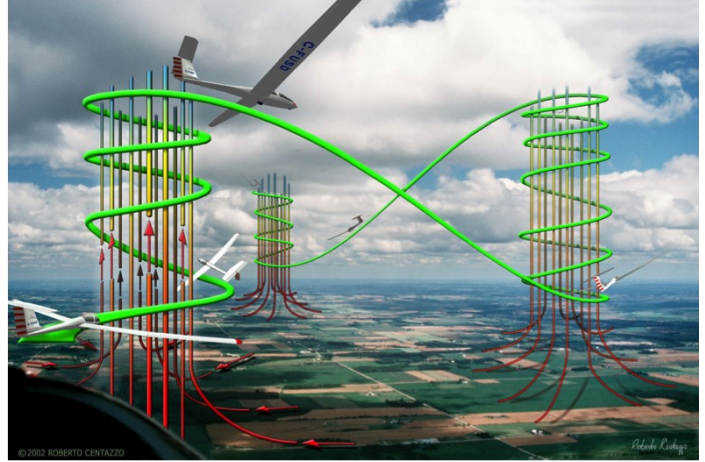
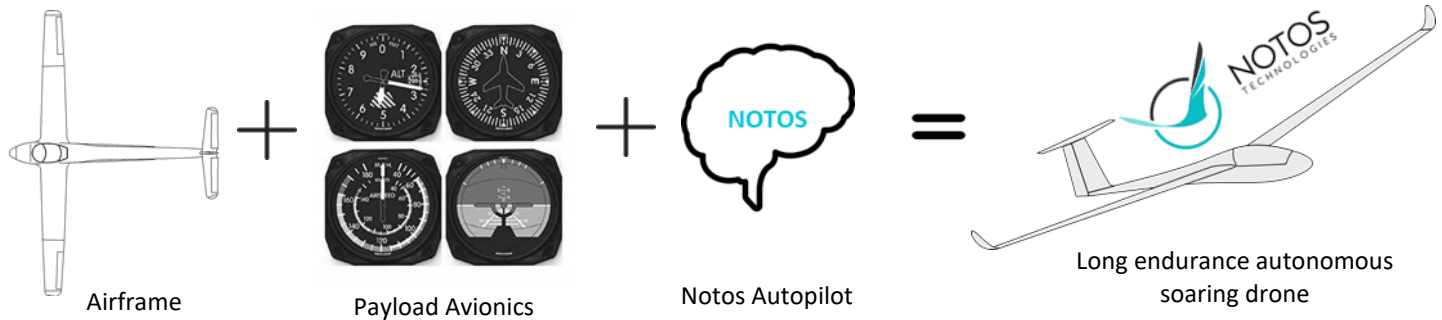


**NOTOS Technologies** has developed an algorithm for a plane-shaped drone (glider) to soar autonomously. Gliders gain energy from the atmosphere by flying in circles in streams of rising air, called thermals. This allows them to stay aloft for extended periods of time, in the range of several hours .

**NOTOS Technologies** has the first complete system to enable autonomous soaring by generating a dynamic map of lift sources (thermals) in the atmosphere and uses this map for online flight planning and decision making. Without the need for an external power source, autonomous soaring increases both range and flight time of a small robotic platform **by 10x** compared with currently available solutions.



## Technology architecture: ADD NOTOS to any fixed wing drone



## NOTOS Technologies vs. Other Technologies

	Current commercial platform	NOTOS
Type	VTOL, Fixed and Hybrid	Fixed
Payload	2 - 20 kg	~ 2kg
Launching method	Hand, Mechanical, Autonomous	Autonomous
Endurance	~ 45 mins	6 - 8 hours*
Propulsion	Generally Battery Powered	Solar (Thermals)
Operating speed	Varies	13 m/s

\*dependent on weather conditions

## Applications



Nature conservation



Infrastructure



Relaying system