

Roche Diagnostics Investor Day 2021

23rd March 2021





Roche Diagnostics Investor Day 2021

Welcome

Karl Mahler | Head of Investor Relations and Roche Group Planning

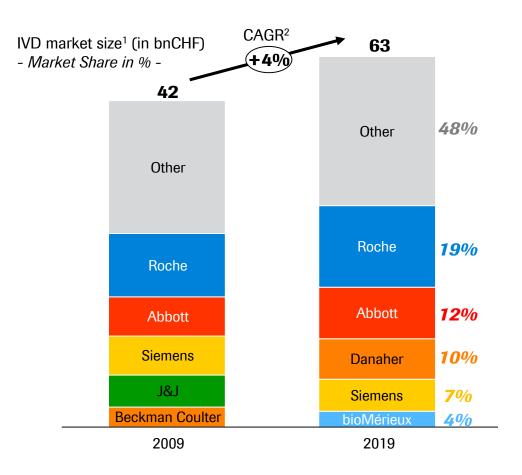
Agenda



Welcome Karl Mahler, <i>Head of investor Relations and Roche Group Planning</i>	
Strategy & Organization Thomas Schinecker, CEO Diagnostics	0.00.0 (0
Diagnostics Solutions & Customer Areas Ann Costello, <i>Global Head Roche Diagnostics Solutions</i>	2.00-2.40pm
Research & Development Palani Kumaresan, <i>Head of Research & Development</i>	
Q&A Birgit Masjost, <i>Investor Relations Officer,</i> & speaker panel	2.40-3.05pm
Break	3.05-3.10pm
Systems Benjamin Lilienfield, <i>Life Cycle Leader Systems</i>	
•	2 10 2 25mm
Benjamin Lilienfield, <i>Life Cycle Leader Systems</i> Infectious Diseases	3.10-3.35pm
Benjamin Lilienfield, <i>Life Cycle Leader Systems</i> Infectious Diseases Michael Hombach, <i>Global Clinical Leader Infectious Diseases</i> Cardiology	3.10-3.35pm
Benjamin Lilienfield, <i>Life Cycle Leader Systems</i> Infectious Diseases Michael Hombach, <i>Global Clinical Leader Infectious Diseases</i> Cardiology Andre Ziegler, <i>Global Clinical Leader Cardiology</i> Oncology	3.10-3.35pm 3.35-3.55pm
Benjamin Lilienfield, <i>Life Cycle Leader Systems</i> Infectious Diseases Michael Hombach, <i>Global Clinical Leader Infectious Diseases</i> Cardiology Andre Ziegler, <i>Global Clinical Leader Cardiology</i> Jill German, <i>Global Head of Pathology Lab</i>	

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IVD Market has seen consolidation *Roche staying in the lead*



Insights

- Roche staying in the lead with 4% growth (CAGR 2009- 2019)
 - broadest menu, highest automation
- Significant M&A activities / consolidation with Abbott (Alere), Danaher (Radiometer, Leica, Beckman Coulter, Cepheid), bioMérieux (BioFire) etc.
- «Other» category has expanded driven by specialty players like Sysmex or low-cost entrants like Mindray (China based)

Source: Divisional MCI, IVD Market Books 2009-2019; CAGR: Compound Annual Growth Rate; ¹ Market size accounts for IVD incl. Blood Glucose Monitoring; ² Growth in constant exchange rate adjusting for currency fluctuations



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Strategy & Organization

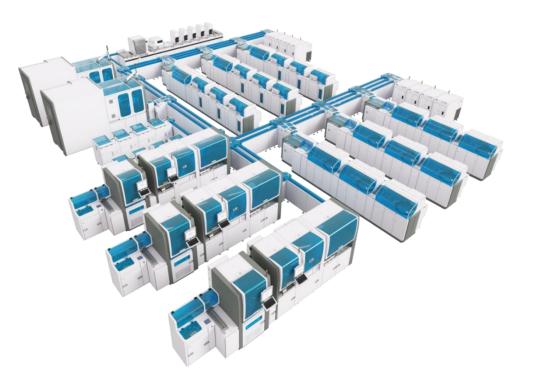
Thomas Schinecker | CEO Diagnostics

Roche clear leader in growing IVD market



14 billion CHF revenue in 2020¹
19% share as IVD market leader¹
23.4 billion tests¹

- **#1** in Clinical Chemistry & Immunodiagnostics
- **#1** in Molecular Diagnostics
- **#1** in Tissue Diagnostics
- **#3** in Point-of-Care Diagnostics
- **#1** in Workflow & IT





Global transformation exercise *Develop strategic options and recommendations*

Strategic topics ...

1	Customers & value pools
2	Diagnostics portfolio segments
3	Digital solutions
4	Geographical focus
5	People & culture
6	Customer centricity & customer experience
7	Fuel innovation engine

... addressed by cross-functional teams of experts



Healthcare objectives *Improve patient outcomes and reduce costs*



Healthcare systems aim to...



Improve outcomes

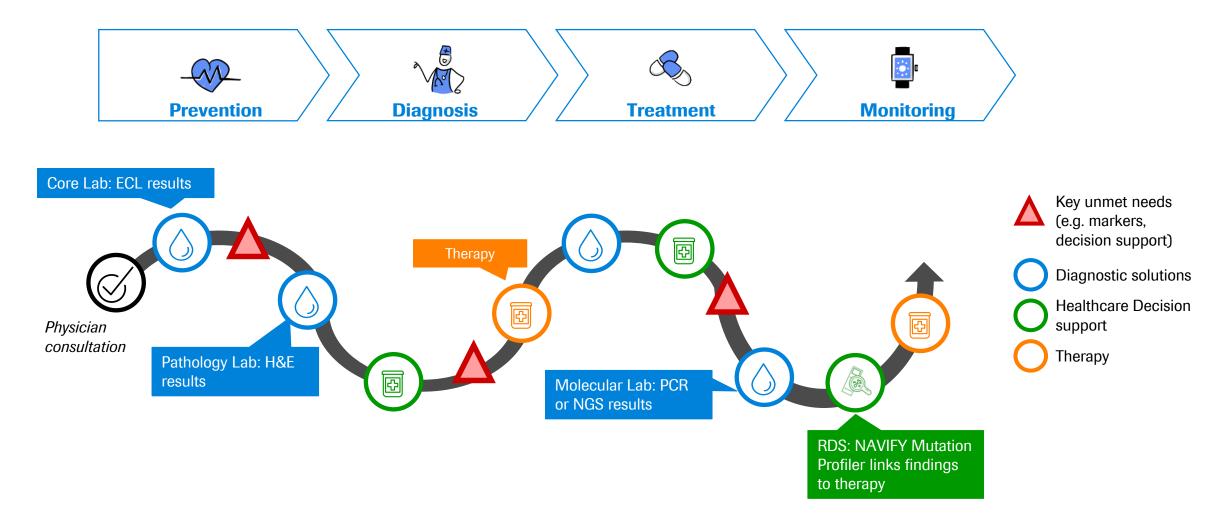
Better outcomes and better social and economic benefits for patients, healthcare providers and the healthcare system as a whole

Reduce costs

Lower total care delivery costs with more effective prevention, diagnosis, treatments and care along patient journey



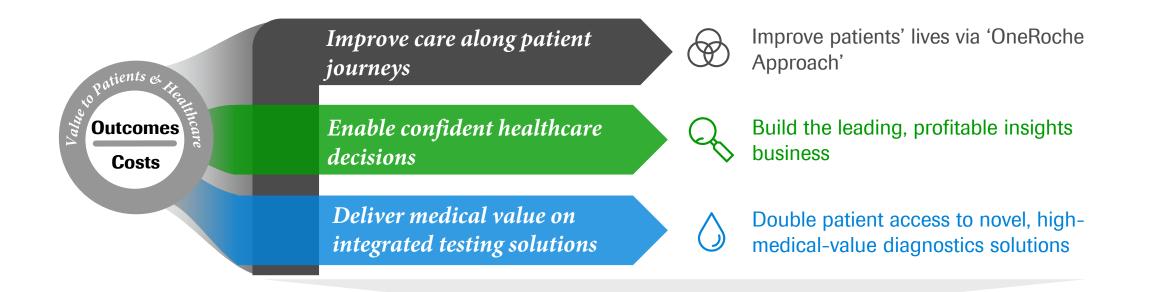
Patient journey *Optimising care along the patient journey*



Patient journey: sequence of care events (e.g. diagnosis steps, medical procedures, medicines) which a patient has to go through for a specific disease from the point where the patient enters the healthcare systems to the point of exit due to any cause; ECL: Electrochemiluminescence; RDS: Roche Diagnostics Solutions; NGS: Next Generation Sequencing; PCR: Polymerase chain reaction; H&E: Hematoxylin & Eosin

Strategy and financial ambitions





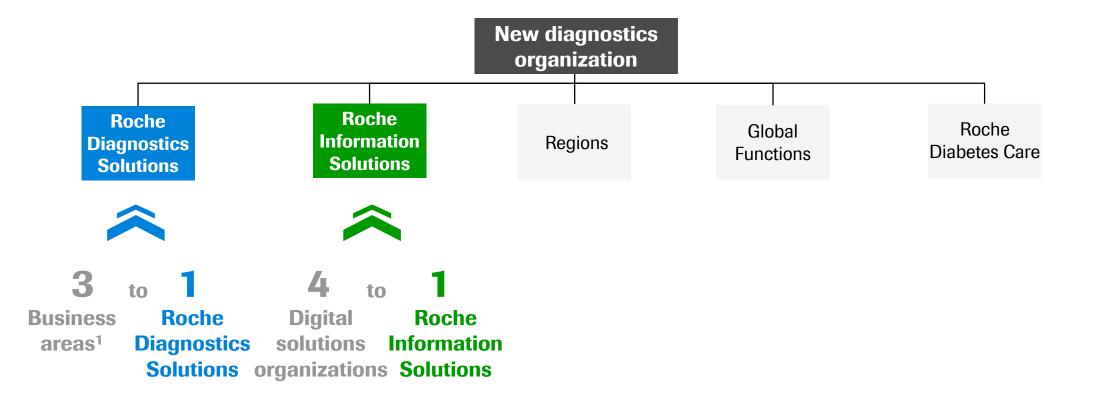


Invest in strategic priorities



Grow market share

Organizational transformation enabling new strategic priorities *Simplification and focus through customer & function centricity*



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Diagnostics reporting 2021 onwards

Old

Moving from business to customer areas and adjusting regions

Asia Pacific

-3%

23% of divisional sales

2020 2019 **Change in %** CHFm CHF CER CHFm **Diagnostics** Division 13,791 12,950 6 14 Centralised and Point of Care Solutions 7,273 7.819 -7 -1 Molecular Diagnostics 3,760 2.109 78 90 **Diabetes** Care 1,670 -5 1,918 -13 **Tissue Diagnostics** 5 1,088 1,104 -1 Japan North America +5% +26% EMEA² ∼4% of divisional sales 28% of divisional sales +19% 40% of divisional sales

New

	2020	2019	Change in %	
	CHFm	CHFm	CHF	CER
Diagnostics Division	13,791	12,950	6	14
Core Lab ¹	6,194	7,078	-12	-6
Molecular Lab	3,760	2,109	78	90
Point of Care	1,079	741	46	54
Pathology Lab	1,088	1,104	-1	5
Diabetes Care	1,670	1,918	-13	-5



Latin America

+14%

∼6% of divisional sales

Funding the Strategy *Shifting investments into strategic priorities*

Free resources due to increased efficiencies Re-invest in strategic focus areas

Margin improvement

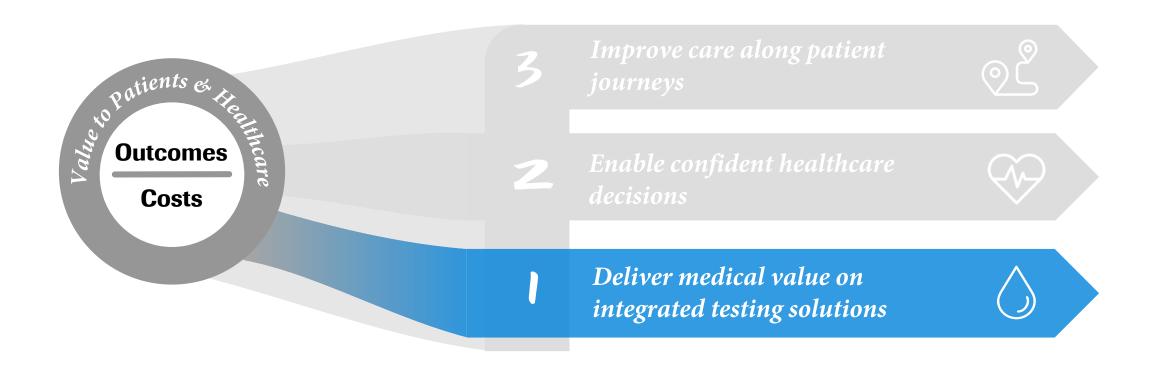
Fund strategic priorities:

- Medical value solutions
- Digital solutions & insight generation
- Disease management
- Access capabilities



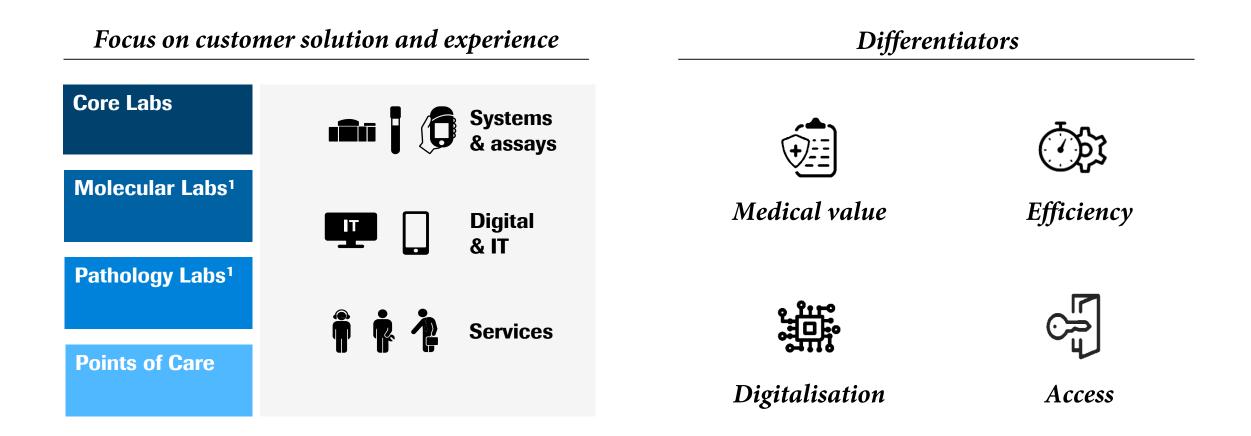


Diagnostics solutions *Deliver medical value on integrated testing solutions*





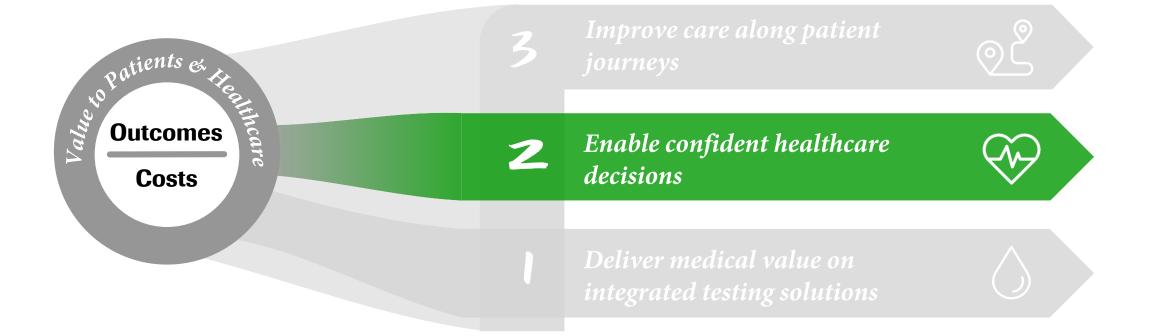
Diagnostics Solutions strategic priorities *Developing comprehensive solutions for our customers*



¹ Sequencing as key technology to address needs of molecular and pathology labs customer segments

Healthcare decision support solutions *Enable confident healthcare decisions*







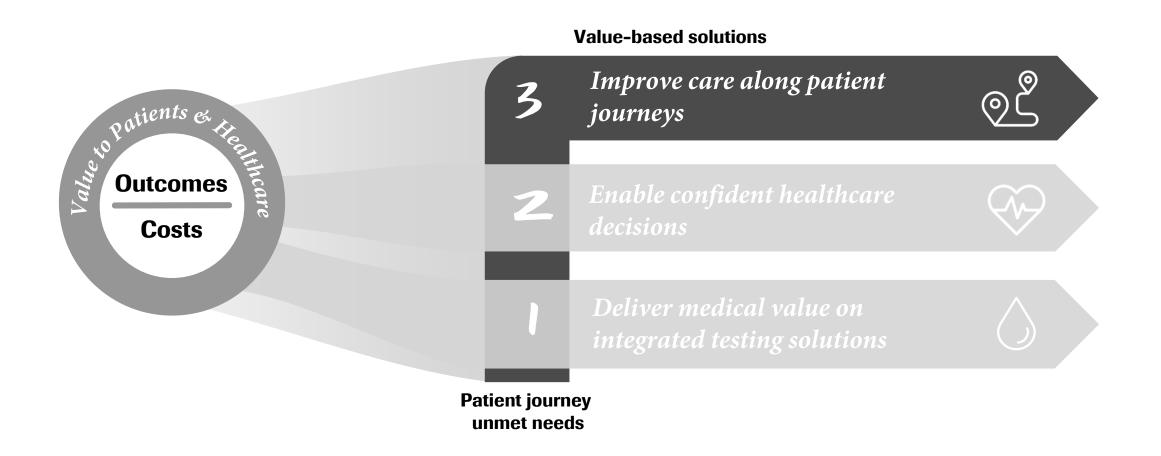
Roche Information Solutions strategic priorities *Supporting healthcare decisions*

Focus on customer solutions and experience **Differentiators** Platforms, applications, marketplace Lab Insights Platform Efficiency Lab and clinical workflow **Provider Insights** Clinical decision support Medical Value Insight generation Disease management **Patient Insights**



Disease management solutions

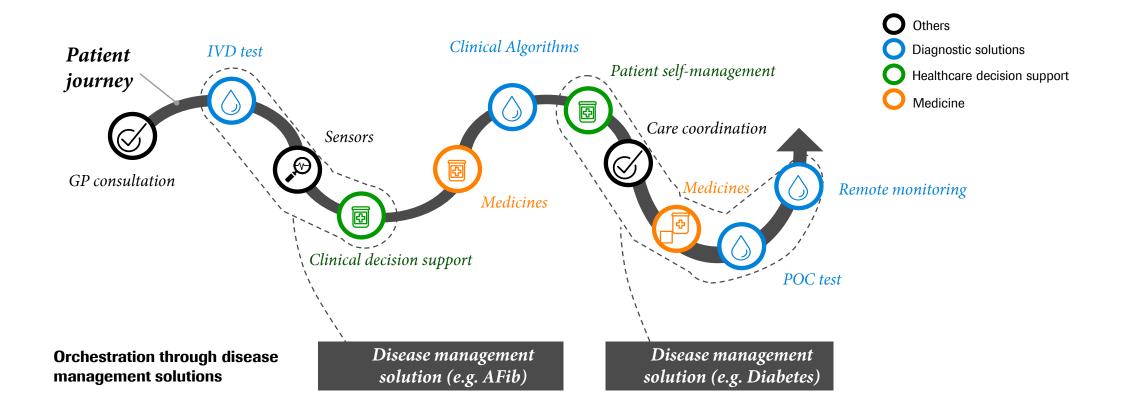
Improve care along patient journeys





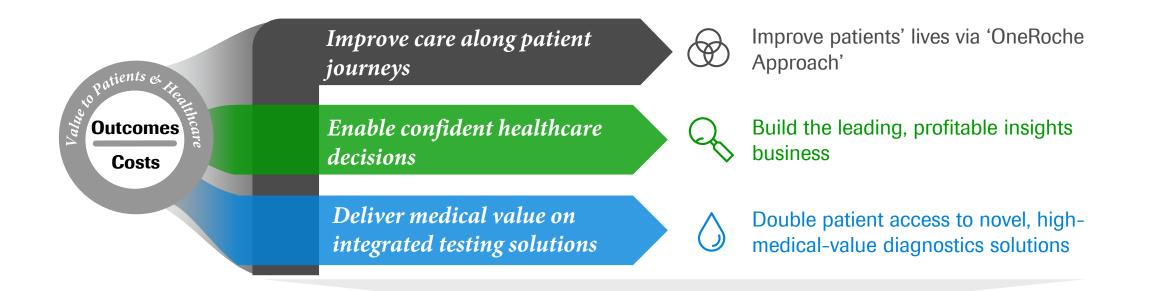
Disease management solutions

Unlocking value through orchestration along patient journey



Strategy and financial ambitions







Invest in strategic priorities



Grow market share



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Diagnostics Solutions & Customer Areas

Ann Costello | Global Head Roche Diagnostics Solutions



Diagnostics solutions: Strategic priorities

Providing comprehensive solutions for our key customer segments



¹ Sequencing as key technology to address needs of molecular and pathology labs customer segments



Diagnostics solutions: Strategic priorities

Achieving differentiation based on four distinct pillars



Molecular Lab & Core Lab, Point of Care: 9 FDA Breakthrough Device **Designations since 2018**



Molecular Lab: **Point of Care:** cobas® prime cobas[®] pulse¹



Pathology Lab: Point of Care: uPath Software v-TAC Software



Molecular &

Pathology Lab:

Cervical Cancer

Screening



Core Lab: Pre-eclampsia in guidelines



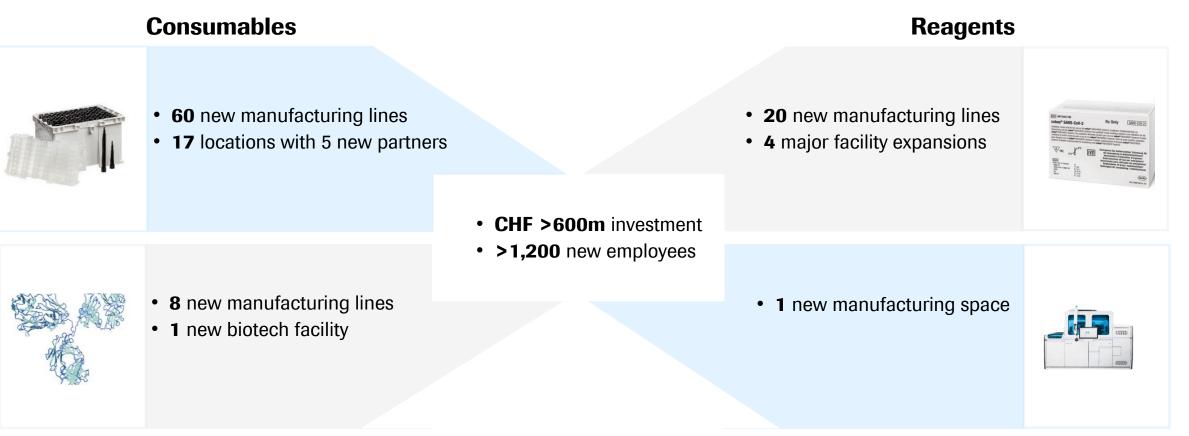
SARS-CoV-2 diagnostics portfolio¹ *Comprehensive portfolio of tests and digital solutions*

	Clinical Labs		Near Patient	
Molecular solutions	 cobas® SARS-CoV-2 cobas® SARS-CoV-2 Variant cobas® SARS-CoV-2 & Influenza A/B TIB MOLBIOL LightMix® Modular SARS-CoV-2 	Launched Launched Launched Launched	 cobas® SARS-CoV-2 & Influenza A/B cobas® SARS-CoV-2 	Launched In-development
Immunology solutions	 Elecsys® Anti-SARS-CoV-2 Elecsys® Anti-SARS-CoV-2 S² Elecsys® SARS-CoV-2 antigen Elecsys® IL-6 Test to diagnose cytokine release syndrome 	Launched Launched Launched ⁴ Launched	 SARS-CoV-2 rapid antibody SARS-CoV-2 rapid antigen SARS-CoV-2 rapid antigen nasal SARS-CoV-2 rapid antigen nasal self-testing SARS-CoV-2 & Influenza A/B rapid antigen 	Launched ^{3,4} Launched ^{3,4} Launched ^{3,4} Launched ^{3,4,5} In-development ^{3,4}
Digital solutions	 Viewics LabOps COVID-19 for efficiency improvements 	Launched	 NAVIFY Remote Monitor⁶ v-TAC⁷ digital algorithm for blood-gas iThemba Life COVID-19 cobas Infinity POC COVID-19 NAVIFY Pass 	Launched Launched Launched Launched Launched

CER: Constant Exchange Rates (avg FY 2020); ¹ Not all products are available in all countries; ² Spike protein; ³ External distribution partnership; ⁴ Not yet approved in the U.S; ⁵ Germany only; ⁶ US only; ⁷ v-TAC: venous to arterial conversion

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Investing CHF >600m to increase supply chain capacities *Driving to unprecedented volume in record time*



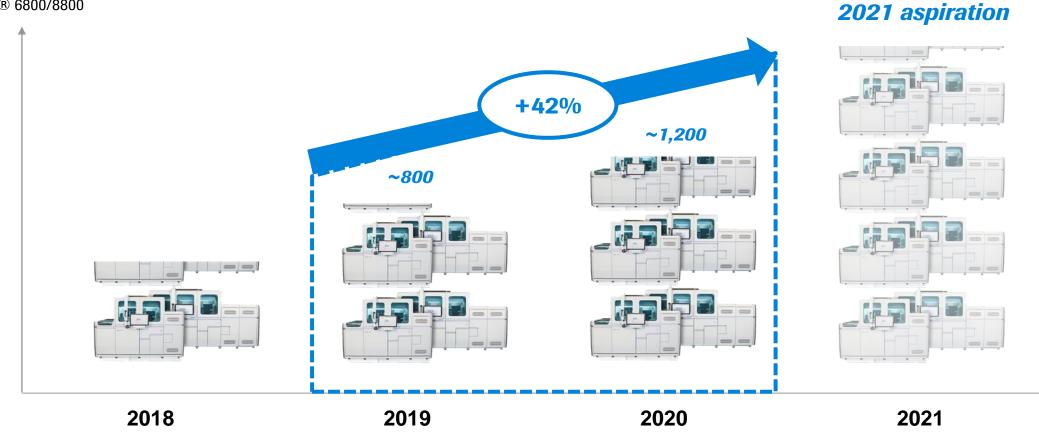
Raw materials

Instruments



Molecular Lab installed base *We significantly increased our footprint in the market*

Installed base for cobas® 6800/8800



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Levering our installed base in the future *Enabler to sell high medical value biomarkers*

Further consolidation of labs & customer preference for fully automated solutions +42%

Our aim to bring more menu to installed base focusing on medical value

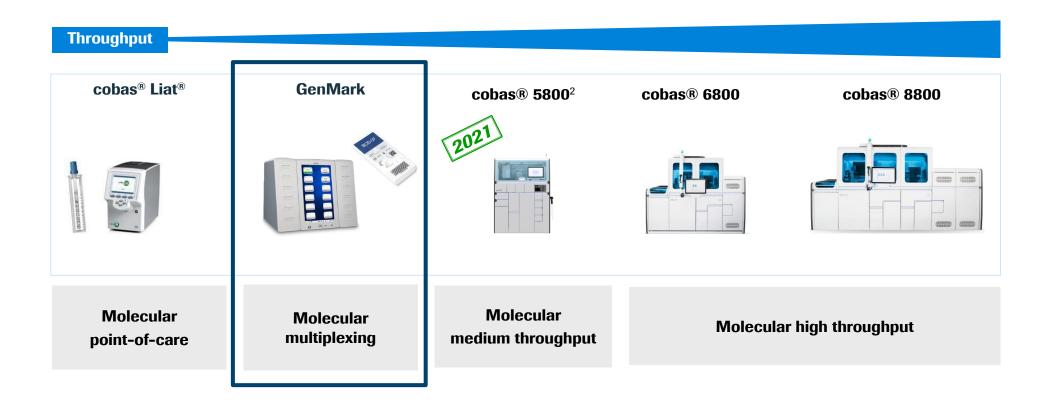
Increase of installed base for cobas® 6800/8800 in 2020

We built a strong position for sustainable performance

Roche molecular solutions portfolio



GenMark¹ Diagnostics fills the portfolio gap in molecular multiplexing





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Research & Development

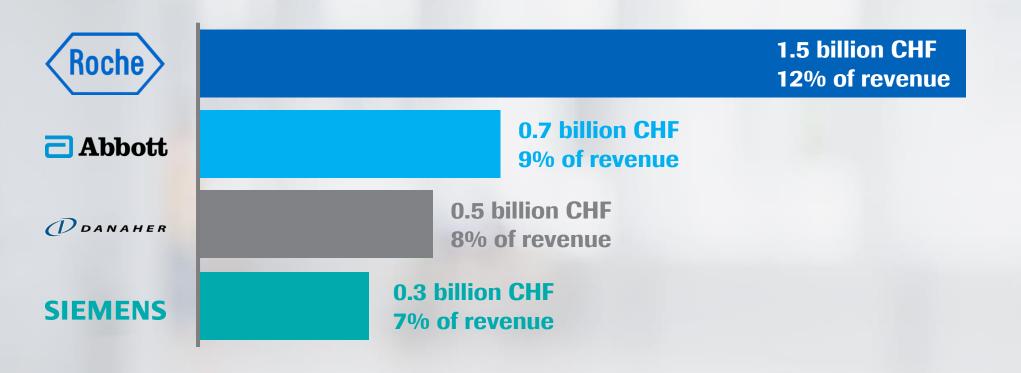
Palani Kumaresan | Head of Research & Development

Our commitment to innovation



We invest more in our IVD portfolio than other companies

125 CHF million per month



R&D investments as percentage of revenue for 2019



R&D efficiencies

Implementing our new strategy will improve productivity



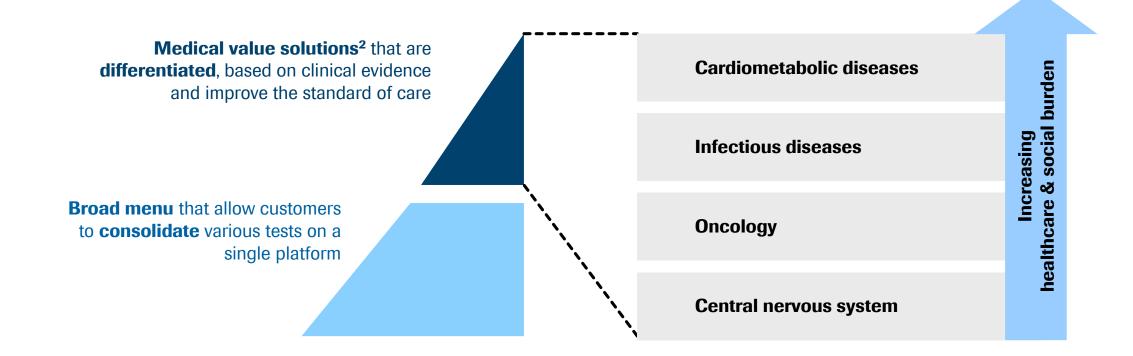
- Improved standardization and cross-pollination of best practices
- Greater shift of funds to projects
 versus non-project activities



- More rigorous portfolio prioritization
- Internalize learnings from unprecedented development timelines of COVID solutions



Strategy around menu expansion *Broadest menu and most differentiated medical value solutions*

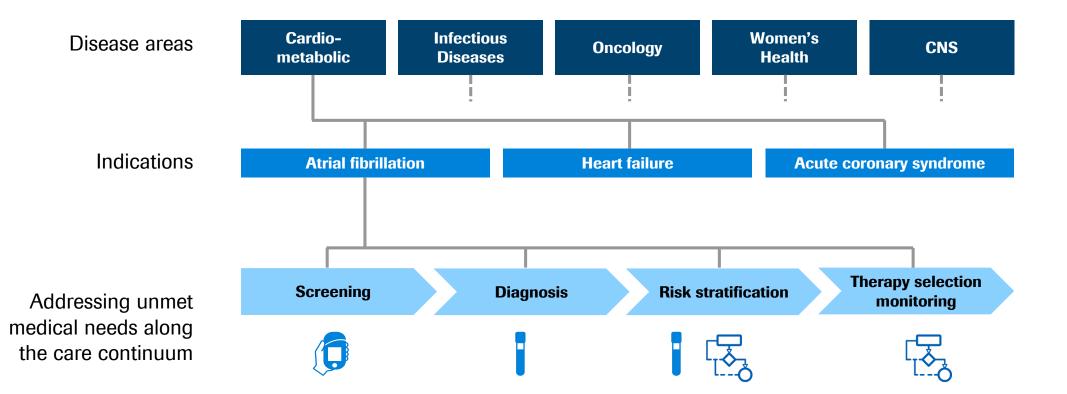


With medical value solutions & broad menu we address top healthcare burdens¹



Approach to medical value solutions

Multi-modal, multi-parametric approach along continuum of care







A broad portfolio of solutions across the care continuum

Disease area	Indication	Screening	Diagnosis	Risk stratification	Therapy selection / monitoring
Cardio-	Atrial fibrillation		•		
metabolic	HF (incl. HF in T2D)				
	ACS				
	Sepsis			•	•
Infectious	Tuberculosis	0		0	
Diseases	Vector-borne disease	•	•	O	
Bioodooo	Hepatitis		• •		
	Respiratory viruses	•		0	0
	Lung	0	• •		
Oncology	Breast			• •	
Oncology	GU, GI, Melanoma	•		0	
	Liver	• •	0	0	0
Women's	Endometriosis		0	0	0
Health	Carrier screening		0		
ONG	Alzheimer's disease	0	• •	0	• •
CNS	Parkinson's disease				•
Acute Coronary Synd leart failure; T2D: Typ genitourinary; GI: Gas : Central nervous syst	be 2 Diabetes; Core La contractional; Core La contractional; Core La contractional contractional contractions and contraction	ab Molecular Lab	Pathology Point of Lab Care	 On market In development Under evaluation 	

Roch

Recent Breakthrough Device Designations (BDDs) *Leading innovation recognized by the FDA*



Infectious diseases	Oncology	Women's health	CNS	Others
cobas® EBV: EBV in transplant patients	FACT CDx (liquid biopsy assay): 70 oncogenes + MSI + bTMB	Elecsys® sFlt-1/PIGF: rule- out of Preeclampsia within 1 week	Elecsys® ß-Amyloid and Elecsys® p-Tau in Cerebro Spinal Fluid assays: PET	CoaguCheck® Direct-X: Patients on Factor Xa
cobas® BKV: BKV in transplant patients	Elecsys® GALAD score:	WEEK	concordance and	
	Diagnosis of early stage hepatocellular carcinoma		progression in Alzheimer's Disease	
	Elecsys® GDF-15: GDF-15 in cachectic patients with solid tumors ¹			

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Key launches 2021

	Area	Product	Description	Market ¹
	Core Lab	cobas [®] pure integrated solutions	Low-to-medium volume SWA	CE
	COLE LOD	cobas [®] pro integrated solutions	New high throughput configurations of the cobas pro instrument	US & CE
Instruments	Point of Care	cobas [®] pulse	Successor of Accu-Chek [®] Inform II	CE
mstruments	Molecular Lab	cobas [®] 5800	Fully automated low throughput PCR system	CE
		AVENIO Edge System	Automated sequencing library preparation and target enrichment instrument	WW
	Diabetes Care	Accu-Chek Instant	New features for the monitoring system to increase performance and user experience	WW
		Elecsys [®] SARS-CoV-2 Antigen	Automated laboratory assay intended as an aid in the diagnosis of SARS-CoV-2 infection	US
Tests	Core Lab	 Elecsys® NT-proBNP IU extensions in Heart Failure extension for Atrial Fibrillation Elecsys® TnT-hs 3 claim extensions in Coronary Arterial Disease 	A set of 5 intended use extensions in the Coronary Arterial Disease, Atrial Fibrillation and Heart Failure Space	CE
	Molecular Lab	AVENIO FoundationOne kit (RUO)	Decentralized kit of the FoundationOne test	WW
		KAPA HyperPETE kit	New targeted sequencing portfolio using primer extension for small targets	WW
	Pathology Lab	uPath 2.0	First IVD release and version of Open API of the clinical pathologist workflow module for NAVIFY Digital Pathology & on-premise uPath	WW
		RUO Algorithms	Whole slide image analysis algorithms (ER (SP1), Ki-67 (30-9), and PR (1E2))	WW
	Insights	NAVIFY Oncology 1.0	Modular Oncology decision support solution	WW ³
Digital Solutions		NAVIFY Pass 1.0	Solution for providers to communicate SARS-CoV-2 rapid antigen test results to a mobile app	US & CE ³
Solutions	Core Lab	Elecsys [®] GAAD Algorithm	Algorithm for early detection of HCC in patients with chronic liver disease.	CE
	Diabetes Care	RocheDiabetes RemoteCare	Module within the RocheDiabetes Care Platform enabling remote interactions between HCPs and patients, including a patient dashboard, check-in and chat functionality	WW ³
		Accu-Chek SugarView	Meter-free blood glucose testing using a smartphone app and test strips	OUS ³





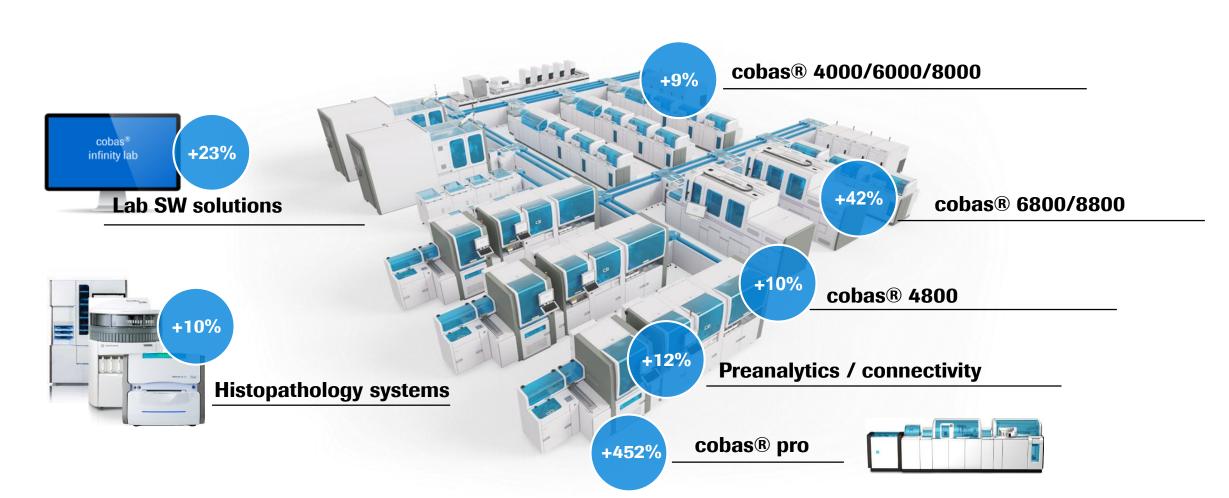


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Systems

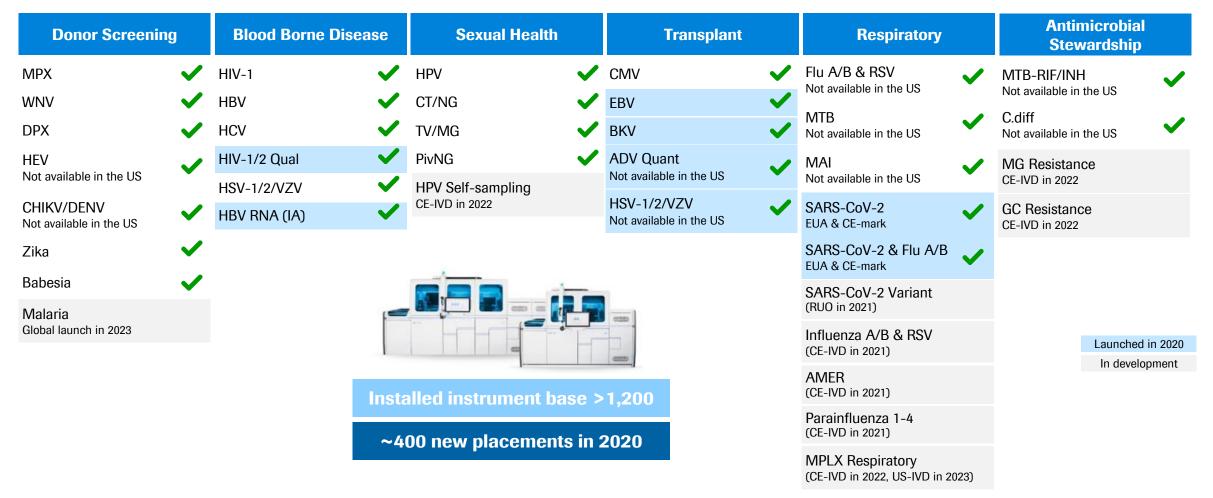
Benjamin Lilienfield | Life Cycle Leader Systems

Largest installed base worldwide with significant growth in 2020



Roche

cobas[®] 6800/8800 menu expansion driving growth in molecular *Further growing the installed base in 2021*



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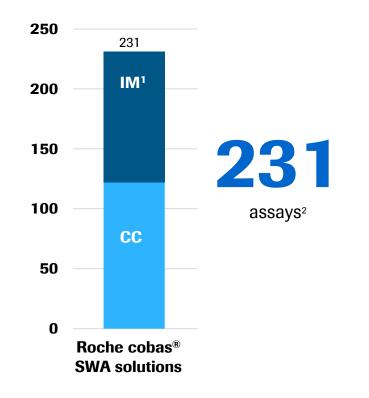
40

MPX=multiplex detection of HIV-1, HIV-2, HCV and HBV; WNV=West Nile virus; DPX=duplex detection of parvovirus B19 and HAV; HEV=Hepatitis E virus; CHIKV=chikungunya virus; DENV=Dengue virus; CMV=Cytomegalovirus; MTB=Mycobacterium tuberculosis; MAI=Mycobacterium avium-intracellulare infection; RIF=rifampicin; INH=isoniazid (detection of RIF/INH resistance in MTB positive samples); TV=trichomonas vaginalis; MG=mycoplasma genitalium; Babesia=detection of babesiosis caused by tick-born parasites; EBV=Epstein-Barr virus post-transplant monitoring; BKV=BK virus post-transplant monitoring; ADV=Adenovirus post-transplant monitoring; HSV-1/2/VZV=multiplex detection of Herpes simplex virus 1 and 2 and Varicella-zoster virus; MPLX=detect and discriminate multiple (up to 14) pathogens associated with a clinical syndrome, including SARS-CoV-2; Malaria=mosquito-borne infectious disease; SARS-CoV-2=2019 novel coronavirus; HSV=Herpes Simplex Virus; VZV=Varicella-zoster virus, the cause of chickenpox and herpes zoster (also called shingles); PivNG=Neisseria Gonorrhoeae Piv Gene Target; CG=Neisseria gonorrhea (NG)--aka Gonococcus (GC); ADV=Adenovirus; AMER=ADV (Adenovirus), hMPV (Human metapneumovirus), EV/RV (Enterovirus/Rhinovirus)

Roche Serum Work Area menu *Broadest menu on one integrated platform*

Breadth of assay menu

Launched in 2020 & upcoming launches in 2021



Immuno chemistry assays		Clinical chemistry assays			
HBsAg II Auto Conf	EBV EBNA IgG	Kappa FLC ³	AST	[[] P2 ⁴	
Androstenedione	EBV VCA IgG	Lambda FLC ³		ALTP2 ⁴	
Anti-SARS-CoV-2	EBV IgM	sdLDL ³	Fen	Fentanyl ³	
Anti-SARS-CoV-2 S	Anti-p53	fCal ³	Ethy	Ethyl Glucuronide ³	
SARS-CoV-2 Ag	HCV Duo	CRP4	sTfF	sTfR Gen 2 ⁴	
IL6 (EUA)	GAAD	A1MG ^{3,4}	Ben	Benz 2 ⁴	
HIV Duo	NT-proBNP claim extension ⁴		Sirc	olimus	
	TnT-hs claim extension ⁴				
	PCT CE claim extension ⁴				
	Vit D total III ⁴				
	Preeclampsia				
	Anti-HBe				
	Alzh CSF biomarkers	On	n market	In development	
	PIVKA II	(Laund	ched in 2020)	(to be launched in 202	

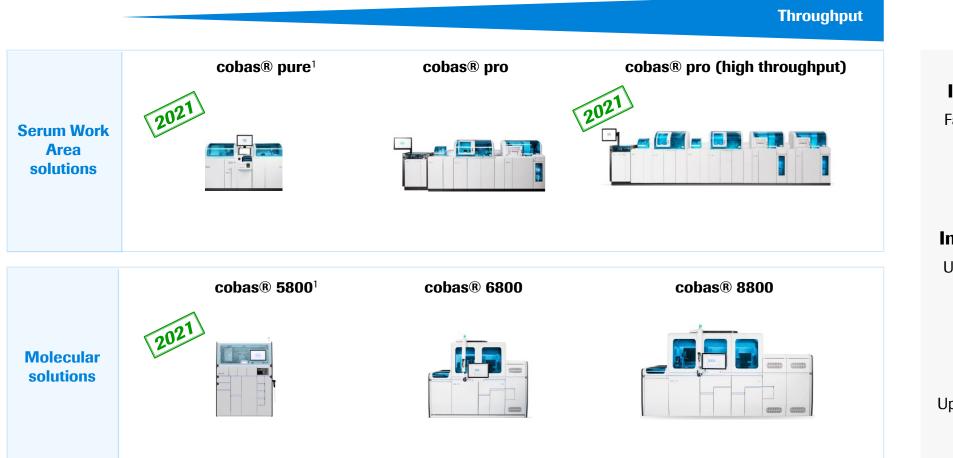
IM: Immunochemistry; CC: Clinical chemistry; ¹ Not including confirmatory tests, stat tests and special assays in the allergy panel. Variants of the same assay (e.g. for HIV AG/Ab, different kit sizes) 41 are counted once; ² Core unit| ISE |c 702 | c 702 | e 801 | e 801; ³ Partner Channel; ⁴ Product update





New systems launches in 2021

Enabling comparable results in different size laboratories



Improved outcomes

Family concept addressing needs of all lab sizes to increase access

Increased profitability

Up to 50% lower SMCs per test and 20% lower service cost

More sustainable

Up to 80% less plastic waste per test

Live Stream Demo



New innovations driving market access



Mass Spectrometry First fully integrated mass spectrometry



- Integration of mass spec into the Core Lab
- Sample in result out
- Increase patient access to mass spec technology
- Promising new high medical value
 biomarkers

Emerging Market Analyzer *Routing testing in remote areas*



- Designed for the specific needs of emerging markets
- **Compact, easy-to-operate** benchtop analyzer
- Combines immunochemistry and clinical chemistry into one box

CHF 2.1 billion accessible market

CHF 2 billion accessible market



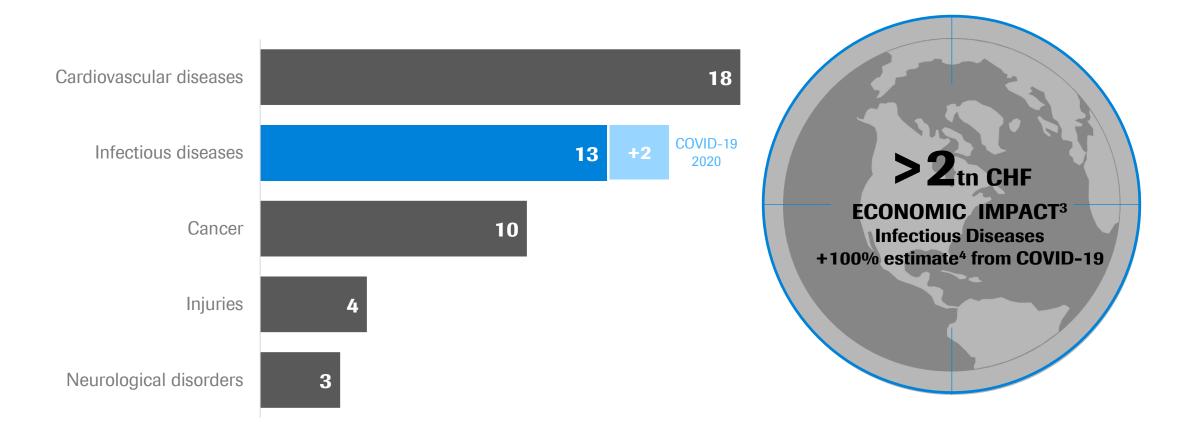
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Infectious Diseases

