

# Background

- ✓ GIDARA has acquired the proven and applied HTW® biomass/RDF gasification technology
- ✓ GIDARA Energy is building an advanced biofuels facility in Amsterdam "Advanced Methanol Amsterdam (AMA)" that converts refuse derived fuel ("RDF") and waste wood into advanced bio-methanol
- ✓ GIDARA Energy consists of:
  - Ara Partners, an industrial private equity fund
  - G.I. Dynamics, an engineering and project development firm targeting renewable infrastructure

#### **GIDARA - AMA Project: Vital Statistics**

Plant Location in Amerika haven Amsterdam:



Plant #1: Project Schedule

✓ Basic engineerir	ng: Complete
✓ FEED:	Ongoing
✓ Start of EPC:	Q1-2022
✓ Operational:	Q1-2024

Technology: Number of Plants Built ✓ HTW<sup>®</sup> 2.0 Technology

√ 4 Plants (Germany, Finland & Japan)

✓ Existing Demo & Testing Facility

**Equity Sponsor: Project Developer:** 

✓ Ara Partners

✓ G.I. Dynamics



#### **Ara Partners**

Ara Partners makes buyout and growth investments in companies targeting decarbonization of the chemical, materials, industrial and energy industries. Ara targets companies that provide the building blocks necessary to run the global economy. Ara focuses on high-growth businesses with minimal technology risk or commodity exposure.

The Ara Strategy targets investments driven by newly emergent demand for profitable companies with superior business models made possible by decarbonizing the fundamental products that underpin the global economy.

Ara Focuses on high-growth businesses with minimal technology and commodity risk.







Industrial & Manufacturing



Chemicals & Materials



Food & Agriculture

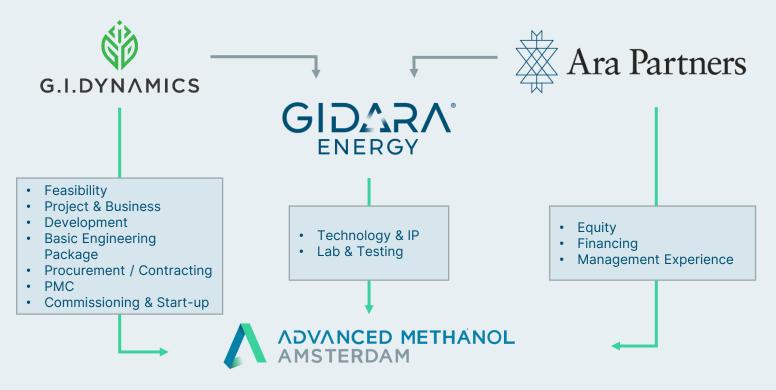


Energy Efficiency & Green Fuels



## **GIDARA Energy Structure**

GIDARA is jointly owned by **Ara partners**, US private equity firm, and **G.I. Dynamics**, Dutch engineering and project development firm, for the sole purpose of building Renewable Gasification to (Bio-)Fuel plants.







Non-Recyclable Waste



**Syngas** 



Advanced Biofuels



# GIDARA's products serve the high-growth European market

Compliance with RED II for Advanced Biofuels.
Plus Support in EU Waste
Management





#### Compliance with **EU RED II**:

- Bio-syngas to downstream applications is in full compliance with RED II.
- By 2030, all EU member states need to blend 3.5%
   Advanced Biofuels.

#### Alignment with **EU Waste Management Directives**:

 Current non-recyclable waste can have an extra life, whereby no waste incinerated or landfilled is needed.





### **Proven Technology**



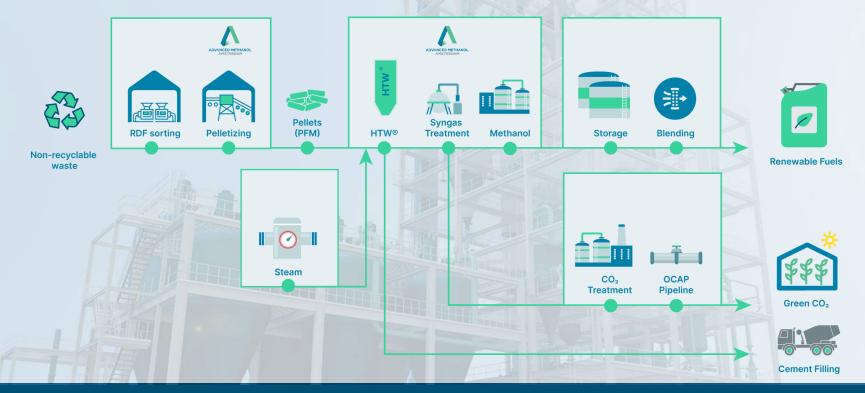
Versatile feedstock + end product (Syngas)

Experienced team





## AMA - Process Flow

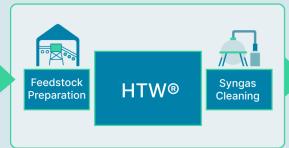


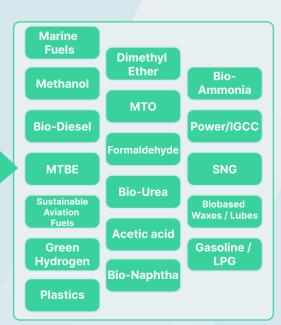




## Feedstock and Products















## GIDARA Energy

We make sure our Waste isn't Wasted

