

OVERVIEW

Metha.ai enables the significant reduction of livestock methane emissions through cutting edge AI-driven microbiome analytics technology

We are a team of scientists and business professionals with decades of experience creating and deploying commercially scalable technologies. Through our proprietary AI driven microbiome analytics we provide a solution for the immediate reduction of livestock methane emissions.

Launched from MIT in 2022, Metha.ai is at the forefront of transforming agri-food practices. We partner with stakeholders in the dairy and beef eco-systems to significantly reduce methane emissions through a seamless process producing tailored herd level recommendations that has been proven not only to reduce methane emissions by 30-40% but also to increase milk production efficiency by over 10%.

THE CHALLENGE

Methane emissions from agriculture and livestock make up ~40% of global methane emissions with 80% of these coming from livestock. Whilst methane's effect on global warming is 84 times higher than CO₂, the reduction of methane emissions is also the fastest way to slow down global warming.

While feed additives offer potential for emissions reduction, due to a huge variation in local conditions, their generic deployment shows inconsistent results. Ensuring their effectiveness for specific herds has been a challenge, limiting their impact.

OUR TECHNOLOGY

Our revolutionary technology provides herd level tailored feed additive deployment recommendations. Using rumen microbiome samples and our proprietary AI-driven analytics engine, we analyze the herd's microbiome genetic information and provide actionable recommendations. This approach, grounded in mathematical biology and big data analytics, outperforms existing solutions, reducing methane emissions by 30-40%.

THE BENEFITS

We enable dairy and beef processors and food manufacturers to meet their Scope 3 goals by optimizing methane reductions through a macro manageable and scalable solution. Farmers receive the benefit of significantly increased yield and the opportunity to claim carbon credits whilst livestock supplement companies can better measure the impact of their products.

FOUNDING TEAM

Dr. Yaniv Altshuler, CEO, is an MIT Research Fellow, entrepreneur, and World Economic Forum "Technological Pioneer".

Prof. Alex "Sandy" Pentland is a world leader in Data Analytics, member of the U.S. National Academy of Engineering, and a founding member of advisory boards for Google, AT&T, Nissan and the UN Secretary General.



DR. YANIV ALTSHULER

- MIT Research Fellow
- Experienced entrepreneur, skilled at creating, developing and operating scalable AI systems
- Author of 3 books on Artificial Intelligence
- Published over 70 scientific papers and 17 patents
- World Economic Forum "Technology Pioneer"



PROF. ALEX "SANDY" PENTLAND

- MIT Professor, published over 1,000 scientific papers
- Member of the U.S. National Academy of Engineering
- Leader at the World Economic Forum
- Winner of the DARPA Network Challenge
- Founding member, advisory boards for Google, AT&T, Nissan and the UN Secretary General