

Welcome



NaturaVolt

Electric Weeding Specialists

Formed in 2023

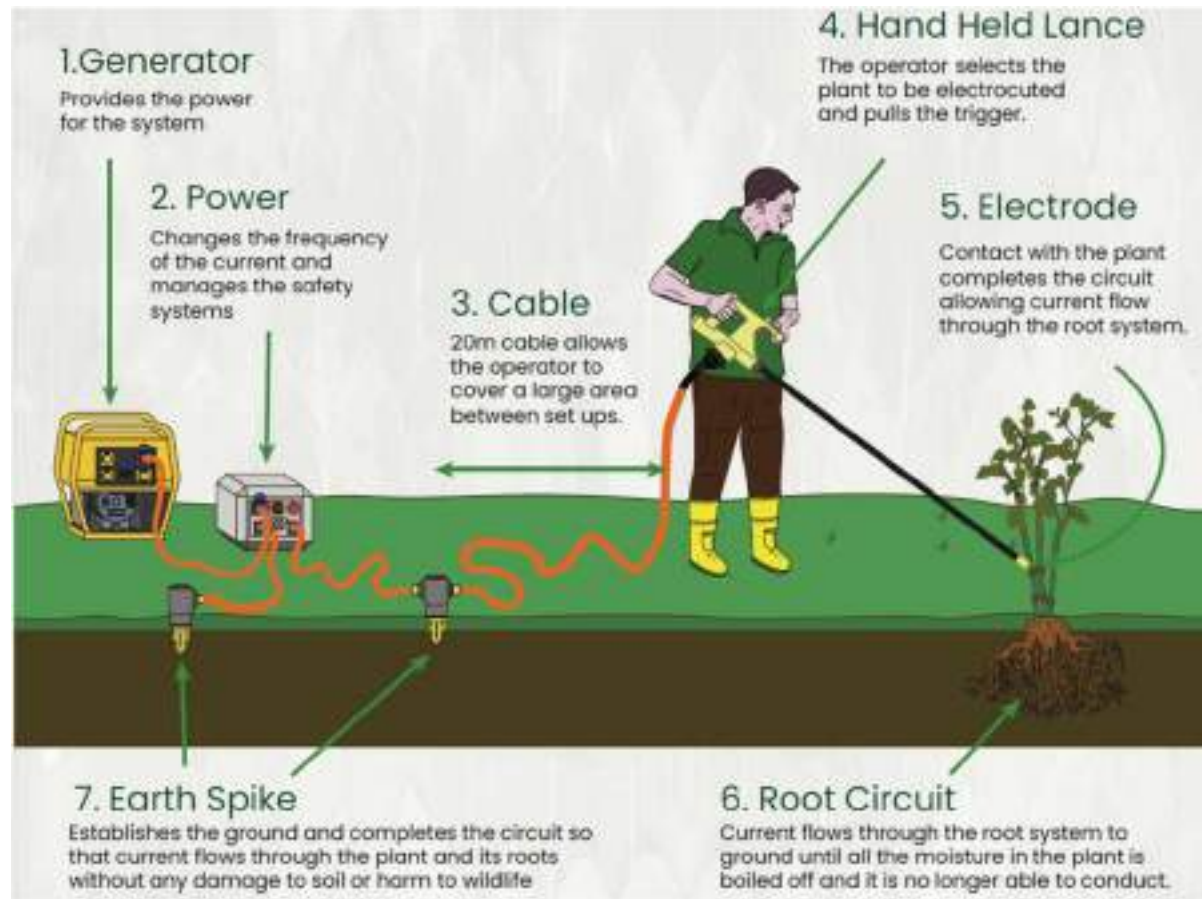
VISION to provide the best alternatives to Chemical weed control in urban areas

