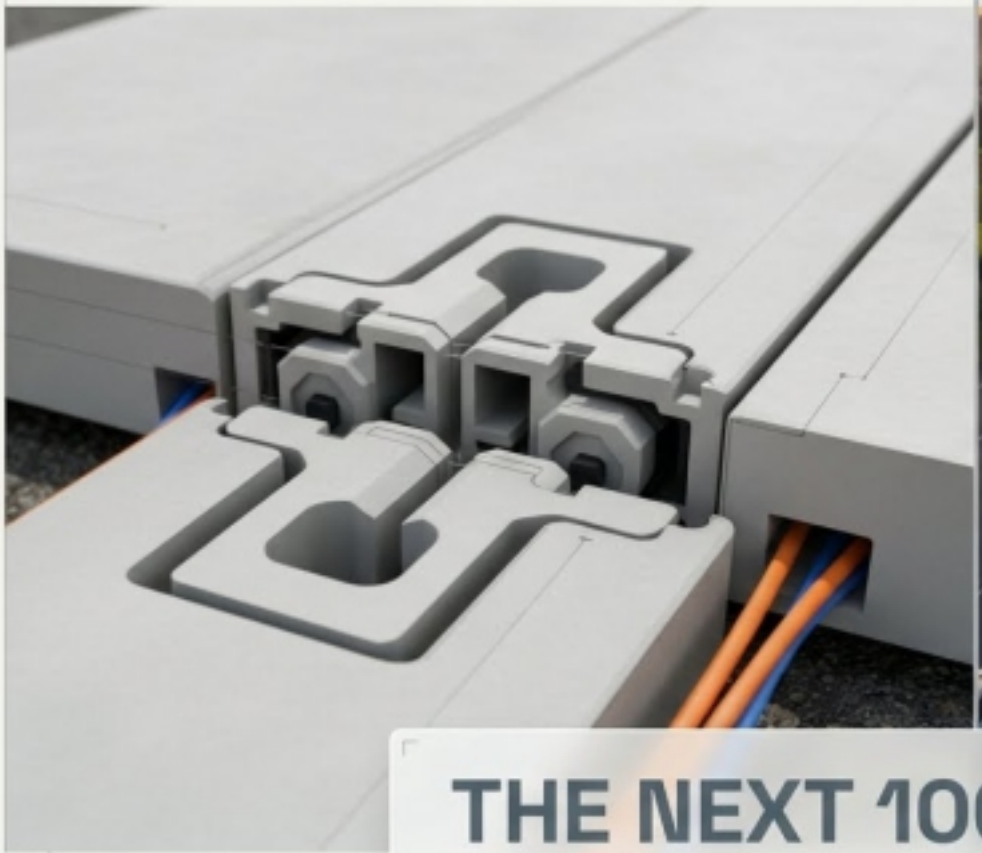


THE NEXT 100,000 MILES

System Diagnostics: Paradigm Shifts in
Sustainable Infrastructure Initiated.

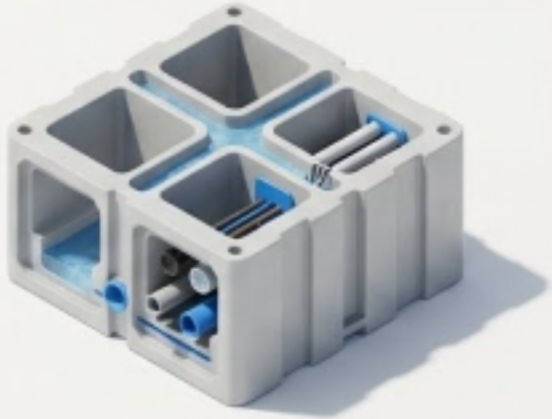
info@domistat.com

Two Technologies Driving One Global Mission

The Heavyweight

Font	Roboto Mono	Inter
Designation	Plastic-Bitumen Composite	
Material	Waste Plastic + Traditional Asphalt	
Application	High-volume, heavy traffic	
Objective	Hyper-scale deployment and structural endurance.	

The Smart Grid



Font	Roboto Mono	Inter
Designation	100% Modular Plastic	
Material	Fully Recycled Prefabricated Units	
Application	Urban mobility, utilities, water management	
Objective	Integrated smart-city infrastructure.	

