

Powered by a U.S. Patented Climbing Architecture

AI-Powered Climbing Robots for Autonomous Infrastructure Maintenance

Replacing dangerous, manual inspections with autonomous climbing robotics.



wwRobots Canada Ltd.

The pain we're solving

	High Cost		Manual blade maintenance \$20k–\$50k per turbine
	High Risk		Thousands of technicians work at heights every day
	Low Efficiency		Complex security measures tight window of opportunity



Photo source: windeurope.org



Wind energy is growing fast. So is the need for a **safer, faster, and more cost-effective** way to maintain critical infrastructure.

Our Innovative Solution

Autonomous Robotics
for Infrastructure
Maintenance

Our patented climbing
robotics platform delivers
safe, efficient, and reliable
maintenance across
complex vertical surfaces.

One Platform. Complete Solutions.

-  Inspection
-  Cleaning
-  Maintenance
-  Repair
-  Digital Twin
-  AI
-  Remote Operation



Safer Operations

Reduce risk for
human workers



Higher Efficiency

Faster inspections
and maintenance



Lower Cost

Reduce downtime
and O&M expenses



Data-Driven Decisions

AI insights for smarter
asset management



Why We're Different

Engineered for Performance .
Built for Safety.

The Climbing Robot is an integrated climbing system equipped with advanced sensors and modular tool modules for different functions.

-  Patent
-  Obstacle Crossing
-  Modular Tools
-  AI Navigation
-  Ultra-light



Dynamic pneumatic leg extensions deliver an industry-leading **50–100mm obstacle straddling** limit.



Every suction cup is powered by an **independent vacuum generator**, guaranteeing uncompromising surface grip and ensuring human workers remain in a safe environment.

DESIRED OUTCOMES: ENHANCED EFFECTIVENESS.

FEATURE	BENEFIT	COMPETITIVE EDGE
 Autonomous Operation	Reduces human labor and enhances safety	Significantly improves safety outcomes
 360° Mobility	Adaptable to various environments	Agile responses to terrain

Defensible Technology



Granted U.S. Patent (US 12,534,143 B2)
2026-01-27

| CORE INNOVATIONS PROTECTED

- ✓ Sling-free autonomous climbing mechanism
- ✓ Dual-section mutual translation architecture
- ✓ Pneumatic obstacle-crossing system
- ✓ Modular tool interface for inspection, cleaning and maintenance

| COMMERCIAL ADVANTAGES

- ✓ Lightweight (<9 kg)
- ✓ Crosses obstacles up to 100 mm
- ✓ Adaptable to multiple vertical infrastructures
- ✓ Platform architecture for multiple industries

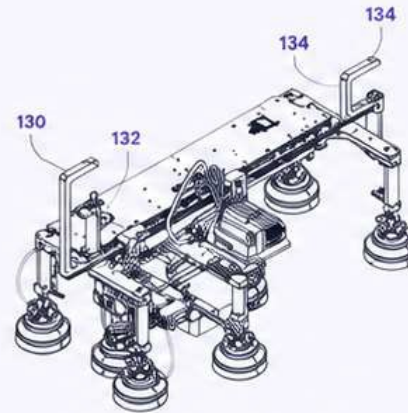


FIG. 7A

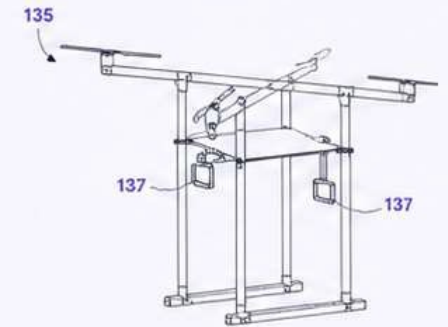


FIG. 7B



Safe

Eliminates sling risks and improves worker safety



Efficient

Reduces downtime and maintenance cost



Scalable

Designed to scale across assets and industries

High-Margin Asset Light Economics



The opportunity



	Wind Energy Blade inspection and maintenance for onshore & offshore wind farms	\$7.7B 2025 TAM
↓		
	Building Facade inspection, cleaning and maintenance	\$1.3B 2025 TAM
↓		
	Industrial Tanks, chimneys, bridges, ships, solar panels and more	\$30B+ 2025 TAM
↓		
	Infrastructure Platform Software, AI analytics and data platform across vertical infrastructure	\$46B+ 2025 TAM

**BEACHHEAD**

Wind Energy in North America

Entering through the wind industry
where the pain is urgent, the value is clear,
and our advantage is unmatched.



