



NATUITION
smart eco robots

VIOLETTE™

SUSTAINABLE WEED REMOVAL ROBOT



MADE IN FRANCE

SMARTEST GROUNDKEEPING ROBOT IN THE WORLD



DETECTION

EXTRACTION

REMOVAL

SEEDING





Under the regulatory, the social, the sporting and the budgetary pressure, the autonomous mechanical weeding is naturally the solution for professional landscapers of sport fields: football, rugby pitches and golf.



YOU NO LONGER HANDLE SPRAYERS

Obtain better quality of work life removing dangerous consumables and risks for team and players



80% > 99% OF GRASS

And it is sustainable : the roots of weed are removed using mechanical tool



AUTONOMOUS AND EASY TO USE

GPS guided with 10mm precision without base station. Robot is configurable using smartphone



AS FAST AS HUMAN

1 extraction / seeding each 5 seconds, but doesn't need a rest during the day / night



**ROBOT CONNECTED BY 4G
REMOTE AFTER SALES BY MANUFACTURER**



**ADAPTED TO GRASS
WHEELS**

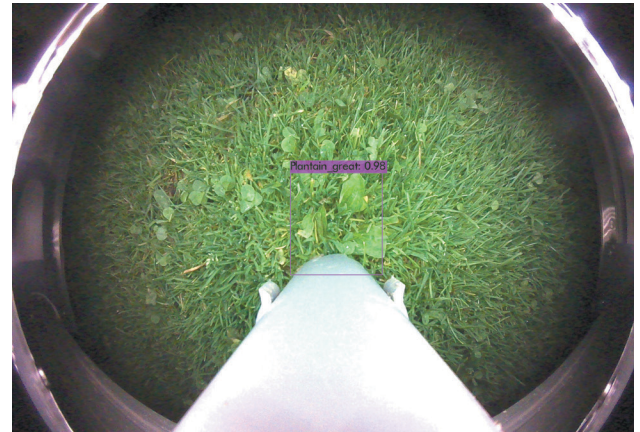


**NAVIGATION
USING GPS**





VISION OF THE ROBOT



EXTRACTION USING CORKSCREW



TECHNICAL DATA

Carbody	Anodized aluminium
Power	100% Electric, Long-last battery LiFePo 4
Energy	720 Wh
Autonomy	10 hours of operating
Charging	4 hours of 220v home socket
Transmission	Propulsion with variable speed
Speed	Transport 4km/h, Working 0.2 ... 1 m/s
Slope	10%
Work width	30 cm
Tyre size	80 x 9.5 "(210mm)
Conduct	GNSS RTK, without boundary wire



The software detects and localizes weeds on the grass.
The root is targeted by the corkscrew.



Plantain



Daisy



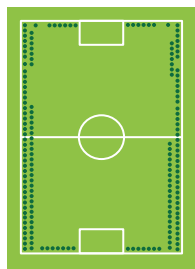
Dandelion



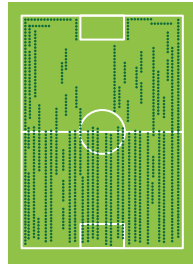
Extraction head removes following types of weeds larger than **1 cm²** (visible) and less than **Ø 20 cm** in diameter

