

MaaT

MaaT Pharma

Enhancing Survival through Microbiome Innovation

June 2024

CORPORATE
PRESENTATION



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Late-Stage Clinical Biotech, Leading the Way in Microbiome Therapies in Oncology



MaaT013 in Phase 3 in aGvHD

- Lead asset MaaT013 in **Phase 3 in aGvHD in Europe, expecting primary endpoint readout in mid Q4**
- **Strong data from Early Access Program** published in April (1y OS 49% vs 15% historical data)
- **US IND Open** – Readiness Phase before launch ongoing



Deep oncology pipeline

- **Donor-derived** and **co-culture** platforms **driving candidate development** with **2 clinical** and 1 preclinical assets
- **Our gutPrint® AI**, linked to our **co-culture platform**, is poised to deliver, potentially, **clinical-ready candidates by 2025**
- **Largest European cGMP** production facilities for Microbiome Ecosystem Therapies



Finance



- **Revenues of MaaT013 in aGvHD of 2.2m€ for 2023** from Early Access Program
- **Cash position of 18.2m€** as of March 31, 2024. **Post follow-on in May 2024, (approx. €17.3m€) cash runway** extends into **early Q1/2025**
- **Exploring options to extend cash runway**, including non-dilutive and dilutive sources

Host – Microbiota Interactions are Critical for a Functional Immune System

A rich and diversified gut ecosystem actively modulates the immune system functionality



01

A diversified microbiome contributes to the education and modulation of our immune system throughout life

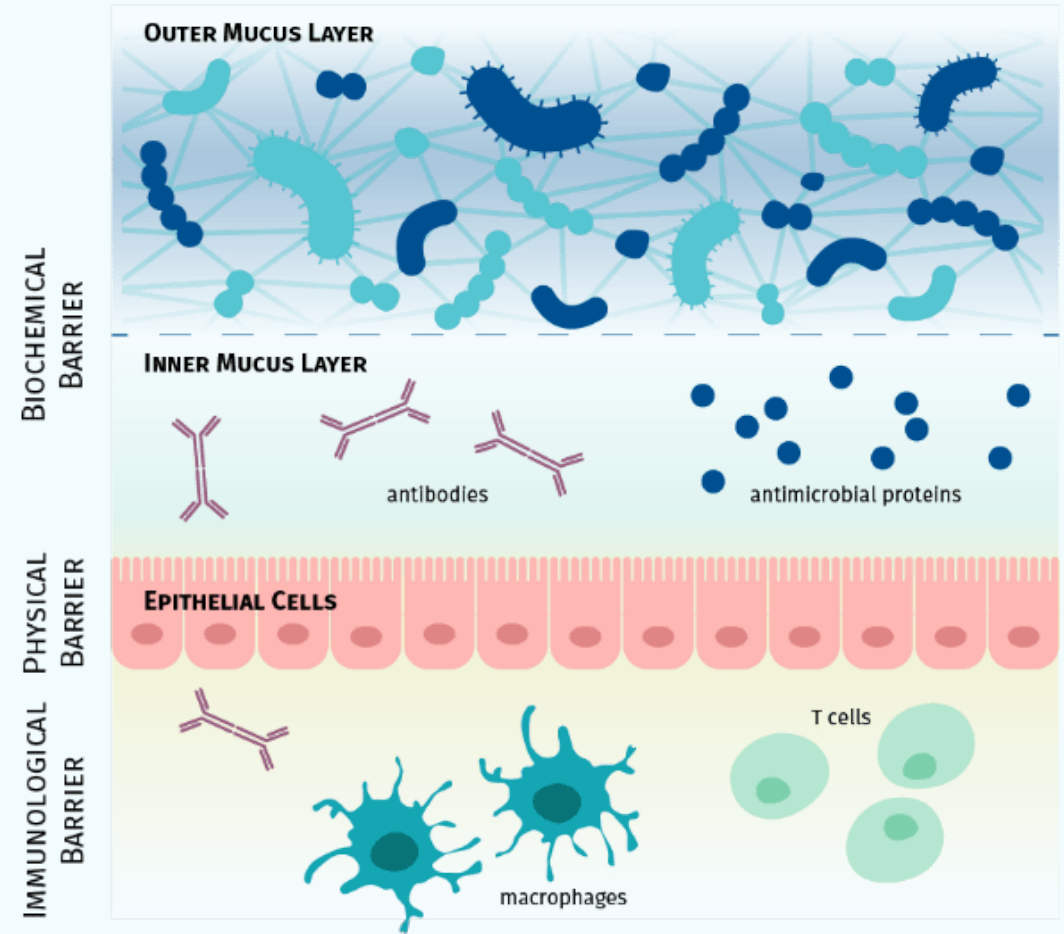


02

Bacterial richness and mucus layer prevent colonization by pathogens and improve gut barrier