Hyper-Scale Endurance for High-Volume Transport

Load Capacity: Tested and verified for High Volume & Heavy Truck Loads.

ECONOMIC IMPACT & LIFESPAN COMPARISON

Maintenance Costs:

Traditional Asphalt	High
Plastic Composite	~30% Reduction compared to traditional asphalt/concrete.

Lifespan Metric:

Traditional Asphalt	5-7 years before resurfacing required.
Plastic Composite	10-15 years before resurfacing required (vs. 5-7 years for traditional asphalt).

Repair Frequency:

Traditional Asphalt	Yearly patching and bi-annual crack repairs.
Plastic Composite	Significant reduction in yearly patching and bi-annual crack repairs.

Deployed at Nation-State Scale

75,000+ MILES

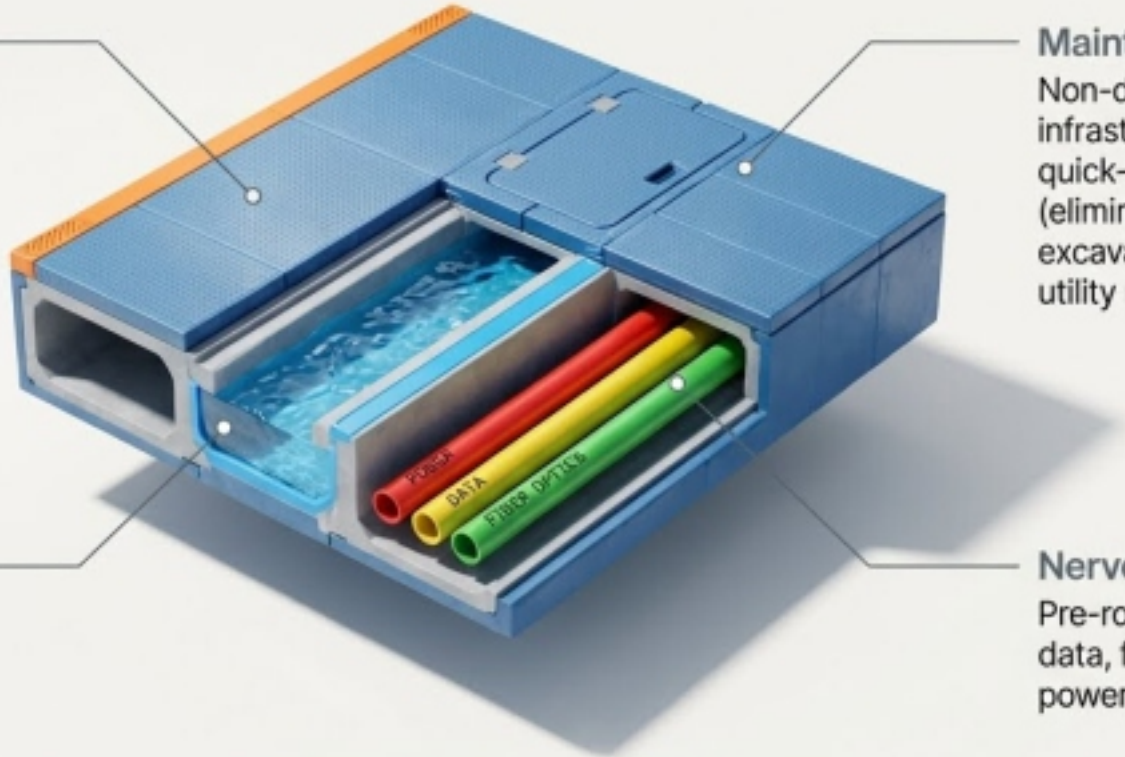
Material Input: Manufactured entirely from recycled drink bottles.

Operational Status: Fully active on mainline highways supporting high-speed vehicles and commercial freight trucks.

Strategic Takeaway: India has moved beyond pilot phases, proving the raw scalability of the composite paradigm.

Transforming the Road into a Smart Appliance

Material Substrate:
100% Recycled Prefabricated Plastic.



Maintenance Protocol:
Non-destructive infrastructure access via quick-access hatches (eliminating the need to excavate streets for utility repair).

