

Q4 REPORT (APR-JUN 2019)

FISCAL YEAR 2018/2019

AUDIO CONFERENCE 22 AUGUST 2019, AT 09:00 CET

Present from Ascelia Pharma:

CEO Magnus Corfitzen | CFO Kristian Borbos | CMO Carl Bjartmar | Head of IR Mikael Widell

Direct link audiocast:

<https://tv.streamfabriken.com/ascelia-pharma-q4-2018-2019>

Teleconference dial-in:

SWE: +46 85 055 83 50 | UK: +44 33 3300 9267 | US: +1 833 823 0587

FORWARD LOOKING STATEMENTS

This presentation, which includes all information and data on the following slides, any oral statements made when presenting these slides, and any other material distributed or statements made at, or in connection with, such presentation (the “Presentation”), relates to Ascelia Pharma AB (publ) (hereinafter, together with its subsidiaries, the “Company”) is furnished to you solely for your information and may not be reproduced or redistributed, in whole or in part, to any other person without the prior written consent of the Company. You should not rely upon it or use it to form the definitive basis for any decision, contract, commitment or action whatsoever, with respect to any transaction or otherwise.

The information included in this Presentation may contain certain forward-looking statements relating to the business, financial performance and results of the Company and/or the industry in which it operates. Forward-looking statements concern future circumstances and results and other statements that are not historical facts, sometimes identified by the words “believes”, “expects”, “predicts”, “intends”, “projects”, “plans”, “estimates”, “aims”, “foresees”, “anticipates”, “targets”, and similar expressions. The forward-looking statements contained in this Presentation, including assumptions, opinions and views of the Company or cited from third party sources are solely opinions and forecasts which are subject to risks, uncertainties and other factors that may cause actual events to differ materially from any anticipated development. Neither the Company nor any of its affiliates, directors, employees or advisors provides any assurance that the assumptions underlying such forward-looking statements are free from errors nor do any of them accept any responsibility for the future accuracy of the opinions expressed in this Presentation or the actual occurrence of the forecasted developments. This Presentation speaks as of the applicable reporting date, and there may have been changes in matters which affect the Company subsequent to the date of this Presentation. Neither the issue nor delivery of this Presentation shall under any circumstance create any implication that the information contained herein is correct as of any time subsequent to the date hereof or that the affairs of the Company have not since changed, and the Company does not intend, and does not assume any obligation, to update or correct any information included in this Presentation.

Each person should make their own independent assessment of the merits of the Company and should consult their own professional advisors. By receiving this Presentation, you acknowledge that you will be solely responsible for your own assessment of the market and the market position of the Company and that you will conduct your own analysis and be solely responsible for forming your own opinion of the potential future performance of the Company’s business.

ASCELIA PHARMA IN BRIEF



Orphan oncology-dedicated drug development company



We develop drugs which target unmet medical needs, have an established mode of action and a relatively low development risk



Mangoral®

Phase III ready novel liver MRI contrast agent with no competition



Oncoral

Phase II ready novel tablet chemotherapy for gastric cancer



Founded in 2000 and headquartered in Malmö, Sweden



Listed on Nasdaq Stockholm in 2019 (ticker: ACE)

KEY EVENTS IN THE PERIOD

Summary of key events in Q4



Mangoral

- Supportive feedback from EMA on the phase III program for Mangoral



Oncoral

- Encouraging results from the Phase I combination study with Oncoral and oral capecitabine published in the journal Cancer Chemotherapy and Pharmacology





- Filing of a patent application for next generation Mangoral product



- Raised SEK 22 million in utilised IPO over allotment

SELECTED UPCOMING KEY EVENTS IN 2019 AND 2020

	H2-2019	2020
 <i>Mangoral</i>	Phase III: First Patent First Visit	Phase III: Last Patent Last Visit (H2-2020) Final study results (H2-2020 / early 2021)
 <i>Oncoral</i>	Phase II preparations	Phase II study

