ZeroToxVine

Chemical-Free removal of weeds and pests

agRO BO food

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Pain → Opportunity

Current use of pesticides

Secure healthy food for population increase

⊕   **Hazardous to human health**

🐝   **Harm biodiversity and environment**

💧   **+ 70 % global water use in agriculture**

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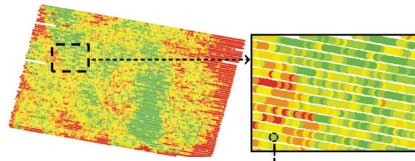# Our Technological Solution

Detection
Real time big data gathering

- Sensors: Picture, Video, GPS/GIS, Weather data, Soil composition, Crop type

- Big data with weeds, pests and crops multi-dimensional patterns
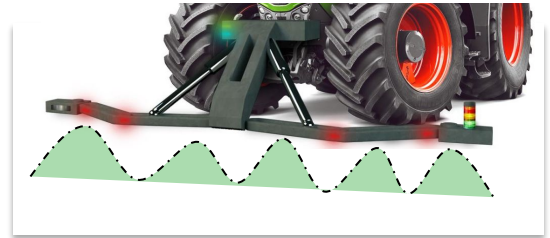
Decision
Real time processing

Scanner of the crops field: Each species (weed or pests) are marked with different colour

- Sensor data analysis

- Comparison to embedded patterns

- Discrimination of weeds and pests
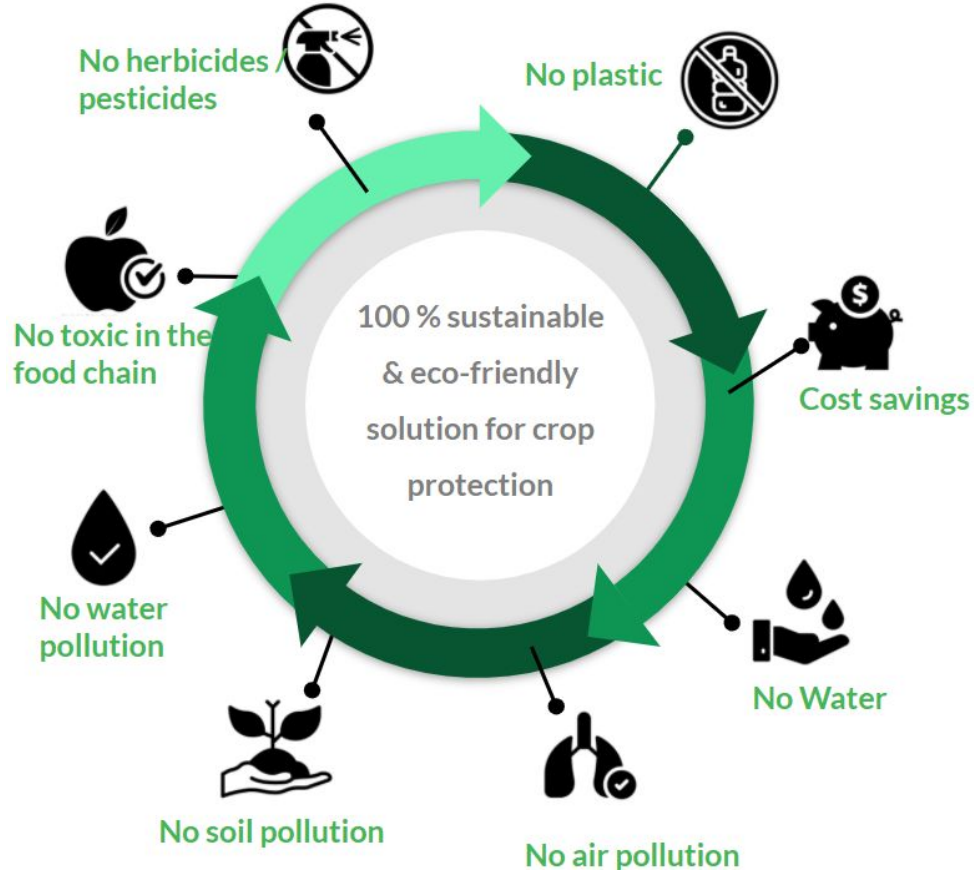
- Decision by machine learning algorithms