Delivering sustainability GOALS for our customers

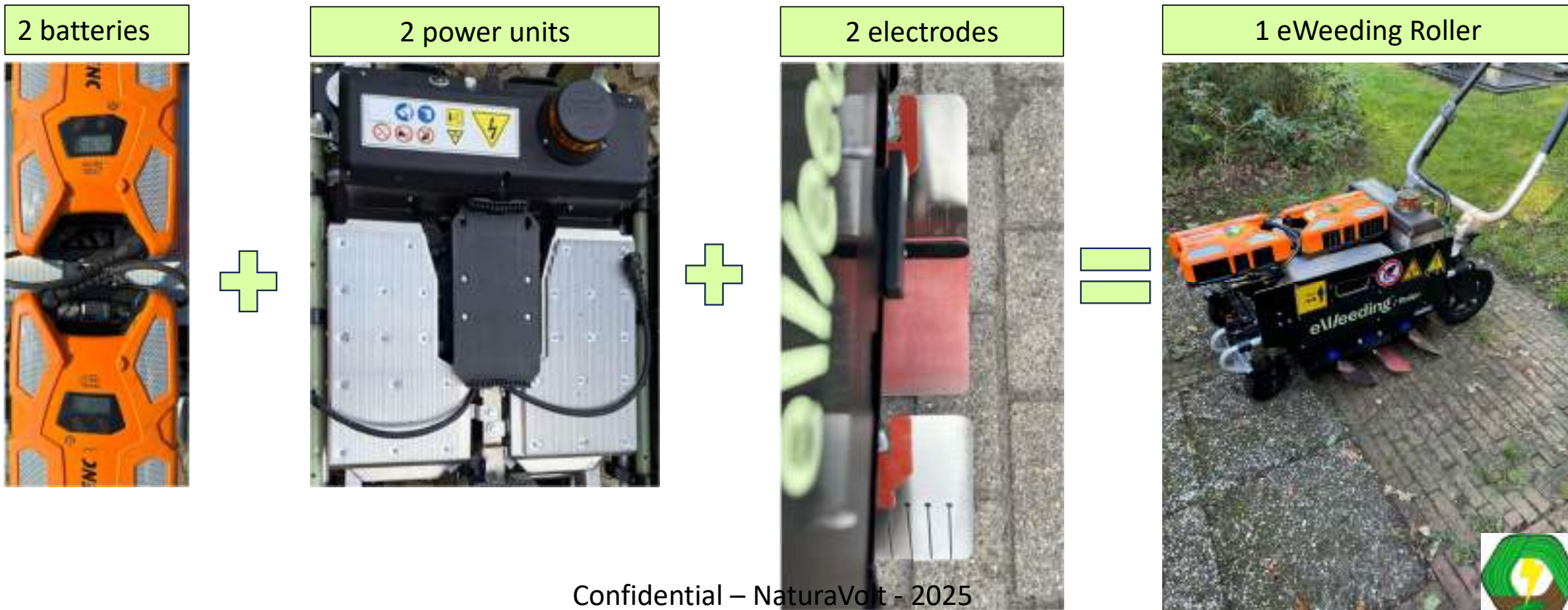
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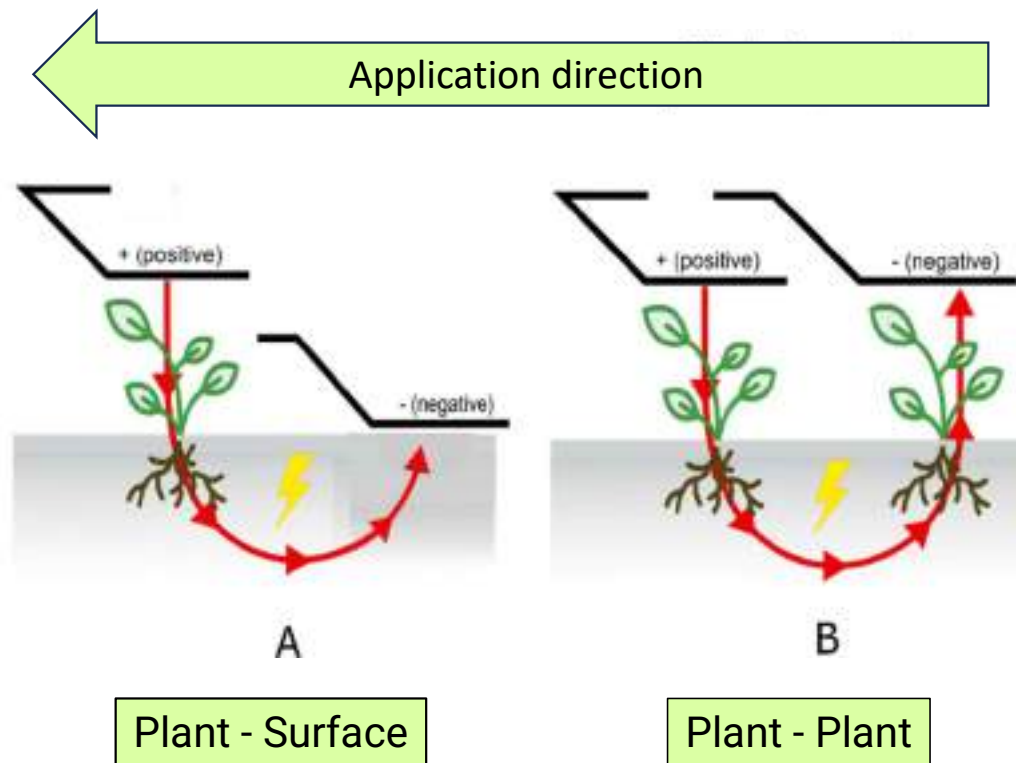
eWeeding – explained



