

Nanoform Capital Markets Day

Breakthrough Strategy

Breaching 'The Wall' in 2 Places:

Small & Large Molecules

Viikinkaari 4, Helsinki December 16th, 2025



Forward-Looking Statements

This presentation contains forward-looking statements, including, without limitation, statements regarding Nanoform's strategy, business plans and focus. The words may," "will," "could," "would," "should," "expect," "plan," "anticipate," "intend," believe," "estimate," "predict," "project," "potential," "continue," "target" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Any forward-looking statements in this presentation are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual events or results to differ materially from those expressed or implied by any forward-looking statements contained in this presentation, including, without limitation, any related to Nanoform's business, operations, clinical trials, supply chain, strategy, goals and anticipated timelines, competition from other companies, and other risks described in the Report of the Board of Directors and Financial Statements for the year ended December 31, 2024 as well as our other past disclosures. Nanoform cautions you not to place undue reliance on any forward-looking statements, which speak only as of the date they are made. Nanoform disclaims any obligation to publicly update or revise any such statements to reflect any change in expectations or in events, conditions or circumstances on which any such statements may be based, or that may affect the likelihood that actual results will differ from those set forth in the forwardlooking statements. Any forward-looking statements contained in this presentation represent Nanoform's views only as of the date hereof and should not be relied upon as representing its views as of any subsequent date.

AGENDA

09.00	CEO Edward Hæggström, Chairman Miguel Calado and Board Member Jeanne Thoma - Nanoform Strategy 2026-2030				
09.10	CFO Albert Hæggström - New midterm business targets 2030				
09.20	Director Intellectual Property Winfried Ness - Nanoenzalutamide European IP landscape				
09.30	Dr. Katja Dreyer, Director Onconcept & Specialty Generics, Helm Pharmaceuticals GmbH - Nanoenzalutamide European roadmap and commercial launch				
09.40	Kurt Nielsen, Managing Director Expert Insights - Nanoenzalutamide US launch roadmap				
09.50	Chief Quality Officer Johanna Kause - Nanoenzalutamide regulatory strategy				
10.00	15 min break				
10.15	Chief of Business Operations Antonio da Silva - 3 Nanoformed medicines launched by 2030				
10.30	Steen Vangsgaard, CEO A.forall Group NV and Tiago Geraldes Investment Director IMGA - Why we invested in Nanoencorafenib/Brafmed Ltd				
10.40	Sreevatsa Natarajan, Co-Founder and CEO Revio Therapeutics - GLIORA partnership with Nanoform				
10.50	Nanoform's CESS® rocket science - Senior Scientist Ari Kauppinen, Senior Engineer Tuomas Malve and Senior Scientist Petteri Helander				
11.10	15min break				
11.25	Chief Development Officer Peter Hänninen - A large biologics market is forming in subcutaneous delivery of monoclonal antibodies				
11.40	Director Biologics Maria Lume - Working with large pharma: What we have done and learnt				
11.50	Q&A				
12.15	Closing remarks - Lunch - Factory Tour				







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Nanoform Strategy 2026-2030

Nanoform technologies break the wall

CESS® for small molecules

Patients treated with Nanoformed medicines with 5 years

BioLine for biologics

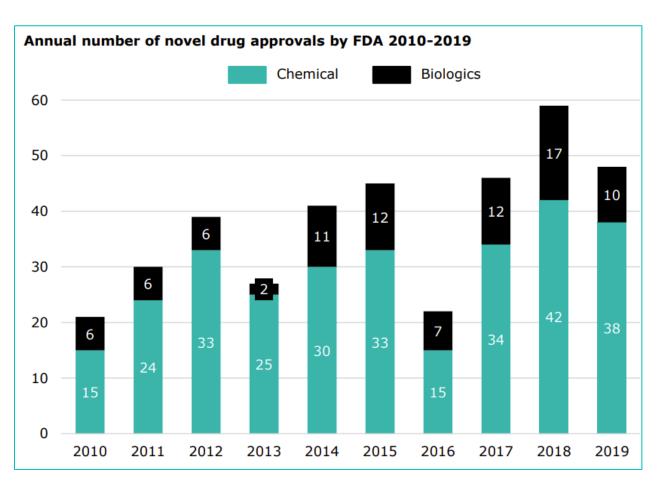
Clinical data with several major clients support nanoforming as a significant technology in the major industrial shift from IV to SC

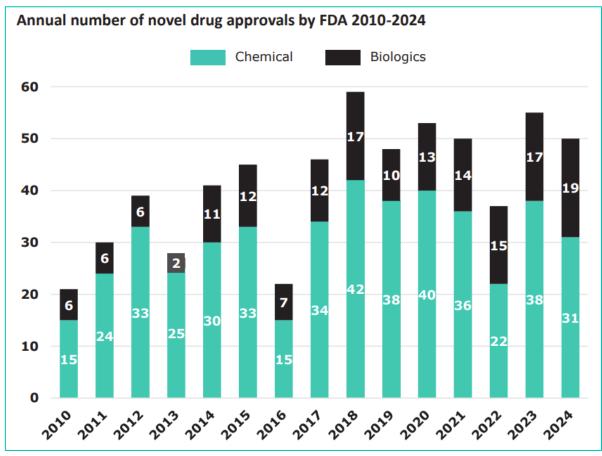






What has happened in the industry since the IPO? Nr of new approvals flat...

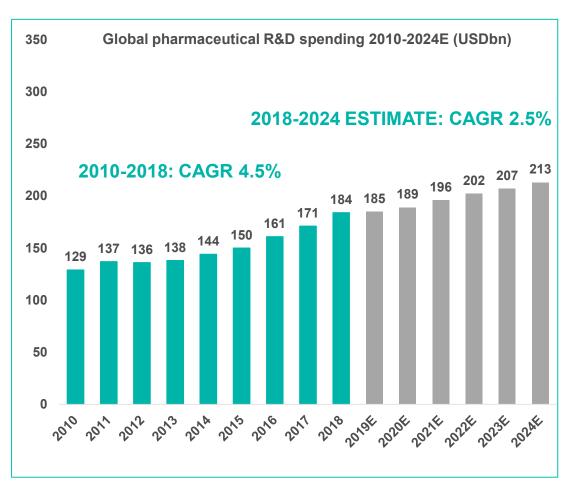


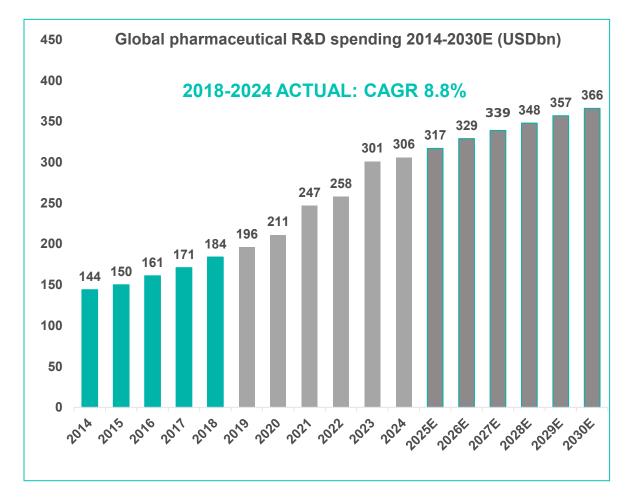




Despite an enormous growth in R&D spending in last five years

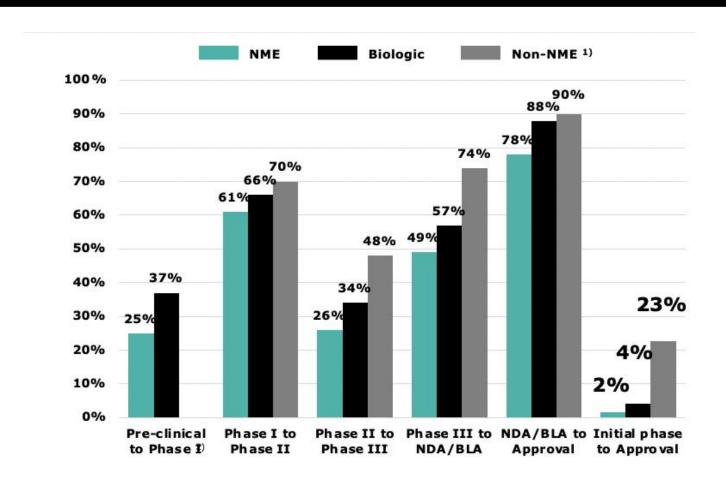
2018 2025







Global Pharmaceutical Industry's Pre-Clinical and Clinical Success Rates



Timeline (years)	Pre-clinical	Phase I	Phase II	Phase III	Approval	Total
New drugs	~1-4	~2	~2	~3-4	~1	~9-13
Existing drugs	-	Clinical development for $505(b)(2) \sim 2-5$			~1	~3-6

Source: Company information; Takebe, Imai & Ono (2018), Clinical and Translational Science (11) (Pre-clinical to Phase I); Biotechnology Innovation Organization, Biomedtracker and Amplion, Clinical Development Success Rates 2006-2015 (Clinical success rates); Kaur, Sharma & Sharma (2014), Journal of Drug Delivery and & Therapeutics (4) (Timeline); The Pharmaceutical Journal, Drug Development: The Journey of a Medicine from Lab to Shelf (Timeline); Camargo Pharmaceutical Services, Understanding the 505(b)(2) Approval Pathway (Timeline); 1) Non-NMEs often use 505(b)(2) pathway to gain FDA approval, source: Biotechnology Innovation Organization, Biomedtracker and Amplion 2) Academic drug discovery, NME consisting only of small molecules



From non-GMP to GMP (small molecules)

Transition probability from non-GMP to GMP

- ➤ Total industry number: 20-25%
- ➤ New technologies: anecdotal guesstimate by industry veterans: ~5%
- > CDMOs using mature technologies and choosing projects selectively: ~50%
- ➤ Nanoform assumption at IPO 2020: ~20-25%
- ➤ Nanoform realized number 2020-25: ~5%
- ➤ Nanoform target for 2030: 20-25%

Cumulative nr of non-GMP projects during 2020-25: >100

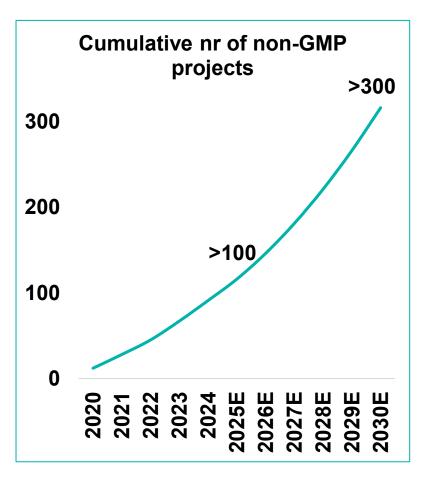
Cumulative nr of non-GMP projects targeted during 2026-30: >200

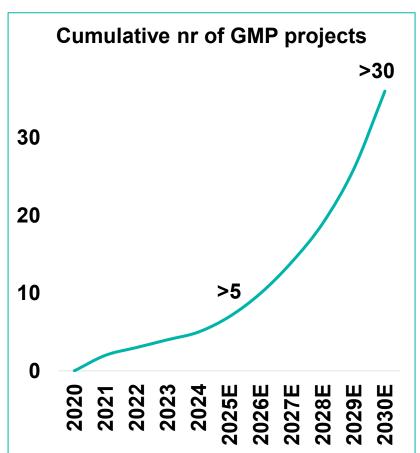
Cumulative nr of GMP projects during 2020-25: >5

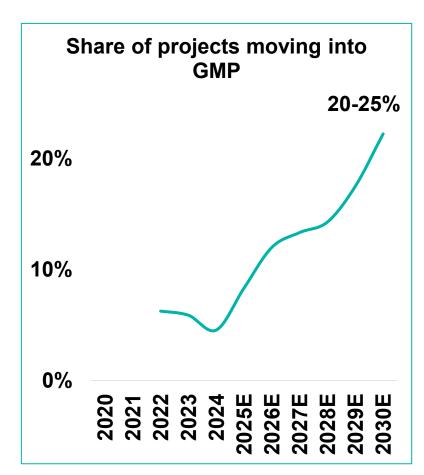
Cumulative nr of GMP projects targeted during 2026-30: >25