80%

Cellular host defense localized in the gut

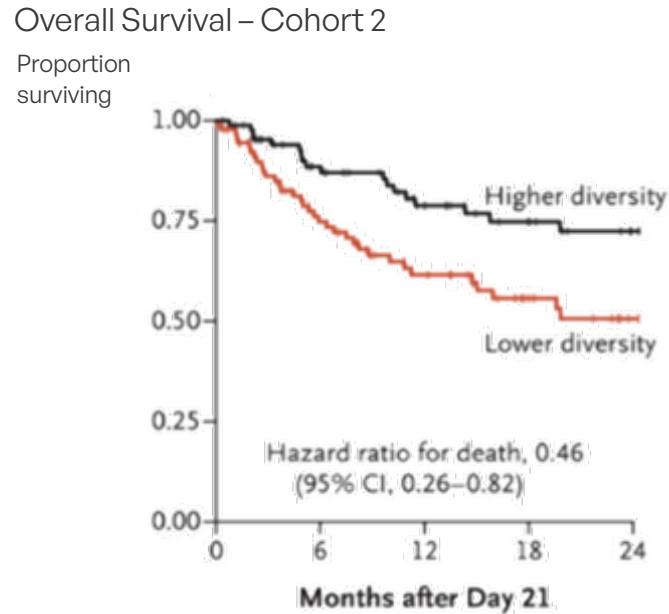


Cross-section of a healthy gut

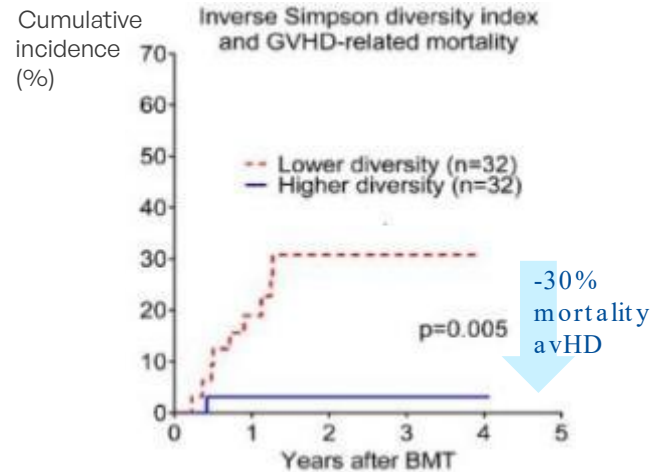
In Oncology, a Higher Gut Microbiome Diversity is Associated with Increased Survival¹

Liquid Tumors

Higher survival rate in patients receiving allo-HSCT*¹



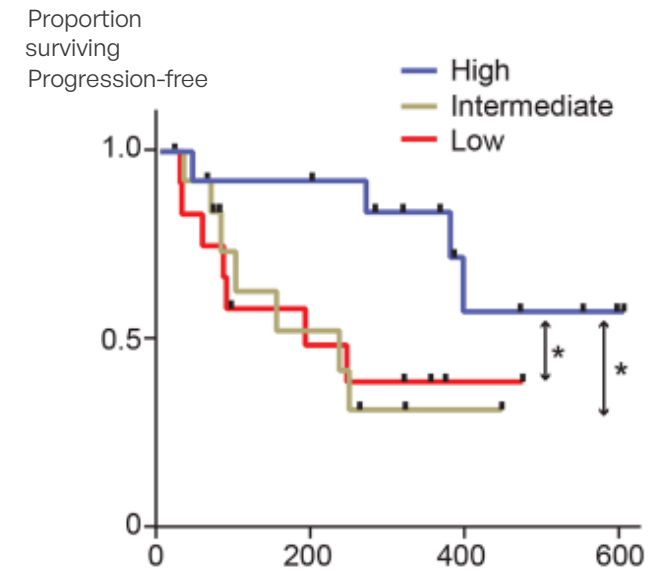
Lower incidence and lower mortality from aGvHD*²



MaaT Pharma MET
Inverse Simpson (mean): **24**

Solid Tumors

Higher response rate to ICI* in patients with metastatic melanoma³



* allo-HSCT: allogeneic hematopoietic stem cell transplantation; aGvHD: acute Graft-vs-host-Disease; ICI: Immune Checkpoint Inhibitors

¹ Peled, J.U. & al N Engl J Med 2020;382:822-34; ² Ghani, 2021; Jenq RR. et al, Biol Blood Marrow Transplant 21 (2015) 1373e1383; Pamer, Blood, 2014; ³ Gopalakrishnan et al., Science, 2017, see also Routy et al, Science, 2018; Vetizou et al Science 2015;

An Oncology Microbiome Platform Fueling a Deep Pipeline of Drug Candidates



Driving near-term value with the donor-derived MET-N platform



MaaT013



MaaT033



POOLING



MaaT013



MaaT033

Pooled microbiota

→ Maximized richness

→ Standardized (450 OTU ± 3%)

Progressing next-generation co-cultured scalable MET-C platform



MaaT034



MaaT03X

Original microbial ecosystem



Master bank



Working Bank



Unlimited Co-Culture Scaling

↑
Multistep co-culture cGMP proprietary process
↓

MET-C product

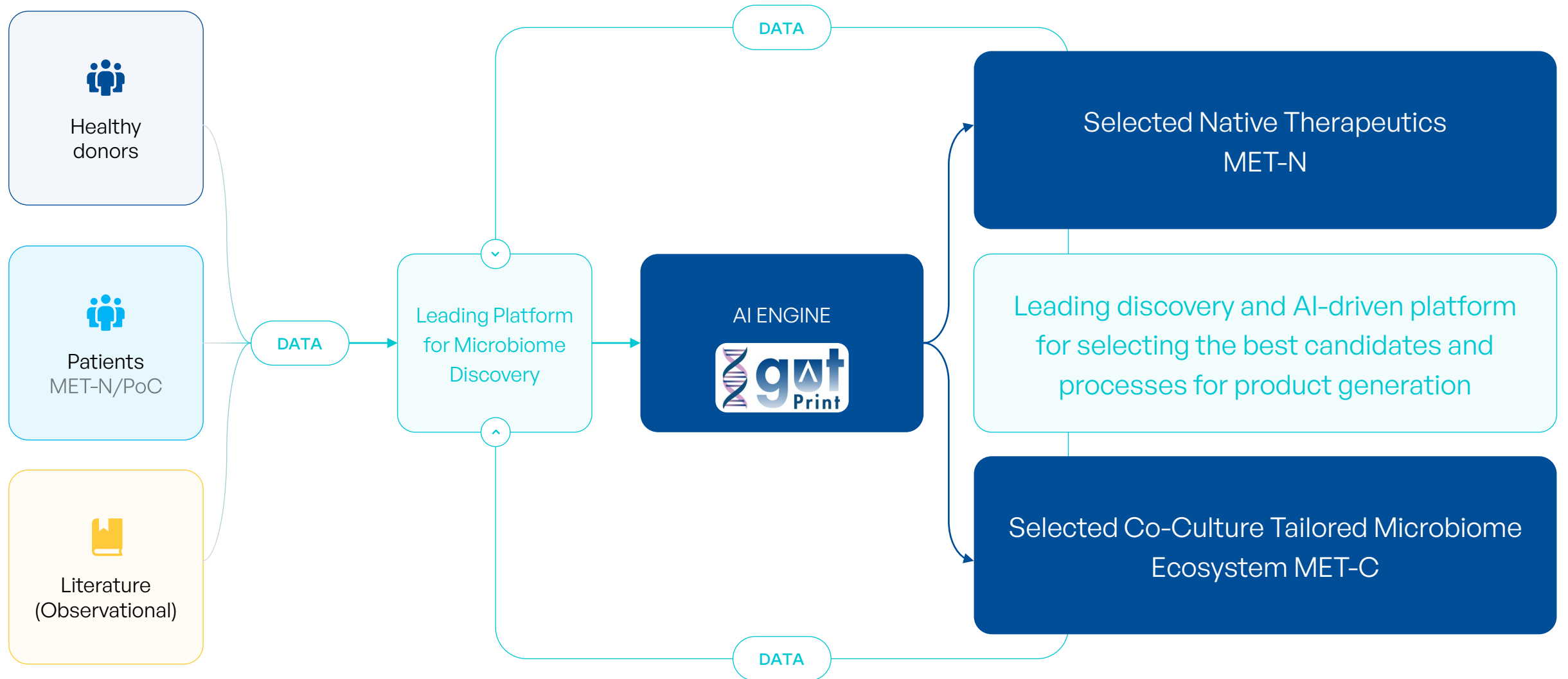
Leading capabilities in microbiome drug production