Michael Hombach Global Clinical Leader Infectious Diseases



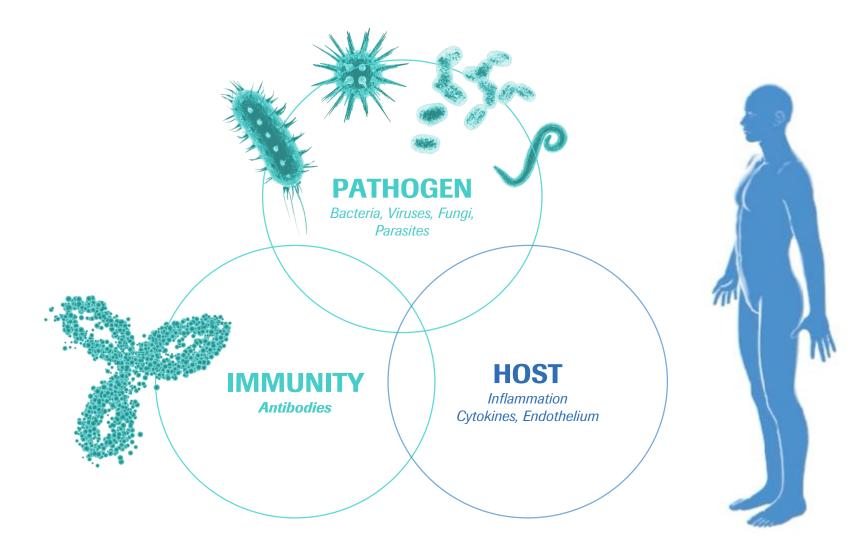
Infectious Diseases are still causing global harm *Cause of death globally (millions per year)*^{1,2}



¹ GBD 2017 Causes of Death Collaborators. Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980-2017: a systematic analysis for the Global Burden of Disease Study 2017. Lancet. 2018 Nov 10;392(10159):1736-1788. doi: 10.1016/S0140-6736(18)32203-7. Epub 2018 Nov 8; ² Sung S., Ferlay J., Siegel R., et al. Global cancer statistics 2020: GLOBOCAN estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA Cancer J Clin.* 2021;0:1-41; ³ Bloom DE et al. National Bureau of Economic Research Working Paper 7757; ⁴ Prediction United Nations (March 9, 2020)

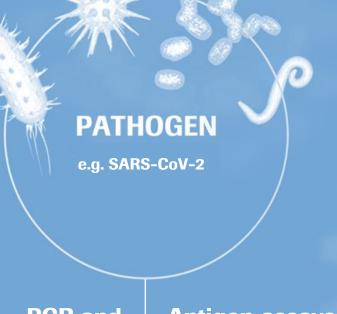


Pathogen, immunity and host belong together *Developing comprehensive disease-based solutions for patients*





What are the medical use cases across the patient journey?



PCR and Antigen assays:

e.g. cobas® SARS-CoV-2 or Elecsys® SARS-CoV-2 Antigen

Is someone actively infected?

IMMUNITY

IgG, IgM, IgA e.g. SARS-CoV-2 antibodies

Antibody assays:

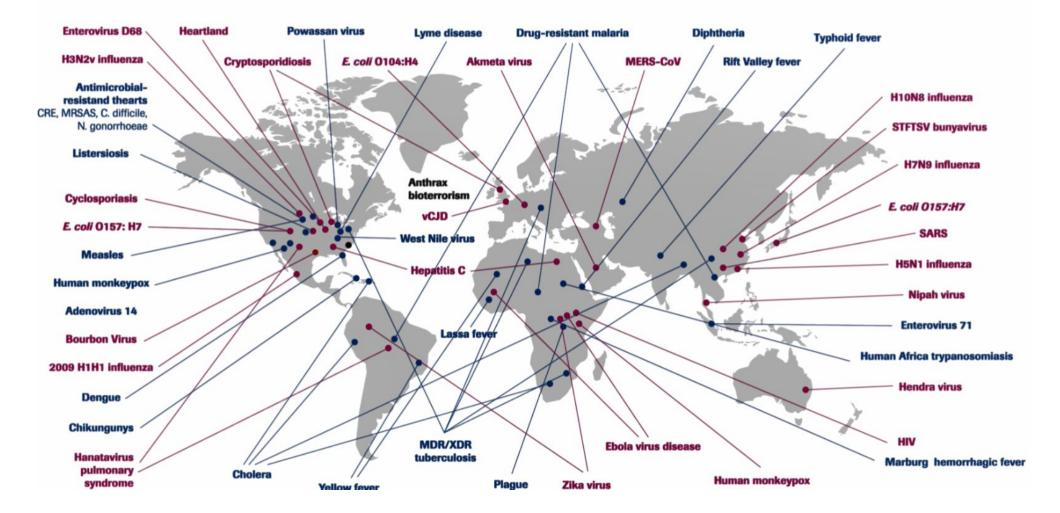
e.g. Elecsys[®] Anti-SARS-CoV-2 Antibody

Has someone recovered?



Global emerging and re-emerging infectious diseases

NEWLY EMERGING
 RE-EMERGING/RESURGING
 DELIBERATELY EMERGING





Roche infectious diseases pipeline *Holistic portfolio coverage is a key medical value*

Viral Hep	atitis + STDs	Pregnancy + Transplant	Respiratory	Vector Borne	Donor Screening	Vaccination Panel	Gastrointestinal	Antimicrobial Stewardship
HIV-1	CT/NG	CMV	Flu A/B/RSV	Zika IgG	Anti-HCV	Anti-HBs	cDiff	MTB-RIF/INH
HBV	TV/MG	HSV-1/2/VZV	MTB	Zika IgM	HBsAg	Rubella IgG	>3 more medical value	>6 more medical value
HCV	HPV	EBV	MAI	Dengue IgG	Anti-HBc	Anti-HAV	solutions	solutions
HIV-1/2 Qual	HCV DUO	BKV	MPLX Respiratory	Dengue IgM	HIV combi PT	>6 more medical value		
Anti-HAV	Anti-HEV IgG	CMV IgG	>5 more high medical	Dengue Ag	HIV Duo	solutions		
Anti-HAV IgM	Anti-HEV IgM	CMV IgM	value solutions	Chik IgG	Syphilis			
HBsAg	Genital Ulcer Panel	CMV Avidity		Chik IgM	Chagas			
HBsAg confirmatory	Vaginal Discharge Panel	Toxo IgG		Lyme IgG	HTLV I/II			
HBsAg quant	Mycoplasma Panel	Toxo IgM		Lyme IgM	CMV IgG			
Anti-HBs	HBeAg quant	Toxo Avidity		>2 more medical	MPX			
Anti-HBc	Anti-HBc quant	EBV EBNA IgG		value solutions	WNV			Sepsis
Anti-HBc IgM	>10 more medical value	EBV VCA IgG			DPX			Jepsis
J	solutions	EBV IgM			HEV			РСТ
Anti-HBe		Adeno Quant			CHIKV/DENV			IL-6
HBeAg		HSV-1/2/VZV			Zika (US-IVD)			IL-6 US neonatal & adu
Anti-HCV		>3 more medical			Babesia			New Early Sepsis Marke
HIV combi PT		value solutions			Zika (CE-IVD)			Digital Decision Suppor
HIV DUO					>2 more medical value			5
HIV confirmatory					solutions			
HTLV I/II								
Syphilis								
RPR								
HSV-1 lgG								

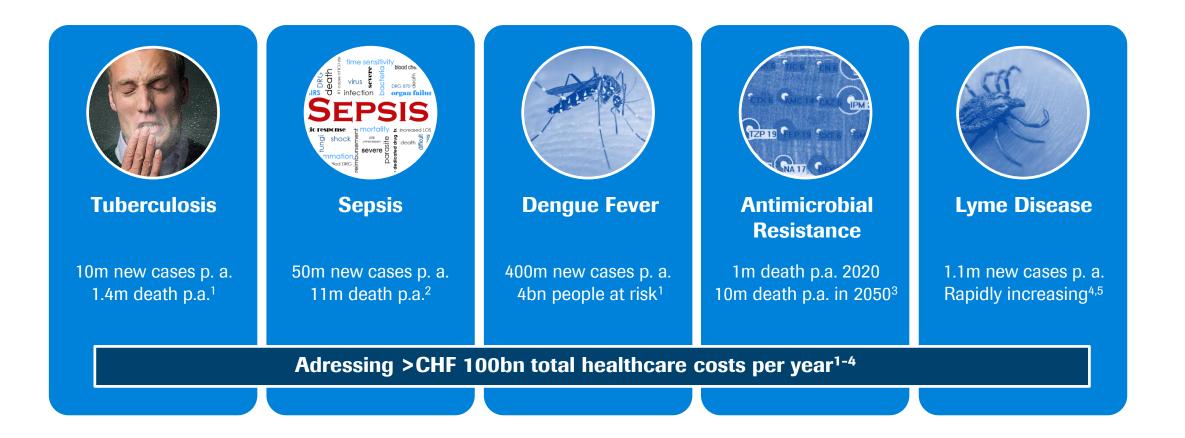
On market In development Considered

HSV-2 lgG



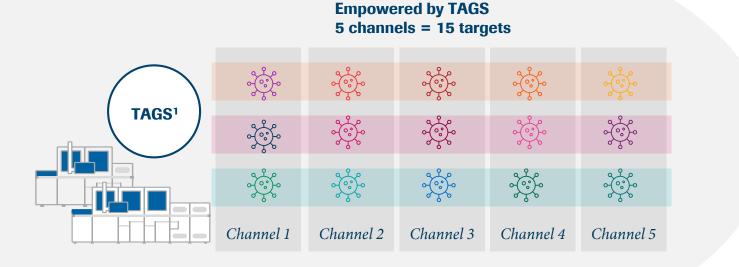
Roche infectious diseases pipeline

Systematically addressing areas of unmet medical needs

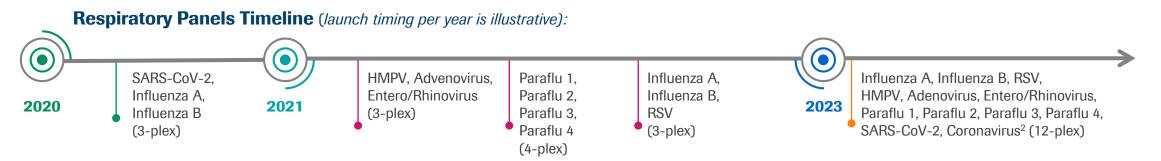




Molecular Diagnostics respiratory multiplex panel *Breaking the barriers of syndromic testing*



- High unmet medical need: differential diagnosis between viruses
- Cost-efficient approach
- Fully automated high throughput
- Utilizes the **cobas**® 6800/8800 install base



¹ TAGS: Temperature Activated Generation of Signal; ² Common cold coronaviruses including HKU1, OC43, NL63, 229E



"I share Alfred Nobel's conviction that war is the greatest of all human disasters. Infectious disease runs a good second."