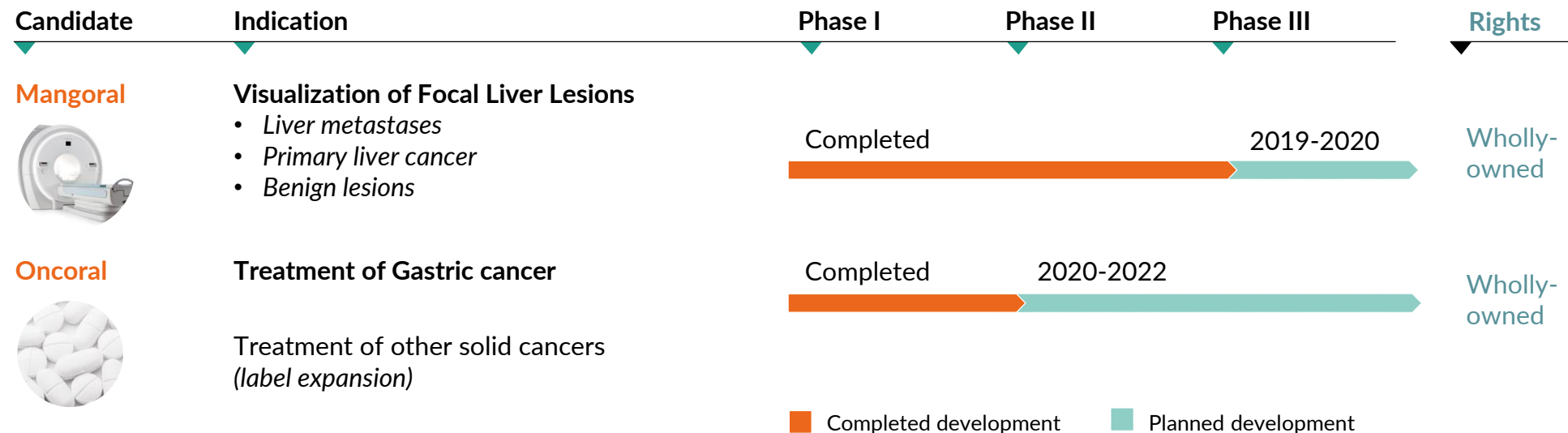
ASCELIA PHARMA HIGHLIGHTS AND PIPELINE

Mangoral

- Novel imaging drug with Orphan Drug Designation (FDA)
- No competing products
- \$350-500M market with substantial upside potential
- De-risked Phase 3 clinical program starting in H2-2019

Oncoral

- Novel tablet chemotherapy formulation
- Gastric cancer is an Orphan indication
- Phase I clinical study completed
- Recent acquisition of comparable product >\$1 billion



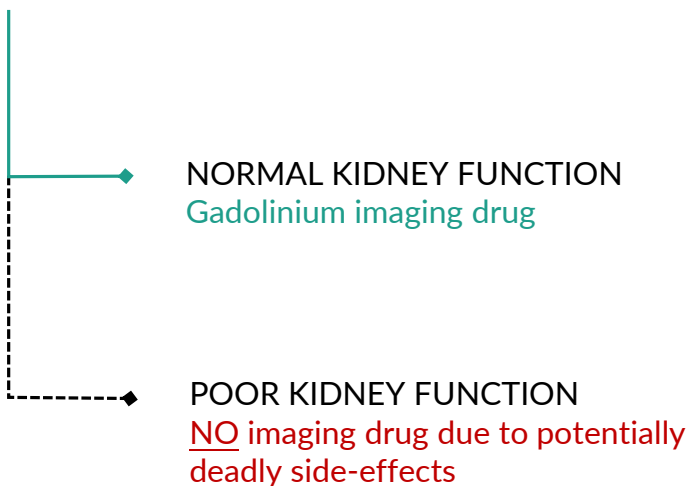


MANGORAL

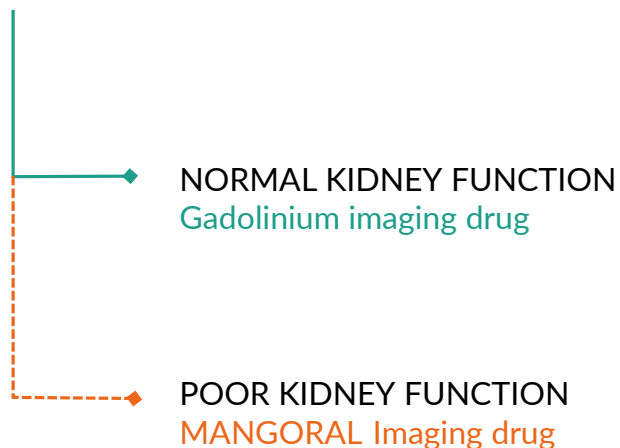


PATIENTS REFERRED FOR LIVER MRI SCAN

TODAY



TOMORROW



Mangoral aims to be the new
gold standard liver MRI imaging drug
for patients with impaired kidney
function



280,000

patients with impaired kidney
function in major markets

MANGORAL STRONG CLINICAL RESULTS AND KEY BENEFITS

MANGORAL PROFILE AND KEY ADVANTAGES



Mangoral is based on manganese – a natural trace element in the body



FDA Orphan Drug Designation



Strong enhancement of liver on MRI – metastases do not take up manganese and appear darker on the MRI