~10 000 treatable patients per year



AI-driven Research Engine Powered by Metagenomics Enabling Candidate Selection



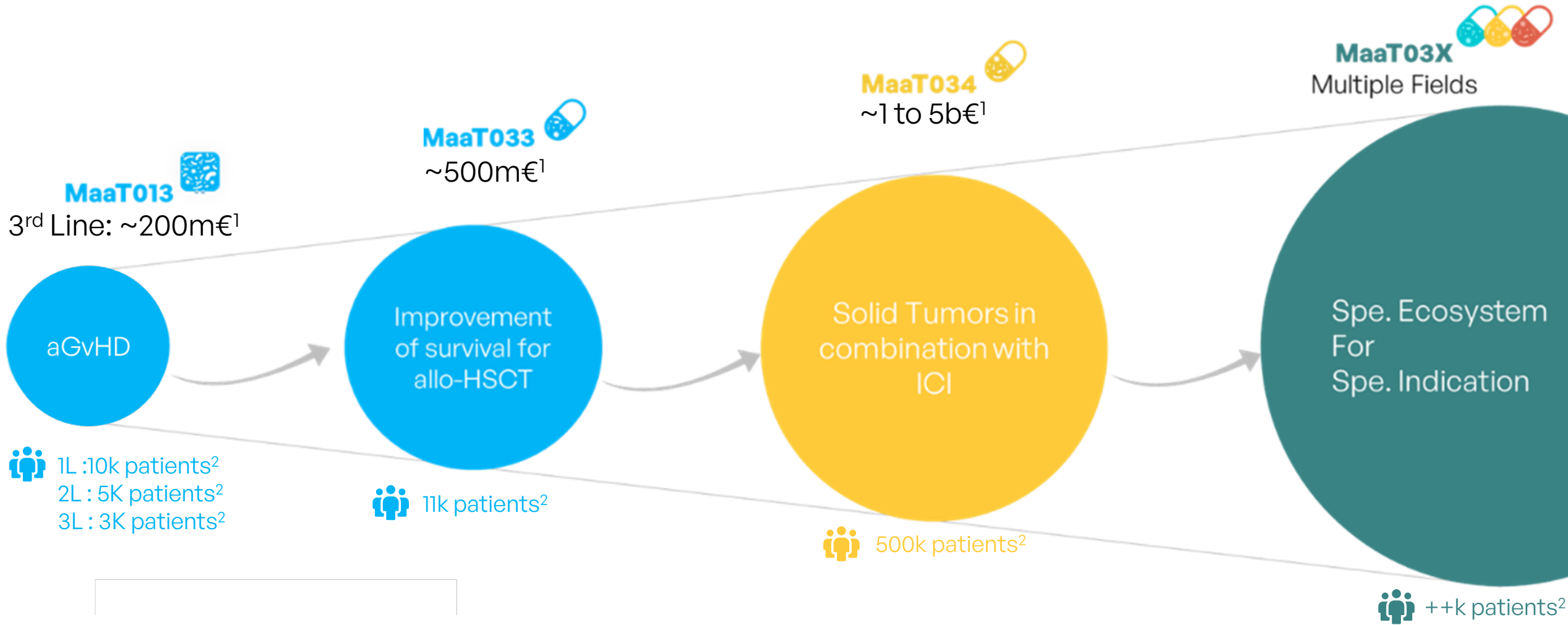
A Strong Pipeline With Multiple Near-Term Value Inflection Milestones

Platform → Program → Indication → Preclinical → Phase I → Phase II → Phase III → Upcoming milestone

Platform	Program	Indication	Preclinical	Phase I	Phase II	Phase III	Upcoming milestone
MET-N	MaaT013	aGvHD ^{ODD EMA/FDA}	ARES →				GI-ORR mid Q4 2024 EBMT Data April 2024 ✓
		IO PoC Melanoma	PICASSO (IST) →			Results H2.24/ Q1.25	
	MaaT033	HSCT ^{ODD EMA}	PHOEBUS →				Safety Interim H2.24
		ALS	IASO →			Results H2.24	
MET-C	MaaT034	IO	PrClin →			Targeting FIH 2025	
	MaaT03X	Multiple	R&D →			Candidates selection	

aGvHD: acute Graft versus Host Disease ; IO: Immuno-Oncology ; PoC: Proof of Concept ; HSCT: Hematopoietic Stem Cell Transplantation ; ALS: Amyotrophic Lateral Sclerosis ; IST: Investigator Sponsored Trial

Targeting Multiple Attractive Markets with Unmet Medical Need



¹PYS EU5, US; ²Per year

Driving Near-Term Value with the Donor- Derived **MET-N** Platform

MET-N

Microbiome Restoration with MaaT013: A Maximum-Density Product for Fast Engraftment in Acute Situations



- **Curative approach**
- MaaT013 has received **Orphan Drug Designation** from **FDA and EMA**
- **GI-ORR in mid Q4 2024**



01

Characteristics

Pooled microbiota: high-richness, high-diversity, full ecosystem
Microbiome Therapy containing Butycore®
Non immunosuppressive treatment



02

Current indication

Gastrointestinal acute Graft-versus-Host Disease (GI-aGvHD)
~ 3k patients per year



