At A Glance
Onboard Dynamics’ (Onboard) technology enables the compression of natural gas (CNG) in a unique way bringing environmental benefits and economic savings to fleet vehicles, utilities, and other vertical market opportunities. With help from VertueLab, Onboard was able to win federal funding and further develop their compressor technology.

CLIMATE CONCERNS ADDRESSED:

EMISSIONS
- Fleets generate 25% of transportation GHG emissions

ADOPTION
- Less than 2,000 public & private CNG fueling stations exist in North America

HEALTH
- There are 335M fleet vehicles utilizing diesel, resulting in poor air quality

WASTE
- Methane leaks from wells and pipelines amount to >1.4% of every FT3 of natural gas extracted

About Onboard Dynamics
Onboard brings the opportunity of compressed natural gas to large vehicle fleets such as shipping companies, school districts, waste hauling, utilities, and more. By eliminating key barriers to the adoption of natural gas, their patent-pending GoFlo® compressor makes natural gas-powered vehicles feasible today. With this technology, drivers can refuel their natural gas-powered vehicles at their business with lower installation and operating costs, while also cutting emissions.
VertueLab Meets Onboard Dynamics

VertueLab met the CEO of Onboard, Rita Hansen, in 2014. VertueLab made an investment of $150k alongside a research gap funding program called ONAMI, which contributed an additional $250k. The goal of this funding was to meet the cost-share requirements of a $3.6M award from the U.S. Department of Energy’s Advanced Research Projects Agency-Energy (ARPA-E). Their technology was at an early stage of technology development and most other investors weren’t willing to support something that wasn’t tangible yet, VertueLab helped fill this gap.

Plus: Rita was nominated by VertueLab as one of 32 entrepreneurs to attend a demo day at the White House in August 2015 sponsored by President Obama.

THE IMPACT OF ONBOARD DYNAMICS

EMISSIONS
One fleet that replaced diesel with CNG reported a 21% reduction in GHG emission, and the GoFlo® made that possible

HEALTH
Fleets’ adoption of CNG will result in significantly reduced pollutants

WASTE
Less fuel wasted traveling to off-site stations, and methane leakage prevention through application in pipeline maintenance

DIVERSITY
A significant percentage of the company’s investors are women and the executive team is gender-balanced

Company Update:
In 2020 Onboard Dynamics launched our GoFill™ Refueler product in July at a customer site west of Portland, Oregon in partnership with NW Natural.

“Without this initial investment from VertueLab and ONAMI, we never would have arrived at first base”
–Rita Hansen, CEO

Learn more at onboarddynamics.com