Transition into GMP targeted to reach industry levels by 2030

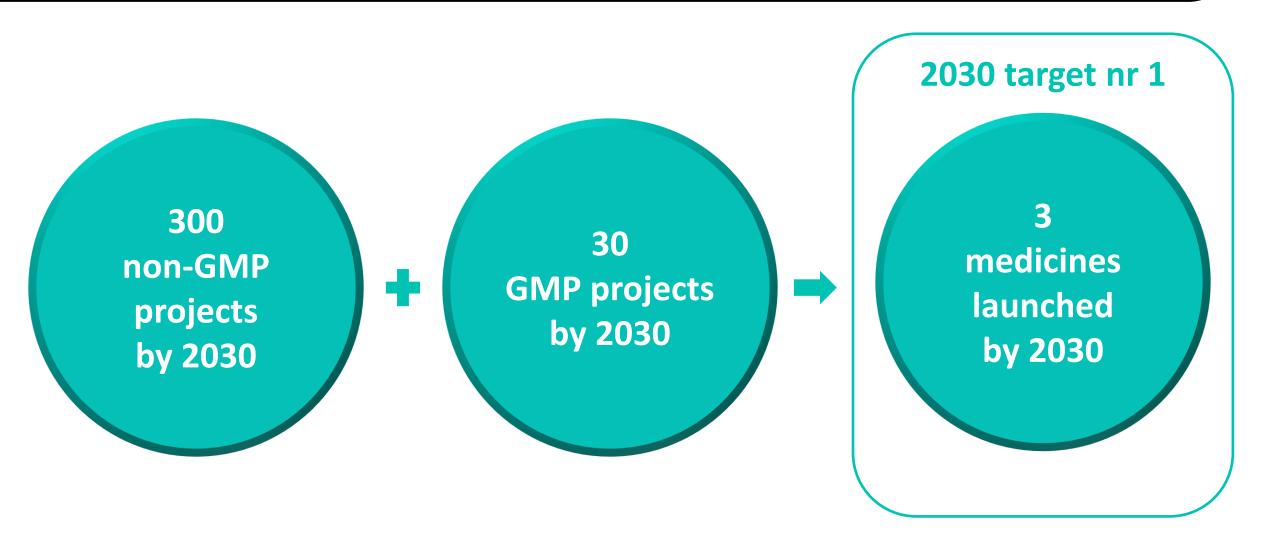








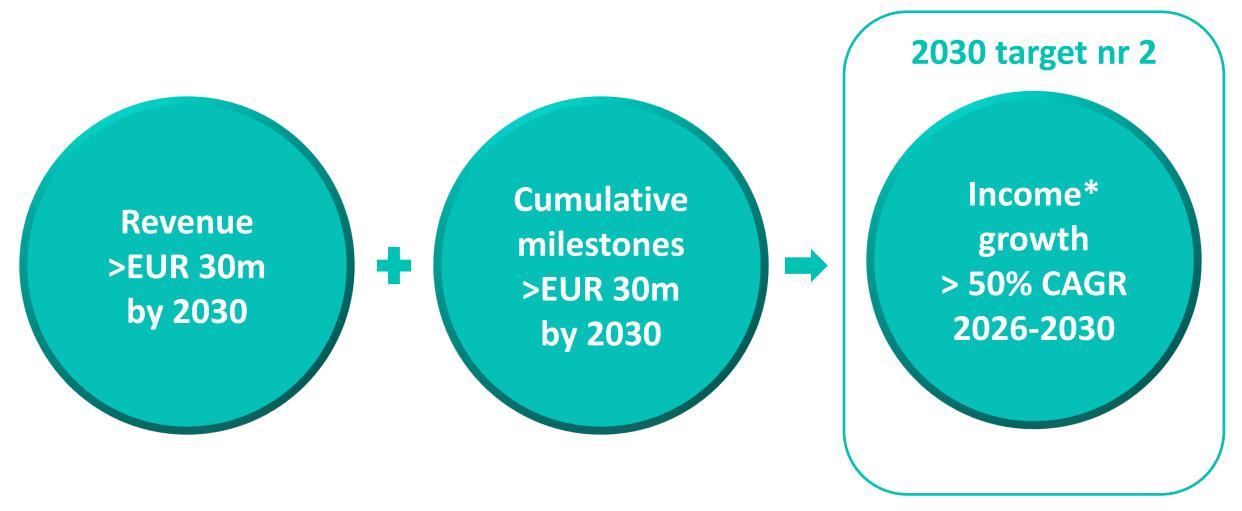
From preclinical to first 3 market launches in 10 years (2020 to 2030)





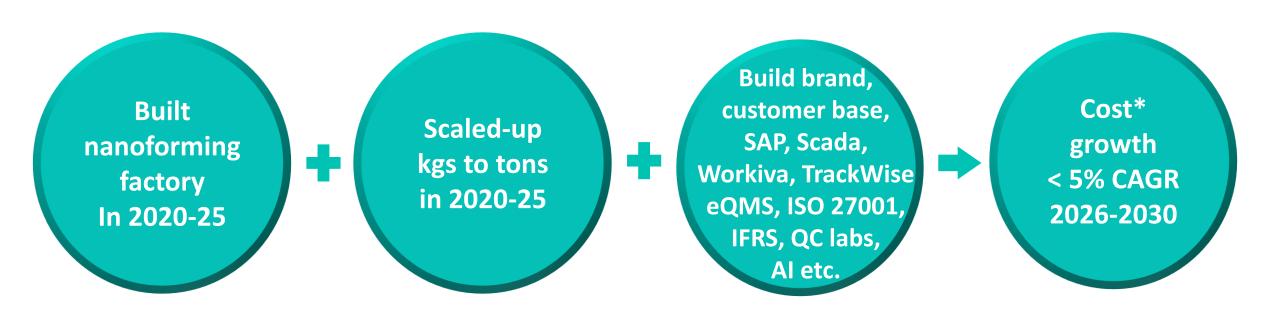
Nanoform mid-term annual income potential by 2030

Exclusivity fees & royalties & profit share:	> EUR 50m
Commercial milestones, small molecules:	> EUR 25m
Commercial GMP supply, small molecules:	> EUR 10m
Development milestones, Biologics:	> EUR 10m
Development milestones, small molecules:	> EUR 10m
Clinical GMP supply, Biologics:	> EUR 10m
Clinical GMP supply, small molecules:	> EUR 10m
Non-GMP projects, Biologics:	> EUR 5m
Non-GMP projects, small molecules:	> EUR 5m



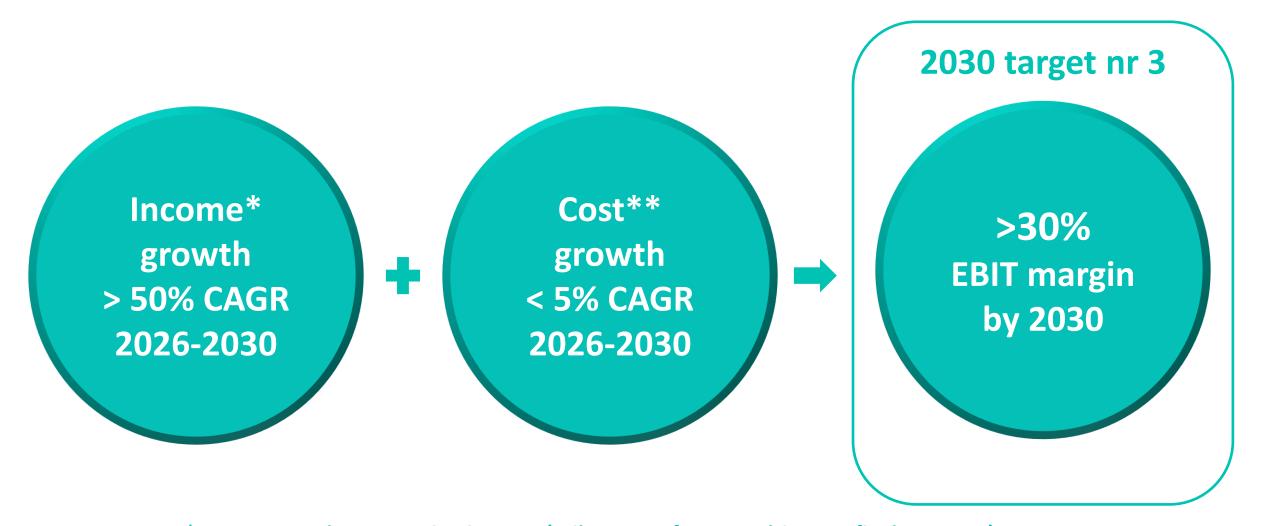
* Revenue + other operating income (milestones, fees, royalties, profit shares etc.)

Large investments in 2020-25 lead to moderate cost growth in 2026-30



^{*}Operating costs ex options (COGS + employee costs + other operating costs)

Profitability target by 2030



^{*}Revenue + other operating income (milestones, fees, royalties, profit shares etc.)

^{**}Operating costs ex options (COGS + employee costs + other operating costs)



Nanoform midterm business targets 2030



* Revenue + other operating income (milestones, fees, royalties, profit shares etc.)





Enzalutamide

Until **2002** there was a **need for a more effective therapy** for metastatic prostate cancer beyond traditional androgen deprivation therapy (ADT) with medicaments

leading to medical castration (Leuprorelide)

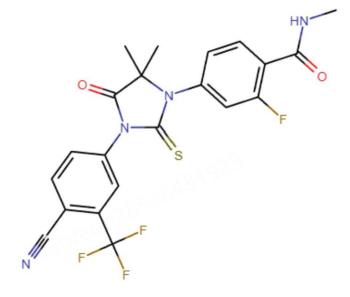
or

blocking androgen receptors (Bicalutamide)

The concept for enzalutamide began around **2002**, driven by the Prostate Cancer Foundation PCF

see article: Out of the Box: How PCF Funded the Creation of Enzalutamide

Initial scientific work was carried out at the **University of California**, **Los Angeles (UCLA)** in the early 2000s, focusing on creating next-generation drugs that could overcome resistance seen with first-generation drugs (Bicalutamide).



2005

First patents for a new substance

Enzalutamide

were filed, and UCLA licensed them to Medivation

BUT



Enzalutamide created problems

On one hand

On the other hand

The development of a pharmaceutical formulation for enzalutamide faced several significant technological challenges

- Very poor aqueous solubility
- Crystallization tendency of the pure substance
- Stability issues

> Time to market was key

40 mg soft gelatin capsule filled with a <u>liquid lipid-based formulation</u>



August 31, 2012:

FDA approved Xtandi with a posology of 160 mg/daily

And the first urgent clinical needs were met



Why came the tablets later

The substance still has disadvantages

- Very poor aqueous solubility
- Crystallization tendency of the pure substance
- Stability issues

The capsules had disadvantages

- Difficult to swallow
- High pill burden with 4 capsules, 40 mg dose each
- Size
- No higher dose available
- Gelatin (dietary restrictions, religion,...)
- Low/No patient convenience and adherence (patient centricity)
- Capsule filling technology is costly and labour intensive

Only 1 technology might solve the problems: The amorphous solid dispersion (ASD) technology

BUT

in 2012 the ASD was still not advanced enough

Xtandi 40 mg, 20 x 9 mm





The tablets were approved in/after 2017 but are still not good enough

5 to 6 years later

TABLETS based on ASD technology were approved and launched

2012

2017 / 2018 / 2019

BUT

Xtandi capsules 40 mg 20 x 9 mm



Xtandi tablets
40 mg 10 mm



Xtandi tablets
80 mg 17 mm



- The tablets are still too big, better than capsules but still too big and too many
- No daily dose in 1 tablet available with appropriate size
- The tablets are still not patient centric

AND

The tablets are patent protected



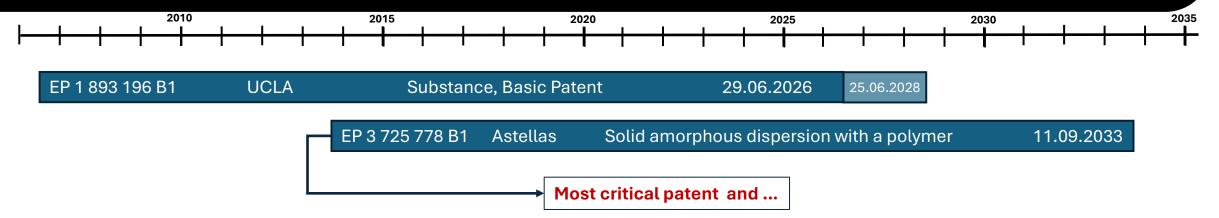
To develop a better alternative you have to take 2 challenges/hurdles

- Patent hurdle
- Technology hurdle



High level summary





... it is technically **nearly** impossible to develop an alternative without making use of the teaching of this patent

In other words it is **nearly** impossible **NOT** to infringe it

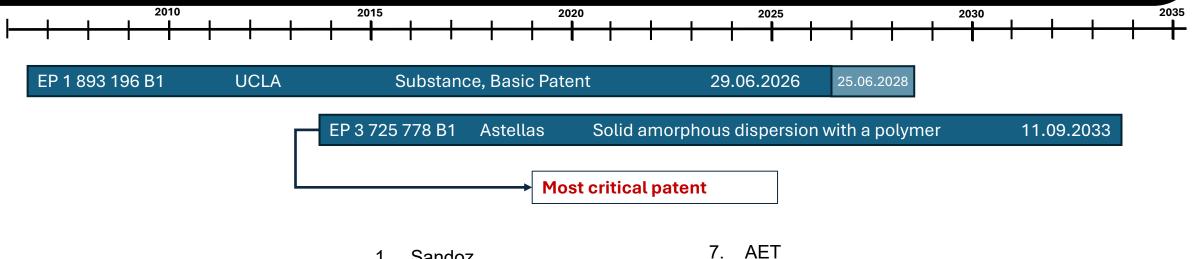
What to do

Get rid of it!!