03

Efficacy evaluation in EAP

28-Days GI-ORR: 52%

12-months OS: 47%

18-months OS: 42%

Data in all patients (n=140)



04

Available Clinical Data

HERACLES Phase 2 Clinical Trial, N=24, 2L

Early Access Program (EAP), data from N=140, 3L-6L, program still ongoing

Ongoing ARES – Positive **DSMB** review (n= 30)

> **200** patients treated to date

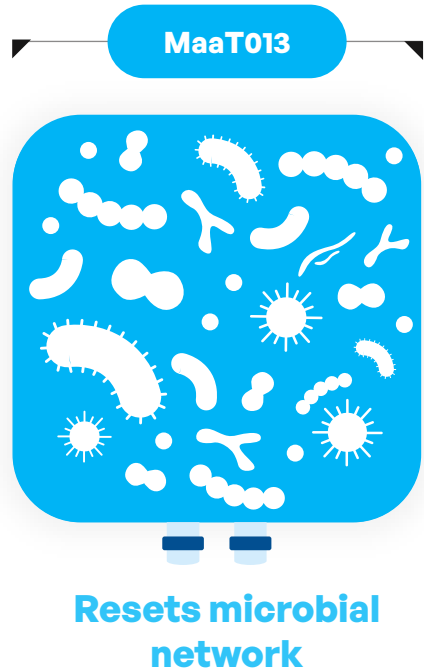


05

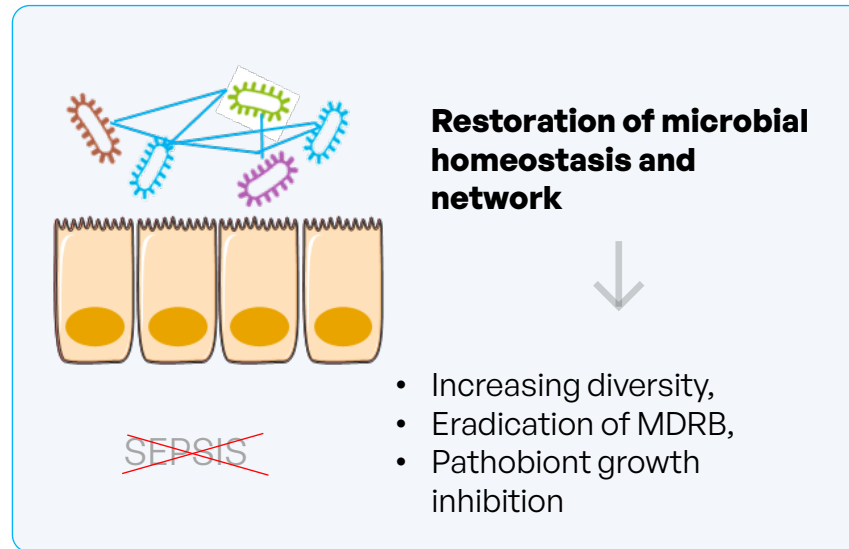
Administration

3 doses (enema bag) – within 10 days

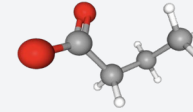
MaaT013, a Novel Agent to Treat aGvHD Acting by Restoring Immune Homeostasis and Gut Barrier Integrity



1 Restoration of barrier integrity



2 Production of immunoregulatory metabolites



- SCFA (Butyrate, Propionate)
- Immunoregulation (IL-10...)

3 Modulation of immune homeostasis

Regulatory T cells



- Immune homeostasis restoration
- Remission of symptoms

Based on preclinical and ongoing clinical studies: MaaT013 could restore microbiome diversity, regenerates gut barrier's protective effect, and significantly curbs inflammation.

Unmet Medical Need: Acute Graft-versus-Host Disease (aGvHD) Resistant to Steroids and Ruxolitinib (3rd line of treatment)

Acute Graft-versus-Host Disease

- > aGvHD is a condition where transplanted cells attack the recipient's body
- > Is life-threatening when not controlled by a treatment, and induces long-term complications for those who do survive



Affects 50% of stem cell transplanted patients, 10,000 people a year EU/US

Treatment Paradigm

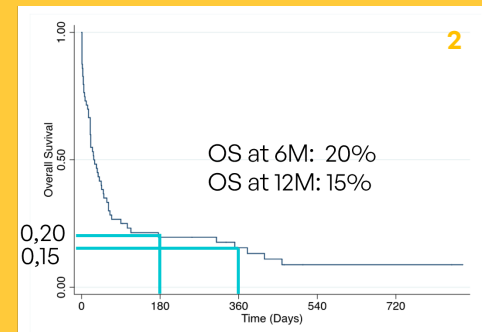
- > Corticosteroids are the 1st line of treatment, but 50% of patients do not achieve a sustained response
- > Ruxolitinib is approved as a 2nd line of treatment for SR-aGvHD (FDA, 2019 & EMA, 2022)



30% of aGvHD patients eligible for alternative treatment, primarily due to corticosteroids and ruxolitinib¹ resistance or non-eligibility
Around 3,000 per year EU/US

c. 30% of patients have no effective treatment option

- > There is **no** approved drug in 3L: lack of effective therapy
- > Off label options have shown limited benefit, showing the critical need for a new treatment



Outcome for this group of patients is dismal with a median survival of 28 days and a 15% OS at 1 year²

