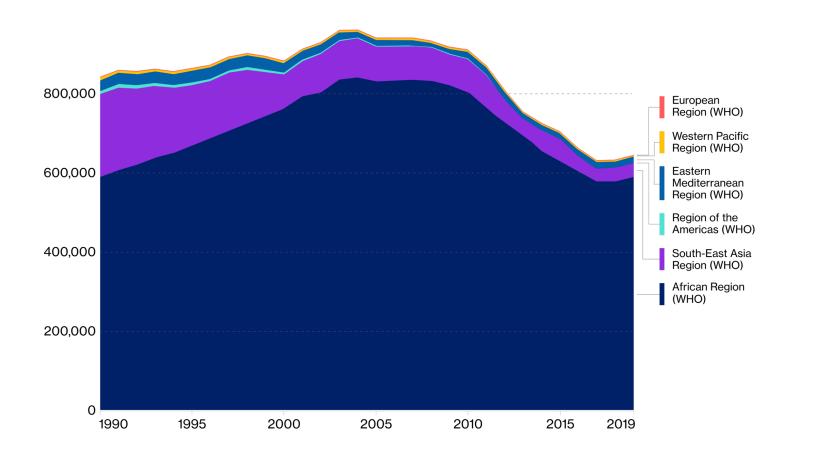
More than a billion doses of Coartem have been distributed



ACTs, along with indoor residual spraying and use of bednets, have led to substantial reduction in malaria deaths^{1,2}

Progress is fragile and could reverse

Annual Malaria deaths by world region 1990-2019



Our pipeline addresses unmet needs for malaria control and elimination

Novel medicines to address emerging drug resistance

Simplified dosing regimens

Improved treatments for severe malaria

Improved formulations for infants

Novel medicines to address the dormant (*Plasmodium vivax*) form of malaria

1. Nature, "The effect of malaria control on Plasmodium falciparum in Africa between 2000 and 2015" (2015) 526; 207. 2. https://ourworldindata.org/grapher/malaria-deaths-by-region.







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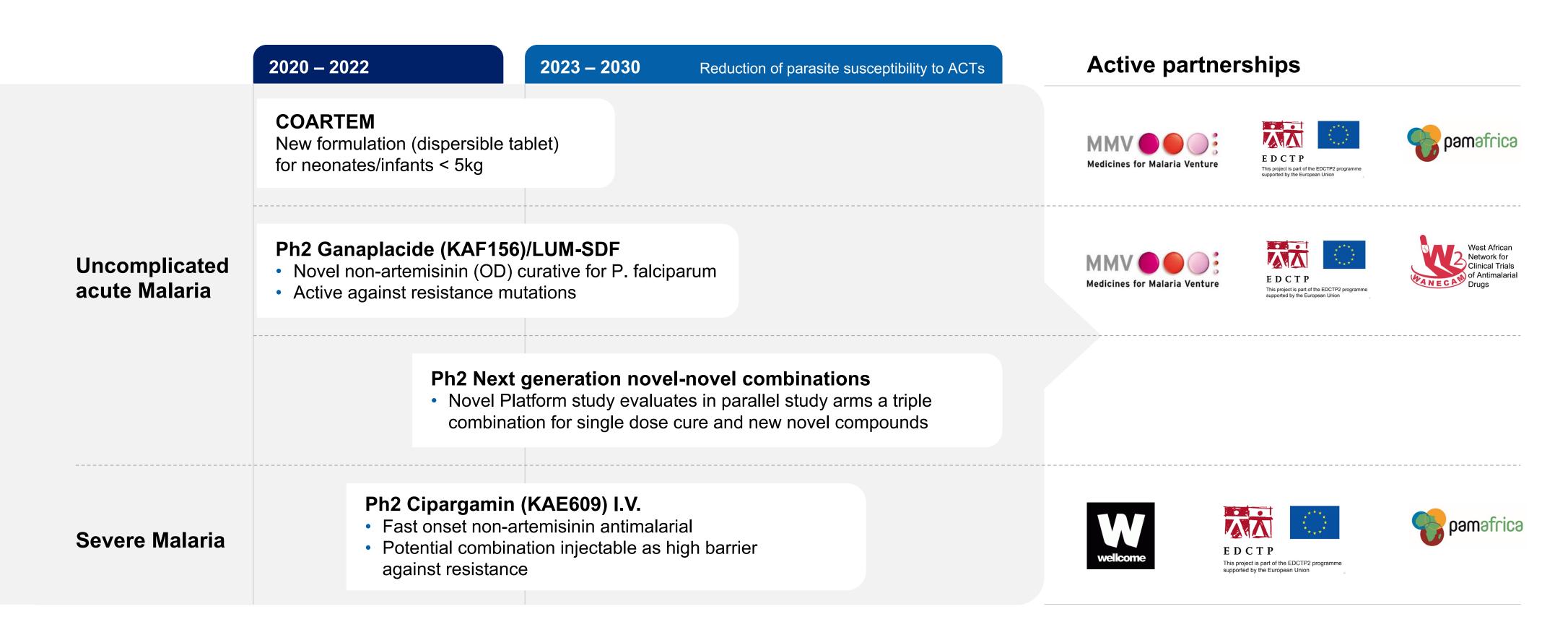
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Our malaria development programs address unmet needs including emergence of resistance, supported by our partners







