



# INORBITTX

INVESTOR PRESENTATION

November 2020

# Inorbit Therapeutics AB Investment Opportunity

## COMPANY

INØRBITTX

- Privately owned, virtual drug discovery and development company
- Seasoned founders and management
- Located in AstraZeneca's BioVentureHub in Gothenburg, Sweden.

## PIPELINE



- Focused on the treatment of Non-Alcoholic Steatohepatitis (NASH) and its precursor Non-Alcoholic Fatty Liver Disease (NAFLD)
- Lead project second generation FXR agonist IOT022 clearly differentiates from competitors
- Best-in-Class opportunity

## OBJECTIVE



- InorbitTX is looking for new investors alongside current investors to fund
- SEK 16 M in Q4 2020 to complete IND for IOT022, followed by
- SEK 65 – 95 M in Q4 2021 to complete Phase I for IOT022

# Leadership has a long and successful track record in drug discovery, development and business development

## LEADERSHIP TEAM

CEO

**Dr. Bert Benthem**



- held senior positions in Drug Discovery and Development area with Piramal Healthcare, AstraZeneca, 7TM Pharma, and NovoNordisk and brought several discovery programs to the clinic.
- MSc in Biology and a PhD in Medicine, with specialty in Medical Physiology, from the University of Groningen, The Netherlands.
- research focus on metabolic diseases, including NAFLD / NASH, and has published about 40 scientific papers in peer reviewed journals.

CSO

**Dr. Robert Judkins**



- has been team leader in the Medicinal Chemistry department with AstraZeneca,
- has 20 years of experience in small molecule drug discovery with AZ, Millennium Pharmaceutical, Cambridge Discovery Chemistry and Roche, and
- has a proven drug discovery track record in medicinal chemistry and patent strategy.

## THE BOARD



**Dr. Wim Mol**

- CEO at Immunovo BV, Den Bosch, The Netherlands



**Dr. Johannes Bruski**

- Partner in Astadis Capital, Frankfurt, Germany



**Louise Warme, MD.**

- Investment manager with ALMI Invest, Gothenburg, Sweden

# Leadership is supported by a strong scientific advisory board

## SCIENTIFIC ADVISORY BOARD

### Dr. Christina (Kicki) Johansson



- Holds over 25 years experience in the pharmaceutical industry.
- Has been directly responsible for strategy and development of nearly 50 drug development projects up to Phase II in different disease areas.
- M.Sc. Degree in Pharmacy from Uppsala University and a PhD degree in tumor immunology from the University of Gothenburg.

### Prof. Dr. Hans Ulrich Marschall



- Professor of Clinical Hepatology at Gothenburg University.
- A leading expert in bile acid metabolism.
- Research involves animal and human studies with focus on the interaction between bile acids and the gut microbiota.
- Actively involved in a large number of clinical trials focusing on the development of new treatment options for NAFLD / NASH and cholestatic liver.