> Intestinal dysbiosis is associated with higher mortality in hemato-oncology³

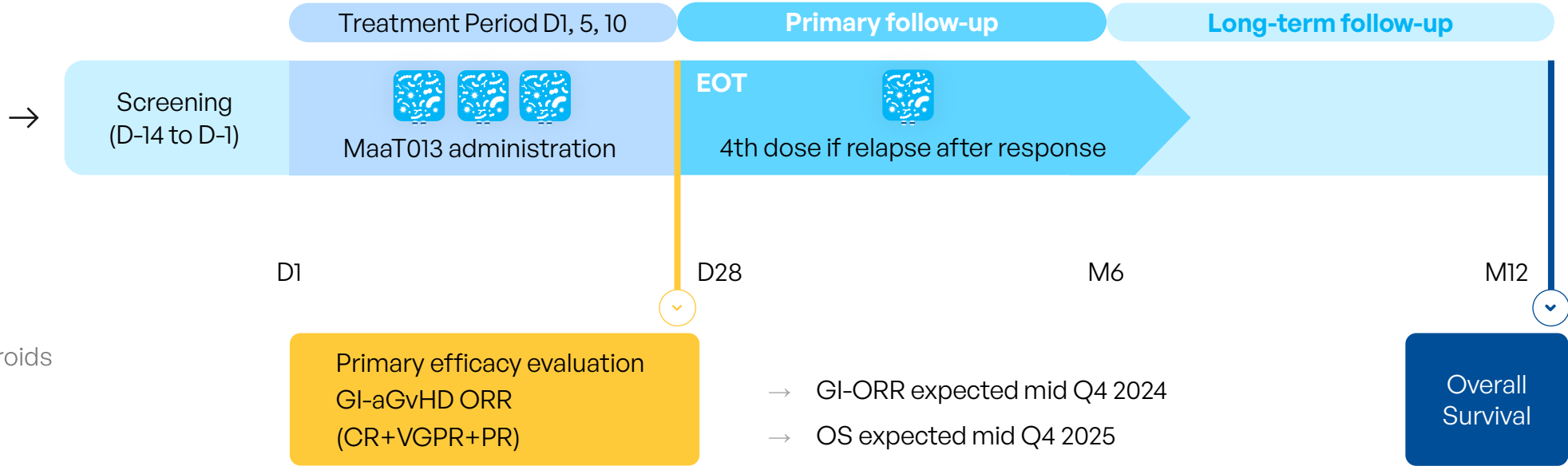
ARES, a Pivotal Phase 3 Trial to Treat aGvHD in 3rd Line Showing *“high efficacy and low toxicity”* as Concluded by the DSMB



Patients with SR-GI-aGvHD

Inclusion criteria

- Refractory or intolerant to 2L ruxolitinib
- Refractory to 1L corticosteroids
- aGvHD with GI symptoms
- Allo-HSCT
- Age > 18



D: Day, M: Month, EOT: End of treatment ; SR-GI-aGvHD: Steroid-refractory gastro-intestinal acute Graft-versus-Host Disease ; GI-ORR: Gastrointestinal Overall Response Rate; CR: Complete Response; VGPR: Very Good Partial Response; PR: Partial Response
 * DSMB review on 30 patients on October 2023

DSMB* main conclusions:

- Good safety profile
- ORR higher than pre-defined protocol



Commercial launch date anticipated in 2026



**Market potential: ~ 200 m€
No Competitor in 3L**

The EAP Data Confirms Significant Improvement of Survival with High Level of Response



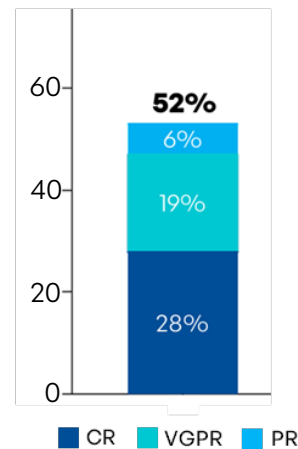
Data presented at EBMT 2024

Global EAP populations

→ N=140, GI-aGVHD : 49% grade III, 40% grade IV, up to 6 lines of prior treatments (median 3) 121/140 received ruxolitinib

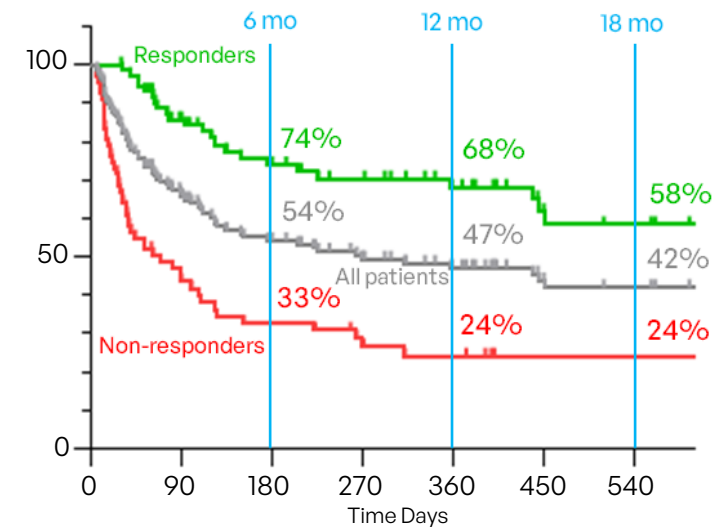
GI-ORR

Patients (%)



Overall Survival Rate

Survival (%)



- > High predominance of VGPR and CR responses in the EAP, suggesting a significant reduction in the disease burden
- > **Clinical response to MaaT013 translates to increased overall survival**