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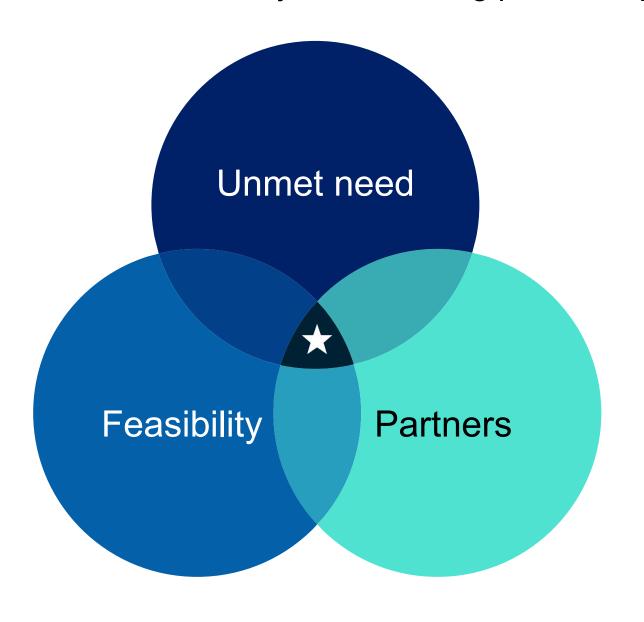
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We then identify areas where we can deliver impact at regional or global scales

Prioritization based on

Our greatest impact is in areas of unmet need, scientific feasibility, and enabling partnerships



Example: Dengue

- Nearly half of the world's population is now at risk, with 100-400m infections/year¹
- Severe disease can cause death¹
- Novartis drug candidate, EYU688, is expected to be soon in Ph2 trials

Unmet need

There is no approved direct-acting dengue antiviral medicine

Feasibility

Novartis discovered a pan-serotype inhibitor of the dengue virus nonstructural protein 4B (NS4B) that shows strong potency against all four serotypes of dengue virus in pre-clinical models²

Partners

in research efforts for EYU688 and current novel discovery work involves collaboration with US National Institutes of Health

2. Moquin S, et al. "NITD-688, a pan-serotype inhibitor of the dengue virus NS4B protein, shows favorable pharmacokinetics and efficacy in preclinical animal

^{1. &}lt;a href="https://www.who.int/news-room/fact-sheets/detail/dengue-and-severe-dengue">https://www.who.int/news-room/fact-sheets/detail/dengue-and-severe-dengue. models." Science Translational Medicine (2021) 13;579:eabb2181.