Peter C. Doherty, 1996 Nobel Prize Laureate in Physiology or Medicine



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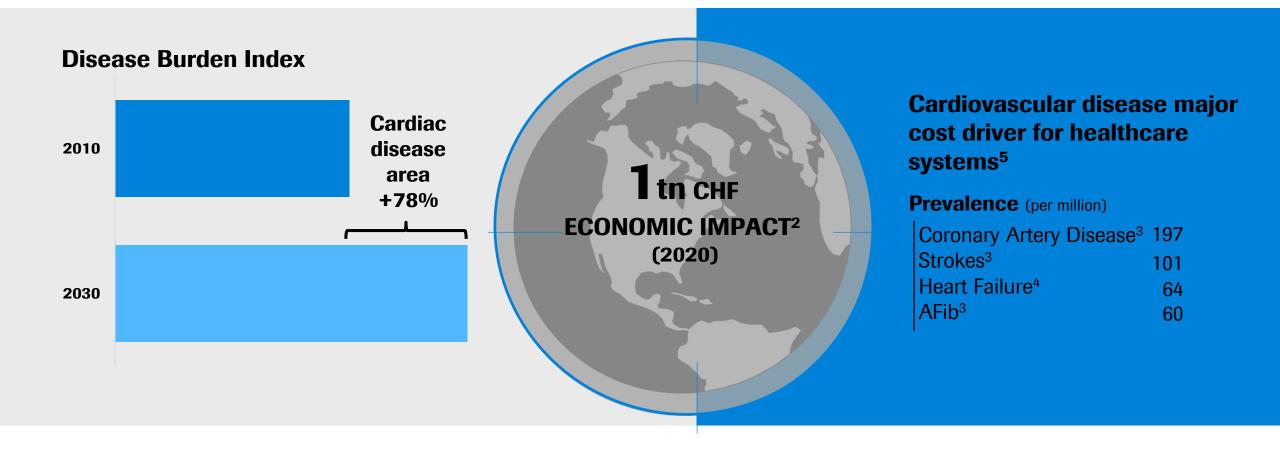
Cardiology

Andre Ziegler | Global Clinical Leader Cardiology



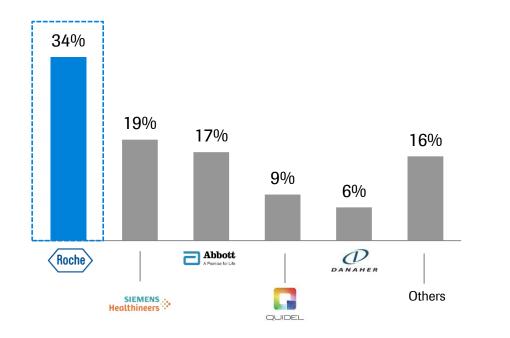
Cardiovascular disease is #1 killer in the world

Cause of 18 million deaths globally per year¹



Roche is an IVD market leader in cardiovascular diseases *Highest benefit class and evidence level in major cardiac guidelines*

Core Lab cardiovascular market share in 2019¹



Clinical practice guidelines⁸



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1....

*"Redefining the gold standard of myocardial infarction using Troponin T"*⁴

- Diagnosis^{2,3}
- Risk prediction^{2,3}
- Early invasive strategy²

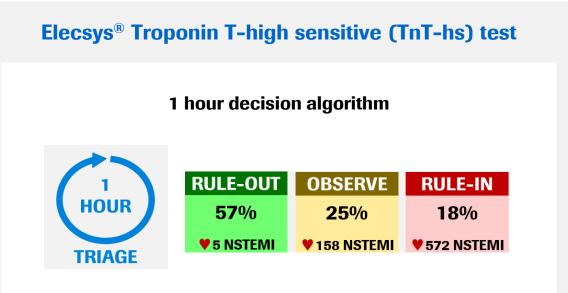
"NT-proBNP: The gold standard biomarker in heart failure"

- Diagnosis^{5,6}
- Prognosis⁶

Kocľ

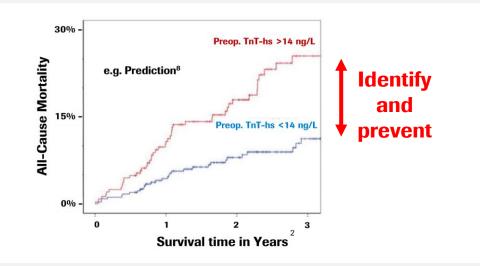


Leading coronary artery disease Setting new standards of care in diagnosing heart attacks



- Shortened hospital stay in suspected heart attack leading to reduced clinical costs^{1,2}
- Algorithm confirmed in interventional studies and included in treatment guidelines^{3,4,5,6}
- 100 million chest pain patients treated globally

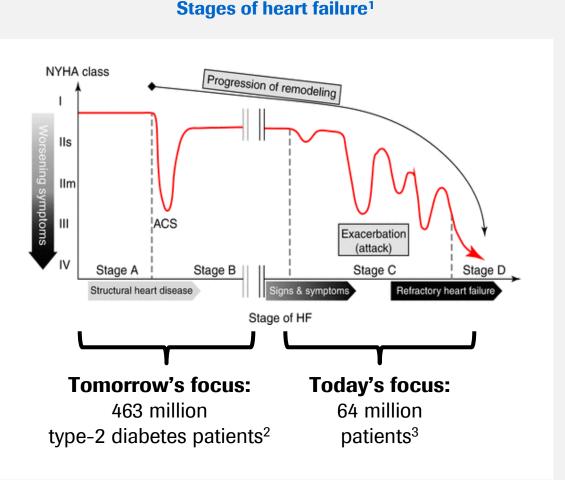
New data on cardiac risk in non-cardiac surgery



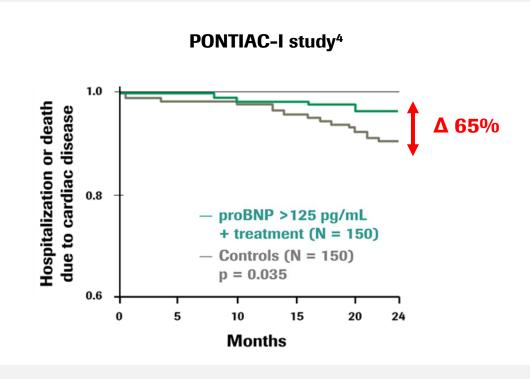
- TnT-hs test able to predict heart attack risk and mortality in non-cardiac surgeries
- > 80% of myocardial injuries after non-cardiac surgery are clinically asymptomatic
- 300 million non-cardiac surgeries globally^{6,7}



Transforming diagnostics in heart failure *Type-2 diabetes: Identifying heart failure early to improve outcome*



New NT-proBNP intended use (IU) to be launched in 2021



 Identify type-2 diabetes patients with high cardiovascular risk to start effective drug treatment

¹ Kato M. The Concept of Heart Failure. 2018 (doi.org/10.1007/978-4-431-56065-4_1); ² Saeedi P et al., Diabetes Res Clin Pract 2019; 157: 107843; ³ Groenewegen A et al, Eur J Heart Failure 2020; 22: 1342; ⁴ Huelsmann M. et al. JACC. 2013, 62:1365, confirmatory clinical trials (RCTs) running both in Europe (NCT02817360, PONTIAC-II) and Asia (NCT04286399, ADOPT).

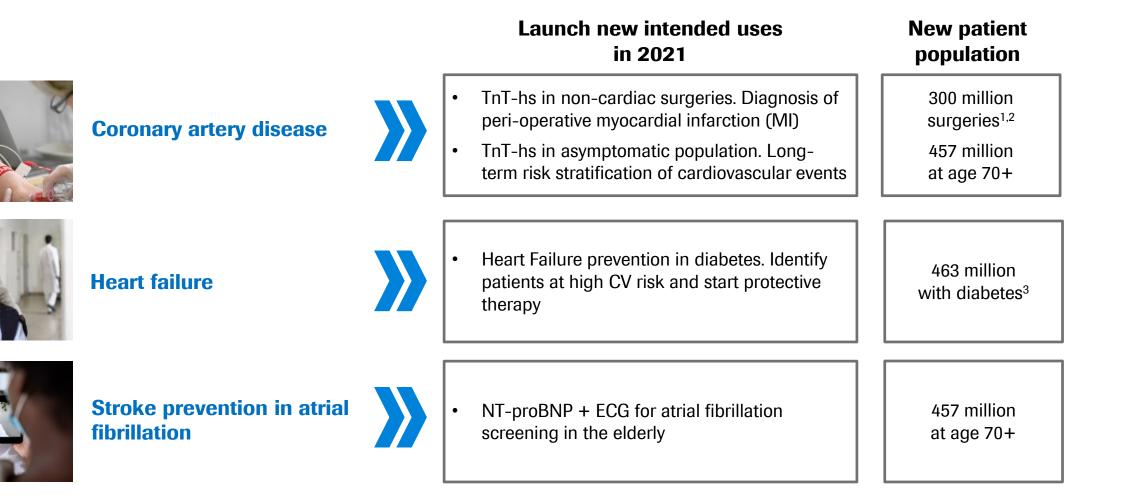


Improving disease management to reduce strokes *Innovation on-market and pipeline for atrial fibrillation*

Screening	Diagnosis	Risk stratification	Therapy selection
NT-proBNP ¹ and handheld ECG	ECG & new biomarkers ³	ABC risk scores with GDF-15 and clinical information	Integrated digital solutions; ABC scores
Launch in 2021 ²	Research ongoing ³	On-market ⁴	Clinical trials (RCT) ^{5,6}
+29% AFib patients identified	Identify patients at high risk for Afib and recurrence of AFib ³	Best available predictors of stroke and bleeding risk ⁴	Personalised risk assessment for better outcomes: Reduce stroke risk ^{5,6} Increase therapy adherence ⁵