The Hollow Core:
Integrated utility corridors replacing solid earth.

Nervous System:
Pre-routed channels for data, fiber optics, and power distribution.

Climate Resilience Built Directly into the Grid

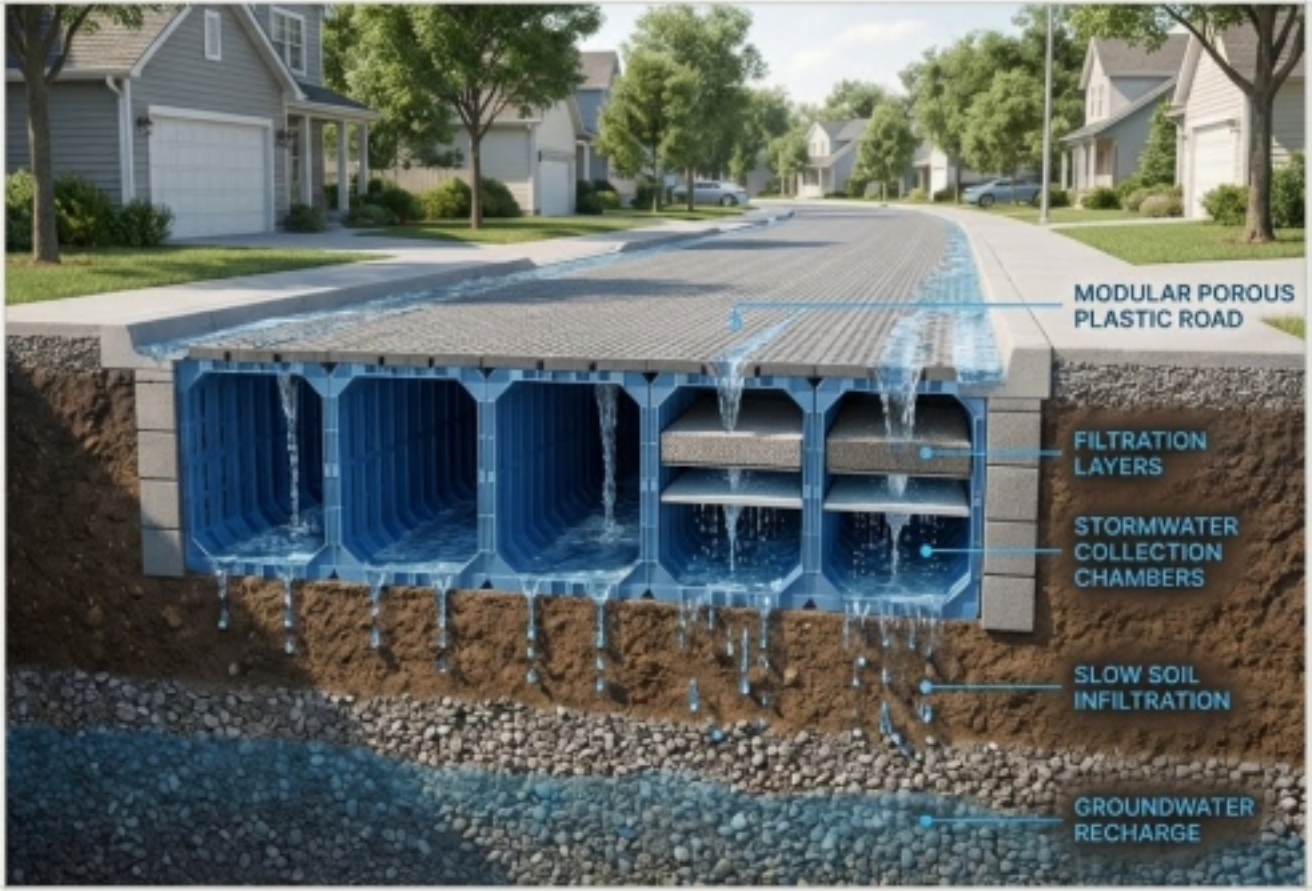
Research Initiative by
DOMISTAT

1. **Capture**
   Porous, permeable road surface instantly absorbs heavy rainfall, eliminating dangerous surface runoff.

2. **Storage**
   Massive hollow cavities within the modular blocks act as temporary stormwater collection chambers.