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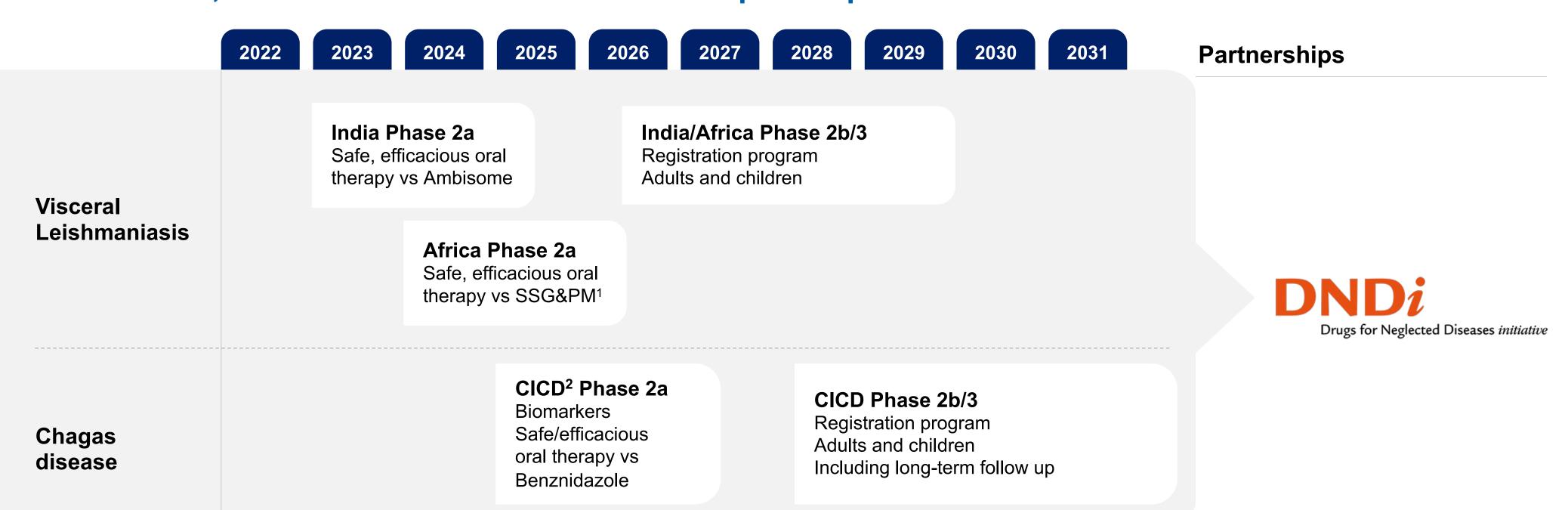
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Novartis and DNDi are collaborating on the development of LXE408 in kinetoplastid disease and preparing for access

LXE408 oral, first-in-class inhibitor of the kinetoplastid proteasome



^{1.} SSG&PM: Sodium Stibogluconate & paramomycin. 2. CICD: Chronic Indeterminate Chagas disease.





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Importantly, diseases in our Global Health portfolio are assuming increased relevance due to climate change

Rising temperatures may increase climactic suitability of malaria, dengue and other diseases¹

Emerging evidence that climate change may influence the tropical disease burden



Dengue

Millions of people may be threatened with new exposure to dengue over the next century¹

Locally acquired dengue infections have increased in parts of Europe²

Malaria

Transmitted locally in southern US for the first time in decades³

>5bn people could be at risk for malaria by 2040 due to climate and population growth⁵

Conducted life-cycle assessment of environmental impact of Coartem®



Viral threats

Climate change expected to substantially increase cross-species virus transmission⁴



Planetary warming is expected to alter breeding habitats and viability of insect vectors and to influence animal reservoirs of disease

1. Plos NTD 2019. 2. European Surveillance 2022. 3. https://emergency.cdc.gov/han/2023/han00496.asp. 4. Nature 2022 Vol 607. 5. "Where Malaria is Spreading", Washington Post, October 23, 2023.