High level summary





- Sandoz
- Zentiva
- Dr. Schön
- Hamm Witkopp
- Stada
- Synthon

- Maiwald
- Accord
- 10. Kutzenberger
- 11. Elkington + Fife

All 11 failed 2 times !!



India

Korea

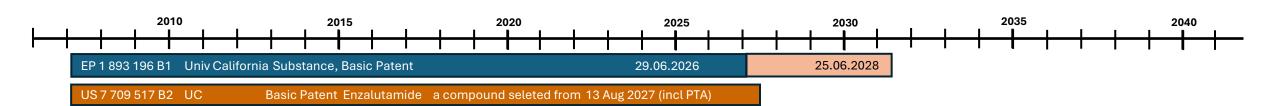
Chinese Taiwan

South Africa
Austria
Cyprus
Germany

High level summary







EP 3 725 778 B1 Astellas Formulation – solid amorphous dispersion 11.09.2033

US 11 839 689 B2 Astellas Formulation, ASD with HPMC/AS 11.09.2033

United States Denmark EPO Spain Japan Croatia China Hong Kong Hungary EAPO Lithuania Israel Malta Mexico **H** Norway Mustralia Australia Philippines China Poland Brazil Portugal Canada Republic of Serbia Indonesia Slovenia

Slovakia

Thailand

Ukraine

All major markets are covered



Is there a way out?

Xtandi capsules 40 mg 20 x 9 mm



Xtandi tablets
40 mg 10 mm



Xtandi tablets
80 mg 17 mm



Enzalutamide tablets?



Is there still room for improvement?



YES there is!!

The magic word is

Polymer embedded Nanoparticles - PeN

- There is a now newly invented, patented and alternative technology platform to ASD available
- It can be applied to **all substances** having the same disadvantages like Enzalutamide substances like Apalutamide, Encorafenib, (very slow solubility)
- It is patent protected and embedding in polymer is also protected
- For all developments further patent protection is possible
- Technically outside of ASDs so no problems with ASD patents
- It overcomes the disadvantages of too many pills reduction to 1 pill from 4 even at highest dose
- It overcomes the disadvantages of too big pill size
- It is patient centric and lowers pill burden and
- It shows the same bioavailability and bioequivalence

SIMPLY.BETTER



YES it is !!

Technology hurdle solved

Xtandi capsules 40 mg 20 x 9 mm



Xtandi tablets
40 mg 10 mm



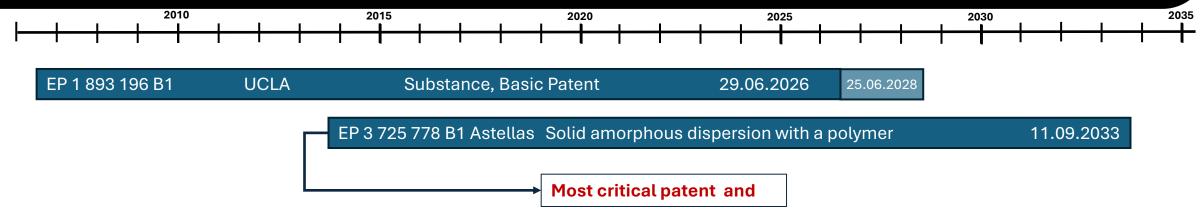
Xtandi tablets 80 mg 17 mm



Nanoform Enzalutamide tablets 160 mg



What about the patent hurdle



It is **nearly** impossible to develop an alternative tablet without infringing this patent

It is possible to develop an alternative without infringing this patent by using



















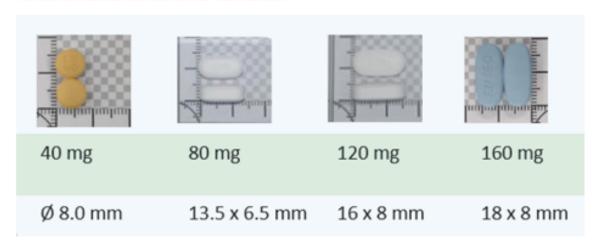
NANOENZALUTAMIDE EUROPEAN ROADMAP AND COMMERCIAL LAUNCH

Dr. Katja Dreyer, Helm Pharmaceuticals GmbH, Director Onconcept & Specialty Generics

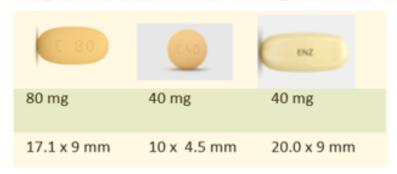


OUR VALUE PROPOSITION: ENHANCING PATIENT NEEDS AND COMMERCIAL VIABILITY

Nanoenzalutamide tablets



Originator availabale dosage forms / Xtandi®



Flexible Dosage Options

Offering flexible daily dose and dose adjustments simplifies treatment and improves patient adherence.

Smaller Tablet Sizes

Developing smaller tablets addresses swallowing difficulties, enhancing patient comfort and convenience.

Robust Intellectual Property

Strong IP positioning secures market exclusivity and sustains commercialization beyond patent expiry.





OUR JOURNEY MILESTONES FROM 2021 TO 2030



Partnership Formation and Expansion

The partnership started in 2021 and expanded in 2022 through entry into a strategic consortium enhancing collaboration.

Technical Achievements and Manufacturing

In 2023, production of GMP materials and tablet development marked key advances toward scalable manufacturing.

Clinical and Regulatory Progress

Pilot bioequivalence study in 2024 and dossier submission in 2026 ensured regulatory compliance and clinical evidence.

Commercialization and Product EU Launch

By 2028, the partnership culminates in the product launch and enters in the commercial product supply.





XTANDI® -

FLAGSHIP PRODUCT IN ASTELLAS/PFIZER ONCOLOGY PIPELINE, DRIVING GROWTH AND COMBINATION STRATEGIES



- Global Sales Powerhouse: \$6.2Bn in 2024 US: \$2.5Bn | Europe: ~\$2Bn
- Cornerstone in Prostate Cancer Therapy: Sustained growth trajectory with predicted increasing sales
- Broad Label Coverage: Approved for mCRPC, mHSPC, nmCRPC, high-risk nmHSPC
- Strong Market Position: Extensive <u>clinical adoption across</u> multiple <u>indications</u>
- Future Outlook: Generic entry in Europe possible in 2028, reinforcing current premium positioning

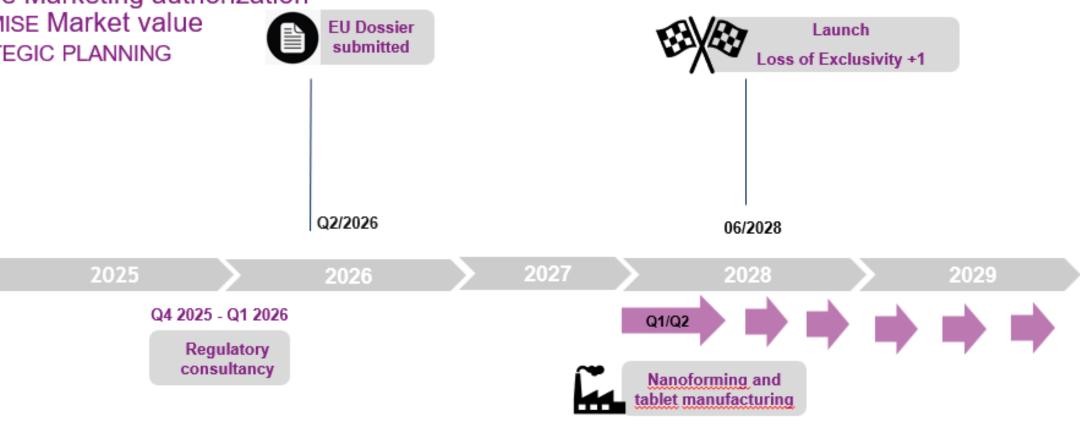




REACHING THE TARGET OF COMMERCIAL LAUNCH IN 2028



- Secure Marketing authorization
- MAXIMISE Market value
- STRATEGIC PLANNING









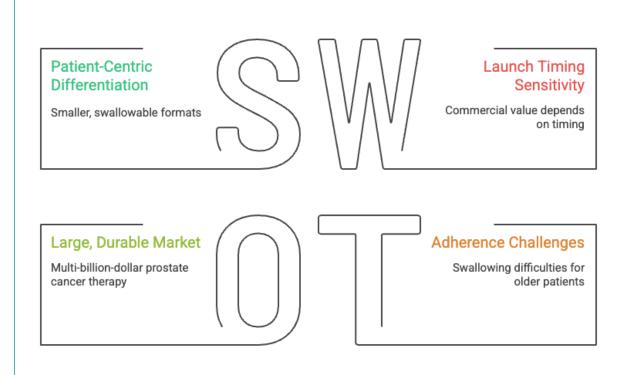




Background and Context for US NanoEnzalutamide Market

A Large, Durable US Market with a Real Patient Problem

- Xtandi® is a multi-billion-dollar US prostate cancer **therapy**, taken daily by patients over long treatment durations
- The standard regimen requires **multiple large capsules**, creating real-world swallowing and adherence challenges for older patients
- Nano-Enzalutamide enables clinically equivalent dosing in smaller, swallowable single 120 mg / 160 mg tablets
- This creates patient-centric differentiation, not simply a lower-priced copy of the Xtandi® or other generic Enzalutamide tablets or capsules
- In the US, launch timing, auto substitution at the pharmacy, and differentiation ultimately determine commercial value capture

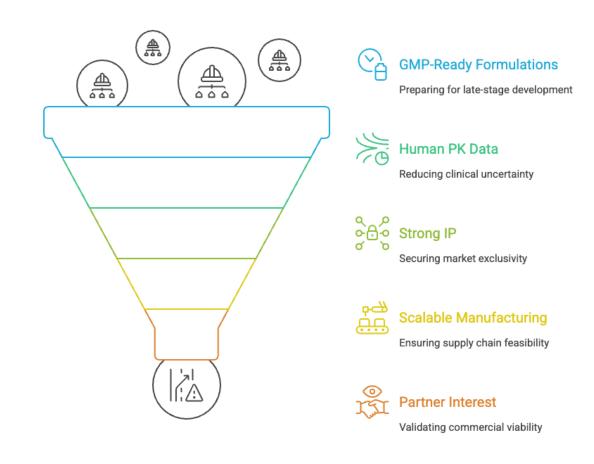


This is a large market where patient usability and launch strategy materially influence commercial success.

What We Have Done So Far

De-Risked the Asset

- Advanced Nano-Enzalutamide to GMP-ready formulations suitable for late-stage development
- Generated initial human pharmacokinetic (PK) data, reducing early clinical uncertainty
- Built **strong**, **non-infringing IP** around single table 120 mg / 160 mg dose strengths
- Defined a scalable manufacturing and supply strategy, beyond lab-scale feasibility
- Demonstrated interest from several partners well established in the US, validating external commercial interest



This program is past the feasibility stage — remaining risks are predominantly execution-driven.



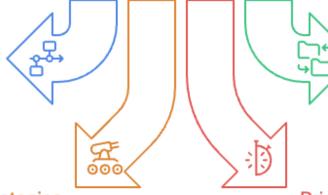
What We Are Going to Do (Strategy)

- Pursue **multiple US regulatory** pathways in parallel, rather than a single bet
- Preserve flexibility across ANDA and 505(b)(2) filing options
- Maintain the ability to pursue **AB**rated or differentiated launch strategies
- Structure all development paths to support a fastest possible filing, FDA approval and launch

Optionality That Drives Speed and Reduces Risk

Pursue Multiple Pathways

Increases success probability and protects timing by diversifying regulatory efforts.



Maintain Filing Flexibility

Allows adaptation to changing regulatory landscapes by keeping options open.

Consider Launch Strategies

Enables tailored market entry based on regulatory outcomes.

Prioritize Speed

Ensures timely market entry by focusing on the fastest approval process.