No risk of Nephrogenic Systemic Fibrosis



Limited systemic exposure and good safety profile



No competing drug



Provides ease of use for patients and clinicians alike

STRONG CLINICAL RESULTS

Six Phase I and Phase II trials completed

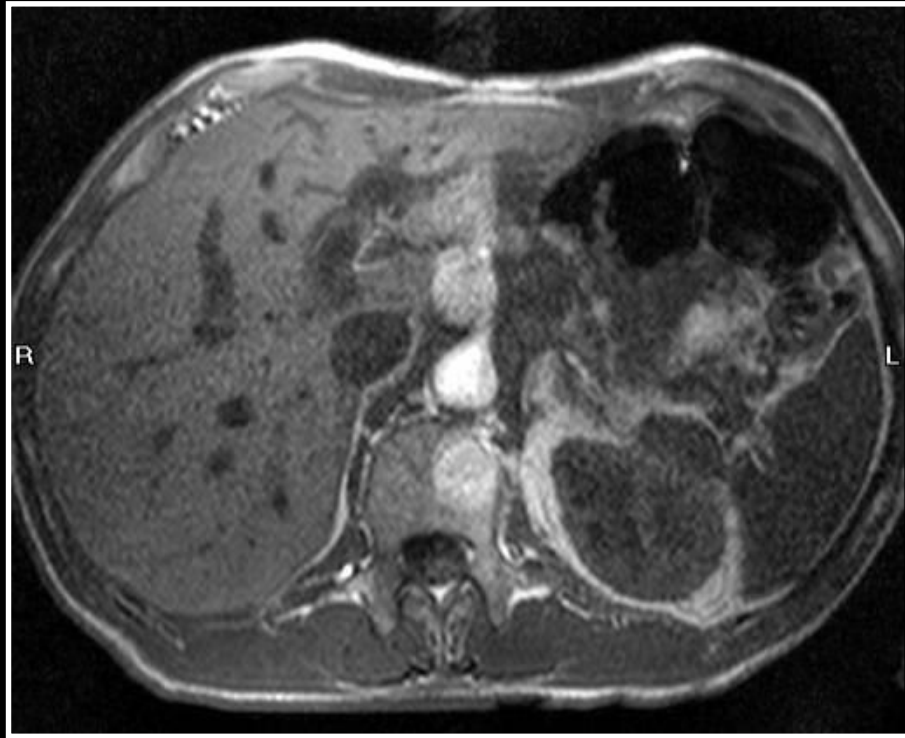
- The clinical trials have shown strong clinical efficacy without any safety concerns

Blinded read study

- The study with 178 subjects further underlined that Mangoral significantly improves MRI performance
- 33% more lesions were detected after Mangoral enhanced MRI
- Parameters incl. lesion visualization (conspicuity) and delineation had $p\text{-value} < 0.0001$ which demonstrate significant improvements in MRI imaging

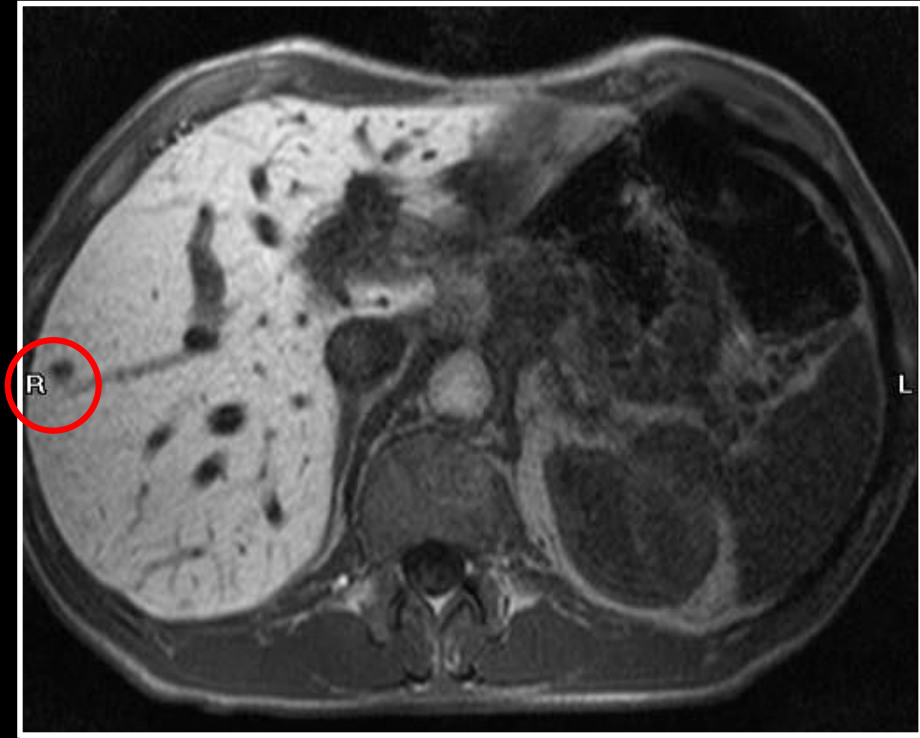
MANGORAL MAKES A REAL DIFFERENCE

PATIENT EXAMPLE FROM PHASE II STUDY



Unenhanced liver MRI

(standard of care today in target patient population)