### Dr. Göran Gannedahl



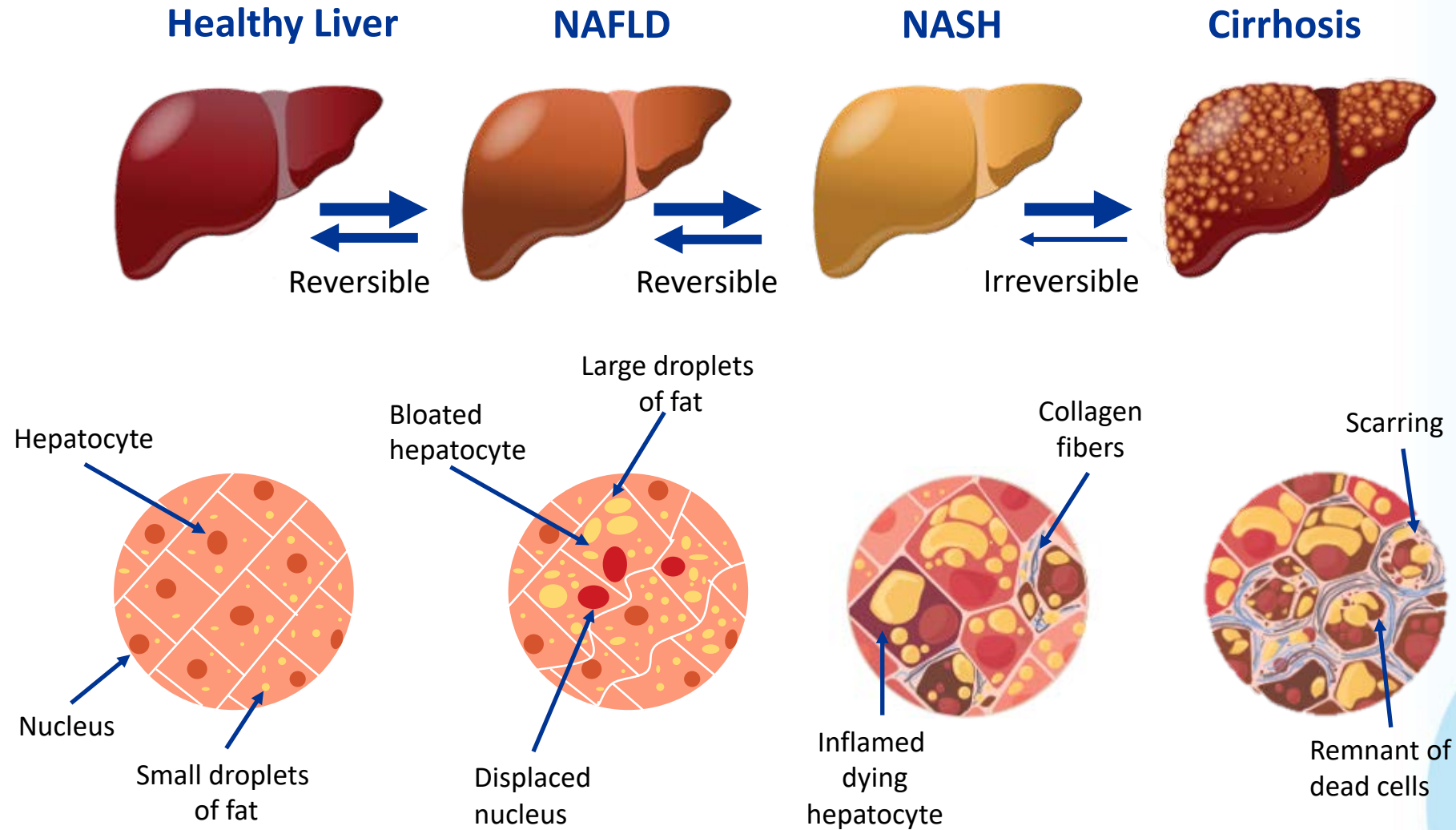
- Long experience from the medical and pharmaceutical industry within medical affairs, clinical research and business development.
- Md from Karolinska Institute and a Ph.D. in Medicine from Uppsala University
- Held positions as Global Head of Science Operations at Novartis, VP of R&D in Medical Affairs at Pronova Biopharma, and Executive Global Medical Affairs Leader at AstraZeneca.