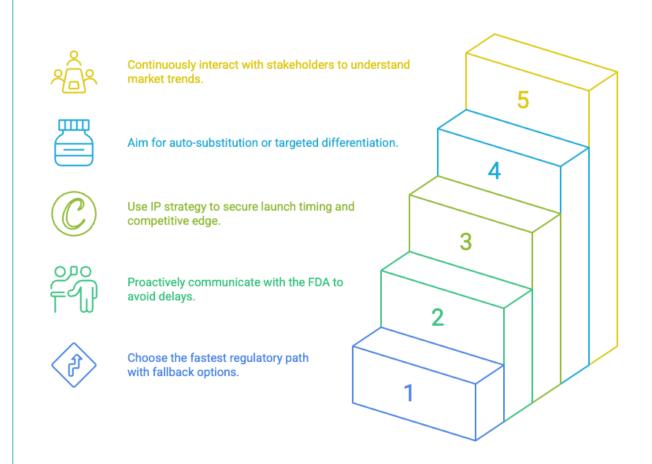
Optionality here is a risk-management tool — it increases probability of success and protects launch timing.



What Are We Going to Do (Execution and Value Capture)

Turning Regulatory Progress into US Commercial Value

- Select the **fastest approvable US path** while retaining fallback options
- Engage FDA early to minimize approval delays and regulatory surprises
- Use IP strategy to protect launch timing and competitive position
- Enable auto-substitution (AB rated) or targeted differentiation, depending on final pathway
- Continually engage US stakeholders (e.g. physicians, payors and closed systems) to fully understand market access and prescribing trends



Approval creates opportunity; disciplined execution determines how much value is captured.



A Patient-Centric Product with a Disciplined US Launch Strategy

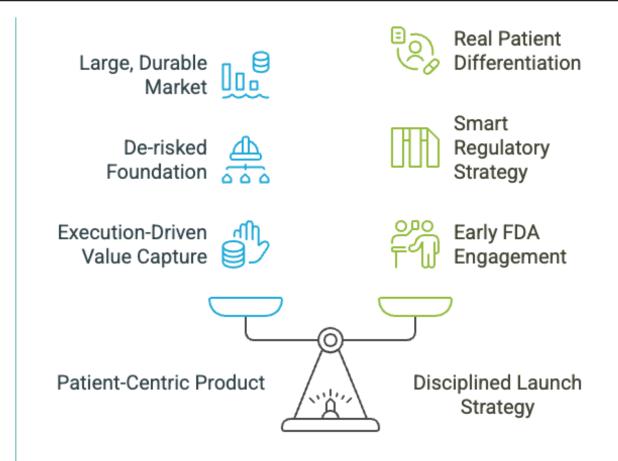
Large, durable market: Xtandi® represents a multibillion-dollar US franchise with long treatment durations, creating sustained generic opportunity

Real patient differentiation: Smaller, swallowable 120 mg / 160 mg doses address adherence and usability issues in an older patient population

De-risked foundation: GMP-ready formulations, human BE data, scalable supply, and non-infringing IP reduce technical and development uncertainty

Smart regulatory strategy: Parallel ANDA and 505(b)(2) pathways preserve speed, flexibility, and optionality for AB-rated or differentiated launches

Execution-driven value capture: Early FDA engagement, IP-aware timing, and proactive payer positioning maximize uptake and economic outcomes



Nano-Enzalutamide combines a clear patient benefit with a launch strategy designed to win on timing, substitution, and differentiation.









Drug Substance (DS) or Active Pharmaceutical Ingredient (API)

The specific chemical compound or molecule within a drug product that provides the intended therapeutic effect (e.g. Nanoenzalutamide)

Drug Product Intermediate

A material produced during the drug manufacturing process that is not yet the final product but a crucial step in the process

Drug Product

Final dosage form, containing the drug substance and excipients (e.g. tablet, capsule, cream)





Evolution of GMP* at Nanoform

2020-2025: Building

- From a single-API clinical manufacturing site to a multi-API commercial manufacturing site with an inhouse QC laboratory
- 4 GMP inspections by the Finnish Medicines Agency

2026-3030: Expanding

- Expansion of commercial manufacturing authorization to GMP2 and GMP3
- Inspections from relevant authorities, e.g. US FDA, PDMA (Japan)

SCOPE OF AUTHORISATION

ANNEX 1

Name and address of the site: Nanoform Finland Ov, Viikinkaari 4, Helsinki, 00790, Finland

Additional Details:

Human Medicinal Products

Authorised Operations

MANUFACTURING OPERATIONS(according to part 1)

IMPORTATION OF MEDICINAL PRODUCTS(according to part 2)

1.2	Non-sterile products				
	1.2.1 Non-sterile products (processing operations for the following dosage forms) 1.2.1.17 Other: Further processing; nanonization of non sterile active starting materials(en)				
1.6	Quality control testing				
	1.6.3 Chemical/Physical				

Any restrictions or clarifying remarks related to the scope of these Manufacturing operations (for Public users)

Production GMP 1 line

Part	Part 2 - IMPORTATION OF MEDICINAL PRODUCTS			
2.3	Other importation activities			
	2.3.4 Other: Importation APIs in EU/ETA(en)			



Regulatory steps for an Active Substance

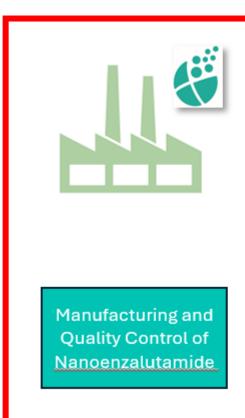
- A Marketing Authorization Application (MAA) contains parts for the **Drug Substance** (API) and **Drug Product**
- The **Drug Substance** part can be submitted
 - as part of the Marketing Authorization Application or
 - as a separate dossier, referred to as **Active Substance Master File** (ASMF) in the EU and **Drug Master File** (DMF) in the US
- Nanoform will use the ASMF/DMF approach
 - The ASMF and DMF consist of an **Open Part** which is shared with the MAA applicant and a **Closed Part** which is shared only with the regulatory authority
 - In US the DMF can be submitted six months prior to the submission of the MAA
 - This will enable any potential technical issues with the DMF to be clarified already before the assessment of the MAA begins
- In addition to Nanoform's ASMF/DMF, the manufacturer of the bulk API will also submit their ASMF/DMF

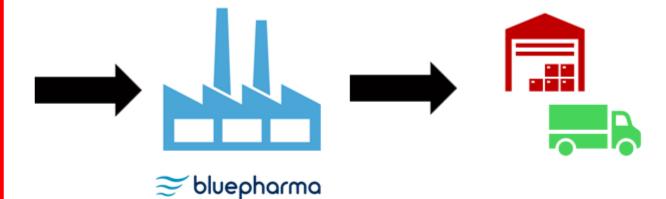


Nanoenzalutamide Supply Chain



Manufacturing and **Quality Control of** Enzalutamide





Manufacturing and **Quality Control of** tablets

Warehousing and distribution of tablets

ASMF/DMF

Nanoform ASMF/DMF

Marketing Authorization Application





Regulatory Strategy (Nanoenzalutamide)

- The regulatory strategy and regulatory procedure for the Drug Product is selected by the MA applicant
 - For Nanoenzalutamide
 - EU (hybrid generic via decentralized procedure) and US (TBD)
- For regulatory success of the Drug Product, Nanoform will:
 - Maintain GxP compliance, ensure security of supply
 - Build internal expertise on regulatory guidance for nanomaterials
 - Ensure solid **scientific foundation** of the ASMF/DMF
 - Collaborate with MA applicants on **educating regulators** on the CESS® technology
- This is applicable for all future products containing nanoformed API, meaning that the template we have created for Nanoenzalutamide will be leveraged for other products.



Nanoenzalutamide regulatory timeline







Q1/2026

Active Substance Master File ready for submission Q2/2026

Drug Master File ready for submission

2026-2030

eCTD* dossier available for submissions



A DMF can be submitted 6 months prior to the MAA

Applicable in EU, US, Japan and other territories

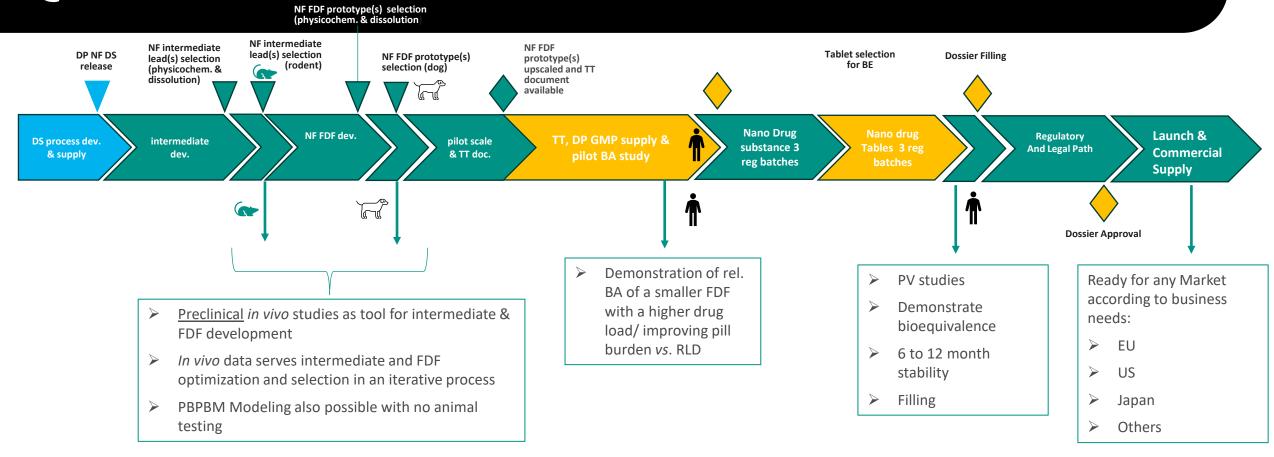




			Nanoform Prod	uct Kernels				Nanofo	rm Pre-Clini	ical (non-GM	P)	Nanoform C	linical (GMP)	Nanoform at Market (GMP)
Originator	Indication	Expected originator peak sales	Nanoformed API	Delivery route / dosage form	Nanoform ownership today	Development partnering status	Targeted commercial partnering	PoC*	Pre- formulation + in-vitro	Dosage form development + in vivo	PoP*/ Dosage form development	Phase 1 / Pilot clinical trial	Pivotal - final - clinical trial	Earliest possible market launch
Astellas/ Pfizer	XTANDI®/ Prostate cancer	~\$5bln	Nanoenzalutamide	Oral / Tablet	25 %	OnConcept Consortium	Ongoing							2027 US & 2028 EU
Johnson & Johnson	ERLEADA®/ Prostate cancer	~\$5bln	Nanoapalutamide	Oral / Tablet	100 %	Ongoing	Ongoing					2026	2026-2027	2032 US & EU
Pfizer	BRAFTOVI®/ Melanoma and colorectal cancer	~\$800mln	Nanoencorafenib	Oral / Tablet	57 %	BRAFMed Lda	Ongoing					2026	2027	2030 US & 2033 EU
Merck/ AstraZeneca	Glioma		NanoO+T (GLIORA)	Long Acting	50 %	Revio Therapeutics	2026-2027					2026	2028	2030 US & EU
Genentech/ Roche	Oncology		Nanotrastuzumab	High Conc. Sub.Cut. Bio	100 %	2026	2026-2027							
Novo Nordisk	Obesity		Nanosemaglutide	Inhaled	100 %	2026	2027-2028							
Undisclosed	Inflammation		Undisclosed	Oral / Tablet	100 %	Partnered	2026-2027							
Undisclosed	Oncology		Undisclosed	Oral / Tablet	100 %	2026	2027-2028							
Undisclosed	Prostate cancer		Undisclosed	Long Acting	100 %	2026	2026-2027							

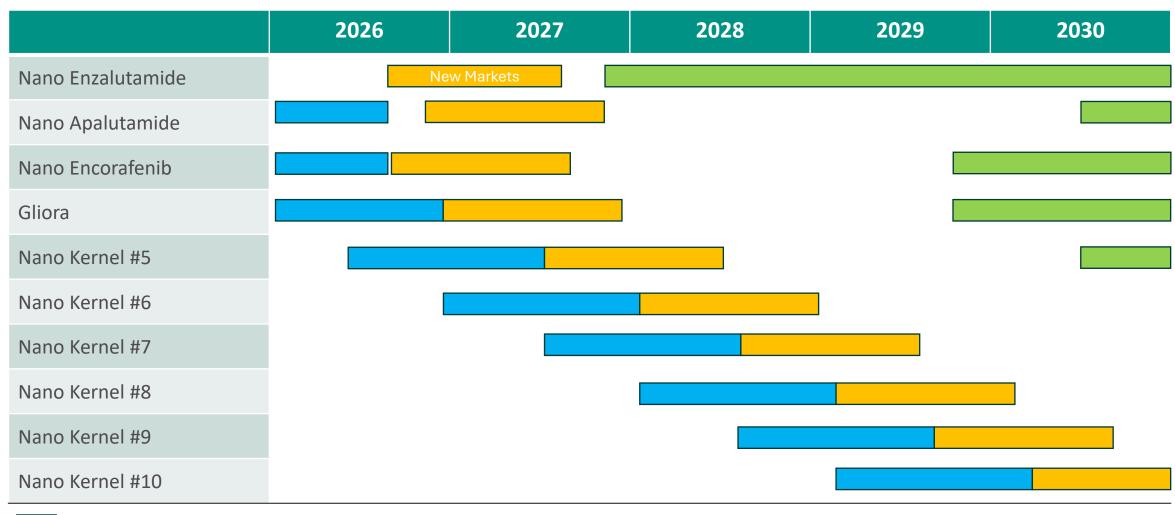


Kernel development pathway



Commercial Value





- Process Development (R&D activities including nanoDS and nanoFormulation development)
- Nano DS Clinical Supply (100 to 150 kg / Kernel)
- Nano DS Commercial Supply (Depending on Kernel: NanoEnza Peak demand > 1ton)

Lines	2026	2027	2028	2029	2030
GMP1					
GMP2					
GMP3					



Daily treatment regimens for Xtandi® (enzalutamide) and nanoformed enzalutamide (nanoenzalutamide)

Under Installation

Clinical Manufacturing License

Commercial Manufacturing License

EMEA, FDA, PMDA Ready 10 ton/year Facility



Erleada® (apalutamide) 60 mg tablet (top) and nanoformed apalutamide (nanoapalutamide)





Who is Aforall Pharma?