eWeeding Roller – explained



eWeeding Roller - explained



eWeeding Roller

- CE certified by Wimmersson
- Fully electric
- 60cm working width
- Side shift for weeds in edges
- Powered by 2 exchangeable Pellenc batteries
- Push model
- 3-4 hour operating from a single charge of the batteries
- Input power 3000 Watt hours
- Output power up to 10K Volt (average 6000V)
- Easy to transport and store



eWeeding Roller



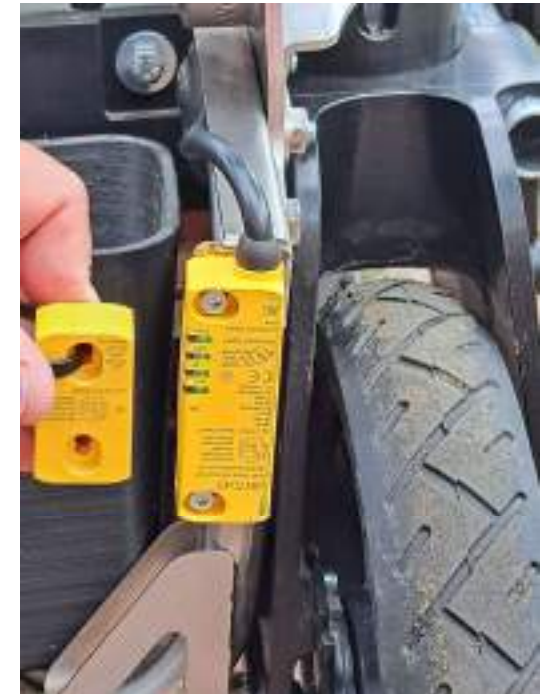
Transportation mode



Operation modus



Side shift for curbs



Activating tag



Safe to work with

20KV insulation boots



3m no entry zone for by standers



No limitation for cables



1. Certified eWeeding devices
2. Training of operators
3. Yearly refresher training

No effect on signals



Supporting data:

cables on or under ground:
traffic / street lights:

none if well insulated (otherwise 10cm)
prevent direct contact with poles



Safe to work with

- Effect of treatment visible by a line
- The current stays underneath the device



No effect on biodiversity

	Non target organism	Results
Micro-organisms	Bacteria	 No impact
	Fungi	 No impact
Worms	Worms	 Impact in application area for period of max 4 weeks. No long-term effect
Insects	Beetles	 No impact
	Woodlice	 No impact
	Crickets	 No impact

Research by Bayer Cropscience in Monheim (2019-2022)

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Sampling worms during field trials

- ✓ eWeeding has no impact on micro-organisms or invertebrates
- ✓ eWeeding has no impact on non-treated weeds
- ✓ eWeeding ensures natural restoration of biodiversity in the case of Japanese Knotweed



UN sustainability goals



- 7. Energy from sustainable sources – no fossil fuel or drinking water needed
- 8. Appreciation for delivered job => jobs with perspective for future
- 11. Reduced level of weeds – cleaner cities
- 11. No damage to property of 3rd parties or citizens
- 11/13/14/15 More Environmentally friendly => no CO2 output, no small particles, no residues of metal/plastics/chemicals,
- 13/14/15 No negative effect on biodiversity