# InorbitTX discovers drugs to treat fatty liver diseases

NON-ALCOHOLIC STEATO HEPATITIS (NASH), THE SILENT KILLER FOR WHICH THERE IS YET NO APPROVED DRUG



# NAFLD / NASH: Progression of the disease



# NASH the fastest growing chronic liver disease, also in China



27  
million

17  
million\*

32  
million

7  
million#

ESTIMATED NUMBERS OF PREVALENT CASES OF NASH

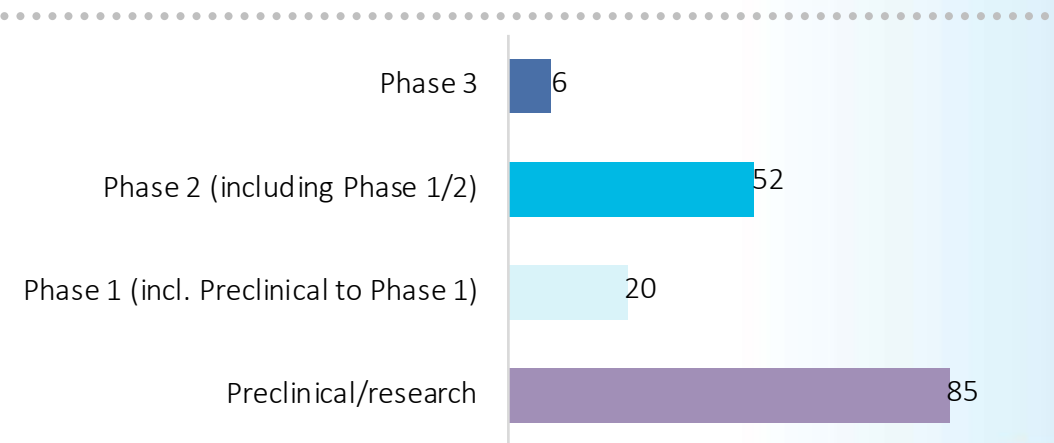
# NASH is projected to reach a total economic value of \$21.5 billion by the year 2027 in US, EU5 and Japan

## MARKET

- Analysts expect the NASH market to rapidly grow to **\$21.5B by 2027** with a **CAGR of 57.4%**.
- The rapid growth of the NASH market is attenuated to potential drug approvals and blood tests (e.g. Genfit's) that will allow better diagnosis.
- There are **6 late stage candidates** competing to be the first approved NASH treatment in the market.

- Peak sales of Intercept's Ocaliva, a comparable FXR agonist, are projected at \$1B by 2025.