US PATENTED
Strong IP protection



LIGHTWEIGHT & MODULAR
Deploy easily, operate efficiently



AI-POWERED
Autonomous & data-driven

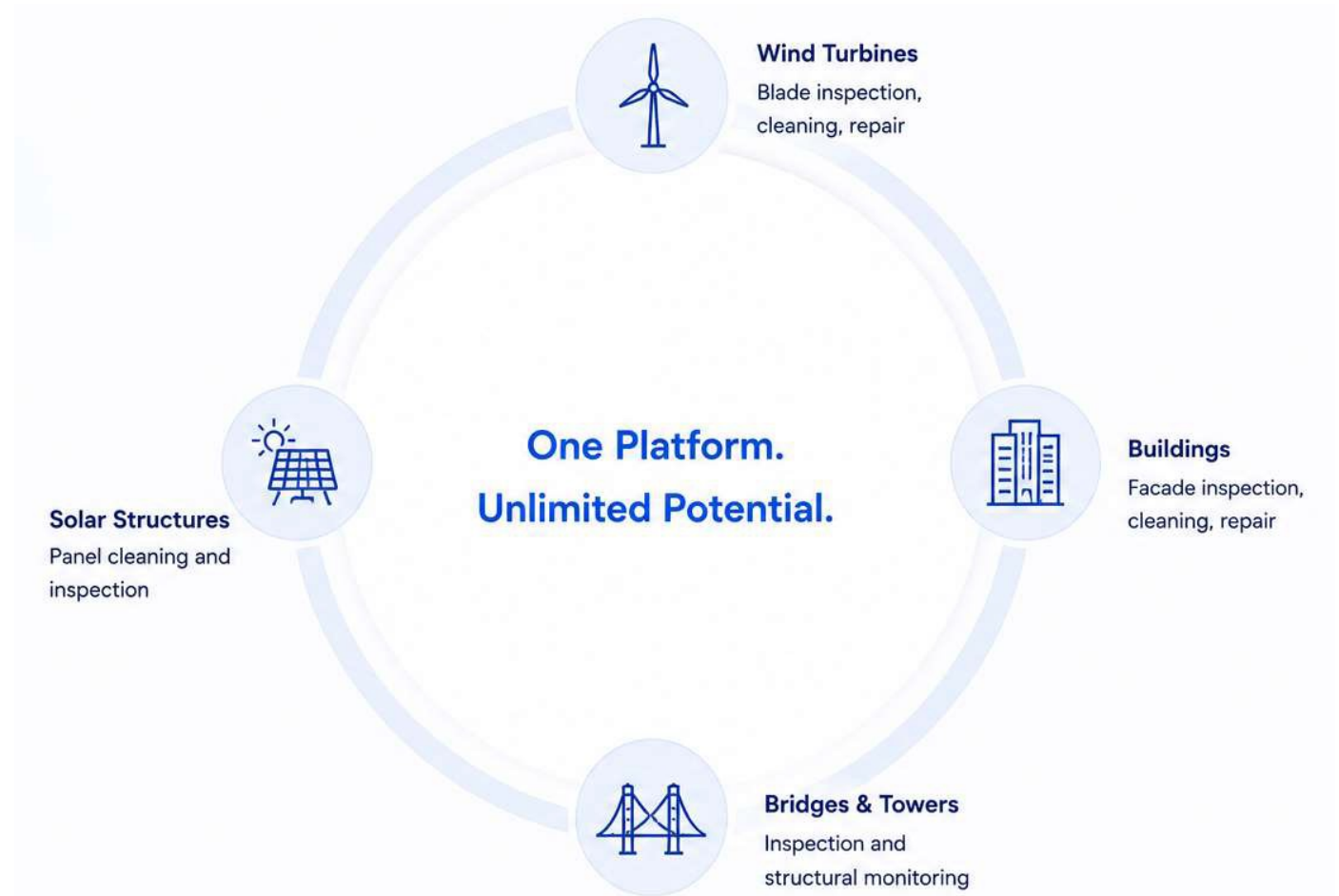


PROVEN TECHNOLOGY
Field tested on real infrastructure

VISION

**One robotics platform.
Multiple industries.
Global impact.**

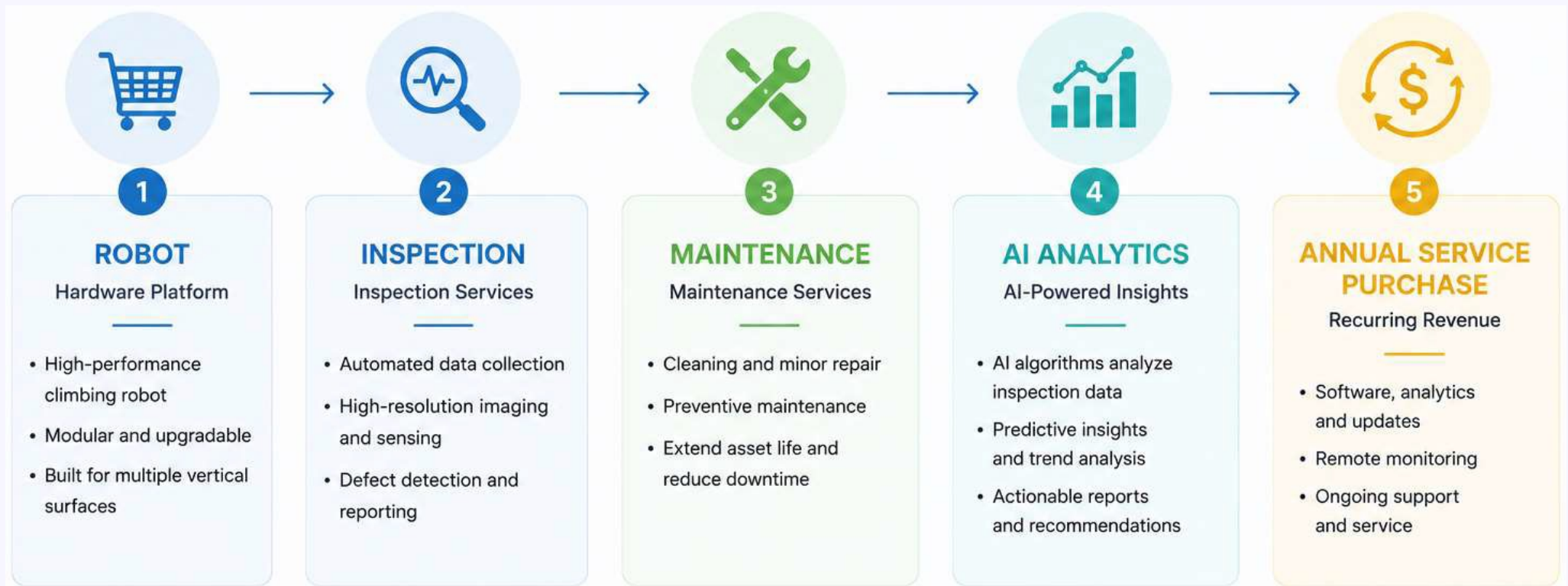
Our patented climbing robotics platform and modular tool ecosystem will transform how the world maintains critical infrastructure.



Building the world's leading autonomous infrastructure maintenance platform.

Safer. Smarter. More Efficient. Scalable Everywhere.

From Hardware to Recurring Revenue



 **RECURRING REVENUE DRIVES LONG-TERM VALUE**

 High gross margin  Predictable revenue  Strong customer retention

How we scale



TARGET CUSTOMERS

LM
 LM WIND POWER
 Leading blade manufacturer with global operations.

GE VERNOVA
 GE VERNOVA
 Global wind turbine leader with strong service network.

Vestas
 VESTAS
 World's largest wind turbine manufacturer and service provider.

SIEMENS Gamesa
 SIEMENS GAMESA
 Global technology leader with extensive installed base.