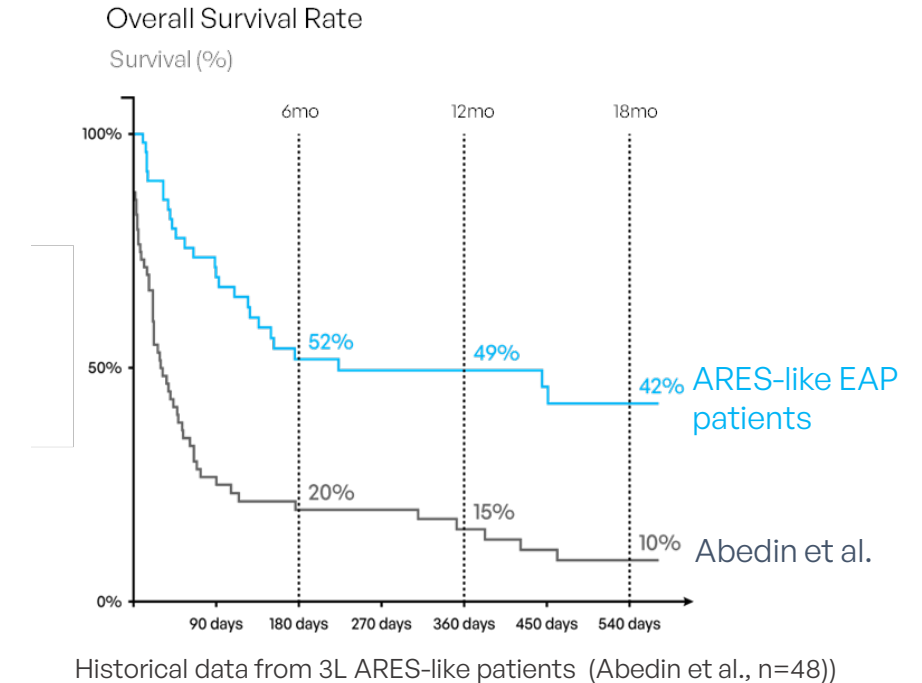
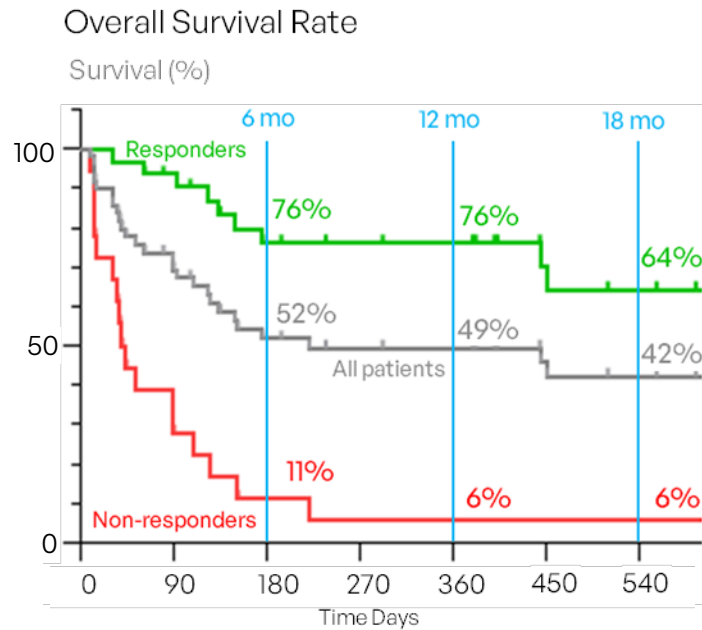
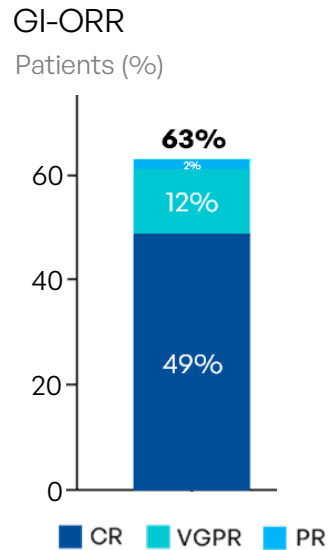
The EAP Data Confirms Significant Improvement of Survival with High Level of Response



Data presented at EBMT 2024

EAP: ARES like populations

→ N=49, GI-aGVHD : 3L



- No effective treatment in 3L with very low expected OS 2mo: 22% ; 6mo: 20% ; 12mo: 15%¹ confirming strong unmet medical need
- High predominance of VGPR and CR responses in the EAP, suggesting a significant reduction in the disease burden
- Good safety and high efficacy translating in a significant increase in overall survival compared to REACH1 and Abedin et al. data - 2021¹

¹Expected OS of Steroid and Ruxolitinib resistant aGvHD patient at : 2 mo: 22% (REACH1 trial), 6mo: 20% and 12mo: 15% (Abedin et al.)
Abbreviations: CR, complete response; VGPR, very good partial response; PR, partial response



Proof-of-Concept with MaaT013 in Combination with ICI In Metastatic Melanoma

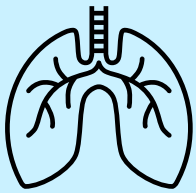


Serves as PoC for MaaT034 in
combination with ICI

MET-N

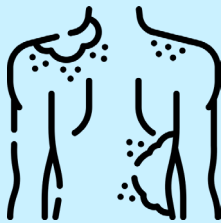
Checkpoint Inhibitors have revolutionized treatment of Solid Tumors but a large proportion of patients can't benefit from it due to primary resistance

Primary Resistance Rate to Immune Checkpoint Inhibitors



Lung Cancer (NSCLC)

35 - 40 %



Skin Cancer (Melanoma)

Up to 65 %



Around 19 million people diagnosed with cancer each year globally



Immune Checkpoint Inhibitors (ICI) significantly improved outcomes of patients with solid tumors and strategies to enhance responses remains **a strong unmet medical need**.



Combination strategies tested so far to improve responses to ICI remains mostly unsuccessful and/or associated with a **higher toxicity**.

→ **Urgent need to bring new combination therapies with ICI to safely increase the response rates and overall survival**

Growing clinical evidence that a Full-Ecosystem Gut Microbiome influences efficacy of ICI

2021

FMT from ICI-responders could overcome resistance to ICI in non-responders with metastatic melanoma

✓ **6/15**

Non-responders
→ Responders
(Davar et al, 2021)

✓ **3/10**

Non-responders
→ Responders
(Baruch et al, 2021)

2023

FMT from healthy donors increases response of aPD1 in ICI-naive patients with metastatic melanoma

✓ **13/20**

ICI-naive → Responders
(ORR=65 %, Routy et al. 2023)

aPD1 historical response close to 33 %

2024

Microbiotherapy from healthy donors increases response of aPD1+aCTLA4 in ICI-naive patients with metastatic melanoma

✓ **15/20**

ICI-naïve → Responders
(ORR=75 %, Routy, . 2024)

○ **.../35**

First RCT
70 pts rand 1:1
(MaaT Pharma)

aPD1+aCTLA4 historical response close to 59 %

FMT = (Hospital) Fecal Microbiota Transplantation

→ Leveraging the complete gut microbiome properties may be a game-changer in immuno-oncology

MaaT013 Evaluated in Phase 2 Randomized Clinical Trial in Melanoma

Recruitment completed Ph. 2a PICASSO trial

Investigator led trial (Assistance Publique - Hôpitaux de Paris – sponsor) and in collaboration with Institut Gustave Roussy