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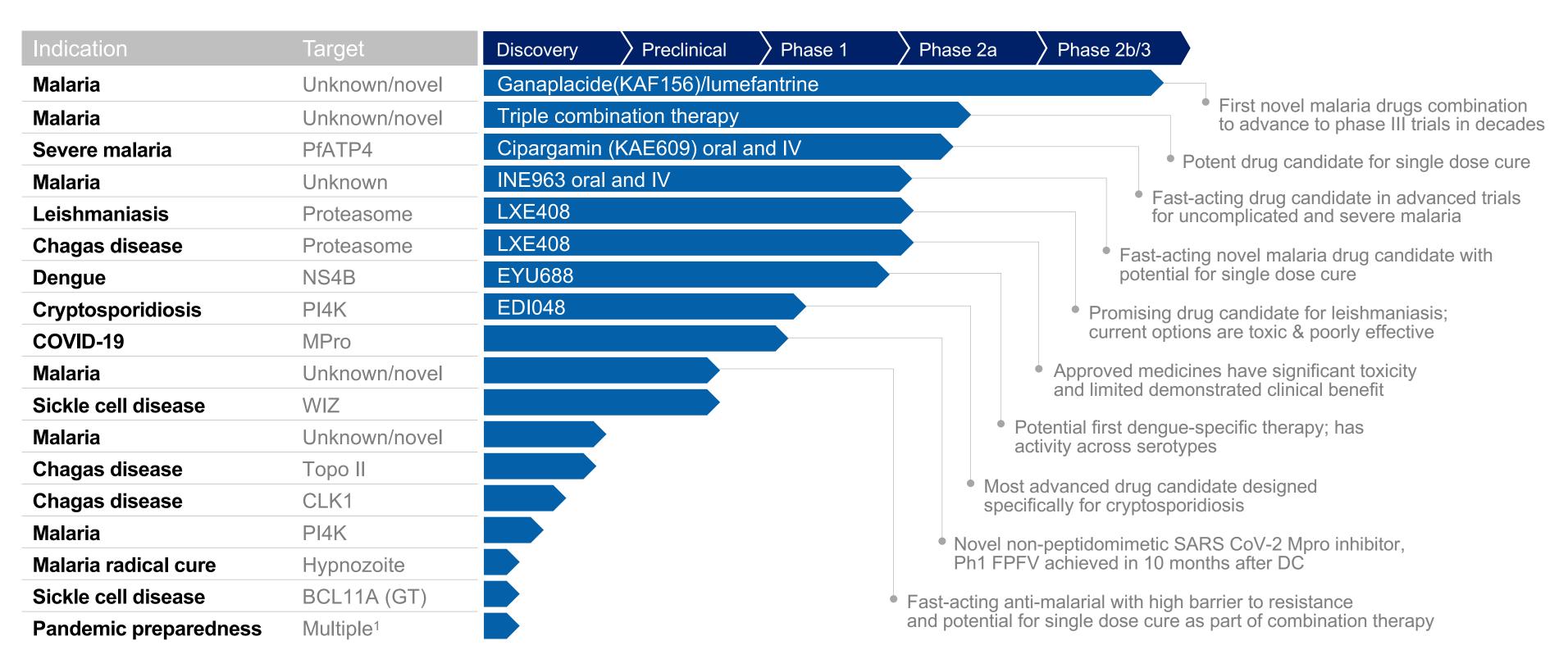
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One of the most extensive pipelines in Global Health with 7 new chemical entities currently in human trials across 6 disease areas



DC – development Candidate nomination. FPFV – First patient, first visit / trial initiation. GT – In vivo gene therapy. 1. Viruses with epidemic or pandemic potential: flaviviruses, henipaviruses, coronaviruses.







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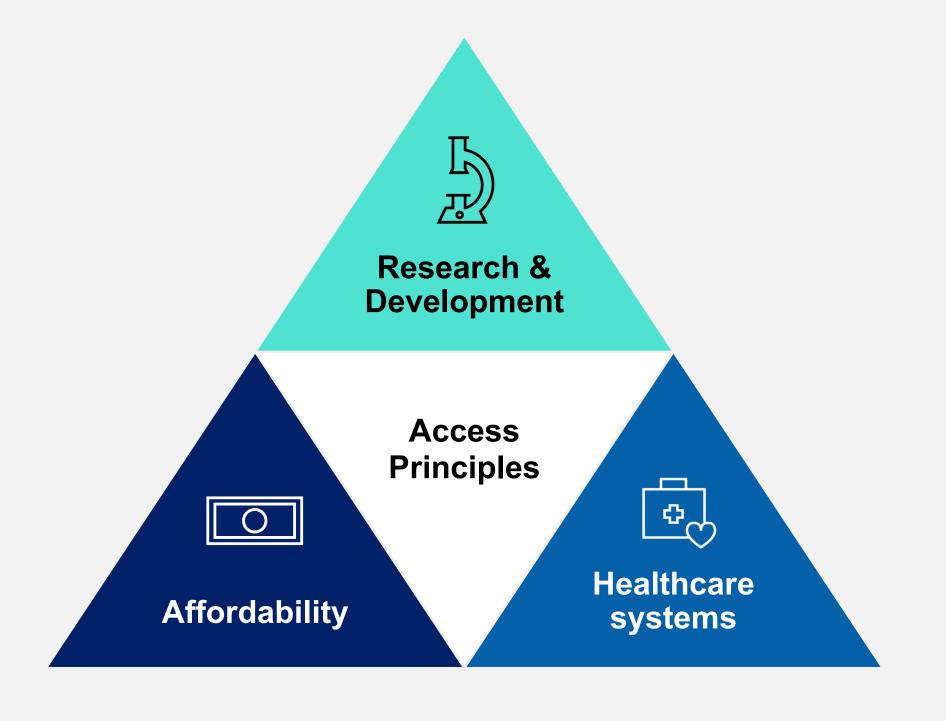
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We use Novartis Access Principles to link clinical development and access



