



NaturaVolt

Rolling Out The Future

APSE Seminar: From Challenge to Change

Electric Weed Control for Municipal Excellence

Equipment Sales and Distribution

e//weeding[®]
/ Roller

Contracted weed control (electric):

- Hard surfaces
- Invasive species
- SSSI weeding
- Sports grounds

Advisory:

- Chemical Free weeding transition plans
- Surveys
- Invasive species management plans
- Sustainability Audits



From Chemicals to Current

Beyond the Sprayer: Navigating
a Post-Glyphosate Era

Confidential – NaturaVolt – 2026



Regulation & Public Pressure

Environmental Mandates

Legal restrictions on chemical usage in public domains are tightening across the UK and Europe. Compliance is no longer optional; it's a critical operational hurdle.

Resident Expectations

Public demand for "pesticide-free" parks and playgrounds has reached a tipping point. Authorities must provide visible, toxin-free maintenance solutions.



Closing the circuit

Power Source

A high-voltage generator delivers the potential required to overcome plant resistance.

The Circuit

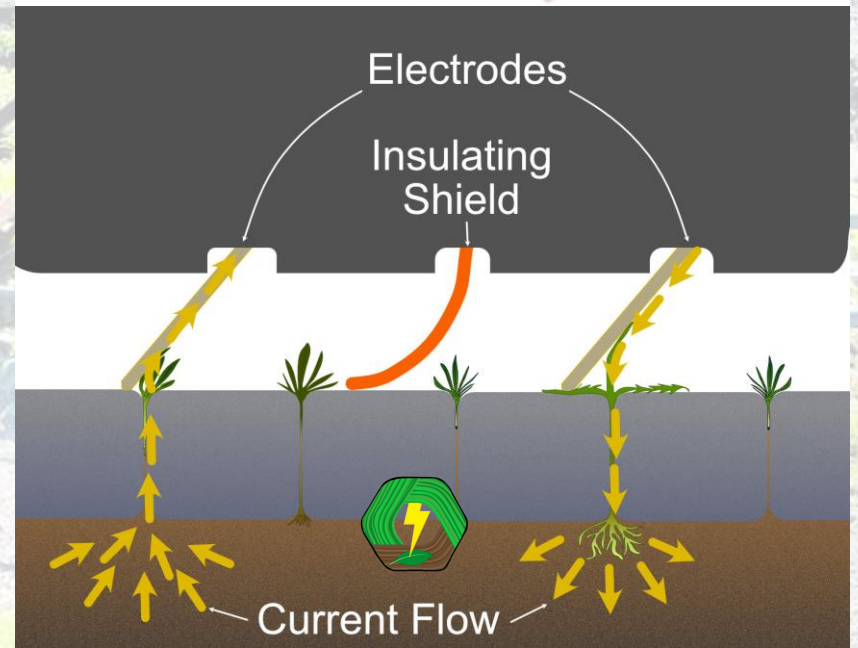
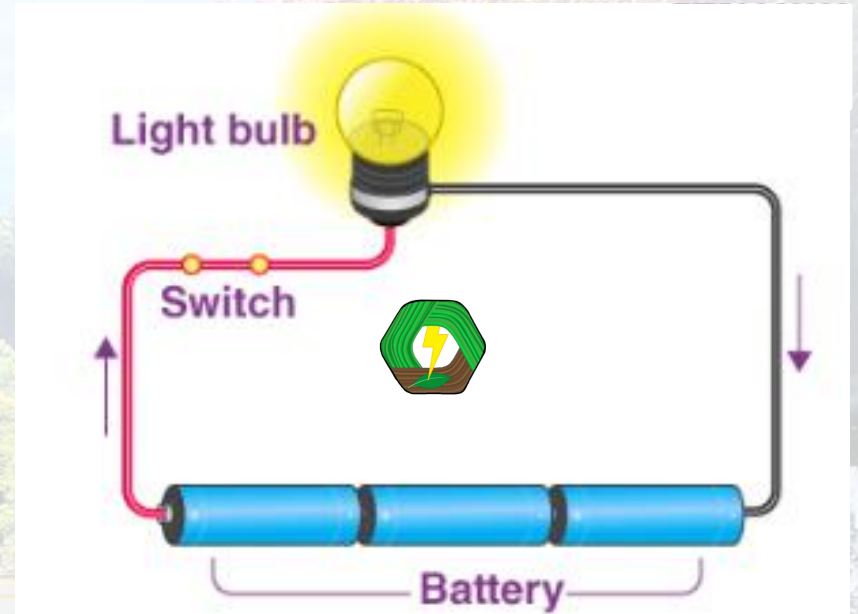
Current flows through the vascular system, effectively using the weed as the "load."