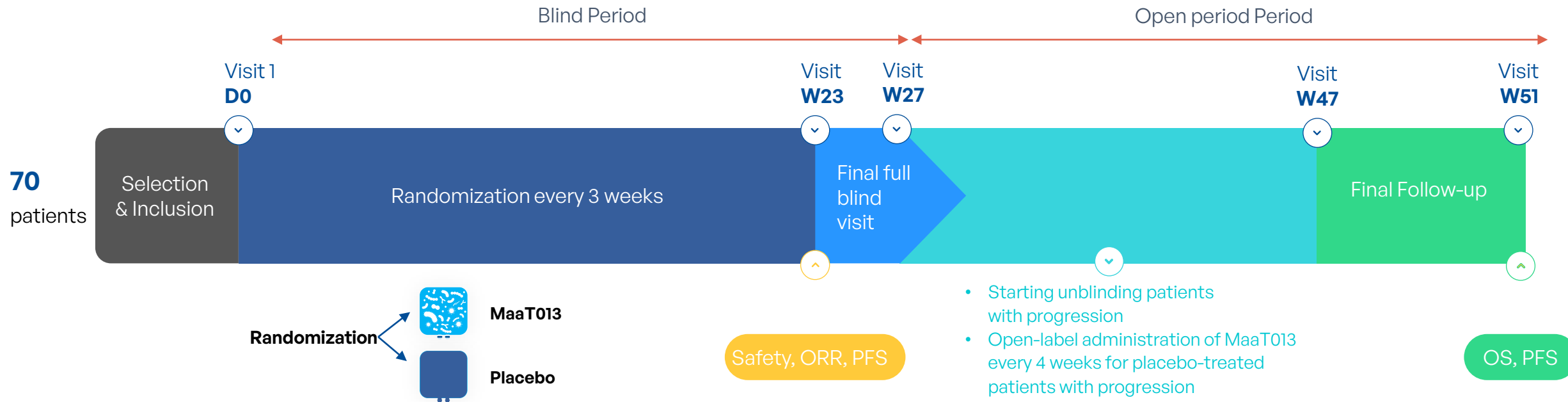
→ RCT [MaaT013 + ICI] vs. [Placebo + ICI] in 70 metastatic melanoma patients

→ **Data expected H2.24/Q1.25**

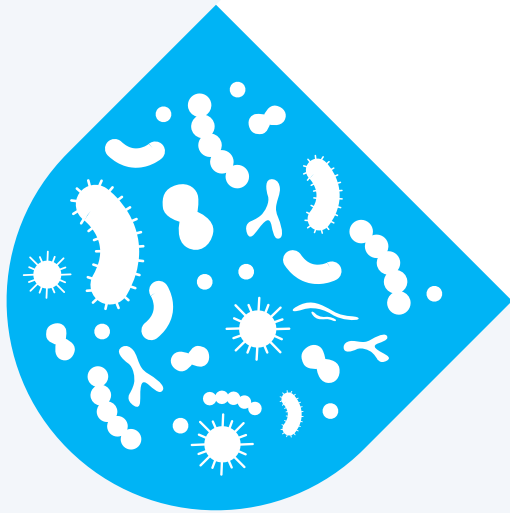
Key study endpoints after 23 weeks of treatment:

- MaaT013 safety profile vs placebo as add-on treatment to Ipilimumab + Nivolumab
- MaaT013 best-overall response rate vs placebo as add-on treatment to Ipilimumab + Nivolumab

PICASSO RCT design



Ensuring Optimal Microbiota Function: MaaT033 – The Oral Ecosystem Microbiome Capsule for Adjunctive and Maintenance Therapy



- **Adjunctive and Maintenance**
- **Targeted release oral Capsules**
- MaaT033 has **received Orphan Drug** from the **EMA**



01

Characteristics

Pooled microbiota : high-richness, high-diversity, full ecosystem,
Microbiome Ecosystem Therapy containing Butycore®
Non immunosuppressive treatment



04

Current indication

Improving survival of allo-HSCT patients (blood cancers i.e leukemia, ...) – ~ 11k patients per year
Slowing down disease progression in ALS



03

Clinical Program

Ongoing Phase 2b trial PHOEBUS in allo-HSCT patients
Phase 1b trial IASO ongoing in ALS



02

Administration

Oral (a lyophilized capsule)

MaaT033: a Potential Adjunctive Treatment for Patients Receiving allo-HSCT



- **387** patients in a **randomized, double-blind, placebo-controlled international** study
- **56 sites** targeted globally

- Primary endpoint: **efficacy** of MaaT033 in **improving overall survival at 12 months**
- Study started in **November 2023**, results are expected in **2026**

387 patients dosed pre- and post- allo-HSCT



¹ Expansion to US sites subject to discussion with the FDA

Ongoing Phase 2b PHOEBUS | **Safety Interim analysis on 60 patients in H2 2024** | **Based on expected duration of recruitment, OS primary endpoint expected in 2026** | **~ 11k patients per year**

MaaT033 Aims to Slow Down Amyotrophic Lateral Sclerosis Progression



Amyotrophic Lateral Sclerosis

- Could affect up to 60,000 patients in US & EU by 2040¹
- Paralysis and death 3 to 5 years after diagnostic²
- Currently no curative treatment and few symptomatic treatments

Rationale for Exploratory Utilization of MaaT033 in ALS

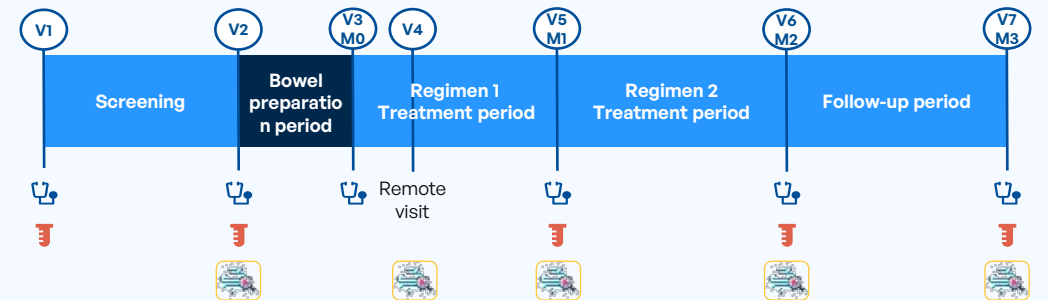
- Microbiota-Gut-Brain axis has the potential to become the new standard to treat neurodegenerative diseases, including ALS
- MaaT033 safety profile and oral administration is suitable for ALS
- Strong support from medical community & patients
- A cost-effective way of testing neurodegenerative field in an indication with high medical need