Aforall – Value-added generic medicines, asset light specialty pharma.

- Develop and register products (partner to get access to relevant technologies)
- Establish and manage supply chains
- Launch, commercialize/out-license products

Value-added generic medicines:

- 3 Ps: Patients, physicians, payors
- Complex formulation and manufacturing. Device interdependence

Steen's background

- Aforall launches 3-4 products annually
- Mylan days (now Viatris) 15-20 launches annually



Why encorafenib and Brafmed

Benefits of nanoformed encorafenib:

- Reduced pill burden (6 to 1) enhanced patient compliance better patient outcomes
- Competitive advantage over generic encorafenib/life-cycle management option

Nanoforms technology:

- High yield & promising results
- Platform technology: Promise of broad application

Brafmed:

- Leverages each others respective strengths
- Favourable risk/return
- Model for future pipeline expansion





Why Futurum Tech invested in the Brafmed project?

Nanoform Investor's call, 16 December 2025



IMGA and Futurum Tech Venture Capital Fund

Main facts and figures





Largest independent asset manager in Portugal, with over 6 billion euro in AuMs at the end of 2025.

- Over 35 years of experience, mostly in the mutual fund industry (UCITS open ended funds: 33 funds)
- Over 200,000 retail and institutional clients

In 2021, launched its private equity and venture capital practice

- In 2024, launched its first venture capital fund Futurum Tech
- · Currently manages 5 different PE and VC funds



A late-stage venture capital fund focused on two investment themes' aggregators:



- · Target: SMEs, late seed and series A, B and C rounds
- Market validation post revenues and/or IP
- · Relevant participation in investees' capital
- · Active participation in their management



Why did the Futurum Tech Fund invested in the Brafmed project

FUTURUM



What we were looking for:

- Good strategic fit with the Fund's Investment thesis
- Strong and complete team
- Cutting edge products / technology
- Sound and profitable business model
- Sound financial plan and funding strategy
- Investable cap table
- 7. Big serviceable market
- Ticket size between 1 million and 5 million euro for a relevant capital participation
- 9. Clear exit strategy or alternative exit strategies

What we found in Brafmed (Nanoform & Aforall):

- Good strategic fit: sector; stage; etc...
- 2. Strong scientific and corporate teams (Nanoform & Aforall)
- Cutting edge product / technology (Nanoform's technology)
- 4. Risky, but sound and likely profitable business model
- 5. Measured funding needs, well defined financial plan
- 6. Ability to acquire a >20% stake
- 7. Established global market with a crucial IP change ahead
- 8. Two stage investment enabled measured risk approach by the Fund
- 9. Multiple exit strategies possible in max 5-year timeframe









GLIORATM

An Intra-Tumoral Thermo-Responsive Long-Acting Nano-Hydrogel for High Grade Glioma & Glioblastoma

Collaboration between Revio Therapeutics LLP & Nanoform PLC

Speaker Introduction



Sreevatsa Natarajan

Co-Founder Chief Executive Officer

Scientist-entrepreneur with more than ~25 years of global R&D and business experience in the life sciences industry.

Holds dual Masters' Degrees in Chemistry & Pharmacokinetics from Birla Institute of Technology & Sciences, Pilani and Medical College of Virginia, VA, USA.

revio therapeutics adding life to medicines

Contributed to 15 NDAs, >25 INDs, countless pre-INDs, 505(b)(2) / Hybrids & ANDAs and launched several products across various therapeutic areas such as oncology, neurology, pain, inflammation, rare diseases, infection etc.

Held leadership positions across various domains in companies such as PPD, Vertex Pharma, Glenmark Pharma, Sapien (JV with Apollo Hospitals), Rhizen and Dr Reddy's - Aurigene.

reviotx

About Revio Therapeutics

Adding life to medicines

What we do

Al-enabled new product development engine – focused on 505(b)(2) / Hybrid products



Why

Existing medicines often suboptimal – residual unmet need

Untapped opportunities for improvement & repositioning into new indications



How

Al enables creative & efficient new product ideation, analyses & development planning

Deep product expertise spanning decades, product archetypes & therapeutic areas



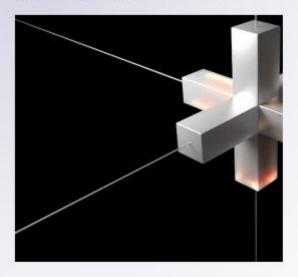
Accomplishments

Proprietary Al Engine (rethink Tx™) & pipeline built

Partnerships being forged

GLIORA – opportunity validated by rethink Tx™

rethink Tx™ able to match tech platforms to optimal product ideas



Why Glioma





High-Grade Glioma (HGG) & Glioblastoma (GBM) — Global Burden, Care Evolution & Unmet Need

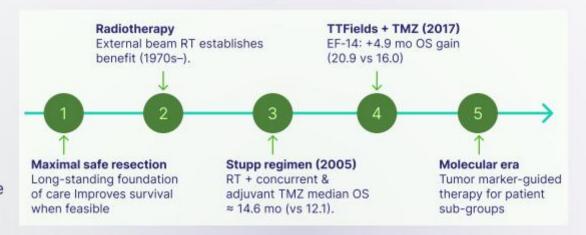


Annual Incidence

HGG (incl. GBM): ≈ 0.20M / year GBM alone: ≈ 0.16-0.18M / year

Prevalence

HGG (incl. GBM): ≈ 0.33-0.39M people GBM alone: ≈ 0.23-0.27M people



There are substantive number of patients for whom the outcomes have not improved dramatically.TMZ remains the benchmark for SoC treatment & outcomes for most patients

Setting	Typical median OS	Unmet need
Newly diagnosed GBM (maximal resection + RT + TMZ)	Newly diagnosed GBM (maximal resection + RT + TMZ)	Most relapse within 1–2 years Long-term survival remains low (<15%)
Recurrent GBM after TMZ	TMZ not tolerable Best OS ~8.6–9.1 mo with lomustine± bevacizumab	No established OS-prolonging SoC treatment TMZ rechallenge limited due to limiting toxicities & poor patient performance status

Why GLIORA





Power of local treatment that synergizes with current standard of care

Long-acting, locally delivered, intra-tumoral, thermo-responsive hydrogel containing TMZ + OLA for patients with resectable high-grade gliomas





Long-Acting Treatment

12 wks - to address the lack of treatment during the postsurgical window (4-6 wks) and as an adjunct to RT (6wks)



Locally-Delivered, Intra-Tumoral

Into the tumor void space

Locally high concentrations; limited systemic spill-over



Thermo-Responsive Hydrogel

Easy-to-prep/handle liquid at room temp; gellifies at physiological temp

Gel releases drug at a steady rate for the duration of 12 weeks and stays in place



Containing TMZ + OLA

TMZ already approved for Glioma Tx; early TMZ Tx via GLIORA during postsurgery window will improve outcomes

OLA synergy with TMZ & RT in GBM already tested; systemic toxicity limits utility of the combination – local application via GLIORA better

Why Nanoform





Enabling technology that perfectly fits the requirements for GLIORA

Technology Aspects Required

Reproducibly & efficiently generate nano-sized particles of Onco APIs via a validated GMP process

Strong IP cover on the process & nano-sized API – CESS® process differentiated from other nano-sizing approaches

Non-infringement of any limiting IP on the chosen APIs

Experience in developing high-drug load, longacting formulations with robust IP cover GBM disease area experience



Nanoform technology checks all these boxes

GLIORA success requires development of a product with high-drug loading, exquisite particle size control & constant release of both drugs for the entire duration of the treatment

Revio-Nanoform Partnership

Synergistic Capabilities Proven product development experience

Complementary roles on the program

Co-development partnership

Promising Data

GLIORA: Progress So Far & Next Steps

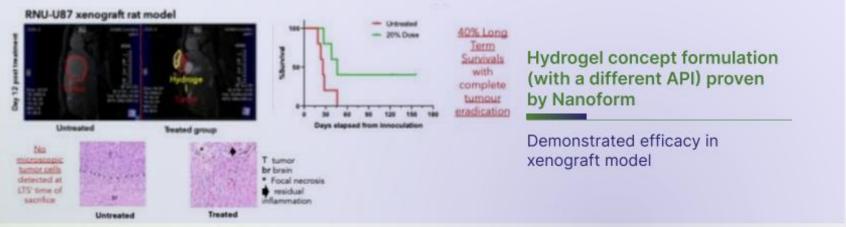


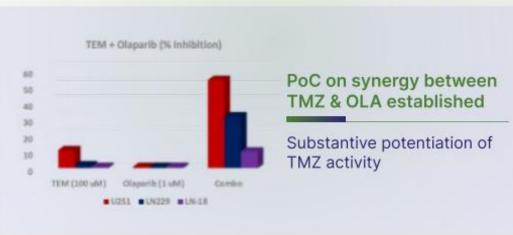


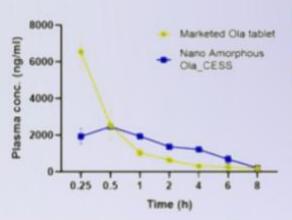
Product concept crystallized; Clear FTO; IP filing underway

Strong product IP moat that is imbued with Nanoform platform technology IP

Covers other indications (prostate ca, sarcoma) where such a product may be relevant







API nanosizing & releasetuning demonstrated & PK established

Crystalline polymer embedded nano-OLA shows gradual release - Preferred

May potentially also enable a ER oral OLA program (once-a-day)

TPP validated with KOLs

Development plan detailed

Regulatory strategy formulated

Product design-space clear & being finalized

Partner CROs for efficacy studies in place

Why GLIORA will succeed





GLIORA is a highly de-risked program with several success factors in place and a high IP & capability moat against competition



Both drugs already proven & synergistic in Glioma

Our data validates this synergy



Nanoform has successfully developed similar product prototypes earlier

Favorable competitive landscape

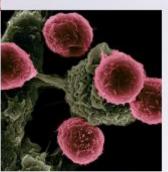


Clear unmet need; KOL validation in place



Robust IP moat – technology, product concept etc

Orphan designations and exclusivities eligible



Path Ahead & Next Steps

De-risked development plan in place





Through 2026

Product prototype and animal studies

Regulatory filings (to initiate clinical trials)