The Electrodes

Custom contact applicators (the "positive") drive current into the leaf foliage.

Thermal Transfer

Enough energy is transferred to instantly convert moisture to steam, boiling the entire plant.



Systemic Vascular Destruction

Boiling the Roots

Naturavolt's high-voltage technology turns the plant's own resistance into heat. This energy ruptures the **Xylem and Phloem**, the plant's transport system.

Unlike steam, hot water or burners, which only singe the leaves, electricity follows the biological path all the way to the root tip, ensuring a systemic kill.



Sustainable and Scalable Solutions

The eWeeding Roller



Accelerating UN sustainability goals



No Biodiversity Impact

Nontarget 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)



Urban Efficiency

Precision Scaled

Designed for kilometers of curb-lines and urban hardstanding. The e-Weeding Roller combines high work rates with silent, zero-emission operation.

- ✓ 60cm Working Width
- ✓ Precise Side-Shift Capability
- ✓ 3-4 hours from a single charge of the batteries
- ✓ Easy to transport and store



Side shift for curbs



Transport mode



Operational Impact & Longevity

Treatment Longevity (Average Days between intervention):



*Longevity data assumes integration with periodic detritus removal.



Efficacy – 1st Impression



Before



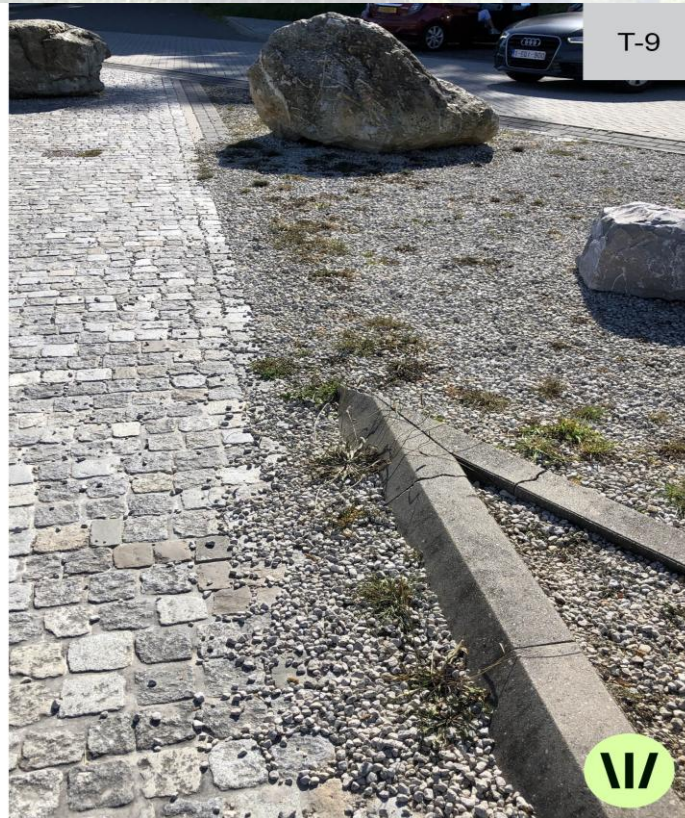
1st effects
blackening



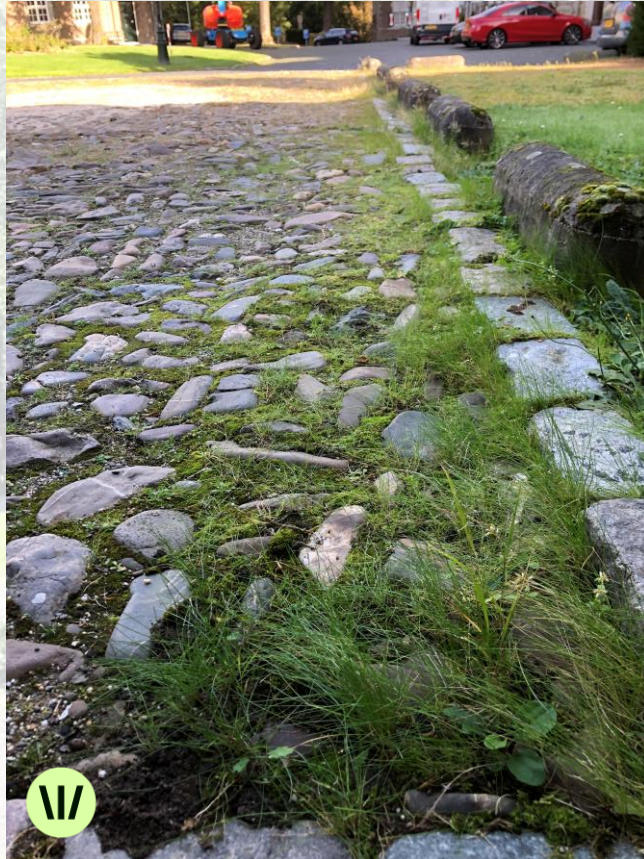
Results on Pavements



Results on Gravel



Results on Cobblestones



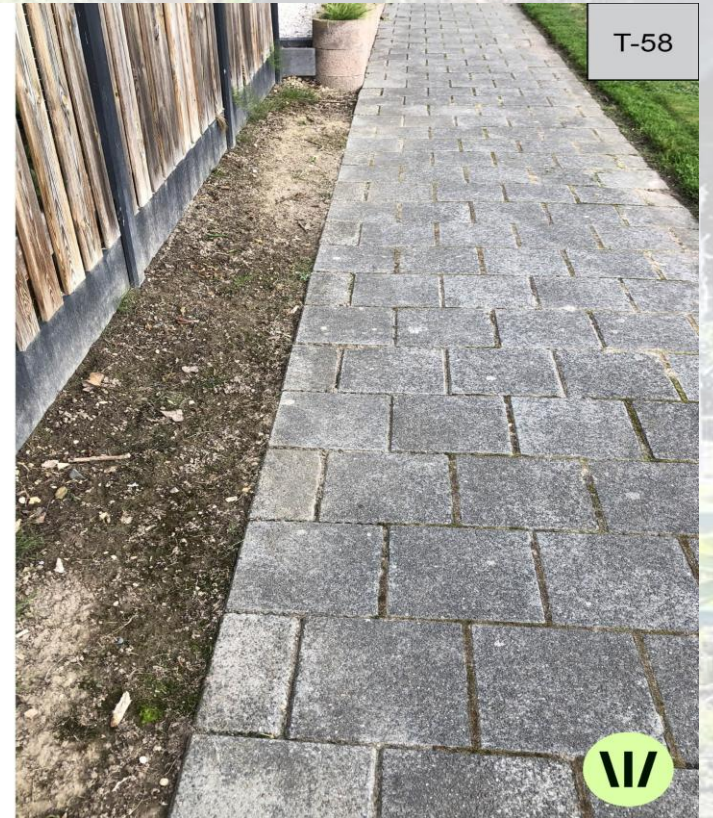
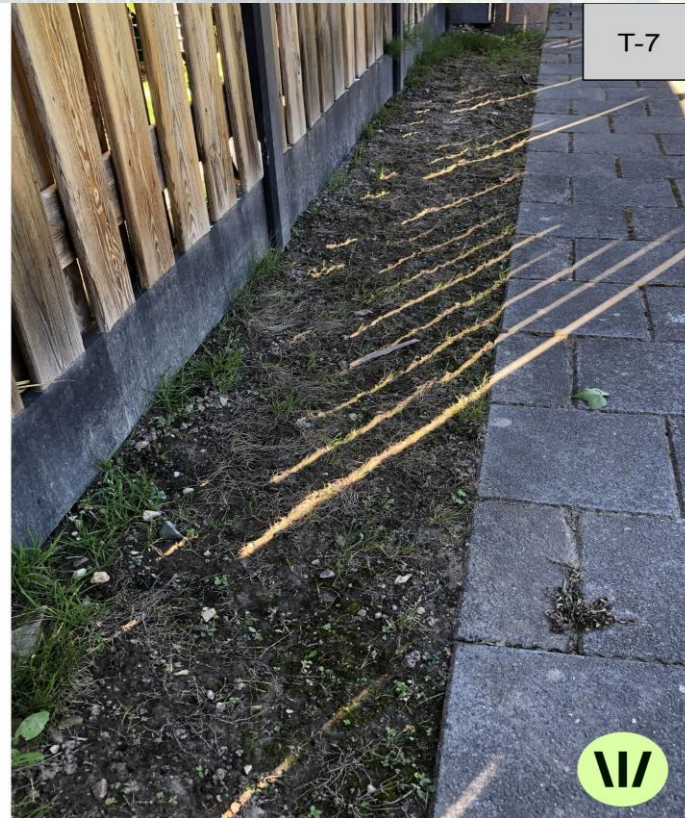
Before