¹ Arthur, K., Calvo, A., Price, T. et al. Projected increase in amyotrophic lateral sclerosis from 2015 to 2040. Nat Commun 7, 12408 (2016). <https://doi.org/10.1038/ncomms12408>

² <https://tousensellescontrelasla.fr/la-sla-cest-quoi/>

Study

- Up to **15 patients** in a **pilot, open-label, Phase 1b** study **in France**
- **Key study endpoints:** assess safety and tolerability of MaaT033 and gut microbiota composition evolution
- Study started in **2023** → **Results** expected in **H2 2024**
- **Positive DSMB** in **Feb. 2024:**
Trial to proceed as planned without modifications
Good safety profile and generally well tolerated



Clinical examination

Home based



Blood sampling



Stool sampling

Study developed with:



In collaboration with:





Progressing the Next-
Generation, Co-Cultured,
Donor Independent
MET-C Platform

MET-C

MET-C Product Generation is Driven by MaaT Pharma's Proprietary Predictive AI, Eubiotic Score and *in vitro* and *in vivo* validation processes



HIT Products
Donor-independent ecosystem candidate

LEAD Products (MaaT03X)
→ Activity in *in vitro* models (local and distal models)

Candidate Products (MaaT034)
→ Activity in 2 different mouse models
→ Product characterization
→ Safety and Dose assessment

Upcoming Milestones for MaaT034
→ Clinical batches manufactured expected in H2.2024
→ FIH expected in 2025

Indication-specific drug candidates



End-to-End In-house cGMP Manufacturing

All MET

Europe's Largest Specialized cGMP Manufacturing Facility for Microbiome Ecosystem Therapies

A dedicated 1,600m² site (expandable) to support demands until 2034 for **MET-N clinical and future commercial production, R&D, and clinical batches of MET-C products (MaaT034 & MaaT3X family)** (est. first step):

~10 000 treatable patients per year

MaaT013

9,000
pouches / year

MaaT033

1,300,000
capsules / year

MaaT03X

Up to 300,000
capsules / year



01

Fully integrated Manufacturing and development platform for a streamlined product development, scaleup and GMP process.



02

Ongoing CSR global strategy: reforestation program in France (GoGreen) and “Cap Vert pour la forêt” program, etc.



03

Option to expand manufacturing facilities to double manufacturing capabilities.



Status

Production started in September 2023



Partnership
with



Key Takeaways

Multiple Near-Term Value Inflection Milestones

2024

MaaT013 (pooled enema)

GvHD | EAP long term follow-up EBMT24 ✓
 GvHD | ARES P3 GI-ORR mid Q4 24
 IO Mela. | PICASSO P2a Results H2.24/Q1.25

MaaT033 (pooled capsule)

HSCT | PHOEBUS P2b Safety Interim H2
 ALS | IASO P1b Results H2

MaaT034 (co-cultured capsule)

Candidate Selection
 1st Clinical Batch Manufactured

2025

MaaT013 (pooled enema)

GvHD | Final Results (OS)

MaaT033 (pooled capsule)

HSCT | PHOEBUS P2b Safety Interim 2

MaaT034 (co-cultured capsule)

Solid Tumors IO | Target FIH 25

MaaT03X (co-cult. ind.-spec. caps)

Undisclosed | Next Steps

Finance

- **Revenues of MaaT013 in aGvHD of 2.2m€** for 2023 from Early Access Program
- **Cash position of 18.2m€** as of March 31, 2024. **Post follow-on in May 2024, (approx. €17.3m€) cash runway** extends into **early Q1/2025**
- **Exploring options to extend cash runway**, including non-dilutive and dilutive sources

A Robust Value Creation Strategy Driven by Leading Expertise in Microbiome-based Therapeutics

MET-N

MET-C

Addressable Patients



Creation Value

Time:
Event:
1st Ind:
Market size:



MaaT013



Pooled enema

- Mid Q4 2024
- P3 GI-ORR
- aGvHD
- 200m€

MaaT033



Pooled capsule

- H2.2024
- P2b DSMB
- allo-HSCT
- 500m€

MaaT034



Co-cultured caps.
Synthetic eubiotic microbiota

- 2024
- Candidate selection & PICASSO PoC Results
- ICI combo in solid tumor
- 1 to 5b€

MaaT03X



Co-cultured capsule
Indication specific

- 2025+
- New program reveal
- Multiple Indications
- Multiple Markets



MaaT Pharma has the largest Microbiome Ecosystem Therapies™ production facility in Europe, which is the foundation of the Company's ability to scale and produce drug candidates in a cGMP environment

Corporate Social Responsibility



MaaT Pharma aims to become the source of Microbiome excellence providing patients with safe and innovative medicines. The Company develops products from sustainable biological matters, driving optimal impact of Microbiome.



Patients are our priority. We are committed to our patients and to the protection of human health by respecting environmental protection, respecting our employees and ensuring good governance practices. Our way of working every day is driven by the 4 guidelines below:

- Innovate and raise awareness to **deliver better care,**
- Contribute to employees-growth within a **people-oriented ecosystem,**
- Place **ethics and transparency** at the core of the Company’s strategy,
- Control and measure our **impact on the environment.**

2023 CSR indicators

Social

- 34 y-o** is the average age of permanent employees
- 36%** Percentage of PhD, PharmD, MD among employees involved in research
- 75%** Training Plan Completion Rate

Environment

- 2394 tCO2e** Carbon footprint
- 361 kWh /Employee** Energy consumption per employees on site

Societal

- 85%** of operating expenses related to R&D as a proportion of total operating expenses
- 259** public interventions to increase awareness on microbiome

Governance

- 38%** of women in the Board of directors
- 72%** of women in the Executive team

The background of the slide is filled with various stylized, colorful illustrations of microscopic organisms, including bacteria, viruses, and fungi, in shades of teal and blue. The Ma Pât logo is positioned at the top center.

Ma
Pât

Thank you

invest@maat-pharma.com

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