Planning early for access

Drug development discipline across the life cycle

Clinical trial diversity

Ensuring representative trials

External partnerships





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Early access planning, trial diversity and partnerships are critical success factors in advancing health equity

Value creation



Bring innovation faster and to more patients in HICs and LMICs

Improve medical research

Contribute to strengthening healthcare systems

Risk mitigation



To ensure medical needs of underserved patients are not overlooked

Ensure trial participants represent a diverse patient population to assess safety and efficacy of our medicines

To address complex access-to-medicine barriers

To comply with new regulations

Right thing to do



Scientifically sound

Social responsibility

Sustainability of the program





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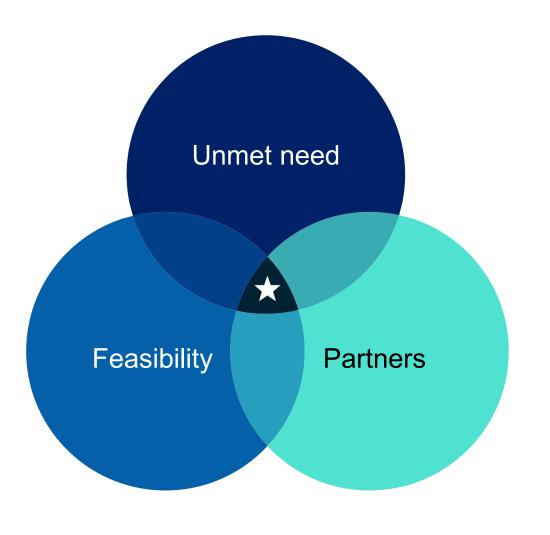
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Adaptive development further increases the impact of our medicines

Example 1: Sacubitril/valsartan (Entresto®) for potential use in Chagas disease

Adaptive R&D: Adapting existing medicines via R&D; such as new formulations, new fixed-dose combinations, repurposing for additional indications, or developing for a new target age group, e.g. children.



Chagas disease

A neglected tropical disease (NTD) caused by a parasite (*T.cruzi*), recognized by WHO as one of the 10 priority NTDs

~30% of infected individuals exhibit evidence of chronic cardiomyopathy, a leading cause of death in Chagas disease patients: ~10k deaths per year¹

Unmet need

Heart failure caused by Chagas disease has unique characteristics, higher mortality rates and no evidence-based treatment

Feasibility

Additional study to demonstrate **Entresto**® superiority over SoC in Chagas disease (Argentina, Brazil, Colombia, Mexico)

Recruitment completed with 900 patients enrolled

Partners

Working with partners² to increase disease awareness, foster synergies in controlling the disease and promoting access to diagnosis and treatment

SoC – Standard of care. 1. Source: WHO. 2. Global Chagas Disease Coalition, The World Heart Federation and the Inter-American Society of Cardiology, Barcelona Institute for Global Health in Bolivia.





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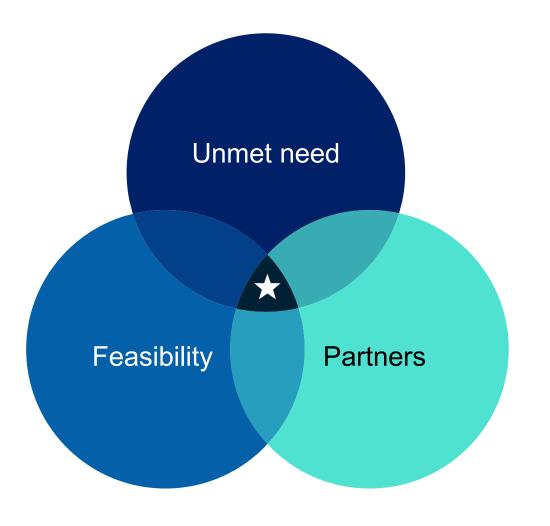
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Adaptive development further increases the impact of our medicines

Example 2: Hydroxyurea in sickle cell disease (SCD)



Globally, the number of people living with **SCD** increased from ~5.5m in 2000 to almost 8m in 2021 representing >40% increase¹

1,000 children in Africa are born with SCD every day, up to half will die before they reach five years of age²

Hydroxyurea is proven to decrease mortality from sickle cell disease³

Unmet need

Access to a children-tailored formulation has been severely lacking in Africa, which impairs compliance with potentially life-saving medicine

Feasibility

Novartis developed a film coated tablet that is dissolvable in water for administration to young children

The naturally bitter taste of the active pharmaceutical ingredient was masked with a flavored sweetener

Partners

Ghana was the first country to approve the formulation in 2022

It has since been approved in 4 other African countries and registration is pending in more

SoC – Standard of care. 1. Source: Lancet Haematology 2023. 2. American Journal of Preventative Medicine 2011. 3. New England Journal of Medicine 2019.