25 days later



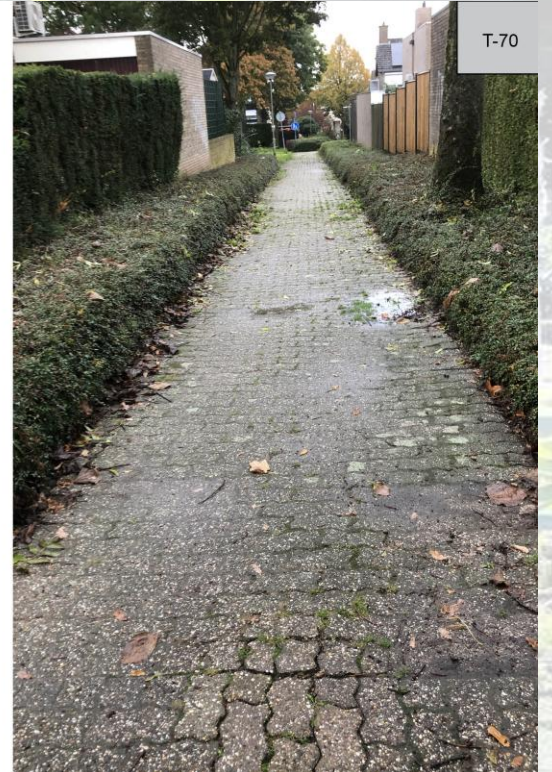
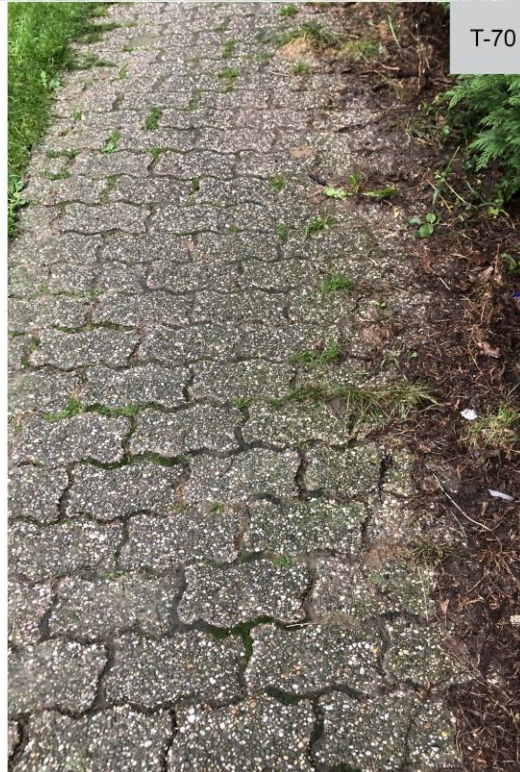
Results on Equisetum (Horsetail)