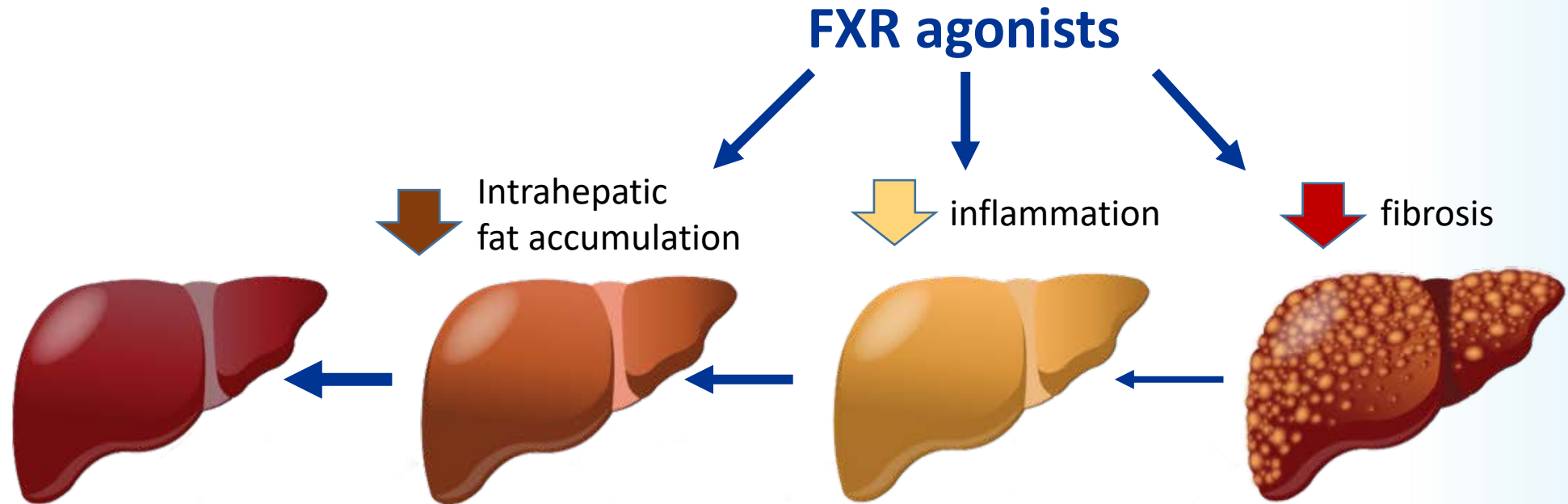
## NASH PIPELINE AND LATE STAGE CANDIDATES





# FXR agonists: a holistic approach to NAFLD / NASH.

THE TREATMENT APPROACH IS WELL VALIDATED IN PATIENTS



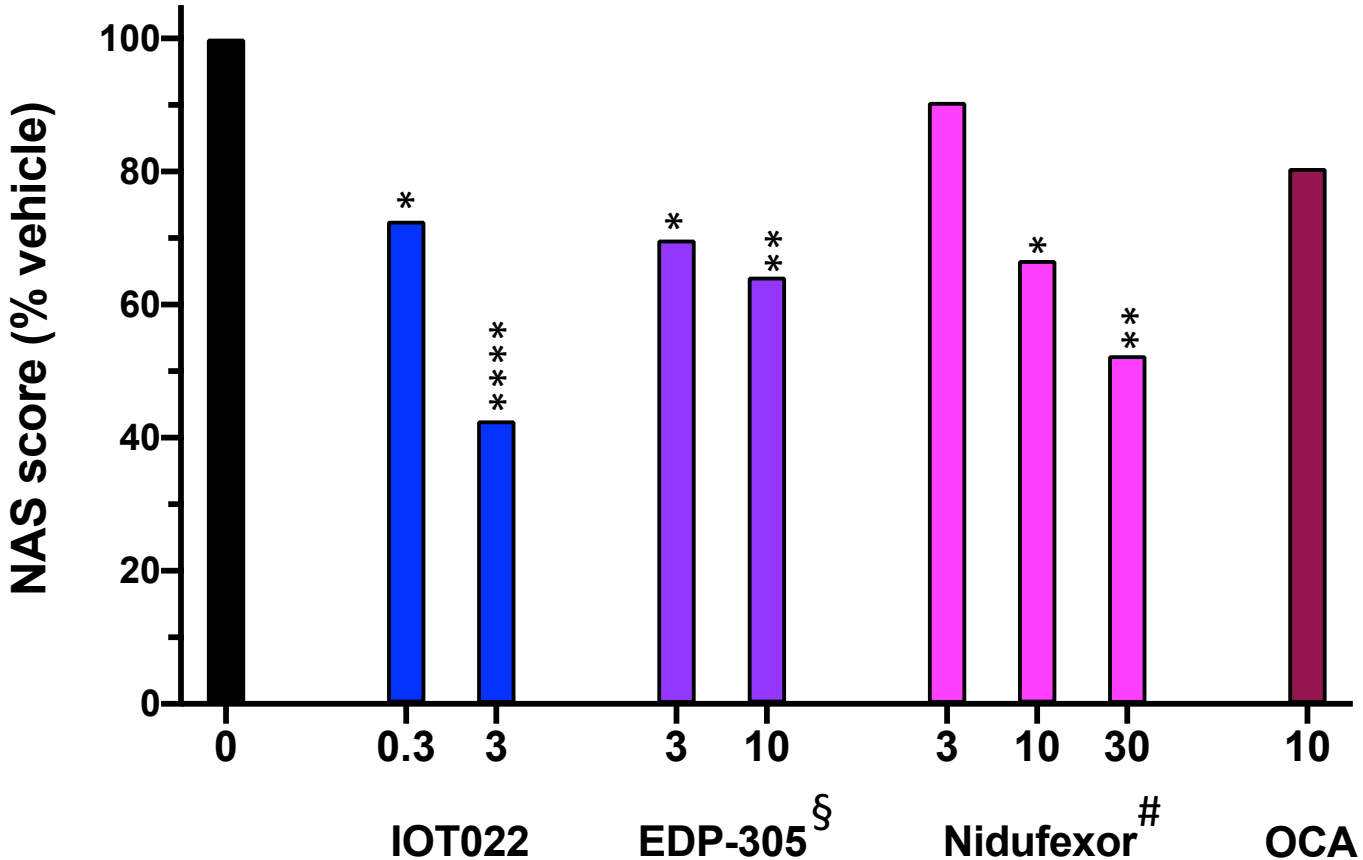
Competition with FXR projects:



