

AVATHOR
ONE



Redesign the world?
Leave it to us.

 AVATHOR
RE-DESIGN A MORE INCLUSIVE WORLD



Welcome to  AVATHOR, where **technology, design, and innovation** come together to revolutionize mobility and make the world **more inclusive**. We believe that **everyone** should have the **freedom to move without obstacles**, which is why we develop **advanced solutions** to improve **accessibility and quality of life**. Our goal is to transform the idea of inclusive mobility into a **concrete reality**, using **cutting-edge technologies** and **strategic collaborations** with industry leaders.



AVATHOR ONE



| From Concept To Reality

From **idea to the streets**, the journey was ambitious but necessary. Thanks to our collaboration with **Italdesign**, we turned an **innovation** into a **concrete solution**: **AVATHOR ONE** is now a reality, ready to **revolutionize urban mobility**. A **new vision** of mobility, where **independence, technology, and sustainability** come together to create a **more accessible future for everyone**, improving **quality of life** and providing a barrier-free transportation experience.

| Rethinking **Mobility** to make it truly inclusive

Avathor S.r.l. was founded on **January 26, 2024**, with a clear mission: **to break mobility barriers** through advanced and accessible technological solutions. We believe that everyone has the right to **move independently**, without obstacles or limitations. That's why

we develop **innovative projects** aimed at genuinely improving the lives of people with disabilities or mobility challenges.

Technology should not only evolve, it must do so for the benefit of all.



| Our first step

Every revolution starts with an idea. Ours is **AVATHOR ONE**, an innovative electric vehicle born from **Italdesign Giugiaro's 2019 WheeM-i** concept, a finalist in the Mobility Unlimited Challenge by the Toyota Mobility Foundation and

winner of the **Green Concept Award 2021**. In **May 2023**, our founder, **Gino Mancin**, signed an exclusive agreement with Italdesign to refine WheeM-i and turn it into a concrete product, **ready to improve the lives of thousands.**

| Potential Market

The accessible mobility market is growing rapidly, with increasing **demand for innovative solutions for people with motor disabilities**. Some of the key sectors for **AVATHOR ONE** include:

Hotel & