



NaturaVolt

# Rolling Out The Future

**APSE Seminar: 'Into the Weeds' Showcase**

**Electric Weed Control for Municipal Excellence**

Equipment Sales and Distribution

**e//weeding<sup>®</sup>**  
/ 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



# The Challenge

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Beyond the Sprayer: Navigating  
a Post-Glyphosate Era



# 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.



# The Science

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How Electric Weed Control Works

Confidential – NaturaVolt – 2026



# Closing the circuit

## Power Source

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

## The Circuit

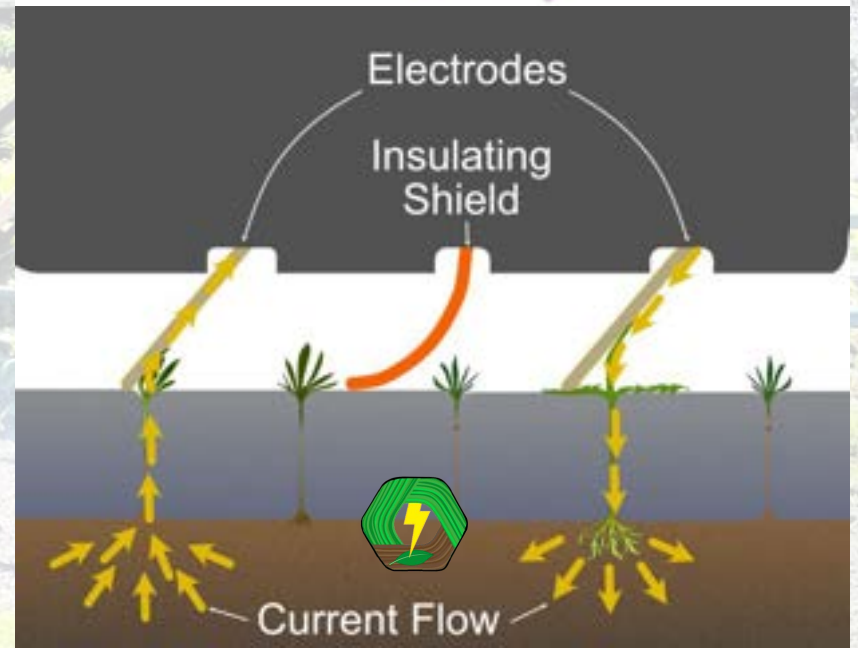
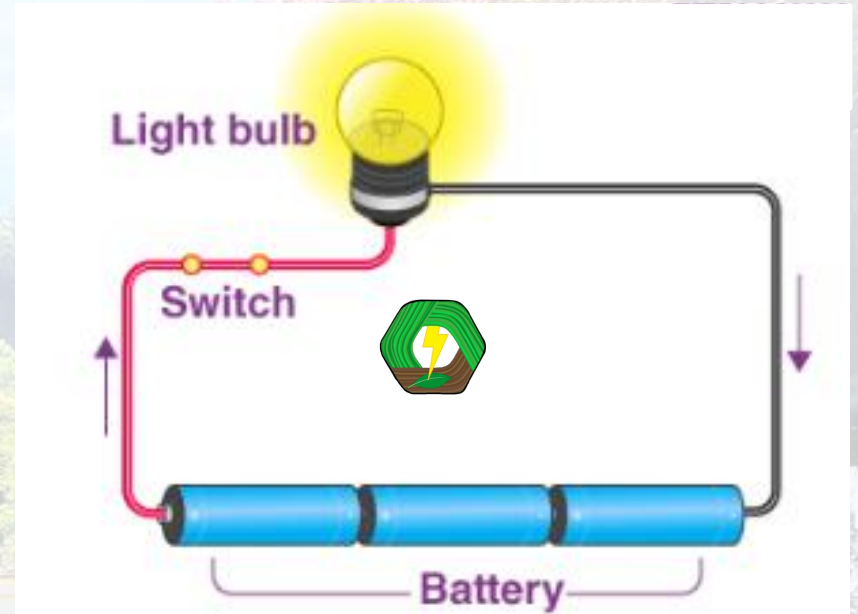
Current flows through the vascular system, effectively using the weed as the "load."

## 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 singes the leaves, electricity follows the biological path all the way to the root tip, ensuring a systemic kill.