However: Competitors currently in development are associated with pruritus.

# Efficacy: IOT022 beats competitors in the STAM<sup>®</sup> model.

IOT022 SHOWS BETTER AFFICACY AT LOWER DOSES



ENANTA Pharmaceuticals    NOVARTIS    Intercept

\* P < 0.05  
\*\* p < 0.01  
\*\*\* p < 0.001  
\*\*\*\* p < 0.0001

# IOT022 is a next generation FXR agonist that has lower development risks.

## IOT022 SHOWS VERY PROMISING SAFETY AND EFFICACY DATA IN PRE-CLINICAL TESTS

- **IOT022 has shown excellent pre-clinical efficacy**  
Robust improvement in metabolic and histo-pathological read-out in disease models.
- **2-week non-GLP toxicology studies in mice and dogs indicate a very good safety margin.**

## IOT022 SHOWS KEY DIFFERENTIATORS THAT MAY OUTCLASS THE COMPETITION

- **IOT022 mitigates pruritus risk**  
Displays very low systemic exposure despite good liver exposure
- **IOT022 mitigates the risk of drug induced liver injury (DILI)**  
Has a chemical structure that does not allow acyl-glucuronidation

FIRST TIME IN MAN PLANNED FOR Q4'21



# IOT022's differentiating profile gives it a blockbuster potential

IOT022

- a selective FXR agonist, central in the regulation of hepatic metabolism.
- key differentiators give it a best-in-class opportunity:
  - Exposure profile mitigates the risk for pruritis.
  - Unique chemical design reduces the risk of Drug Induced Liver Injury and for failure in late clinical stages

## CONSERVATIVE NASH MARKET OPPORTUNITY IN 2027

	US	EU5	Japan
Diagnosed prevalent Cases	12 500 000	7 600 000	2 000 000
Treated with therapeutics	6 900 000	3 800 000	1 100 000
Fibrosis Stage 2 & 3	3 000 000	1 800 000	500 000
Market Penetration*	4-11%	4-11%	4-11%
Peak Patient Population	120 000 – 330 000	72 000 – 197 000	21 000 – 57 000
Assumed cost/year**	\$2 500	\$2 500	\$2 500
Market Potential	\$300 000 000 – \$825 000 000	\$180 000 000 – \$492 500 000	\$52 500 000 – \$142 500 000