Field Study 2023 Residential Area



Field Study 2023 Residential Area



Field Study 2023

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

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

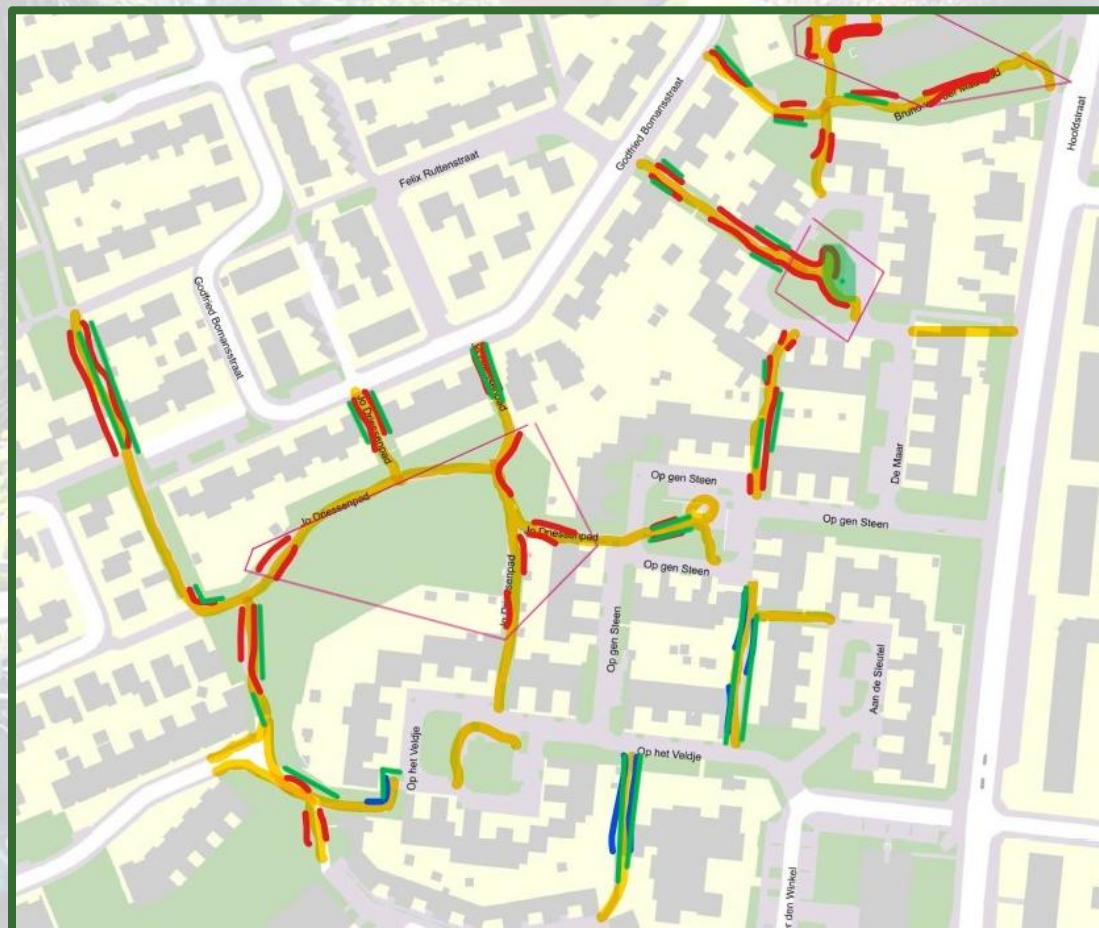
3rd treatment November 10th (green) => 2 hours

Feedback

Every 4 weeks treatment of weeds by burners

50%-75% time saving

No use of fossil fuel (gas)



The Future of Weed Management

What can you expect?



Integrated Approach to Weed Management



Electric Kill

Systemic destruction of the biological weed core without residue.



Detritus Removal

Clearing organic debris to prevent the formation of new seed beds.

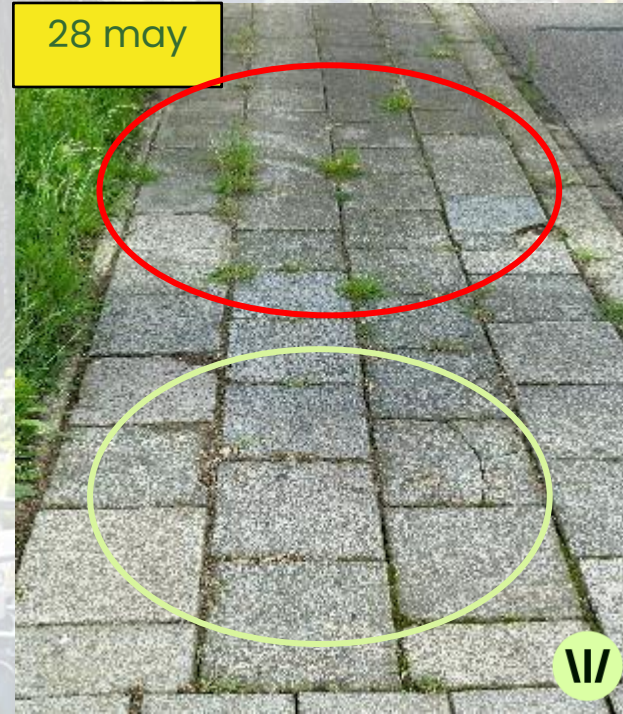


Biodiversity

Protecting soil health and local fauna through chemical elimination.



Year-Round Control



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



Year after year after year



Market Adoption & Proof

40+

Councils (Netherlands & Belgium)

10+

UK Organisations Since Early 2025

A proven European standard now revolutionizing UK municipal maintenance.





NaturaVolt

Electric Weeding Specialists

Questions?

Let's Rewire Weed Control

Join the Non-Chemical Revolution

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