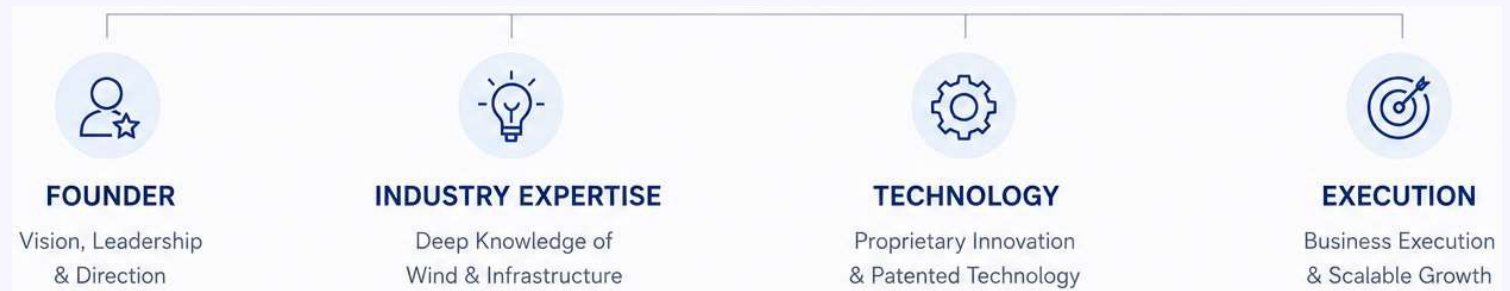


FOCUSING ON STRATEGIC PARTNERSHIPS AND LONG-TERM CUSTOMER SUCCESS

3-year plan

	 YEAR 1 Build & Validate Jul 2026 – Jun 2027	 YEAR 2 Commercialize & Grow Jul 2027 – Jun 2028	 YEAR 3 Scale & Expand Global Jul 2028 – Jun 2029
 FOCUS	Develop core technology and robotic tool modules. Validate value in real-world conditions.	Convert pilots to revenue. Expand partnerships and manufacturing. Drive sustainable growth.	Scale globally and establish industry leadership.
 MILESTONES	• Develop and integrate robotic tool modules • Complete system development and field testing • Launch pilot projects with early adopter customers • Secure key certifications and IP protection • Build core team and operations	• Convert pilots to paid deployments • Establish OEM partnerships • Expand manufacturing capabilities and supply chain • Strengthen service network and customer success	• Deploy at scale across global markets • Deepen strategic OEM integration • Enter new application areas and geographies • Build industry-leading brand and ecosystem
 KEY METRICS	 2–4 Robotic Tool Modules Developed  3–5 Pilot Projects  2 Patents Filed  Core Team Built (10+)	 \$5M+ Annual Recurring Revenue  10+ Paying Customers  100+ Units Deployed	 \$25M+ Annual Recurring Revenue  Global Presence (3+ Regions)  500+ Units Deployed
 OUTCOMES	Validated technology and tool modules, protected IP, and strong foundation.	Sustainable revenue growth, strong customer base, and scalable operations.	Global leader in automated wind turbine blade maintenance.

Why this team



Wei Wu

Founder

- Wind Industry
- Granted U.S. Patent
- Automation Design

Kai Wu

Business Development

- Manufacturing
- Sales
- Strategic Partnerships

Changyun Cai

Marketing

- Marketing
- Key Accounts
- Operations

TOGETHER COMBINING



ENGINEERING

Deep technical expertise and proprietary innovation



WIND INDUSTRY

Extensive industry knowledge and real-world experience



COMMERCIALIZATION

Market insights, customer focus and scalable business execution

Why now?

The time to act is now.

wwRobots is uniquely positioned to lead the transformation of infrastructure maintenance.

\$100B+

Infrastructure
maintenance
market

10X

Efficiency
potential with
robotics

Essential

For a safer,
more sustainable
future

The perfect convergence of technology, market and need.



Wind Farms Are Aging

A large installed base of wind turbines is entering high-maintenance years.

Operators need safer, more efficient solutions now.



AI & Robotics Are Ready

Breakthroughs in AI, sensors, and robotics enable fully autonomous inspection and maintenance at scale.

The technology is mature and proven.



Labor Shortages Are Worsening

Skilled technicians are scarce and costly, especially for dangerous high-altitude work.

Automation is no longer optional—it's essential.



Safety & Regulations Are Tightening

Safety standards and regulations are increasing worldwide.

Operators face growing pressure to reduce risk and improve compliance.

THE ASK

Let's build a category leader.

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Let's talk.

Thank you.

www.wwrobotsca.com