Commercial partner, additional investors signed up

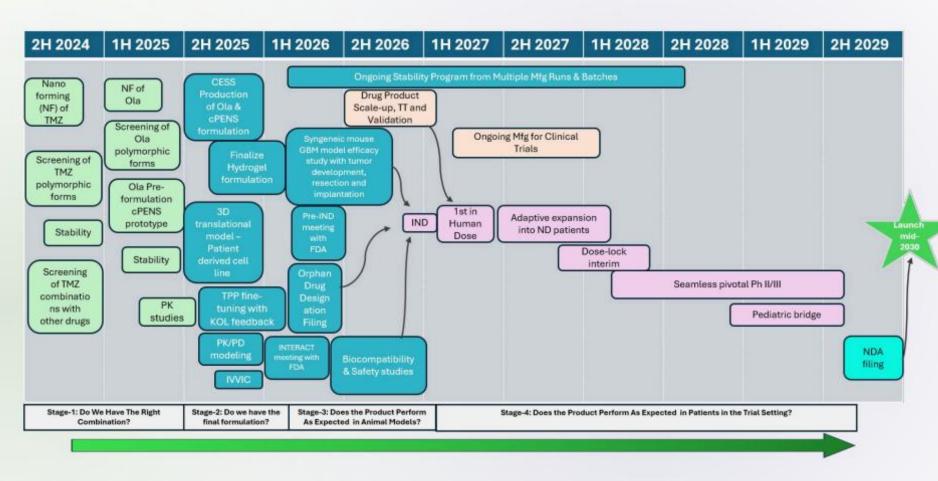
Through 2027-29

GMP manufacturing & Clinical Trials

Through 2029-30

Product filing

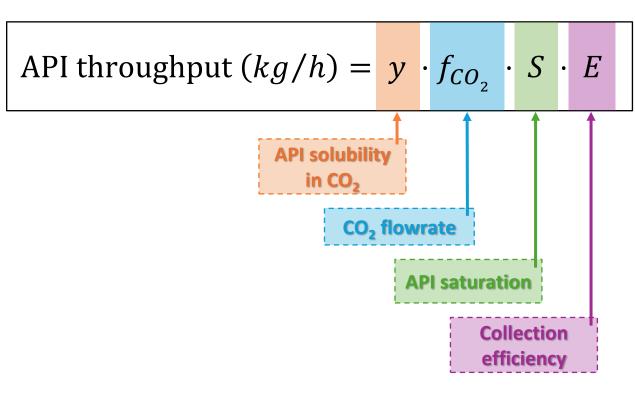
Approvals & launch

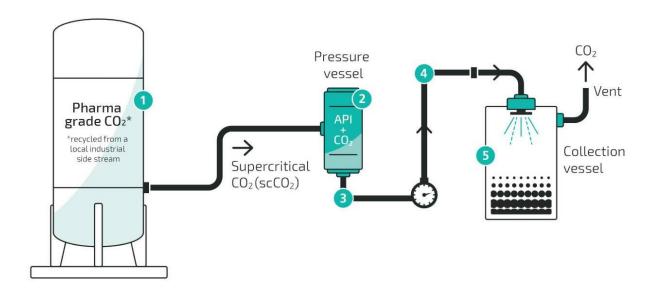






CESS® process throughput – Success recipe

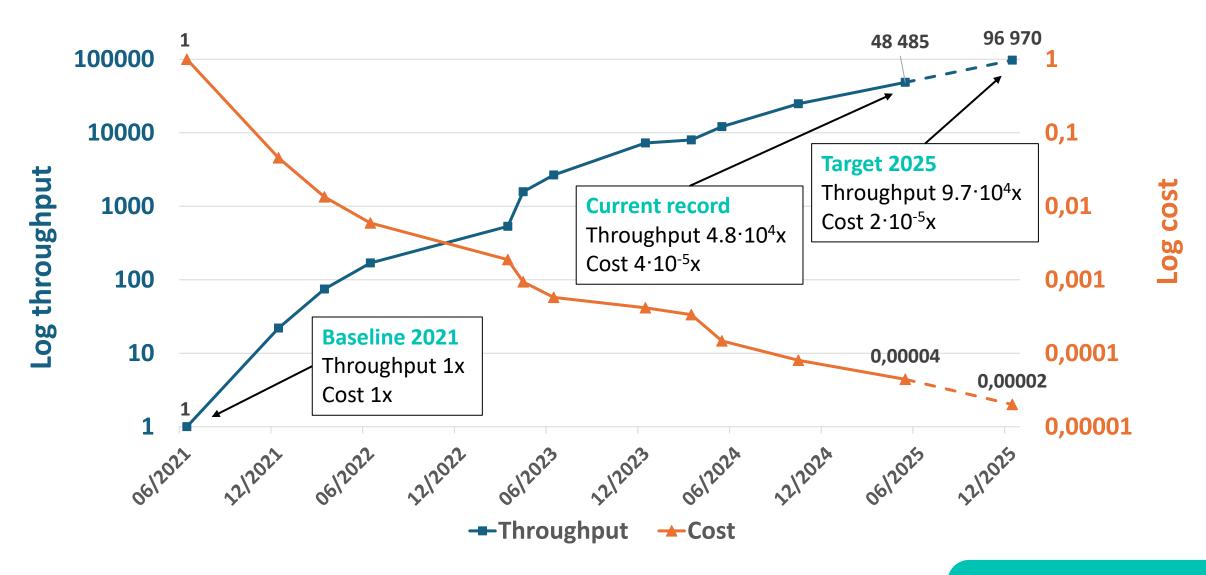




Factor	Main contributor	Range			
у	API nature, p, T _s	0.01 – 20 g/kg			
f_{co_2}	Pump capacity	6 – 300 kg/h			
S	Vessel residence time, dissolution aids	50 – 100 %			
E	Collector performance (CO ₂ flow and T _n)	50 – 98 %			



2021 ⇒ 2025 Demonstrators – Throughput & cost evolution





R&D Fleet Control Hardware Standardization

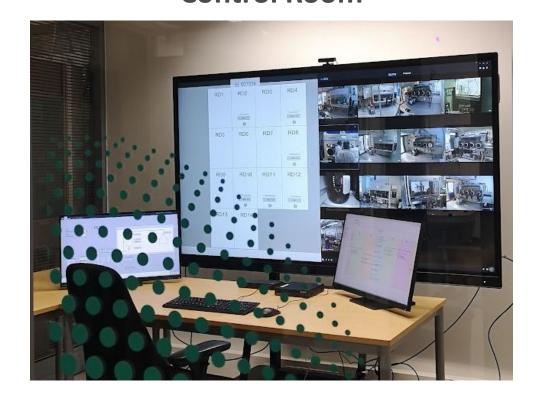
- All R&D lines upgraded to a common hardware platform
- Based on modern IEC 61499 standard enabling industry 4.0
- Faster development cycles
 - Critical for meeting scale-up timelines



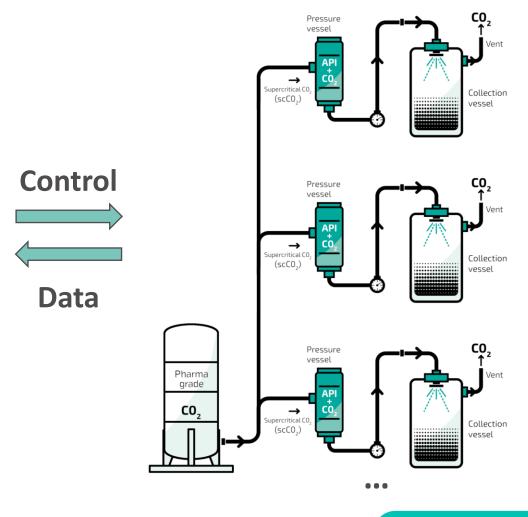


Control Room Brings Efficiency

Control Room



R&D Fleet



CO₂

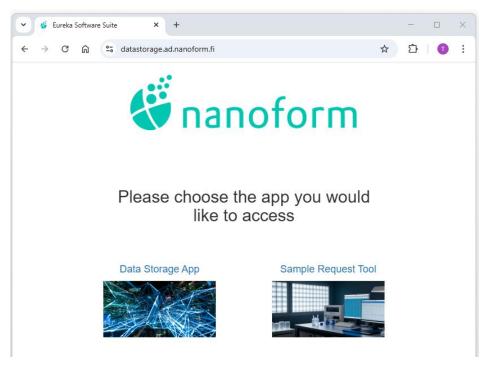
Process Control System

Co2

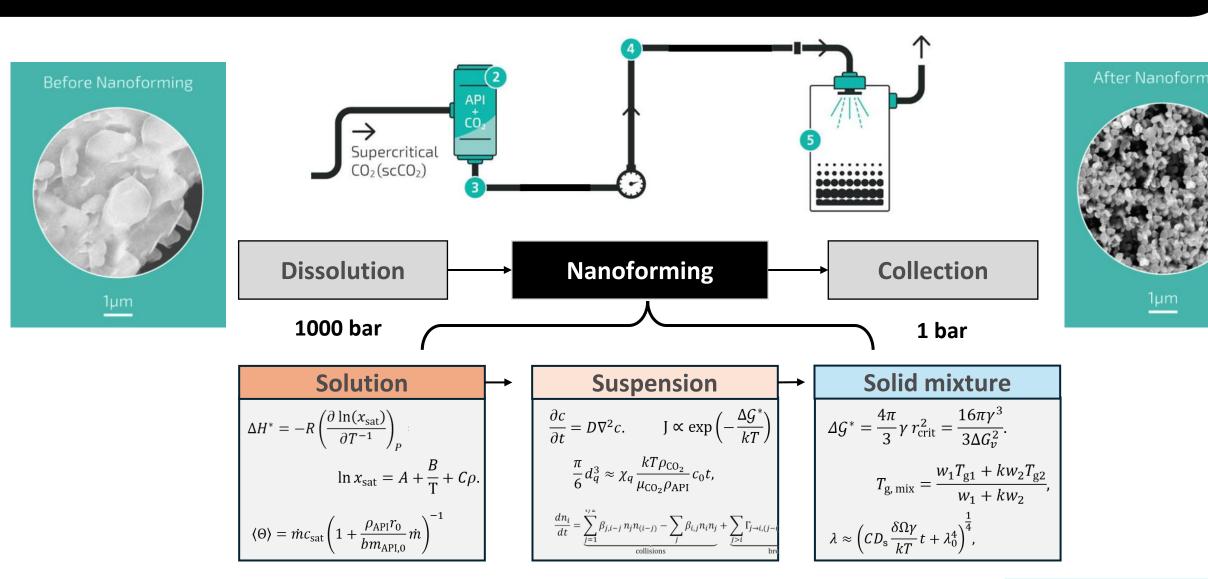
Collection vessel

Data Historian

Data Analysis and Reporting Tools

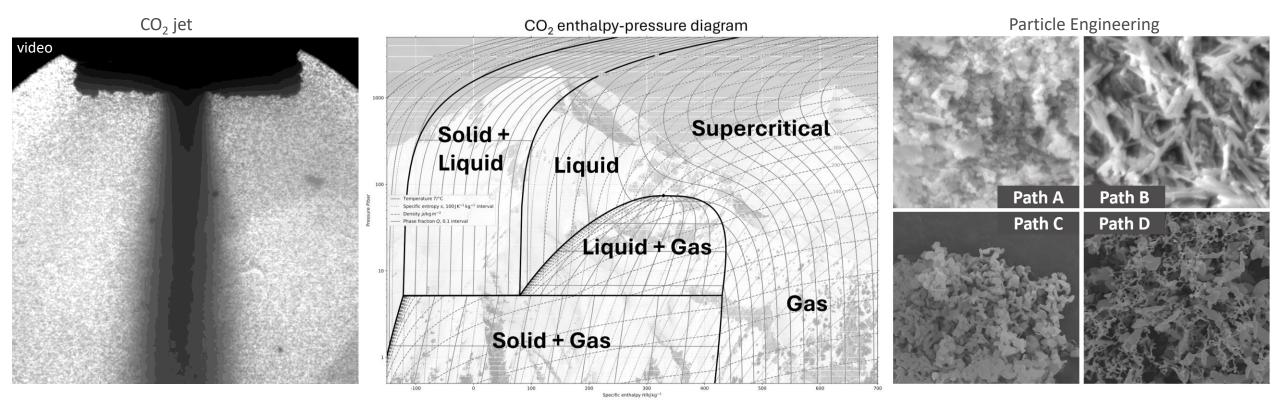


Science of Particle Formation in CESS®





Controlling supercritical-CO₂ and API



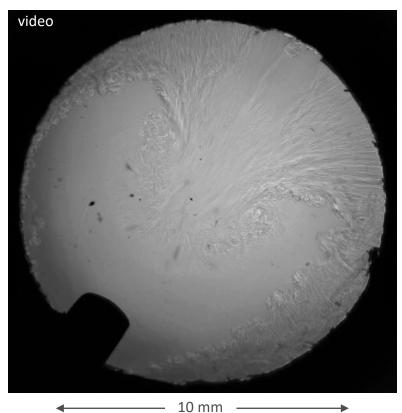


Thermodynamic path sets CO2 and API behavior



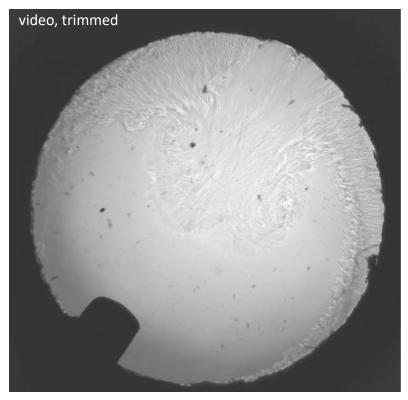
Seeing CESS®

- In standard CESS-lines nanoforming is indirectly measured.
- ➤ Here we show a rare look into API+scCO₂ nanosuspension
 - 1) Thermodynamic path A→ Large crystals

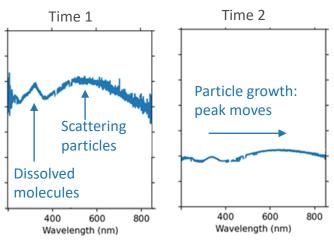


2) Thermodynamic path B

→ Nanoparticles in CO₂



UV-vis absorbance spectrum







Future of Biologics Delivery & Formulation

Subcutaneous delivery will become the **dominant standard** (>50%) for new and marketed biologics.