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Addressing barriers to ensure people from diverse backgrounds join clinical trials

Trial participants should represent the patients that will use the medical products

However...

52% of US trials occur in **1.5%** of the zip codes¹. A person's zip code can have a significant impact on life expectancy

39% of US population comprise of racial / ethnic minorities, but only account for **2% to 16%** of clinical trial participants²

Rootcauses: mistrust and bias

Beacon of Hope

Co-create effective, measurable solutions for health equity

Novartis initiated and leads, \$50m contribution

10-year collaboration

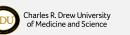
26 Historically Black Colleges/Universities and expanding members

1200 scholarships over 10 years, mentorship and internship

Supporting establishment of digitally enabled clinical trial Centers of Excellence

Supporting research in health inequity, impact of environment on health









Innovative Health Initiative



Ensure equitable representation of underserved populations in clinical research

Novartis is lead partner with in-kind contribution of €7.5M

Agree on a common definition of underserved, understand culture-specific barriers

Build sustainable infrastructure to improve recruitment/retention of underserved patients

Metric: 100% of US Phase 3 studies have evaluated D&I principles³ in feasibility planning

Source: 1. Clinical Trial Diversification Better Practices. Trans Celerate. 2. USC researchers rise to the challenge of improving diversity in clinical trials. 3. D&I principles: Race/ethnicity/gender epidemiology variances for the indication are considered during feasibility planning and trial recruitment.





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Innovation for Global Health to drive impact in neglected tropical diseases

1
Long-term commitment
to Global Health and
underserved population

One of the most extensive and innovative Global Health pipelines

Global Health (R&D) creates
value across our stakeholders
by driving impact in neglected
tropical disease

Longstanding partnerships with philanthropies and other major stakeholders to catalyze R&D efforts

Critical success factors to advance health equity include early access planning, trial diversity and partnerships





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Paul Penepent Head Finance Reporting & Accounting





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Our objectives and philosophy for non-financial reporting

External environment

ESG reporting environment evolving at varying pace and with different requirements across the markets in which we operate

Drivers

- 1. Maturing regulatory requirements
- 2. The need for confidence and reliability over data to facilitate tracking against public commitments
- 3. Investor, customer and employee expectations continues to increase
- 4. Preparing for reasonable assurance

Novartis

Continue to advance our ESG reporting, preparing for a future convergence of financial and non-financial reporting in line with regulations

Non-financial reporting goes beyond our disclosures, allowing us to build trust with society and drive long term, sustainable value

Continued focus and investment into our ESG reporting capabilities, underpinned by a structured reporting operating model, positions us well to meet these existing and emerging requirements