Efficacy – 1st impression



1st effects
blackening



After 7 days
yellowing

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Long lasting results

Before
T=0



After
T = 98
Days



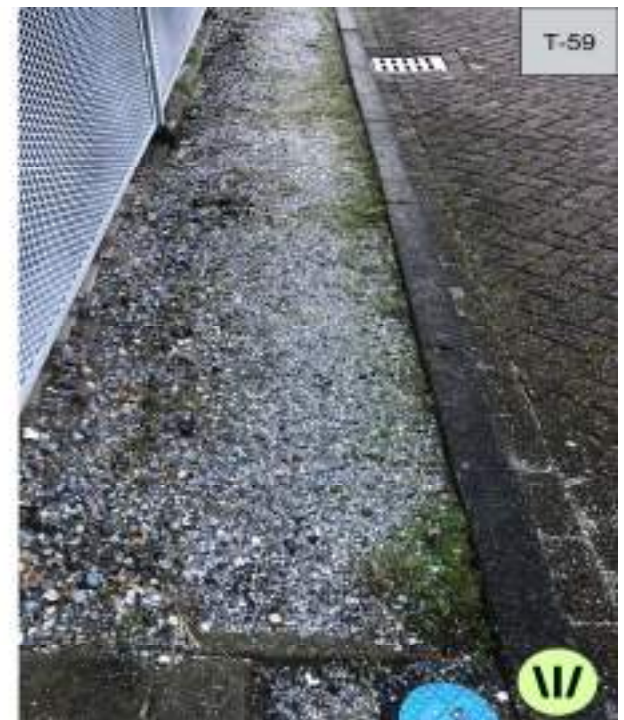
Results pavements



Results gravel



Results gravel



Results on cobblestones



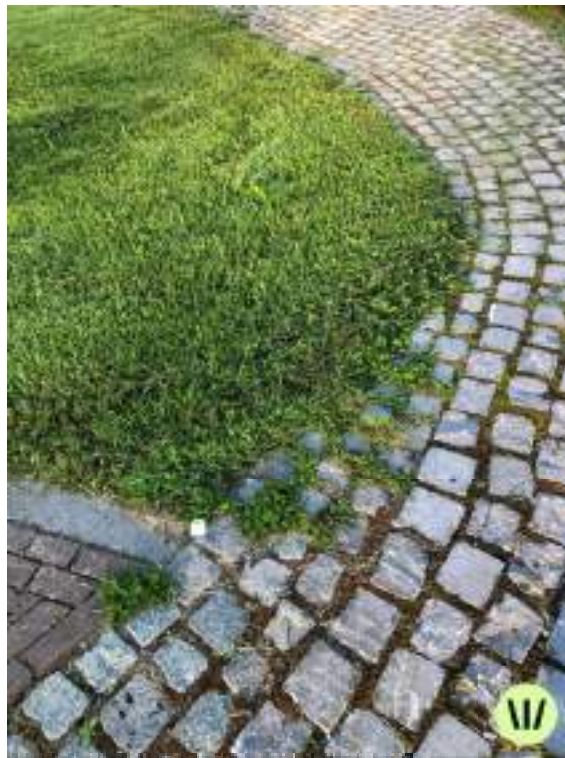
Before



25 days later



Results on cobblestones



Before



After 51 days



Results - Equisetum



Field study 2023 residential area



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Field study 2023 residential area



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Field study 2023 residential areas

Started August 18th (Yellow) => 1 full day

2nd treatment October 3rd (red) => 0,5 day

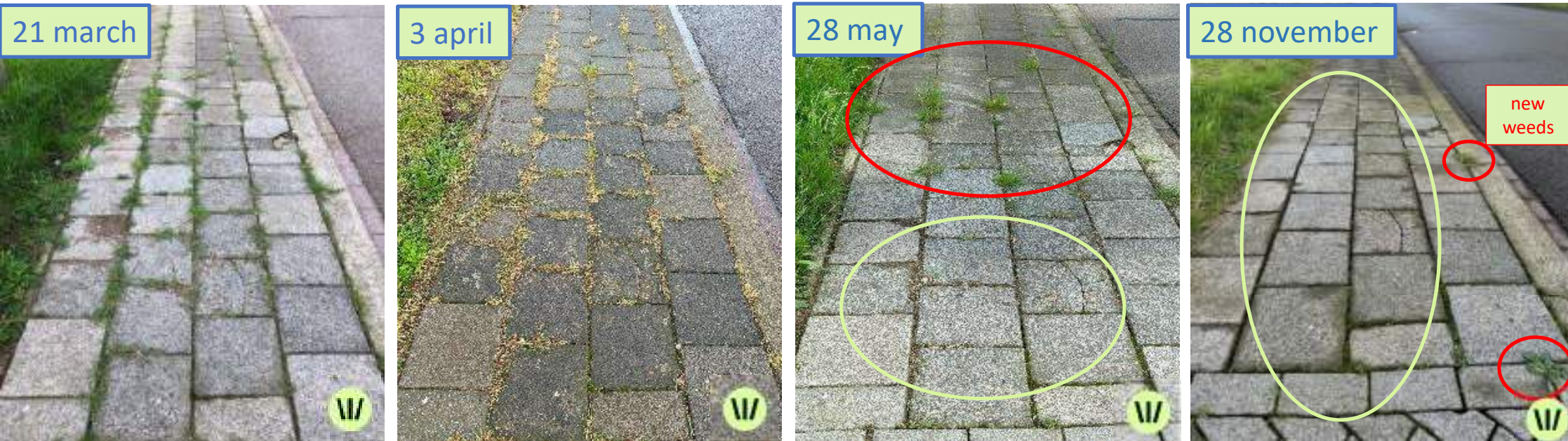
3rd treatment November 10th (green) => 2 hours

Feedback

- Every 4 weeks treatment of weeds by burners
- 50%-75% time savings
- No use of fossil fuel (gas)
- Happy operators
- Happy citizens



Year round control



Started March 21st, 2024 by full coverage treatment
Continued during summer with spot application
End result: A structural improvement of the visual quality of the pavement

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New emerged weeds in gutters



New
weeds



Out of reach



Out of reach



Too narrow



Gutter too deep



Watch out! Do not apply on



In water or during rainy conditions



Thanks for your interest



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