**Total Potential**

**Up to \$1 460 000 000**

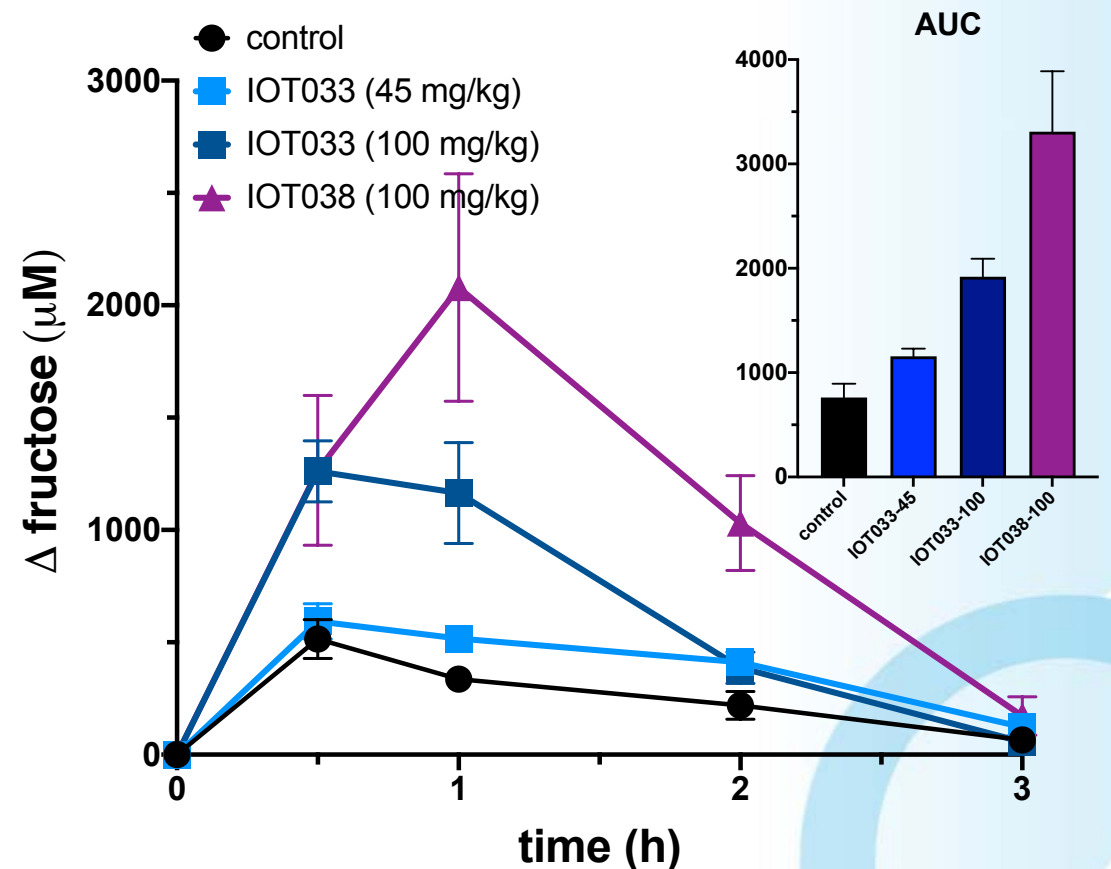
# InorbitTX KHK inhibitors show excellent efficacy in an *in vivo* PK/PD model

## PRECLINICAL DATA

- Rats treated with InorbitTX's KHK inhibitors, prior to an oral fructose challenge, show significantly delayed fructose disposal.
- Effect comparable to competitor compound at about equal dose.
- More fructose is excreted with urine, confirming reduced hepatic uptake.
- Compound series shows excellent potential for further optimization.