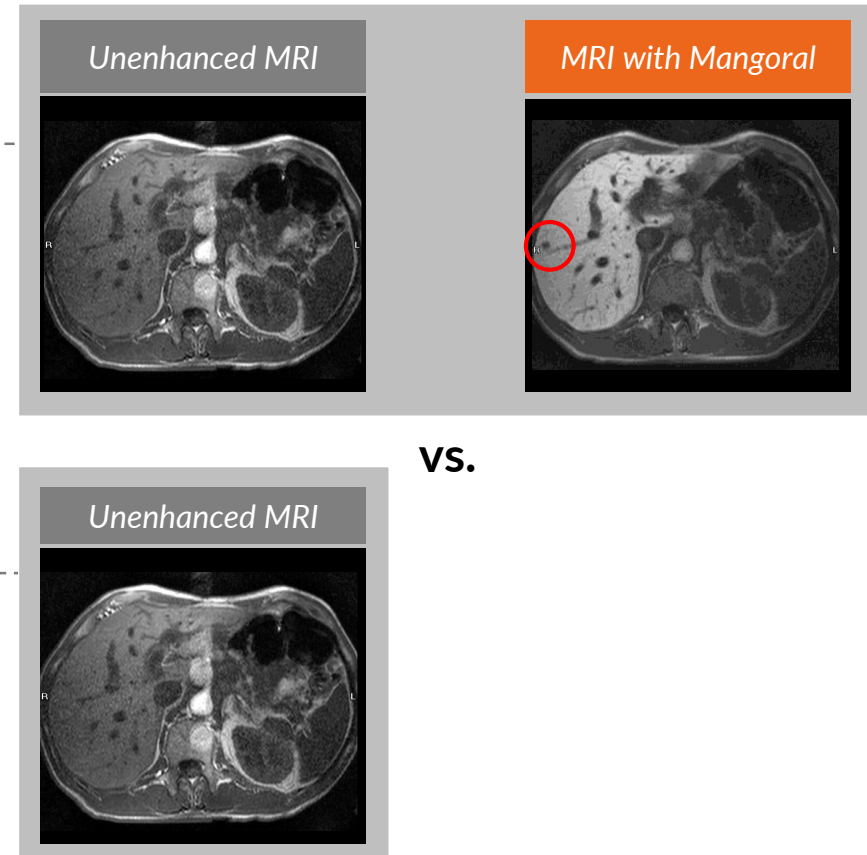
Mangoral enhanced liver MRI

A liver metastasis now appear

MANGORAL PHASE III STARTING IN H2-2019

Mangoral clinical phase III study design – based on Phase III protocol meeting with FDA and EMA

Number of patients	Up to 200 patients
Endpoint 	Lesion visualisation <ul style="list-style-type: none">• No. of lesions visualised• Semi-quantitative and Semi-qualitative parameters
Comparator 	Unenhanced MRI + Mangoral MRI vs. Unenhanced MRI
Evaluation 	Centralised evaluation by 3 radiologists
Randomisation 	No – each patient will be in both study arms
Follow-up 	72 hours



MANGORAL IS THE ONLY PRODUCT IN A \$350-500M MARKET

Overview of Mangoral's addressable market

280,000 patients having risk of cancer in the liver and poor kidney function

Mangoral useful for diagnosis, monitoring and surveillance

\$1,500 - \$3,000 per dose of Mangoral based on Value-based-pricing

\$350-500 million addressable market for Mangoral

Source

Detailed epidemiology analysis by geography, age groups and primary disease

Use of liver MRI today and clinical guidelines

>25 interviews with payors/health insurers in US and EU and analysis of value provided by Mangoral

Note: 280,000 is estimated relevant patient population with cancer in USA, Europe and Japan

NEXT GENERATION MANGORAL PRODUCT (LIFE CYCLE MANAGEMENT) - NEW PATENT APPLICATION TO EXTEND RIGHTS TO YEAR 2040

- In June 2019, a patent application was filed for an improved formulation of Mangoral
- Upon grant, the new patent would further improve the unique value proposition to the Mangoral franchise and extend the intellectual property protection rights until year 2040



US

- Mangoral has Orphan Drug Designation in the US
- 7 years of market exclusivity after market authorisation
- 6 months extension can be obtained if a paediatric indication obtains market authorisation within seven years



EU

- Upon marketing authorisation, Mangoral is expected to be protected by 8+2 years of data exclusivity and market protection
- 10 years of market exclusivity if Mangoral obtains Orphan Drug Designation with a possible two year extension if certain criteria are met



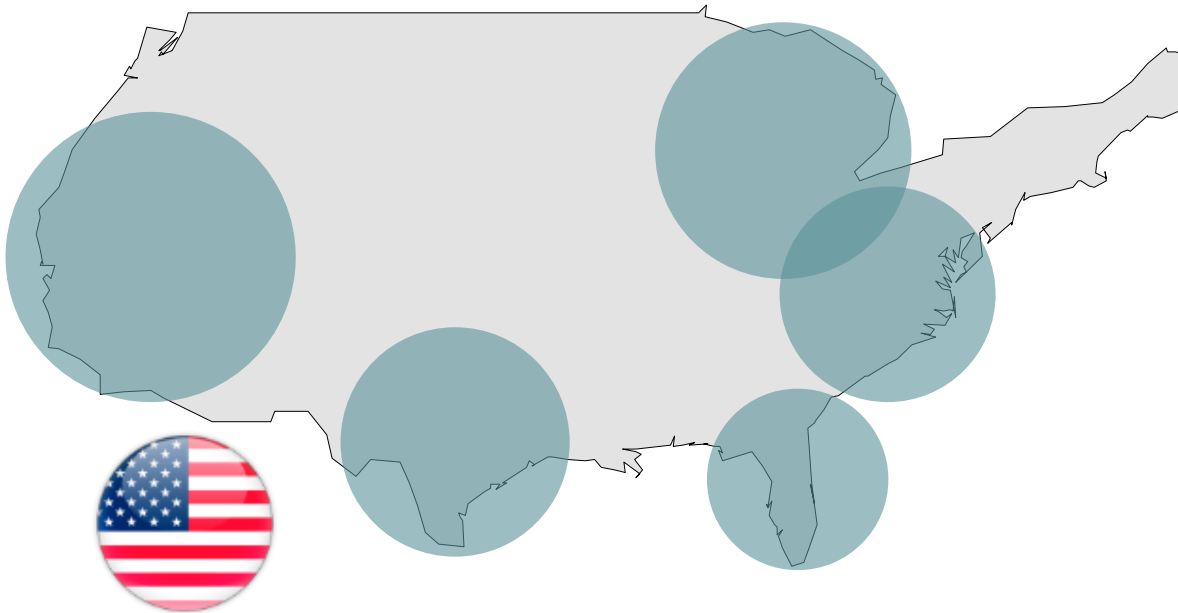
Japan

- Ten years of market exclusivity if Mangoral obtains Orphan Drug Designation in Japan
- Orphan Drug Designation will be discussed with the Japanese health authorities, PMDA, during the course of the phase III clinical development and applied for at the time of NDA submission