# Featured Technology

The eWeeding Roller



# 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



# 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.



# The Impact

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What can you expect?



# Accelerating UN sustainability goals



## No Biodiversity Impact

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

Research by Bayer Cropscience in Monheim (2019-2022)



# Operational Impact & Longevity

Treatment Longevity (Average Days between intervention):



\*Longevity data assumes integration with periodic detritus removal.



# Efficacy – 1<sup>st</sup> Impression



Before



1<sup>st</sup> effects  
blackening



# Results on Pavements



# Results on Gravel



# Results on Cobblestones



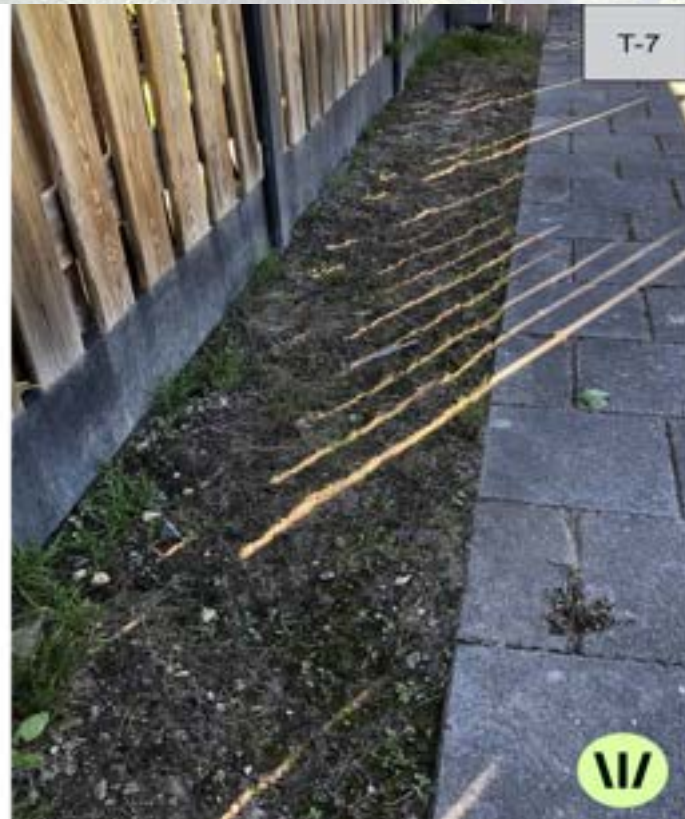
Before



25 days later



# Results on Equisetum (Horsetail)



# Field Study 2023 Residential Area



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# Field Study 2023

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

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

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

## Feedback

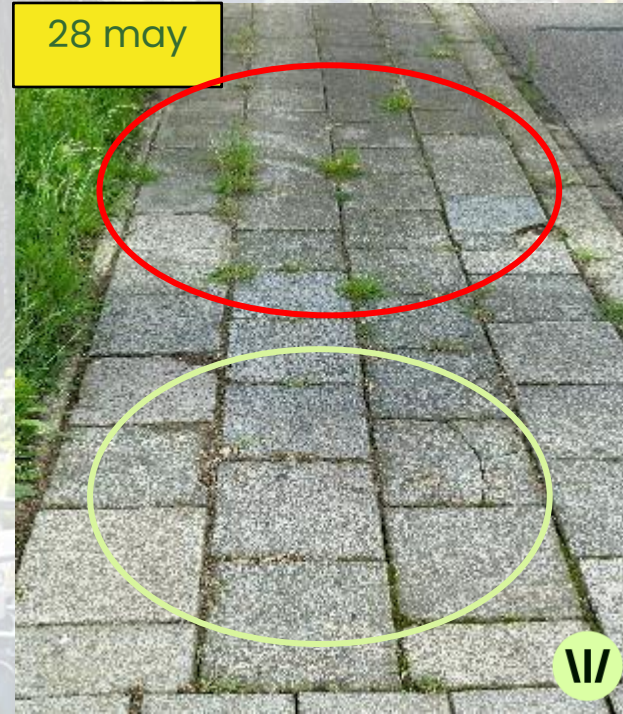
Every 4 weeks treatment of weeds by burners

50%-75% time savings

No use of fossil fuel (gas)



# 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



# Market Adoption & Proof

40+

Councils (Netherlands & Belgium)

10+

UK Organisations Since Early 202

*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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