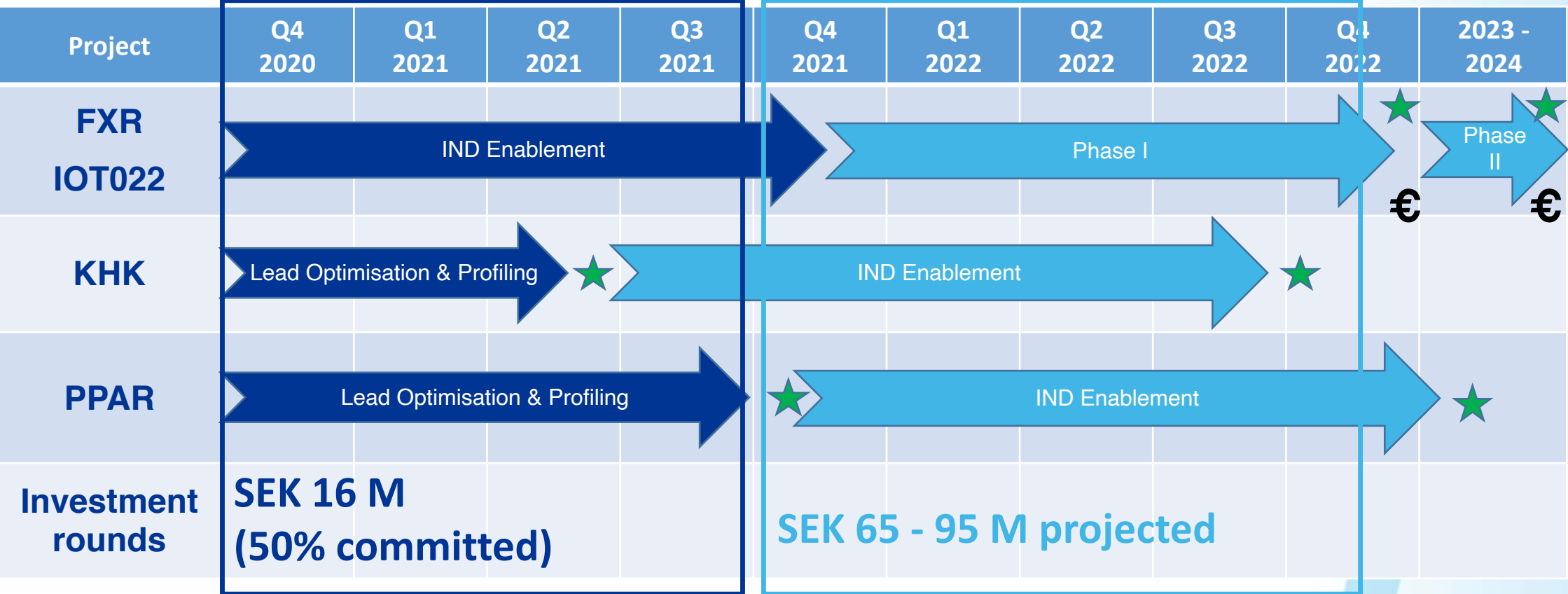


## ORAL FRUCTOSE TOLERANCE TEST



# A rich pipeline enabling exit in 2 – 4 years

A RICH PIPELINE OFFERING POSSIBILITIES FOR COMBINATION TREATMENT FOR NASH



# Investment deliverables and value infliction points.

SEK 16 M ROUND, Q4-2020; PRE-MONEY VALUATION SEK 63.6 M , SEK 641.7 / SHARE

- **IOT022 completion IND package**
  - 28-day GLP-toxicity mouse
  - 28-day GLP-toxicity dog
  - Safety pharmacology evaluation package
  - Large scale process chemistry in place
- Maturation of other project(s)

SEK 65 - 95 M ROUND, Q4-2021

- **IOT022 Phase I**
  - Single Ascending Dose healthy volunteers
  - Multiple Ascending Dose healthy volunteers
  - **28 day Proof of Principle in patients**
- 28 week GLP toxicity mouse and dog for Phase II
- **2<sup>nd</sup> project**
  - **complete IND package, ready for out-licensing**

AFTER PHASE I+ POP WILL IOT022 BE READY FOR OUT-LICENSING, ALTERNATIVELY THE COMPANY FOR EXIT

# InorbitTX – Key Message

## A SOLID INVESTMENT OPPORTUNITY

- Targeting one of the largest unmet medical needs, multi billion \$ market
- FXR well-validated target in human
- IOT022 , a new generation FXR agonist, shows key differentiators from competitors
- Unique chemical platform gives opportunity to start new projects in new disease areas
- Strong leadership team with extensive experience and a strong track record in Drug Discovery and Development



# InorbitTX offers a solid investment opportunity

For more information, please contact us at:

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