Suspension formulations enable high drug concentrations → lower injection volumes, making them a preferred choice.

Particle properties are critical for suspension performance → Nanoform's technology can become the "technology of choice".

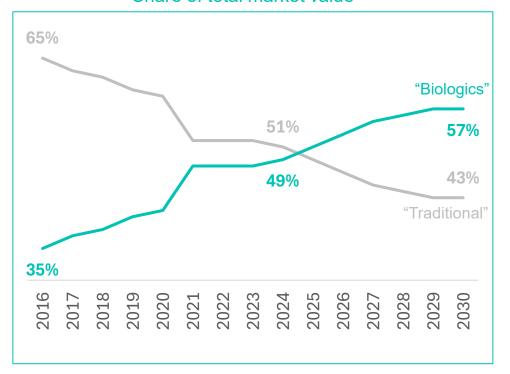


Biologics (and more specifically antibodies and GLP-1s) will dominate future value creation for the industry

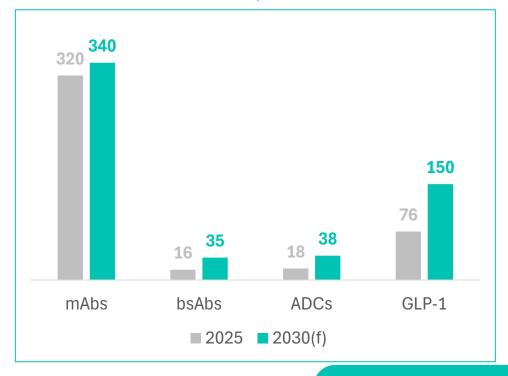
By 2030 biologics will represent 57% of industry sales and two thirds of the Top100 sellers

Antibodies and GLP-1s are the primary future revenue pools and market growth drivers for the pharmaceutical industry

Share of total market value



Sales, Bn USD





Fundamentals of the IV-to-SC Switch

Faster to Inject

Tecentriq Hyqreza ~7 min vs 30–60 minutes

Opdivo Qvantig
3–5 minute injection vs 30
minutes

Improved Safety and Tolerabiity

IRR1s vs IV

Darzalex Faspro ↓~3x

Rybrevant SC ↓~5x



Market Growth

Ocrevus Zunovo
expanding into practices
with limited IV capacity
(site-of-care flexibility)

Share Growth

DARZALEX Faspro ~96%
US conversion
Keytruda SC forecast
~40% IV-to-SC conversion
in 18–24 months

Patient & Physician Preference

85% of patients prefer SC

60% of neurologists prefer SC

System Savings

RWE² examples:

Nurse time \$179 (IV) to \$59 (SC) Infusion bed overhead from \$910 to \$101 per patient Huge potential for branded IV franchises across oncology, immunology, neurology, and metabolic disease to be partially or predominantly shifted to high-dose SC



Innovative Approaches to Address the High-Dose Challenge

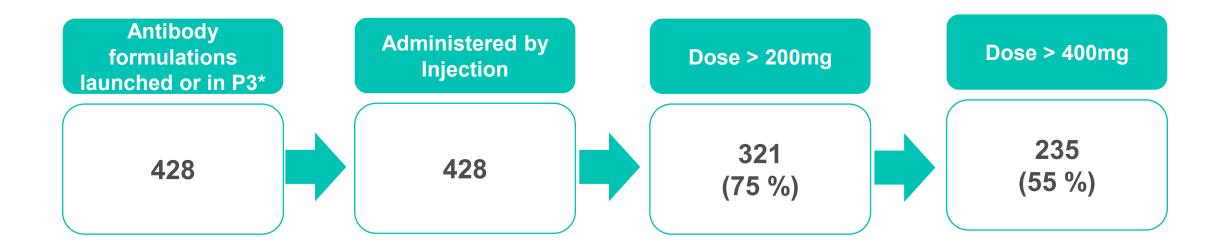
- About 140 biologics are currently on the market. [1]
- No marketed products contain more than 200 mg/ml protein concentration, and typically closer to 100 mg/ml, due to increasing viscosity that renders a product non-injectable and the risk of protein aggregation causing immune response and reduced overall efficacy. [2-6]



Innovative approaches required to allow the SC delivery of high dose biologics



All antibody formulations are injected, and their high dose is a challenge for SC delivery



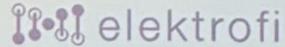
55 - 75% of antibody formulations likely require enabling technologies to be administered subcutaneously



Technology Landscape – As Seen by the Head, Pharmaceutical Development, Biologics, Merck

Looking to the Future...







Halozyme website





MEDIA RELEASE

LINDY BIOSCIENCES ENTERS LICENSING AND
COLLABORATION AGREEMENT WITH NOVARTIS FOR
MULTI-TARGET DRUG DELIVERY INNOVATION



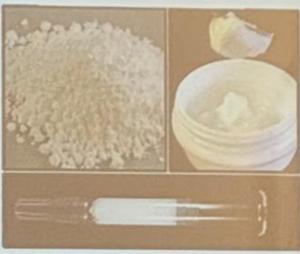


Figure 3: Example XeriJect^{ria} spray-dried powder, visco-elastic suspension and prefilled syrings.

Prestrelski, 2022



Limited Technology Availability is Driver for Strategic Positioning in the **Market through Acquisitions and Exclusive Deals**

Aug 28, 2024 6:58 AM Eastern Daylight Time

Lindy Biosciences Enters Licensing and Collaboration Agreement With Novartis for Multi-target Drug Delivery Innovation



- Novartis secures exclusive global rights across multiple biologic targets to Lindy Biosciences' microglassification technology
- Collaboration aims to enable high-concentration self-administered drug treatments, improving patient outcomes and compliance
- Lindy Biosciences to receive an upfront payment of US\$20 million and eligible to recei up to US\$934 million in milestone payments plus tiered royalties

Halozyme to buy Elektrofi in up to \$900 million deal to expand drug delivery lineup

Jan 10, 2024 8:00 AM Eastern Standard Time

Xeris Biopharma Enters Into an Exclusive Worldwide License Agreement for Xeriject® Formulation of Teprotumumab



Halozyme Dominated Exclusivity Matrix Makes Biologics Developers **Thirsty for Alternatives**

Target Receptor	Acumen	Alexion/AZ	Amgen	Argenx	BMS	Lilly	JnJ	Merck	Novartis	Regeneron	Roche	Takeda	ViiV	OTHERS
Amyloid A4 protein	Halozyme													4
C2				Halozyme										1
C5		Halozyme												10
CD20											Halozyme			8
CD38							Halozyme							12
EGFRxMET							Halozyme							7
				Halozyme&										
FcRn				Elektrofi										6
gp120													Halozyme	1
HER2											Halozyme			3
HIV integrase													Halozyme	0
IGF-1R			Xeris											7
IgG												Halozyme		7
LAG-3					Halozyme									9
PD-1					Halozyme			Alteogen						20
PDL-1											Halozyme			13
Plasma Proteins												Elektrofi		0
Unknown		Alteogen				Elektrofi	Elektrofi	Xeris	Lindy	Xeris				n/a

Subcutaneous delivery will become the **dominant standard** (>50%) for new and marketed biologics.

Suspension formulations enable high drug concentrations → lower injection volumes, making them a preferred choice.

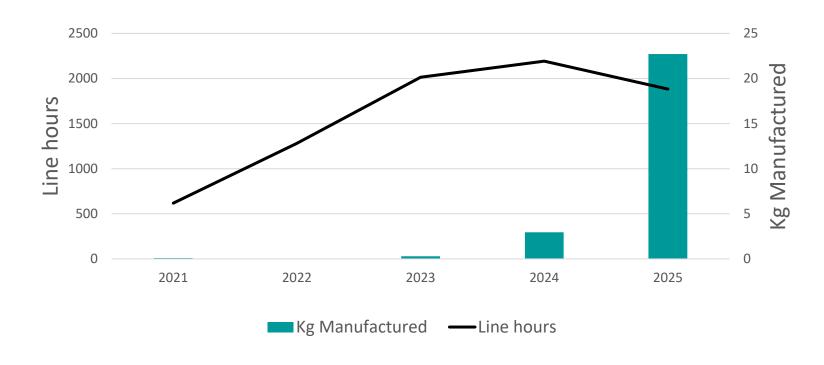
Particle properties are critical for suspension performance → Nanoform's technology can become the "technology of choice".







Bio process evolution 2021-2025



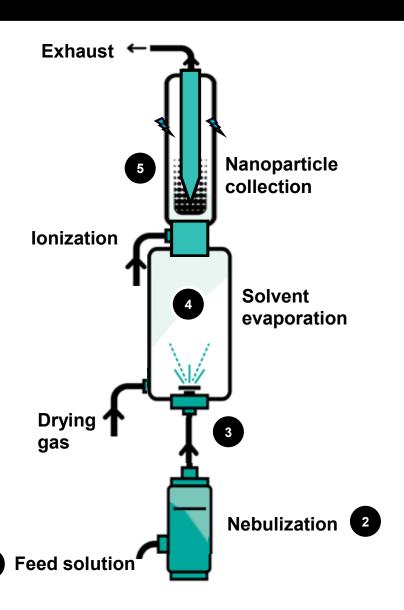
- Manual control of the BIO process
- First customer projects
- Setting up the quality control methods
- Process patent filed



- Automated process
- 1000x scale-up completed
- Several projects with Big Pharma
- Broad range of analytical methods in place



Nanoform's Bio Line Forms Dry Particles as Small as 50 nm

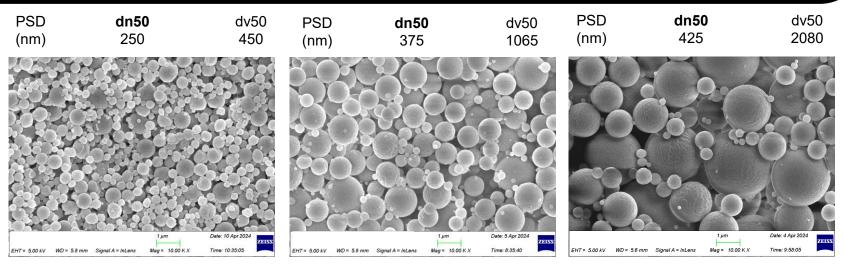


- API containing feed solution is pumped into nebulizer
- Feed solution is nebulized into mist droplets and mixed with the carrier gas
- Mist is transported into the drying chamber via a connective pipe
 - Mist is dried using low-temperature drying gas
 - Particles are charged by the ionizer and collected using electrostatic precipitation

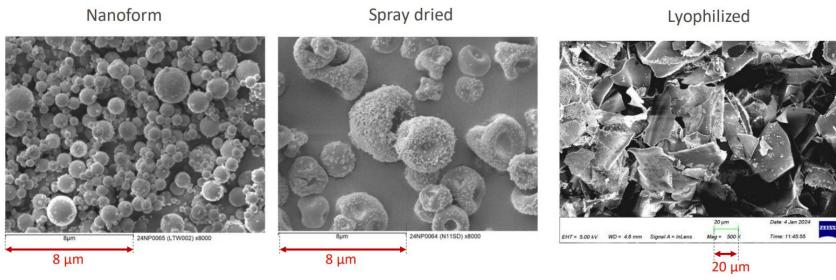


Consistent Spherical Particles, Tunable in Size, Distinct from those Produced by Conventional Techniques

Tunable particle size distribution in the Nanoform Biologics – highly spherical particles retained

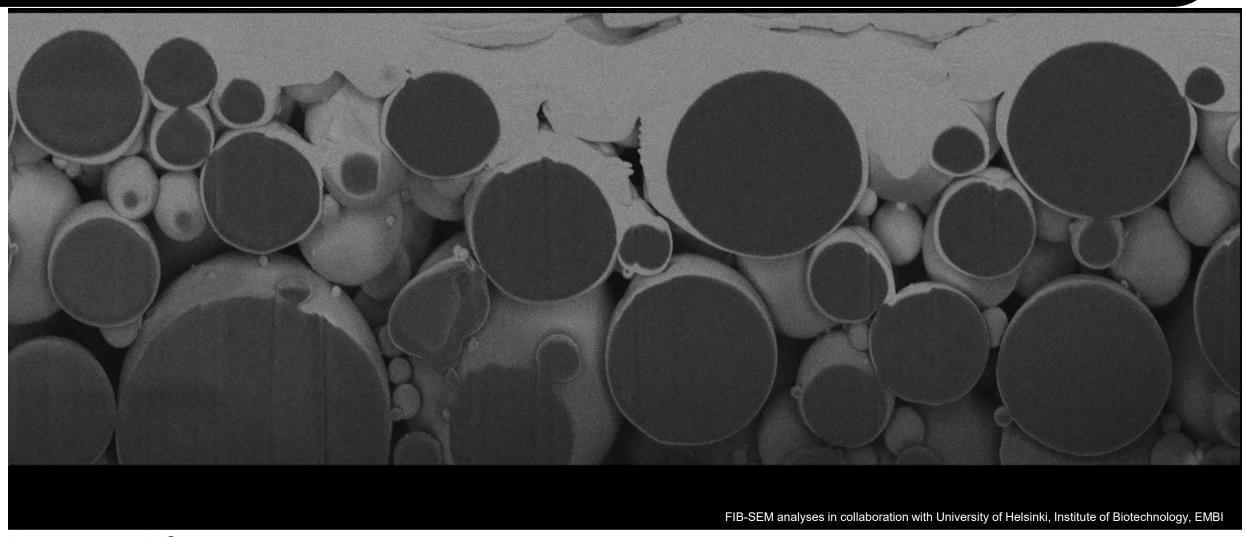


Takeda data: Nanoformed particles distinct from those produced by conventional technologies using an identical feedstock formulation





