

MariMatic®

A MariCap Company

MariMatic Oy located in Vantaa, Finland with several partners globally



Laari Construction

- . General Contractor
- . Over 30 years
- . Industrial and Commercial sectors



Renewaste – marketing for

**Underground Vacuum
Waste Collection System,**
known as MetroTaifun
Technology in Canada

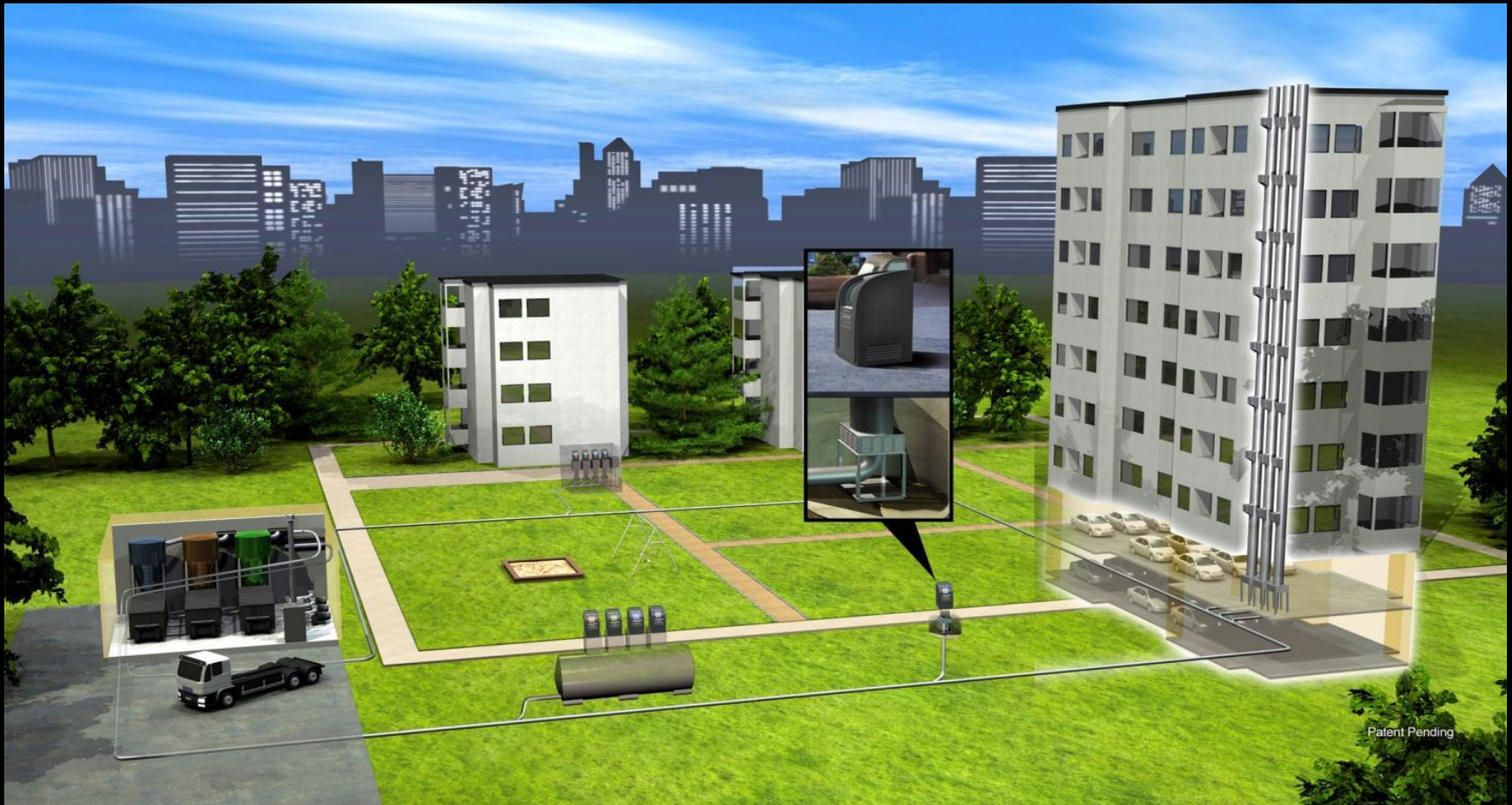
A&WMA Waste Conference

April 10th, 2014

- ▣ **Video – Living with a Vacuum Waste Collection System**
- ▣ **<http://vimeo.com/11804927>**

Metro Taifun™

Metropolitan Waste Collection System



Key Features of the MetroTaifun Technology

- ▣ Reduction in pipe diameter with patented Formator Technology to compress the waste to fit into a smaller pipe system.
- ▣ Ring-Line Type pipe layout
- ▣ Natural Bending HDPE pipe
- ▣ All of these innovations contribute to the Energy cost savings

WHERE IT FITS WITH THE WASTE PROCESS.

- Improved separation at the source
- Ability to collect more fractions at the same location
- RFID technology to accurately determine waste generated
- Significantly reduces traffic of collection vehicles
- Reduces the expense and probability of litter generated from over filled containers

Competing Technologies

Envac



MetroTaifun



Traditional pipe installation



MetroTaifun composite pipe installation

Pros and Cons

- ▣ Minimized operational costs
- ▣ Long term Savings
- ▣ Flexible volume capacity
- ▣ Reduced vehicle traffic
- ▣ Enhanced safety for collectors
- ▣ Minimized environmental pollution
- ▣ Higher initial investment
- ▣ Cannot collect large items
- ▣ Public conformity

Mecca, Saudi Arabia

- ▣ World's largest AWCS – 20 km Pipe Network
- ▣ 13 million visitors – 600k kilograms daily
- ▣ 74 feeding points



Vuores, Finland

- ▣ 13,000 Residents – 1.9 million kg/year – 4 waste fractions - plus commercial
- ▣ 13km pipe network – 400 collection points

