



## D.T 2.1.4 INFOSHEET ABOUT THE COMPANIES & INDUSTRIAL INTERACTIONS

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**MASCHIO GASPARDO**

Version  
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**Transfarm4.0**

**MASCHIO** **GASPARDO**

Maschio Gaspardo is an international manufacturing group based on the Veneto region, leader in the production of agricultural equipment for tillage, seeding, crop care, green maintenance and hay making.

A quick history of the company: in 1964 the Maschio brothers established their business, in ten years from a small scale business they shifted to major industrial production site. Between 1994 and 2017 the company acquired Gaspardo seminatrici, a business specialized on the seed-drills production, Officine Meccaniche Feraboli, a firm renowned for its hay making equipment, Unigreen a company specialized in sprayers and Moro a company that produces plows. From 2003 the company has gone international and today it has 8 production plants, 5 in Italy and 3 abroad in Romania, India and China.

1964	1994	2013	2014	2017
<b>TILLAGE &amp; GREEN MAINTENANCE</b>	<b>SEEDING &amp; PLANTING FERTILIZATION</b>	<b>CROP PROTECTION</b>	<b>HAYMAKING</b>	<b>PLOWING</b>
				
MASCHIO foundation in the <i>Casetta delle Frese</i> and the first CL tiller with side gear transmission	GASPARDO becomes part of MASCHIO Group	UNIGREEN becomes part of the MASCHIO GASPARDO Group	FERABOLI is purchased, a historic company from Cremona operating in haymaking sector	MASCHIO GASPARDO Group obtains control of MORO PIETRO MECCANICA, a historic company operating in plowing sector



## Transform4.0

Maschio Gaspardo nowadays produce around 70.000 machinery per year, during the company development Maschio Gaspardo widened its product range and today they are able to cover all crop cycle, main products are:

- Plows
- Rotary tillers
- Tillage equipment
  - Seed drills
  - Sprayers
- Hay making equipment





## Transform4.0

Maschio Gaspardo is involved in the Interreg Central Europe project Transform 4.0 as technology provider for the Proximal & Remote sensing pilot action. It cooperates with CREA Council for Agricultural Research and Economic Research Centre for Viticulture and Oenology, University of Maribor, Ae-Robo (advanced manufacturing industrial Slovenian cluster), T2I, Technology Transfer and Innovation, Italian cluster.

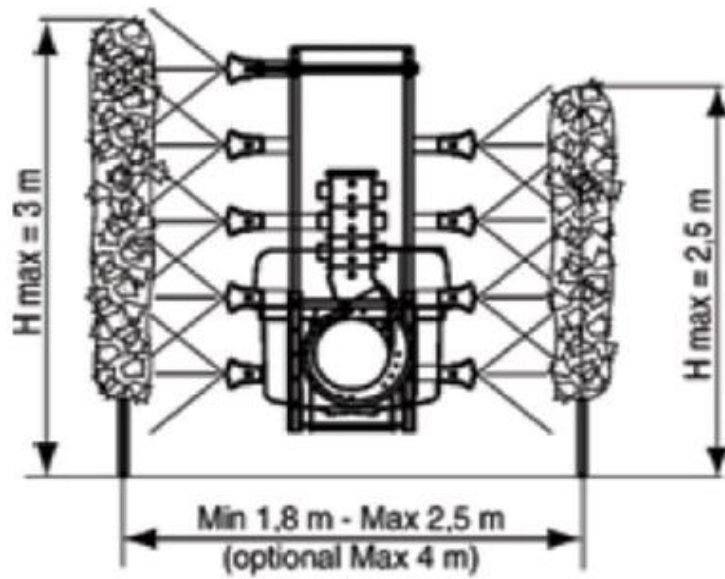
The goal of the pilot is to test and bring to the market an innovative solution for the application of pesticides in vineyards or orchards, based on a VRA mistblower implemented via canopy-volume sensors able to determinate in real-time the presence and the amount of canopy to treat with, as consequence, the reduction of pesticides drifts.

Maschio-Gaspardo provides a mistblower specifically designed for VSP trellis systems, it has 8 or 10 nozzles adjustable in height and tilt, allowing an effective penetration of the mist in the canopy.

The prototype is based on their product “TURBO TEUTON P POLIPO”, implemented with an innovative “Solenoid assisted check valve” for every nozzle that can be controlled with a control unit to adjust the duty cycle varying the amount of liquid and keeping the circuit pressure constant. This implement will be connected with a system developed by the University of Maribor and the Slovenian cluster AE-ROBO that estimate the canopy volume by means of a stereocamera and a lidar apparatus, and provide the data to the control unit to adapt the duty cycle of the valves according to the prescribed mist volume. The whole system developed by the industrial partners has been designed to be as simple and economic as possible in order to supply a user-friendly solution to the farmer to improve its farming sustainability.



**Transform4.0**



[https://www.youtube.com/watch?v=aZtmyoSGx68&ab\\_channel=MaschioGaspardoGroup](https://www.youtube.com/watch?v=aZtmyoSGx68&ab_channel=MaschioGaspardoGroup)