Cardiovascular disease solutions

New solutions to impact medical practice







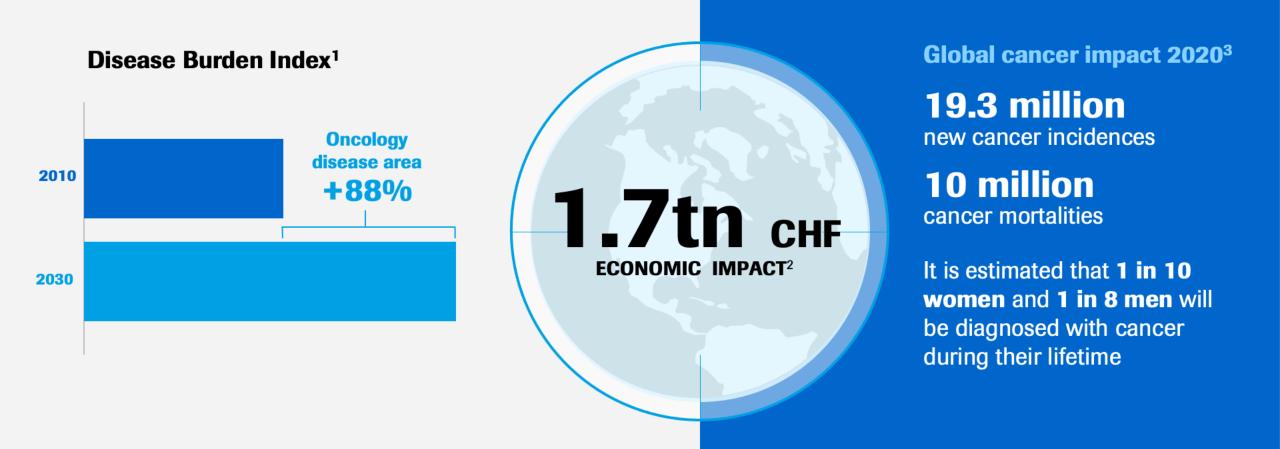
Roche Diagnostics Investor Day 2021

Oncology

Jill German | Global Head of Pathology Lab

Global cancer burden projected to increase Significant impact to both human lives and world economy





The field of oncology is evolving and increasing in complexity Driving the need for novel diagnostic solutions



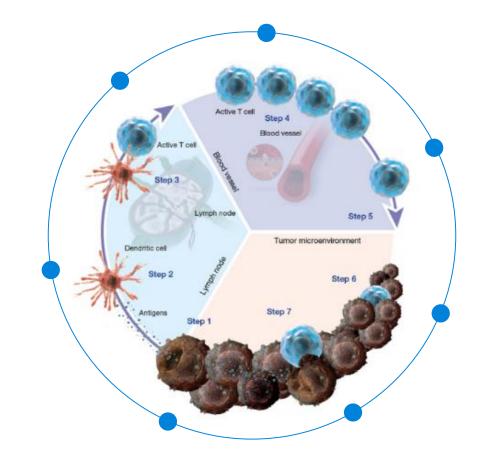
Oncology market is rapidly evolving

New therapies and therapy combinations emerging to prolong patients' lives



5,000+ clinical trials

are now exploring the utility of cancer immunotherapy



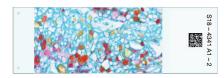
Growing understanding of the biological complexity of immune oncology



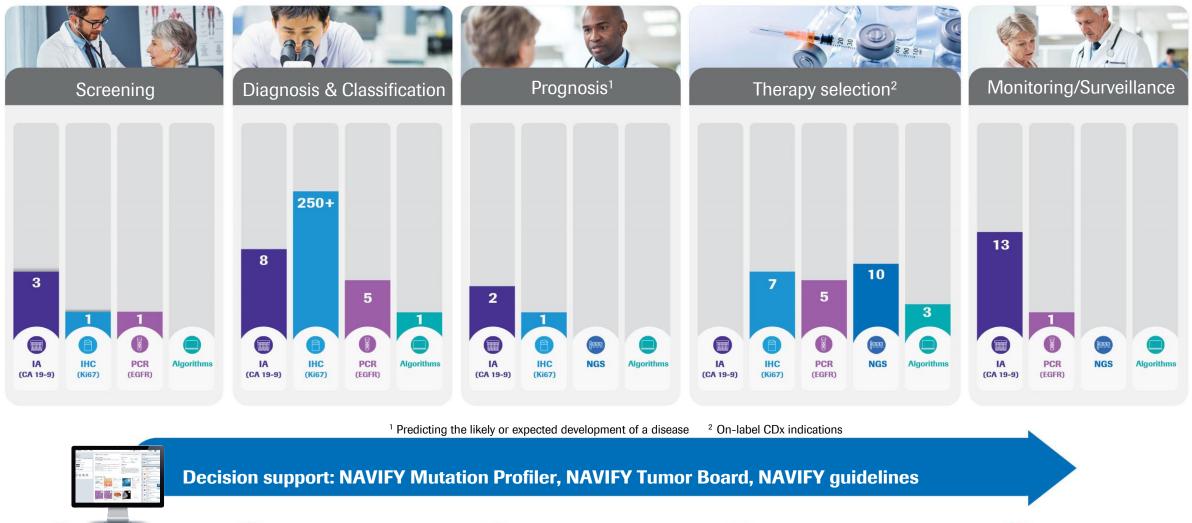
New diagnostics and digital tools are required

Innovation is needed to identify optimal therapies for individual patients

- Multi-modal diagnostics
- Clinical decision support



Supporting patient journeys with our oncology portfolio Sales of oncology reagents surpassing CHF 1.8 bn in 2020







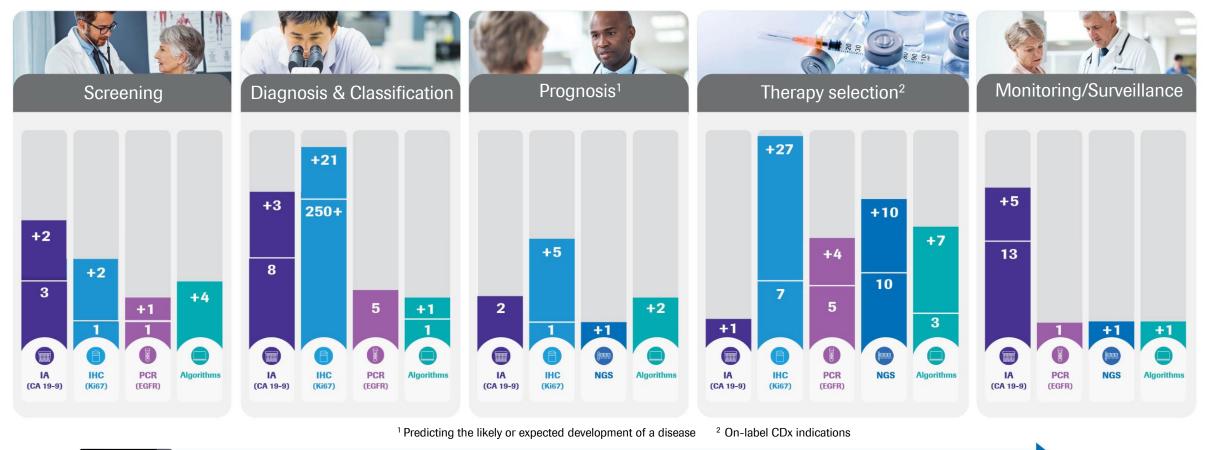




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loci

Supporting patient journeys with our oncology pipeline *Pharma partner of choice, driving personalised healthcare*





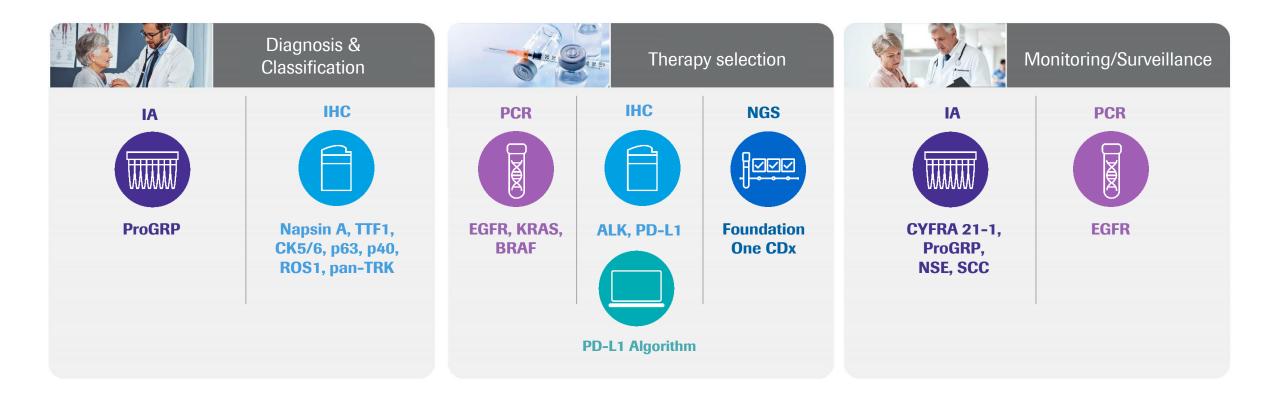








Example: Our comprehensive solution for lung cancer *Innovating clinical decision making and improving patient care*





Roch

Integrated oncology decision support AI-enabled digital solutions for informed, efficient patient management









Roche Diagnostics Investor Day 2021

Closing

Thomas Schinecker | CEO Diagnostics

Setting up Diagnostics for a sustainable and successful future



Point of departure	Healthcare is shifting to reward improved patient outcomes at reduced cost of care Roche as a market leader is uniquely positioned to address the evolving healthcare needs
Strategy	Expand the business model from diagnostics solutions to healthcare decision support and disease management to improve patient outcomes Invest in innovation, access and partnering
Implication	The new Diagnostics strategy will contribute to the Roche strategic ambitions Shift investments and realign the operating model to implement the strategy

Diagnostics investor day summary





Grow our market share

- Larger installed base and new systems launches fueling growth
- Differentiation through medical value
- Broad and innovative testing pipeline portfolio



Invest in strategic priorities

- Increase productivity by simplifying the organization
- Reallocate investments to drive innovations



Doing now what patients need next