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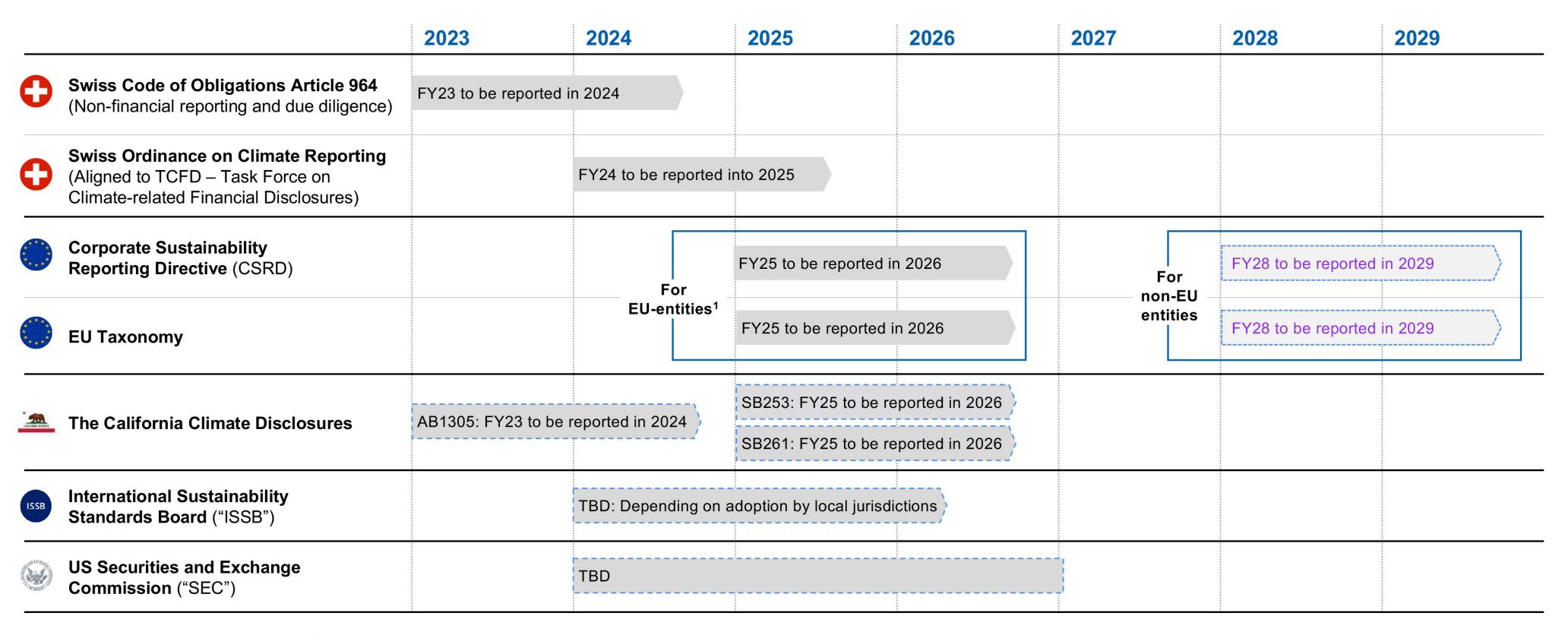
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The ESG reporting landscape

There are significant upcoming ESG reporting regulations which are expected to impact Novartis integrated report and assurance requirements



^{1. &}gt;250 employees, EUR 40m turnover, EUR 20m assets.





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Novartis is successfully preparing for emerging requirements

We are well positioned to meet existing and emerging requirements in this rapidly evolving, and complex regulatory landscape

Regulations and standards	Effective from	Implications and Novartis status		
Swiss Code of Obligations Article 964	FY 2023	 Novartis Integrated Report 2023 for the first time subject to a shareholder vote at AGM 2024 Due diligence and reporting on child labor and conflict minerals 	✓ On track	
Swiss Ordinance on Climate Reporting	FY 2024	 Disclosures on climate-related risks / opportunities, financial impacts TCFD-ready disclosure, 2023 will be 4th year we have disclosed 	✓ On track	
Corporate Sustainability Reporting Directive (CSRD) (legislation) using ESRS (standards)	FY 2025	 Disclosures across 2 cross-cutting and 10 topic standards – subject to materiality Initially 'limited', later 'reasonable' assurance Sector-specific standards expected in a few years 	✓ On track	
EU Taxonomy	FY 2025	 Disclosure of sustainable ('green') share of eligible and aligned revenue, CAPEX, and OPEX 	✓ On track	
The California Climate Disclosures	FY2025	 SB253: require carbon emissions reporting, 3rd party assurance SB261: climate risk report aligned to TCFD-framework AB1305: disclosure requirements over carbon or GHG emission reduction claims 	✓ Emerging	
International Sustainability Standards Board ("ISSB")	FY 2024	 Investor-focused standards, designed to form global baseline for sustainability reporting Financially material topics to be disclosed for investors (S1) Additional detail for climate disclosures, building on TCFD (S2) 	Monitoring	
US Securities and Exchange Commission ("SEC") Climate Proposal	TBD	TBD – ongoing uncertainty regarding final rules and timelines	Monitoring	





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ESG reporting at Novartis

We continue to articulate our sustainability journey, communicating our progress and performance to our stakeholders and ensuring we comply with regulatory requirements applicable to our company

Our focus continues to be

Preparing for additional regulatory requirements and the future alignment of ESG and financial reporting

Preparing for **future assurance requirements**, planning our transition from limited to reasonable assurance

Conducting regular **materiality assessments** to monitor and manage our most material risks and opportunities

Continuing to explore our **measurement of 'impact'** in line with the Value Balancing Alliance and International Foundation of Value Impact

Continuous assessments of quantitative and qualitative metrics to further enhance and articulate our sustainability position

Continuing to focus and invest in our ESG reporting operating model to **drive further improvements** and stay at the forefront of ESG reporting





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Lutz Hegemann

President, Global Health & Sustainability







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We still have a long way to go in reaching our ambitious long-term targets, but we are making progress; plans and commitments on track...

