

Research & early development Innovation and therapeutic focus

Forward-looking statements

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- Statements of targets, plans, objectives or goals for future operations, including those related to Novo Nordisk's product, product research, product development, product introductions and product approvals as well as cooperation in relation thereto,
- Statements containing projections of or targets for revenues, costs, income (or loss), earnings per share, capital expenditures, dividends, capital structure, net financials and other financial
 measures,
- Statements regarding future economic performance, future actions and outcome of contingencies such as legal proceedings, and
- Statements regarding the assumptions underlying or relating to such statements.

These statements are based on current plans, estimates and projections. By their very nature, forward-looking statements involve inherent risks and uncertainties, both general and specific. Novo Nordisk cautions that a number of important factors, including those described in this presentation, could cause actual results to differ materially from those contemplated in any forward-looking statements.

Factors that may affect future results include, but are not limited to, global as well as local political and economic conditions, such as interest rate and currency exchange rate fluctuations, delay or failure of projects related to research and/or development, unplanned loss of patents, interruptions of supplies and production, including as a result of interruptions or delays affecting supply chains on which Novo Nordisk relies, shortages of supplies, including energy supplies, product recalls, unexpected contract breaches or terminations, government- mandated or market-driven price decreases for Novo Nordisk's products, introduction of competing products, reliance on information technology including the risk of cybersecurity breaches, Novo Nordisk's ability to successfully market current and new products, exposure to product liability and legal proceedings and investigations, changes in governmental laws and related interpretation thereof, including on reimbursement, intellectual property protection and regulatory controls on testing, approval, manufacturing and marketing, perceived or actual failure to adhere to ethical marketing practices, investments in and divestitures of domestic and foreign companies, unexpected growth in costs and expenses, strikes and other labour market disputes, failure to recruit and retain the right employees, failure to maintain a culture of compliance, epidemics, pandemics or other public health crises, the effects of domestic or international crises, civil unrest, war or other conflict and factors related to the foregoing matters and other factors not specifically identified herein.

For an overview of some, but not all, of the risks that could adversely affect Novo Nordisk's results or the accuracy of forward-looking statements in the Annual Report 2023, reference is made to the overview of risk factors in 'Risk Management' of the Annual Report 2023.

Unless required by law, Novo Nordisk has no duty and undertakes no obligation to update or revise any forward-looking statement after the distribution of the Annual Report 2023, whether as a result of new information, future events, or otherwise.

Important drug information

Victoza[®] and Ozempic[®] are approved for the management of type 2 diabetes only Saxenda[®] and Wegovy[®] are approved for the treatment of obesity only



Strategic aspirations 2025



Purpose and sustainabilit) (ESG)

- Progress towards zero environmental impact
- Being respected for adding value to society
- Being recognised as a sustainable employer

Innovation and therapeutic focus

- Further raise the innovation-bar for diabetes treatment
- Develop a leading portfolio of superior treatment solutions for obesity
- Strengthen and progress the Rare disease pipeline
- Establish presence in Cardiovascular & emerging therapy areas



Commercial execution

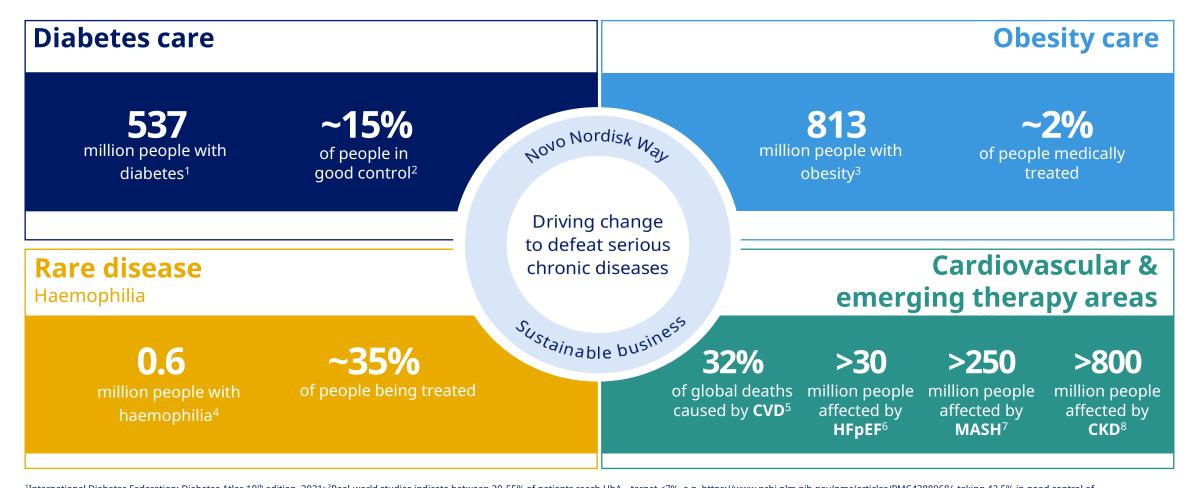
- Strengthen Diabetes leadership aim at global value market share of more than 1/3
- More than 25 billion DKK in Obesity sales by 2025
- Secure a sustained growth outlook for Rare disease

-inancials

- Deliver solid sales and operating profit growth
- Drive operational efficiencies across the value chain to enable investments in future growth assets
- Deliver free cash flow to enable attractive capital allocation to shareholders



Innovation starts with addressing unmet needs, improving outcomes and reaching more patients



¹International Diabetes Federation: Diabetes Atlas 10th edition, 2021; ²Real-world studies indicate between 30-55% of patients reach HbA_{1c} target <7% .e.g. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4388968/, taking 42.5% in good control of treated people; ³World Obesity Atlas, 2023; ⁴WFH annual survey 2020 (120 of 147 countries responded): Prevalence by calculating expected number of patients using 20.9 per 100.000 in haemophilia - Identified patients as proxy for receiving some sort of treatment; ⁵WHO. Cardiovascular Diseases 2023; ⁶Chris J Kapelios et al Cardiac Failure Review 2023;9:e14.; ⁷Younossi ZM et al. Hepatology. 2023;77:1335-1347; ⁸Kovesdy CP. Epidemiology of chronic kidney disease: an update 2022. Kidney Int Suppl (2011). 2022 Apr;12(1):7-11



Research and early development focuses on continuing and expanding leadership in diabetes and obesity

Therapy area priorities Diabetes Obesity **CVD RBD MASH RED CKD**

Strategic research focus



Driving leadership in diabetes and obesity with novel and disease modifying therapies



Delivering next generation insulins and GLP-1 therapies



Improving the quality of health for people while reducing risks of co-morbidities



Focusing on scalability and building upon core protein and peptide capabilities with siRNA, cell and gene therapies



Novo Nordisk®

Research & early development

Increased access to human data together with AI-driven analyses enables discovery of new targets

Human data input



Genetics, samples, multi-omics

Diverse cohorts



African American cohort Genes & Health Industry Consortium UK biobank

Disease cohorts

Alliance Genomic Discovery (Obesity) ATTRACT (CVD) Cellfi (Diabetes)



Leverage real world evidence in early discovery

Target discovery engine



De-risk translation from animal models to humans



AI driven data mining and analyses linking disease to novel targets



In silico analyses



Human centric in vitro assays

Increasing probability for clinical success

80% more

targets screened in 2023 compared to 2022. Capacity increasing in 2024



Significant number of new targets expected to enter phase 1



SELECT trial provides a unique opportunity to identify new targets and biomarkers for future projects

SELECT trial data set



Samples from >17,000 people



Collected over 5 years and 1,270 events



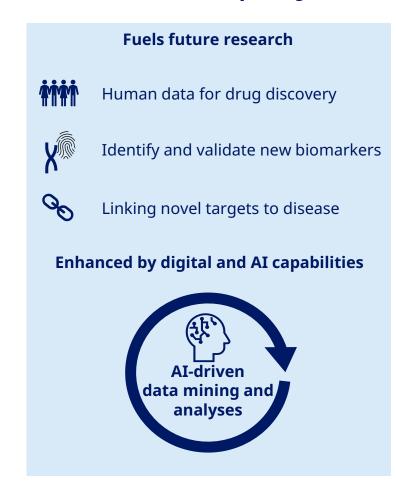
CVD, obesity, pre-diabetes, and CKD endpoints



Proteomics for 3 time points from ~11,000 people



Genetic data from ~11,000 people



Potential outcomes

- New drug targets and molecular mechanisms
- Responder subtype profiles enabling precision medicine
- Prediction of disease progression and treatment response





Accelerating innovation through partnerships and acquisitions to grow and advance pipeline

Number of partnerships¹ and acquired assets to date 60+ active partnerships (including 7 acquisitions) **37** partnerships focused on cardiometabolic diseases and obesity partnerships exploring new MoAs ~50% of partnerships have resulted in projects entering the pipeline as of today

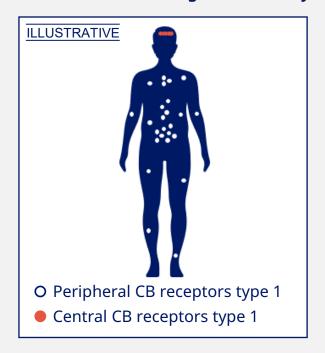
Selected key highlights of partnerships and acquisitions





CB1R inverse agonism holds potential as a novel mechanism of action both as monotherapy and add-on treatment

CB1R are found throughout the body



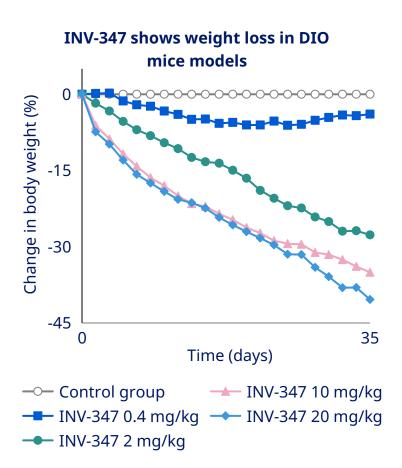
 CB1 biology plays a role in regulation of energy homeostasis¹

Inversago next-generation CB1R molecules



· Novel design minimising brain penetration

Monlunabant (INV-202) appeared to have a **safe and well-tolerated profile** with no serious or severe treatment-emergent adverse events in a phase 1 trial





Integrating siRNA technology into Novo Nordisk adds capabilities to access intracellular targets across therapy areas

Integration of Dicerna



Dicerna partnership since 2019, acquired in 2021 and now Global Nucleic Acid Therapies

siRNA platform is deployed across all therapy areas

GalXCTM

Enables RNA silencing in hepatic cells



GalXC-Plus[™]
Enables RNA silencing in extra-hepatic cells



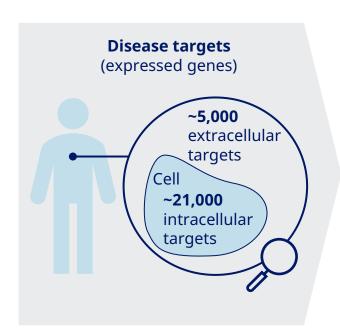
Allows Novo Nordisk to access patented siRNA research technology platform

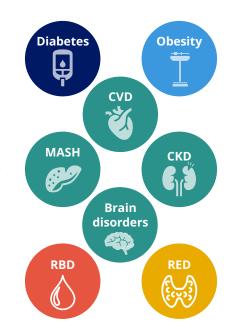


Investments made in CMC capabilities to deliver industrial scale siRNA therapeutics across therapy areas



Boston presence enables Novo Nordisk to tap into surrounding life science ecosystem







siRNA platform expected to deliver and mature across therapy areas in alignment with corporate strategy

Progress with the siRNA platform



11 phase 1 trial initiations with GalXCTM since 2017



Rivfloza[™] the first Novo Nordisk siRNA drug, approved in 2023

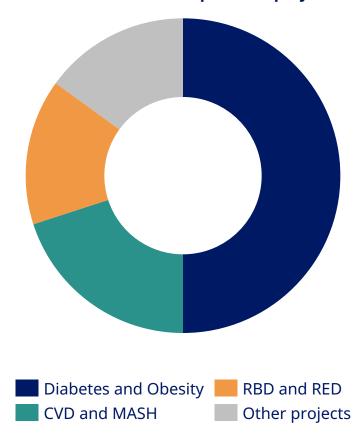


First extra-hepatic phase 1 trial with GalXC-Plus™ in 2023



50% of upcoming phase 1 trials expected to be with GalXC-PlusTM

Distribution of siRNA portfolio projects



Phase 1 initiation ambition with siRNA



... phase 1 initiations on average per year across disease areas with the siRNA platform is

on track



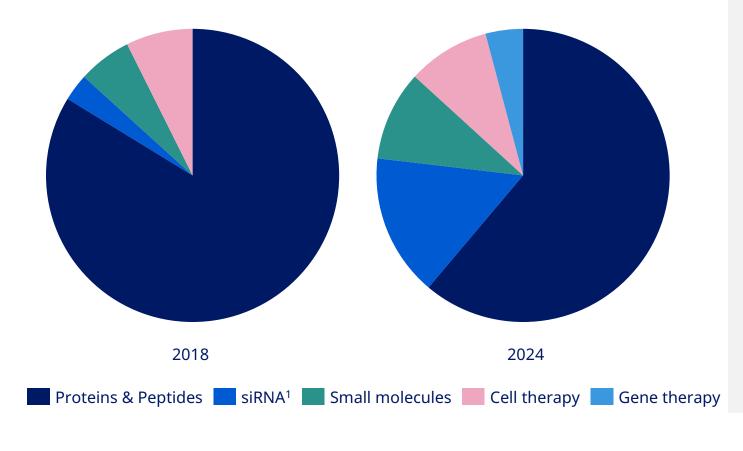
Core capabilities together with additional drug modalities open up new opportunities across therapy areas

Core Novo Nordisk capabilities Modalities accelerated via partnerships & acquisitions Proteins/ **Small** Gene siRNA Peptides/mAB Molecules Therapy Therapy **Diabetes** Obesity Therapy areas **CVD RBD MASH RED CKD** Active pipeline **Exploratory**



Novo Nordisk's modality portfolio has expanded since 2018 with more projects using newer platforms

Distribution of research and phase 1 projects across modalities



Strategic changes made since 2018



Build upon core capabilities with new modalities



More than one modality per target biology



Focus on automation and scalability



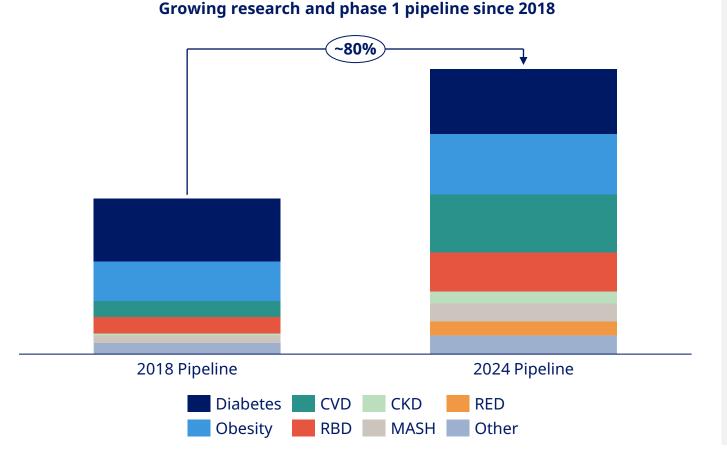
Building in silico capabilities to better predict

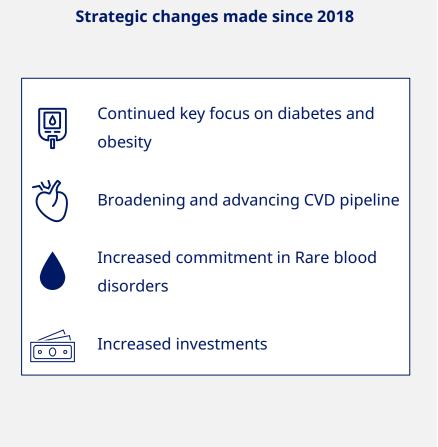


Increased investments



The research and early development pipeline is broad and has increased across therapy areas since 2018





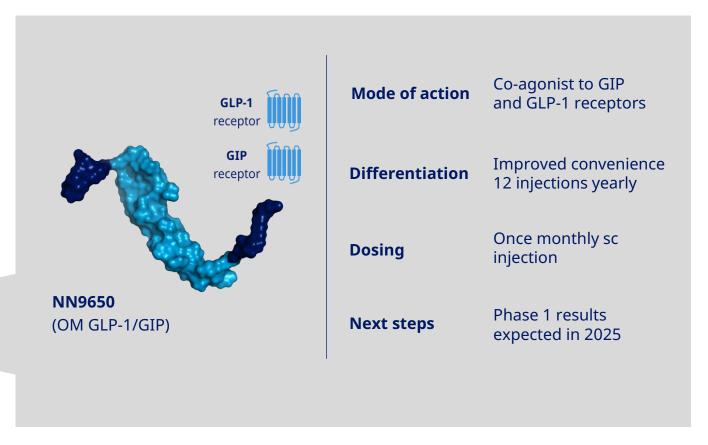


Next-generation innovation drives the phase 1 pipeline within diabetes

Diabetes phase 1 pipeline

NN1845 - GSI NN1471 – Pumpsulin NN9041 – DNA Immunotherapy **Diabetes** NN9904 - OW oral semaglutide NN9650 – OM GIP/GLP-1 co-agonist NN9541 – OW GIP/GLP-1 co-agonist

Once monthly GIP/GLP-1 co-agonist



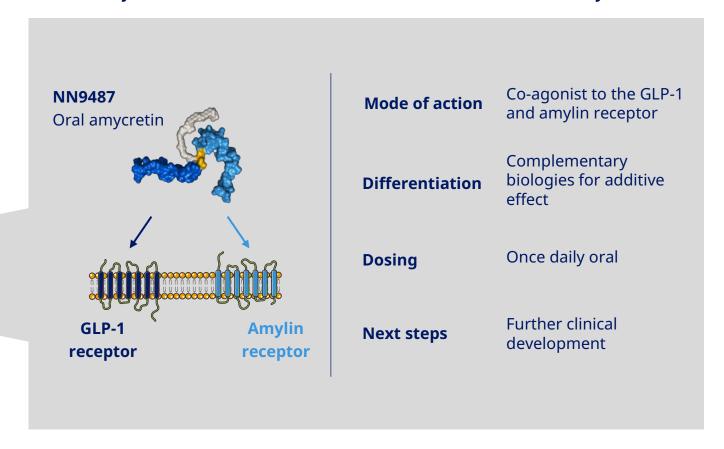


Oral amycretin is a novel, unimolecular co-agonist of both GLP-1 and amylin receptors that successfully completed phase 1 trial

Obesity phase 1 pipeline

NN9542 – OW GIP/GLP-1 co-agonist NN9441 - INV-347 Obesity NN9487 – Oral amycretin NN9490 – Sc amycretin

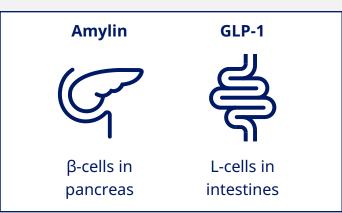
Amycretin combines several beneficial effects of GLP-1 and amylin





Amylin shows potential for additional and complementary benefits to GLP-1 in metabolic diseases

Amylin and GLP-1 are endocrine peptide hormones



Amylin and GLP-1 both have a role in^{1,2}:

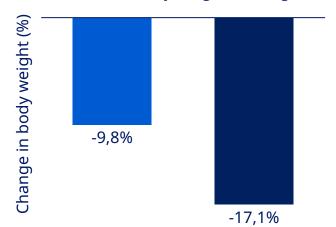
- Appetite regulation (hunger and satiety)
- Glucose control

Amylin is also involved in^{2,3}:

- · Bone homeostasis
- Body composition

Weight loss in a 20-week phase 1 obesity trial

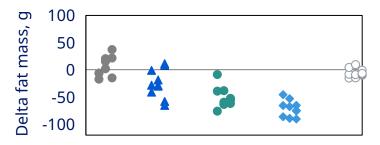
Mean baseline body weight: 94.6 kg, n = 96

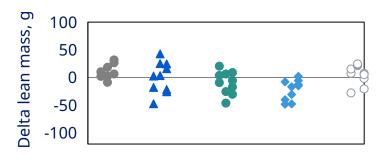


- Semaglutide 2.4mg
- CagriSema (2.4 mg sema and 2.4 mg cagri)

Novo Nordisk amylin analogues have appeared to have **safe and well-tolerated profiles** in clinical trials

Cagrilintide improves body composition in obesity DIO rat model³



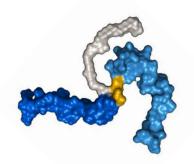


- Control HFD
- 10 nmol/kg
- ▲ 1 nmol/kg
- Control, LFD
- 3 nmol/kg



Phase 1 results in obesity allows further clinical development of amycretin

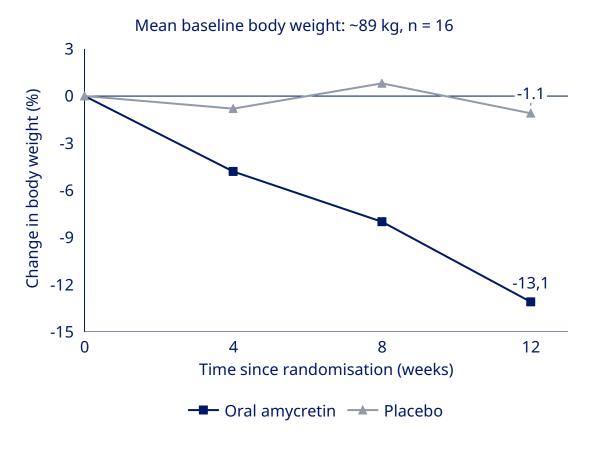
Oral amycretin phase 1 trial in obesity was successfully completed



Phase 1 key findings

- Pharmacokinetic profile allows for further clinical development
- 13.1% weight loss after 12 weeks
- Amycretin appeared to have a safe and well-tolerated profile
- Adverse effects in line with previous Novo Nordisk GLP-1 and CagriSema trials

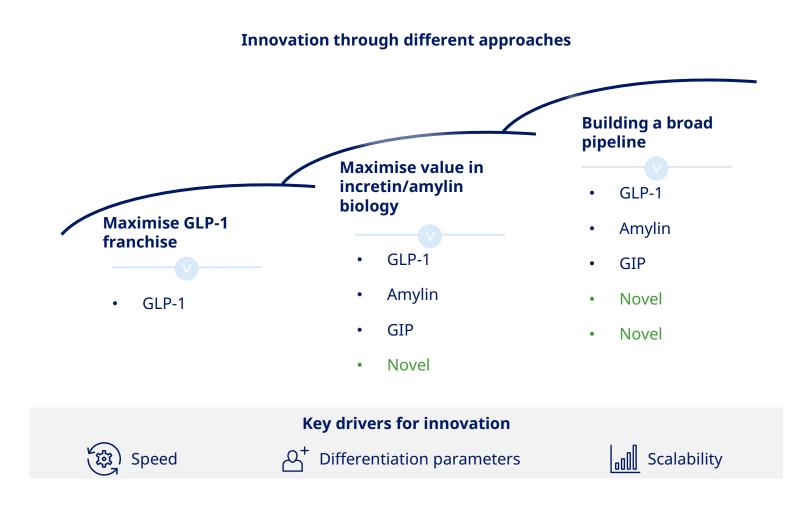
Results from exploratory endpoint on body weight change





Drug development in diabetes and obesity is built around core Novo Nordisk capabilities

Core Novo Nordisk capabilities Deep biology understanding Protein/peptide development and engineering **Efficient large-scale production** of proteins





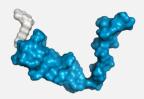
Novo Nordisk® early development Innovation and therapeutic focus

New standalone and tri-agonist molecule to enter phase 1 within the next 12 months, with new concepts to follow

Expected phase 1 initiations within the next 12 months

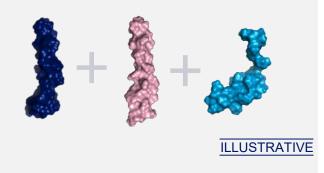
New amylin

- Phase 1 initiation expected in 2024
- New molecule for mono-therapy provides opportunity for weight management
- Potential for combination therapy



New tri-agonist

- Phase 1 initiation expected within next
 12 months
- Potential for improved weight loss efficacy
- Potential for improved effect on obesity related comorbidities



Focus areas for upcoming projects



Regulating appetite and energy expenditure



Weight maintenance



Lean body mass preservation



Sustained release



Phase 1 aspiration of bringing more targets from research to development faster is on track for 2025

Key drivers increasing number of phase 1 initiations



Increased investments across portfolio



Target discovery engine delivers targets that are relevant to human disease



Leverage AI/digital capabilities throughout drug discovery process



Early pipeline growth delivers more phase 1 opportunities

Number of phase 1 initiations in 2020 and aspirations towards 2025