EVALUATE THE QUALITY OF YOUR PITCH

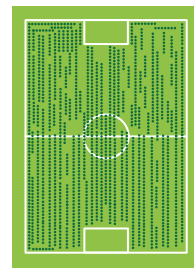
Quantity of weeds on the sport field



A 2000



B 20 000



C 200 000

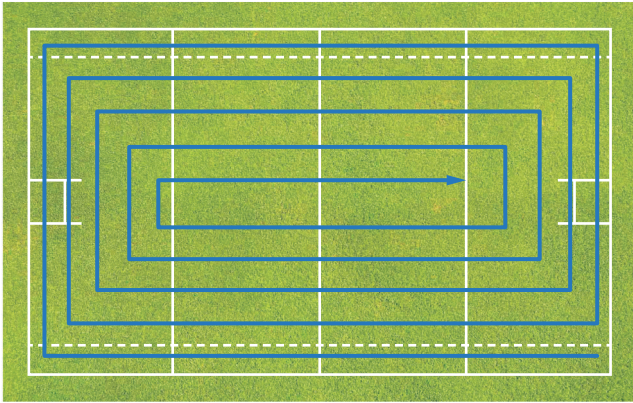
PERFORMANCE OF VIOLETTE DEPENDS ON THE FIELD QUALITY

GET BACK CONTROL ON WEEDS

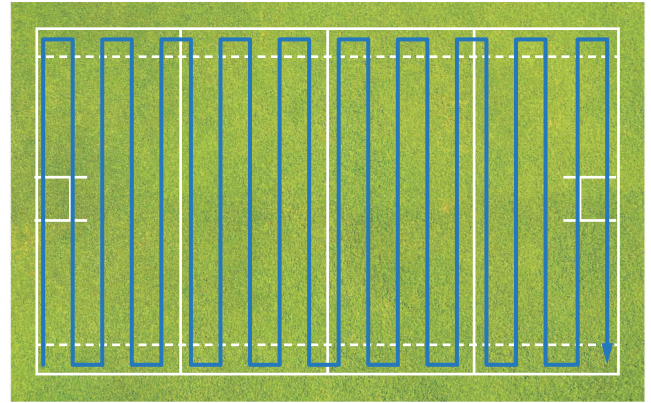


IMPACT is a service with result garanty, NATUITION team comes with 3 IMPACT robots in order to perform several days operation

NAVIGATION is ordered and adapted to natural propagation of weeds on the sport field



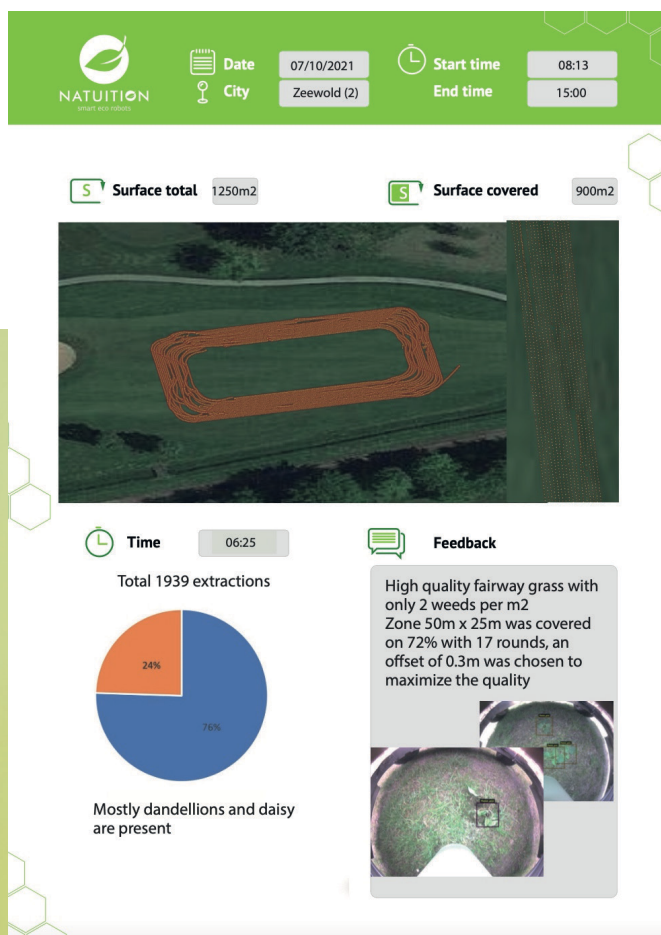
Spiral trajectory



Zig-zag trajectory

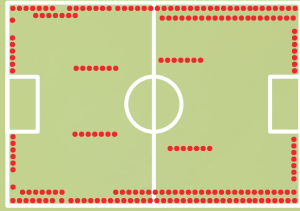
Needed steps to start working:

- 1 Turn on the robot
- 2 Move robot to the sport pitch using smartphone
- 3 Generate new working zone or use existing one
- 4 Launch the robot on Start mode or Continue mode
- 5 Get your pdf report with detailed information of extracted weeds / planted seeds



Report content:

- Place
- Start & end time
- Total & covered surface
- GPS trajectory of the robot
- Extraction statistics
- Seeding statistics



AUDIT FUNCTION

One hour drive is available in order to estimate the number of weeds and duration of work to be done



NOTIFICATIONS

User can receive by SMS or Telegram message notifications of completed work or anomaly occurred

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