Action
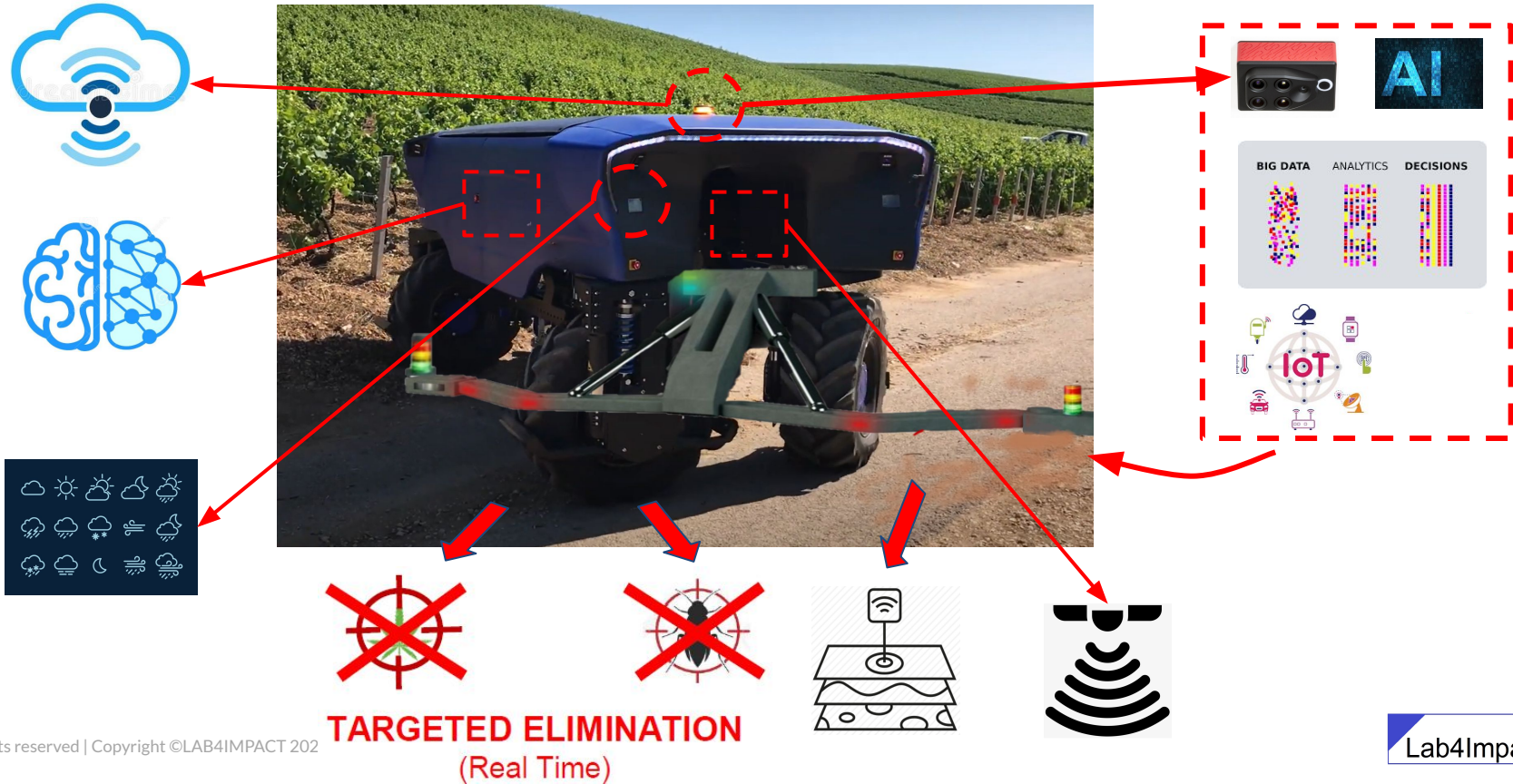**Removal of Targeted Weeds/Pests**

- Instant dehydration by microwaves of targeted harmful weeds and pests

- Down to weed root (5-10 cm in the ground)

- 70 weeds and 12 pests (the most common in Europe)

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Value proposition

100 % sustainable & eco-friendly solution for crop protection

- No herbicides / pesticides
- No plastic
- Cost savings
- No Water
- No air pollution
- No soil pollution
- No water pollution
- No toxic in the food chain

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PoC's, Infrastructures, Test, Validation..DIH's....

TARGETED ELIMINATION
(Real Time)

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ZeroToxBot

A real alternative to herbicides and pesticides

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