New patent application to extend exclusivity to year 2040
– significant value impact, if granted

MANGORAL COMMERCIAL STRATEGY FOR A 2022 SALES LAUNCH

10-20 Sales Reps sufficient for penetration in concentrated regions



- Ascelia's sales force will target major hospitals with nephrology units
- 10-20 sales reps in the US sufficient for significant penetration
- Reimbursement expected shortly after sales launch
- Chief Commercial Officer will be recruited during the Phase 3 clinical study to finalize commercial strategy and prepare launch
- No recent innovation in the MRI space Mangoral has attracted major attention. This will be utilized in the pre marketing phase
- Ascelia Pharma sales force in Europe being evaluated
- Find commercial partners in Japan, South Korea and China



ONCORAL

ONCORAL – A NOVEL IRINOTECAN TABLET FOR ANTI-CANCER TREATMENT

NOVEL ORAL FORMULATION



Formulated as a **tablet** for convenient dosing and health-economic benefits



Promising safety potential of oral administration



Potential for **all-tablet chemo-combination**

PHARMACEUTICAL INGREDIENT HAS PROVEN EFFECT



Irinotecan shown to be effective in **killing cancer cells**

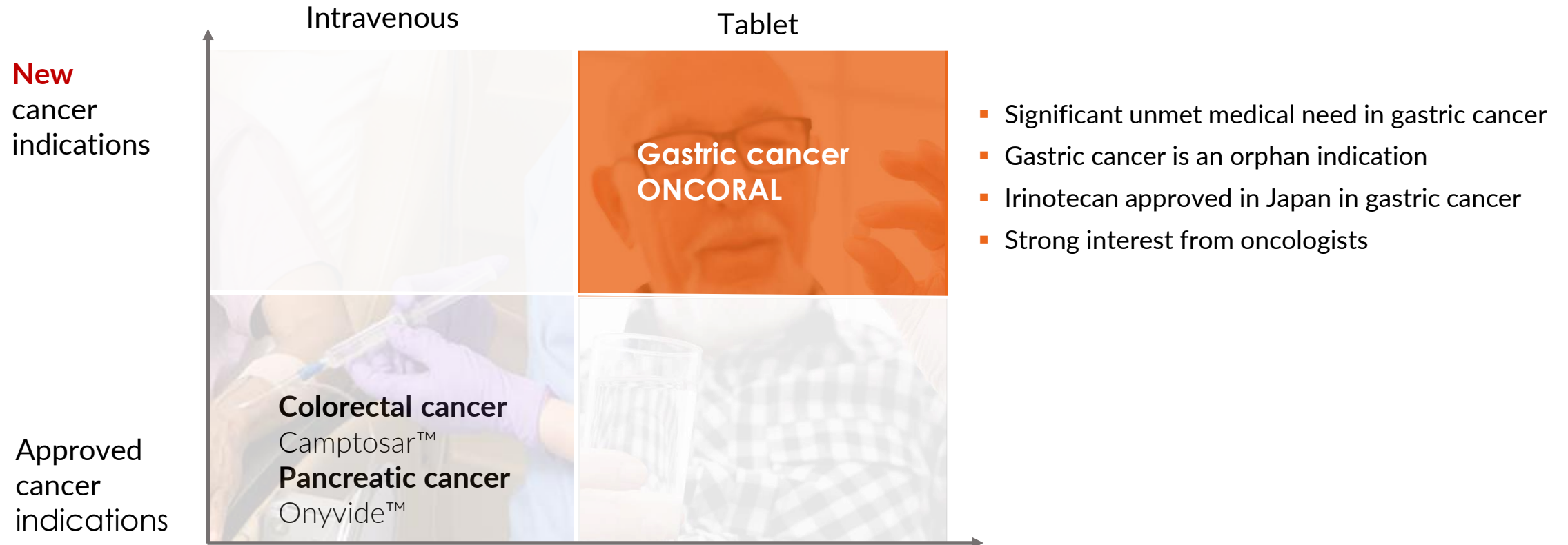


Expected to be efficacious and safe **together** with other well-recognized anti-cancer drugs



Orphan drug indication for gastric cancer by the FDA and EMA

ONCORAL HIGHLY DIFFERENTIATED FROM OTHER IRINOTECAN PRODUCTS



ENCOURAGING ONCORAL PHASE I STUDY RESULTS

Phase 1 single agent study published in Jan 2019

Results showed that Oncoral was well tolerated; side effects were generally mild to moderate, manageable and similar in type to those observed with intravenous irinotecan

Hematological toxicities were few and all were mild to moderate

Pharmaco-Kinetic (PK) data showed consistent daily exposures during treatment at days 1 and 14 with no drug accumulation