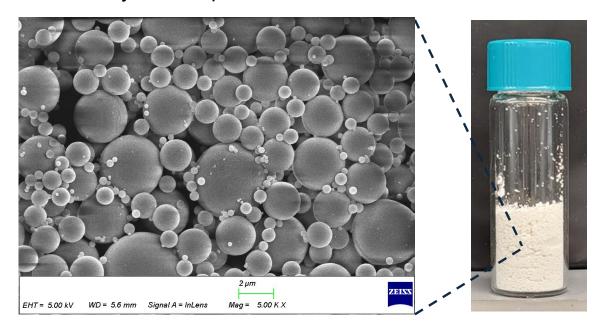
Nanoformed Particles are compact structures with high packing density. (Method: Focused Ion Beam-Scanning Electron Microscopy (FIB-SEM)

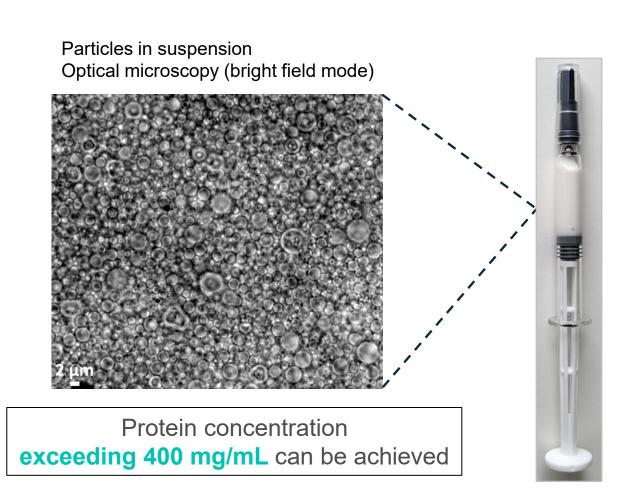




Applications of the Nanoformed Biologics

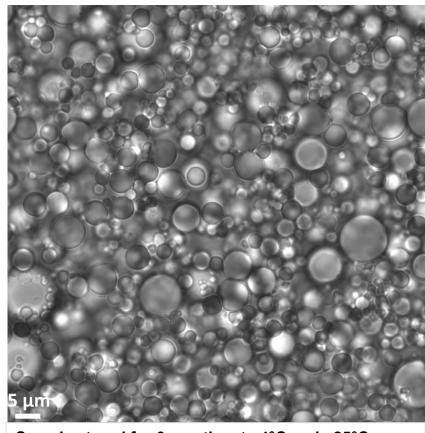
Dry Protein particles





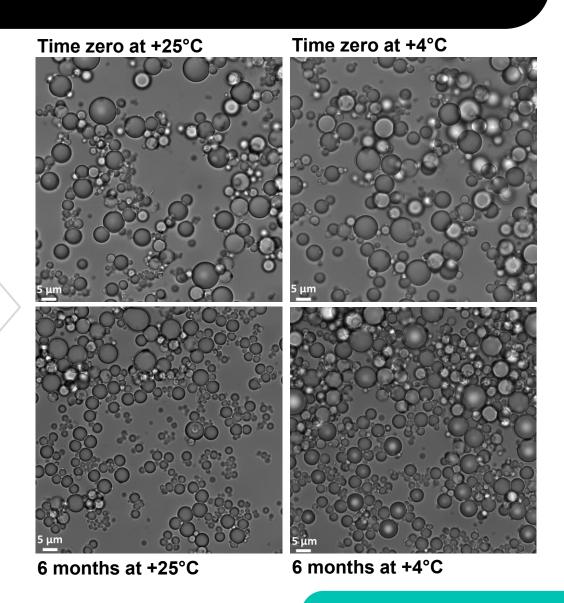


No change on particles in the suspension – after 6 months



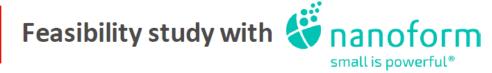
Sample stored for 6 months at +4°C and +25°C, 600 mg/mL dry mass, 300 mg/mL API.

Diluted to 200 mg/mL dry mass to enable acquiring of sharp images





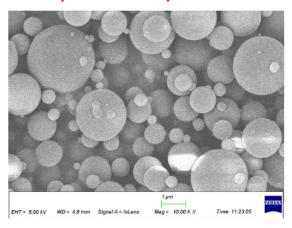
Our ability to develop very high concentrations of stable, injectable biological material has been validated by large pharma partners





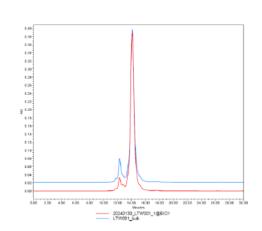
Nanoforming of IgG

IgG was successfully solidified to <u>nano</u>particles (D50: 900 nm)



Testing of drying impact

Protein was confirmed to be stable during solidification.



Batch	Aggregrates %	Monomer+dimer %			
Bulk (blue)	0,63	99,37			
Nano (red)	0,23	99,77			

40% IgG suspension

Benzyl Benzoate

MCT oil

Confirmed to be injectable



Protein concentrations >400 mg/ml

Viscosity: ~70 cp. Injection force: 8-9N Syringe: 25G, 1.3 ml/min





Applications of the Nanoformed Biologics – pulmonary delivery

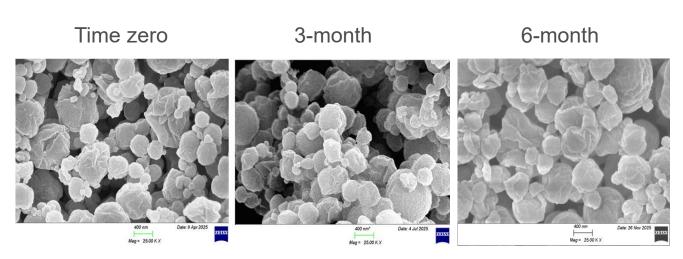


Fig. 1 Formulated semaglutide powder by SEM at 25K magnification

Analytical Methods for Stability trial at 25 °C:

- RP-HPLC: No change in related impurities from manufacture
- SEC-HPLC: No change in aggregation state from manufacture

Particle Size:

SEM: Size, shape and morphology – no change

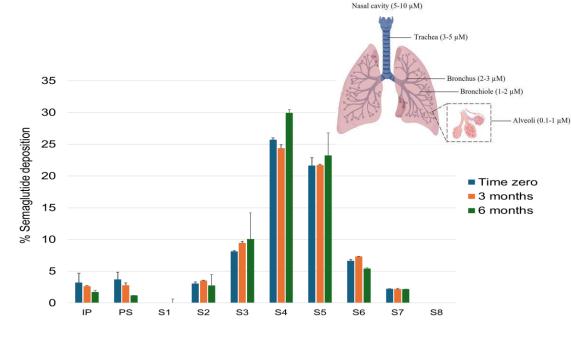


Fig. 2 Semaglutide deep lung deposition profiles measured using Next Generation Impactor (NGI)

Nanoformed Semaglutide is stable for at least 6 months

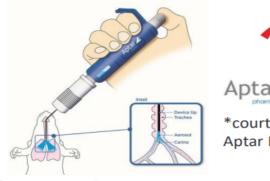
Consistent particle size enables deep alveolar deposition, enhancing systemic uptake



Takeda in-vivo data confirm promising in-vitro data

PK Profile of Nanoformed AAT in a Murine Model

- Mice received 500 μg AAT intratracheally, either as nanoformed particles via PADA device* or as a reconstituted formulation (AAT Liquid).
- Terminal lung lavage and serum collection were performed at seven time points, with clinical signs monitored throughout the 48-hour observation period.

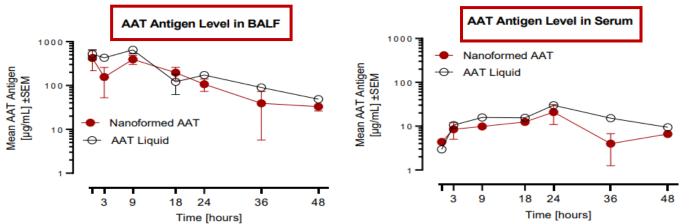






*courtesv of **Aptar Pharma**

Preliminary pharmacokinetic profile of intratracheally administered Nanoformed AAT powder in murine lung tissue.



Preliminary PK Parameters

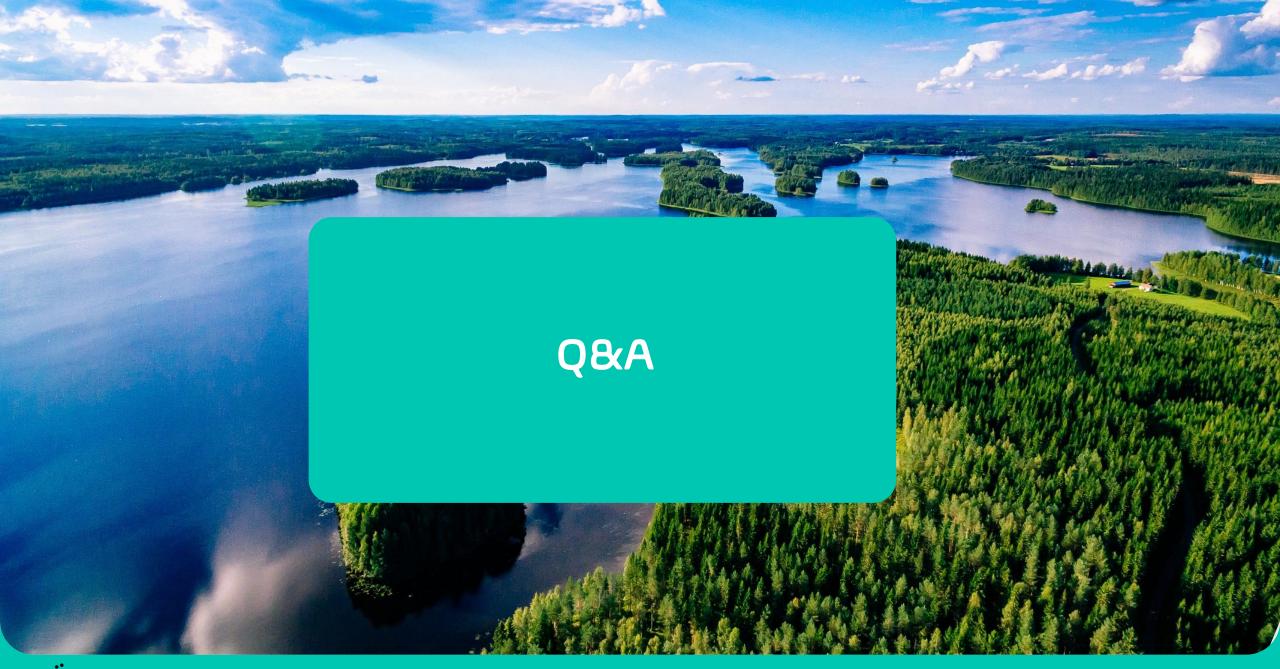
	Nanoformed AAT	AAT Liquid				
Lung						
Half-life [h]	13.1	13.5				
AUC _{0-48h} [h*μg/mL]	9600	10,700				
C _{max} [µg/mL]	550	650				
Serum						
Half-life [h]	~14.5	~17.2				
AUC _{0-48h} [h*μg/mL]	460	780				
C _{max} [μg/mL]	21.0	29.9				
T _{max} [h]	24	24				

- Intratracheal (IT) administration of Nanoformed AAT particles or AAT liquid was well tolerated in mice.
- Lung exposure to AAT was achieved in all animals, resulting in comparable pharmacokinetic (PK) parameters between the two formulations.
- Systemic exposure following IT administration of both nanoformed and liquid AAT was approximately 5% of the lung exposure.

Pulmonary delivery of Nanoformed AAT constitutes a promising targeted therapeutic approach.

Markus Weiller, Director PDT Translational Science

AAT: human Alpha-1 Antitrypsin; BALF: Bronchoalveolar Lavage Fluid









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