3. **Filtration**
   Integrated water layers filter out immediate roadway debris.

4. **Infiltration**
   Controlled, slow release of stored water into the underlying soil, actively recharging urban groundwater tables while preventing flash floods.



Surgical Urban Integration Without the Disruption

Primary Theater:
The Netherlands & UK.

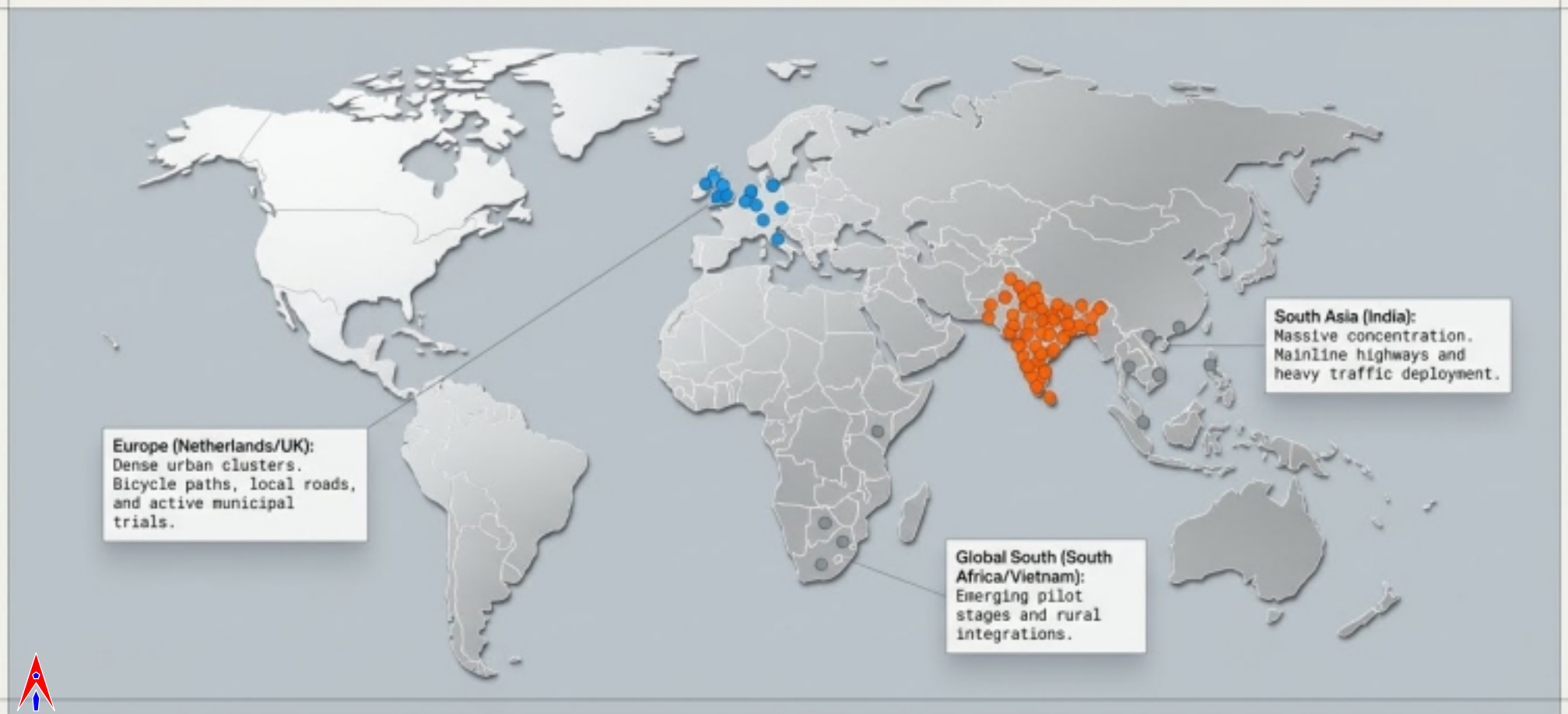
Target Applications:
Dedicated bicycle pathways, local urban streets, and active flood zones.

The Logistical Advantage:
"Lego-style" quick-connect installation severely reduces heavy machinery requirements, installation timelines, and disruption to active urban environments.