Progress of selected targets

✓ On-Track

ESG Pillar	Long-term public target	2023 target	Q2/Q3 progress	
Innovation	+200% patient reach in LMICs with Strategic Innovative Therapies by 2025 ¹ (1.6mn) - bond target	1.1m	1.5mn	<u> </u>
& Access	+50% patient reach with Global Health flagship programs ² by 2025 ¹ - bond target	22.6m	18.5m	\checkmark
	100% of new launches have a global access strategy	100% of pre-defined launches	On track	\checkmark
Human	Gender balance in management by 2023 - EPIC pledge	48-52%	48% ³	\checkmark
Capital*	100% of recruitment no longer asking for historical salary by 2023 - EPIC Pledge	100%	92%	\checkmark
Environmental Sustainability**	Carbon neutral (scope 1 and 2 emissions) by 2025	-60% (scope 1 and 2) ⁴	-56%	\checkmark
	Carbon neutral (scope 1, 2, 3 emissions) by 2030; Net Zero by 2040	>55% of scope 3 emissions covered with ES criteria in suppliers' contracts	>54% of scope 3 emissions covered	\checkmark
	Waste disposal reduced by 50% by 2025 ⁴	>60% ⁴	64%	<u></u>
	Plastic neutral by 2030; eliminate PVC in packaging ⁵ by 2025 ⁴	-90% ⁴	-90%	<u></u>
	Water consumption reduced by half in our operations by 2025 ⁴	-45% ⁴	-46%	<u></u>
	Water neutral by 2030	Top 25% sites taking actions ⁶	On track	\checkmark

^{*}Renewed EPIC pledge from 2024; existing EPIC targets until 2023. **Q2 data. EPIC – Equal Pay International Coalition. ES – Environmental Sustainability. LMIC - Low-income and lower-middle income countries. target linked to sustainability-linked bond. 2. Malaria, Leprosy, Chagas disease, Sickle Cell Disease. 3. Reflects post-Sandoz spin. 4. vs. 2016 baseline. 5. Defined as secondary and tertiary packaging; primary packaging when feasible. 6. High water risk locations identified based on operational risk assessment performed in accordance with WWF Water Risk Filter Tool.







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...which is reflected by consistent industry-leading performance across priority ESG ratings

	Scores ¹					
Priority rating	Updated	Current	Previous ²	Status	Industry perspective	
MSCI	Jul 2023	AA	AA	Leaders group	One peer with AAA, two peers with AA ³	
Sustainalytics*	Sep 2023	16.2	16.9	Leaders group	Low risk category	
ISS ESG	Jul 2023	В	В	Industry leader group	2/522	
Access to Medicine Index	Nov 2022	3.87	4.18	Leadership group since 10 years	4/20	
CDP Climate Change	Dec 2022	Α	В	Double A List (Leadership)	One peer with double A List ³	
CDP Water Security	Dec 2022	Α	A-	Double A List (Leadership)	One peer with double A List	

^{1.} Score ranges - ATMI: 1 to 5; CDP: D- to A; ISS ESG: D- to A+; MSCI: CCC to AAA; Sustainalytics ESG Risk Rating: 0 (Negligible risk) to 40+ (Severe risk). 2. ATMI is being published every other year. 3. Based on the peer group of 14 global healthcare companies as listed in Novartis Annual Report. *Copyright Morningstar Sustainalytics. All rights reserved. Publication contains information developed by Sustainalytics (www.sustainalytics.com/legal-disclaimers.







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Focusing on innovation and access to medicines to create value for the company while mitigating risks

Creating **impact** by fulfilling unmet medical need through delivering innovative, quality medicines to as many people as possible

Our **Access Principles** are designed to drive impact e.g. significantly increasing impact in CVD through Entresto® emerging market brand

Novartis has one of the **most** extensive pipeline in Global **Health** with 7 new chemical entities currently in human trials across 6 disease areas

5 Long-term commitment, partnerships, early access planning, trial diversity are critical success factors in Global Health

6 Well positioned to meet existing/emerging ESG reporting requirements in this complex regulatory landscape





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QA panel

Klaus Moosmayer

Chief Ethics, Risk & Compliance Officer



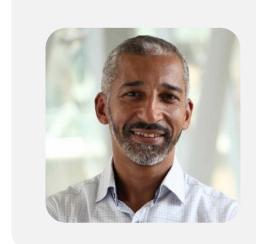
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