The active metabolite, SN-38, interpatient variability was in the same range as after infusion of irinotecan

In this heavily pre-treated patient population, Oncoral indicated activity even among patients previously treated with irinotecan infusion

The study was presented at ESMO congress in October 2018



Phase 1 combination study published in April 2019

The combination of Oncoral with another oral chemotherapy, capecitabine, was encouraging which could enable an all-oral chemotherapy combination

The study data demonstrated reassuring tolerability of Oncoral together with capecitabine

The combination with capecitabine could become a more convenient and patient friendly treatment option compared to the intravenous formulations of these compounds

The encouraging tolerability profile justifies further clinical studies to assess the efficacy of this treatment regimen

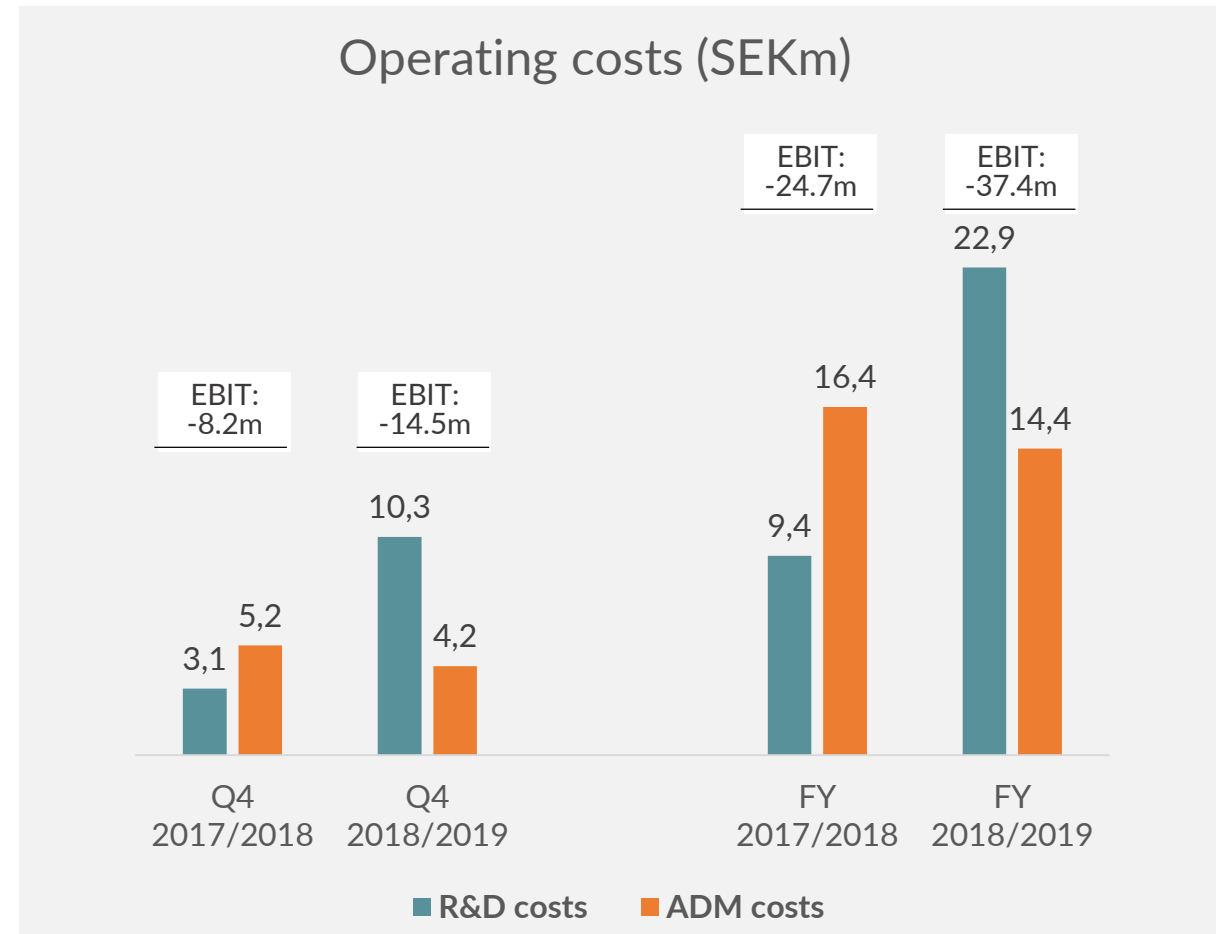


FINANCIALS

Q4 2018/2019 FINANCIAL HIGHLIGHTS – OPERATING RESULTS

Increased operating loss y/y driven by higher R&D activity for Mangoral Phase III preparations:

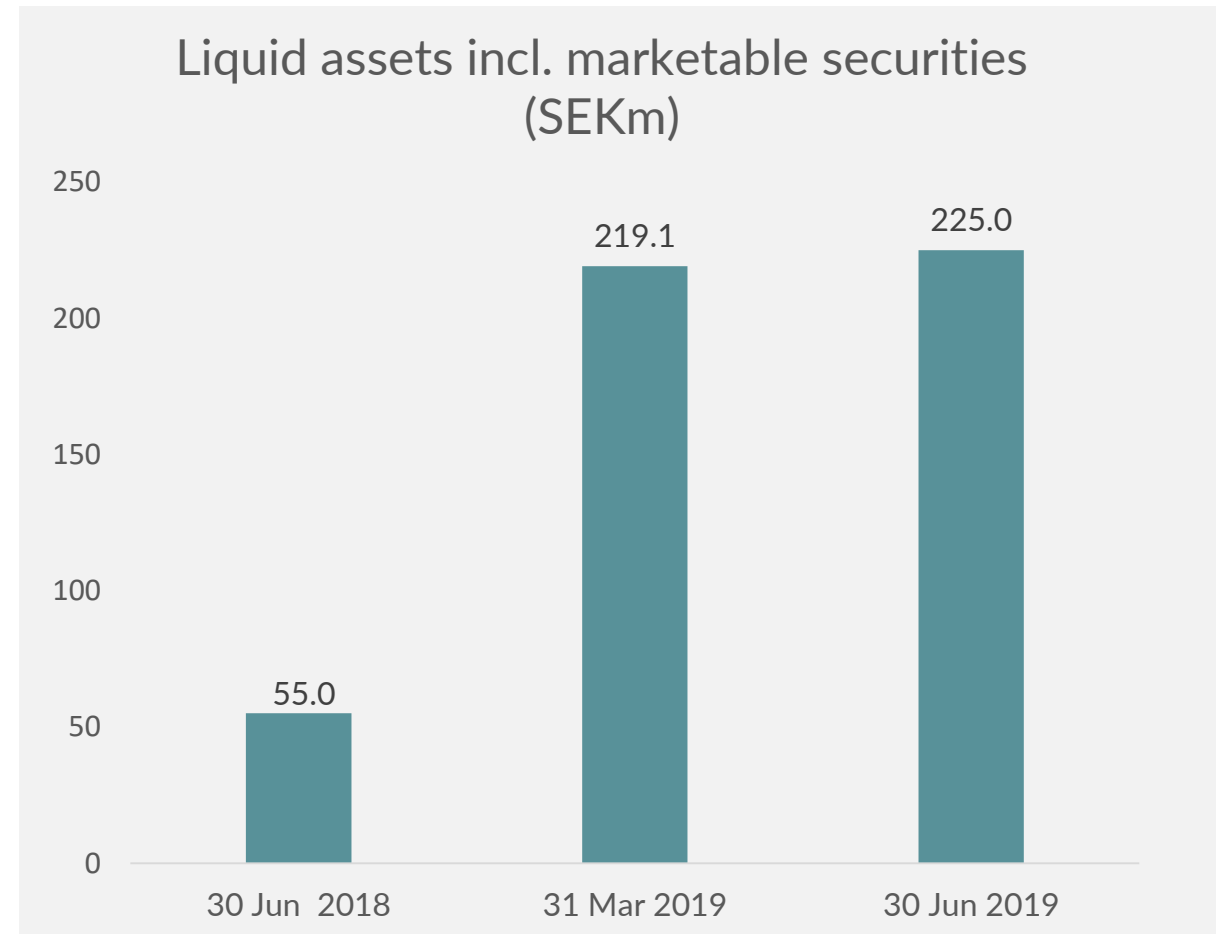
- Protocol finalisation
- Site selection
- Upscale of manufacturing



Q4 2018/2019 FINANCIAL HIGHLIGHTS – LIQUIDITY POSITION

Continued strong liquidity:

- Liquid assets incl. marketable securities of SEK 225 million
- The liquidity position provides a fully financed Phase III program for Mangoral including commercial preparations as well as financing to prepare the Phase II program for Oncoral