Diagnostic Comparison of Next-Generation Surfaces

Engineering Dimension	Plastic-Bitumen Composite	100% Modular Plastic
Material Engine	Waste Plastic + Conventional Asphalt	100% Prefabricated Recycled Plastic
Primary Load	Commercial Freight & High-Speed Traffic	Urban Mobility & Light/Medium Transit
Deployment Speed	Standard Paving Machinery Logistics	Rapid Quick-Connect (Low Machinery)
Utility Integration	Subterranean (Traditional Excavation)	Built-In Hollow Utility Corridors
Stormwater Strategy	Surface Runoff (Traditional Drainage)	Passive Permeable Storage & Infiltration
Global Vanguard	India (75,000+ Miles)	The Netherlands (Urban Networks)

Tracking Global Adoption & Strategic Deployment



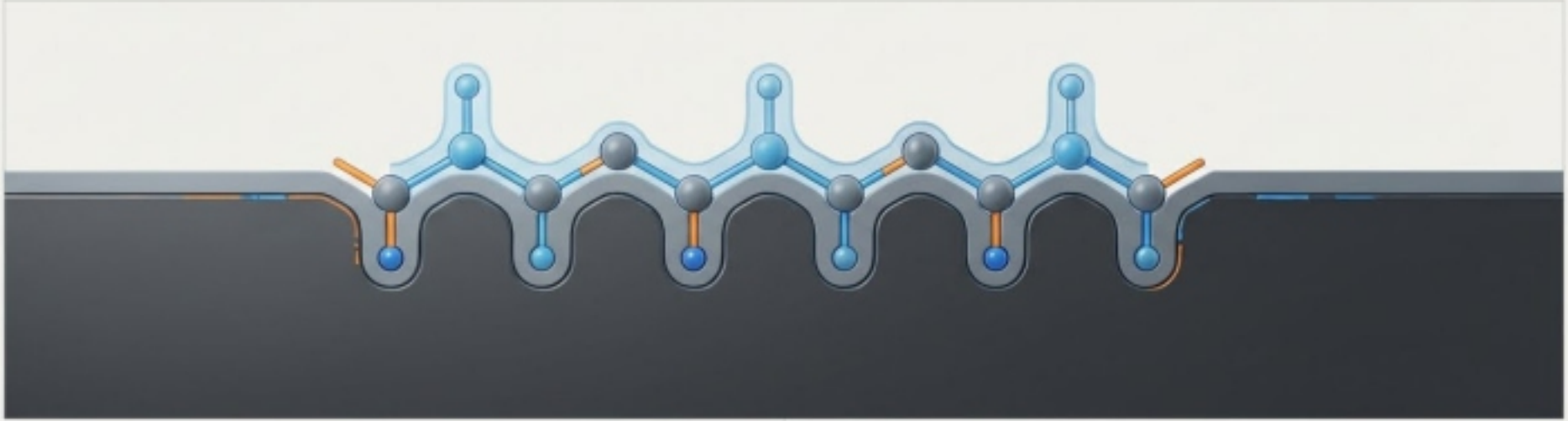
The Innovation Lag in the Largest Plastic Market

The Paradox: The United States remains one of the world's **largest consumers** of plastics, yielding massive domestic feedstock.

Current Status: Restricted to minor pilot programs (e.g., California).

Strategic Imperative: Lacking domestic scale, US engineering firms may require Joint Ventures with overseas pioneers to bridge the technology gap and deploy latest-generation systems.

Overcoming the Chemical Barrier to Entry



The Primary Concern:
Degradation of surface material leading to microplastic runoff into local ecosystems.

The Engineering Reality:
Next-generation refinement processes redesign the carbon chain of recycled PE plastic feedstock.

The Result: The creation of a highly functional, shorter carbon chain wax. This advanced wax melts instantly and integrates seamlessly with asphalt binders, entirely eliminating the physical fracturing that creates microplastic pieces.


The Foundational Layer of the Smart City
No single surface solves the modern urban crisis.
The Blueprint: Plastic-Bitumen composites for the heavy-freight arteries. 100% Modular smart-grids for the urban veins.
Status: The technology is mature. The feedstock is infinite. The deployment begins now.