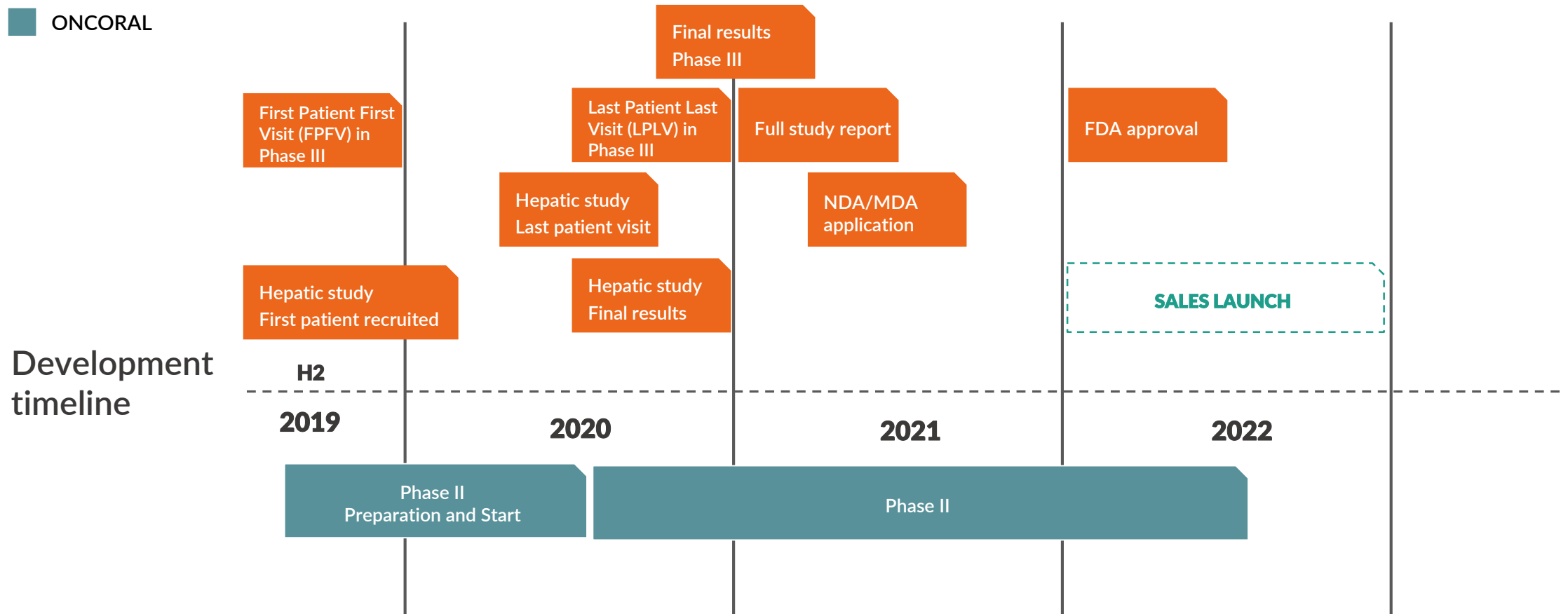




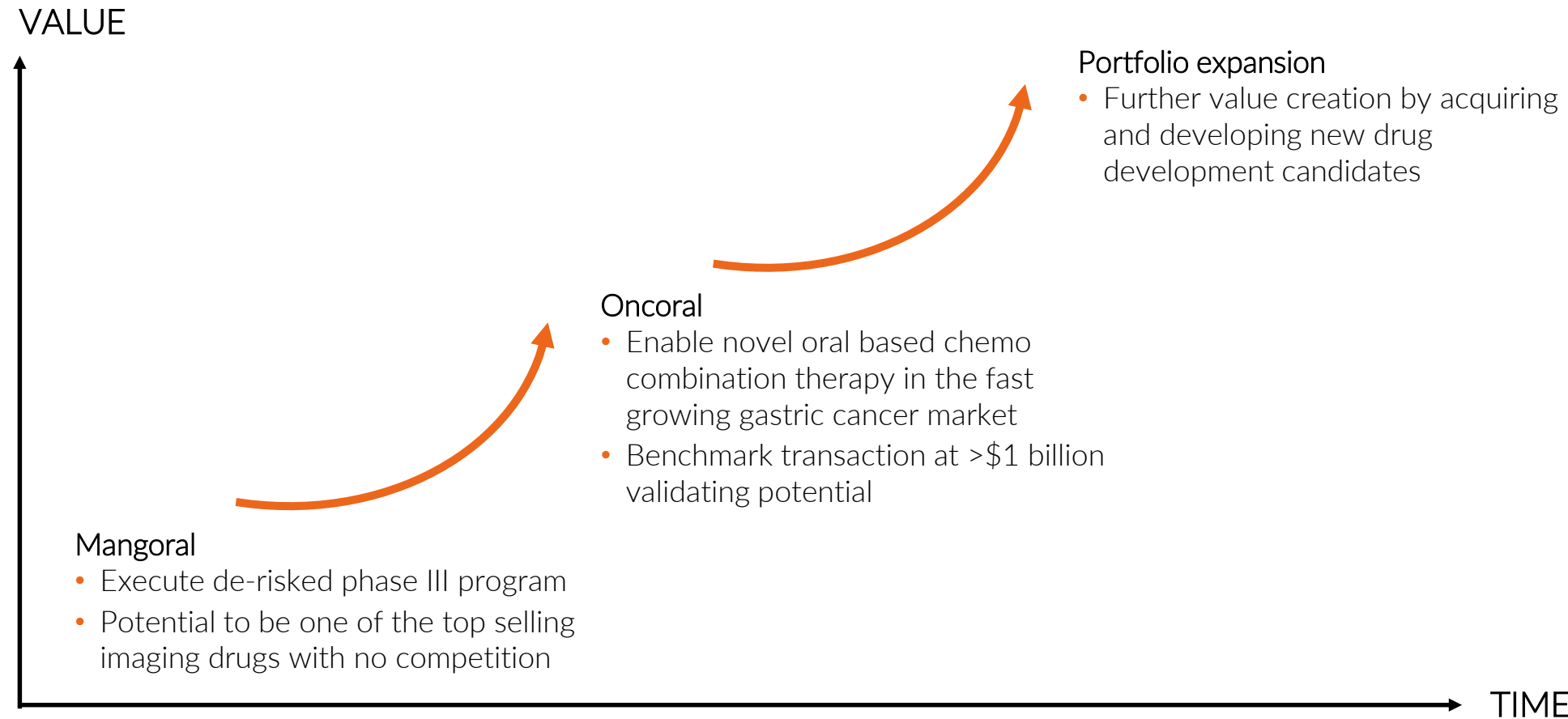
MILESTONES AND STRATEGIC OUTLOOK

SIGNIFICANT VALUE DRIVERS AHEAD

 MANGORAL
 ONCORAL



ASCELIA PHARMA STRATEGIC OUTLOOK



ASCELIA PHARMA

ascelia.com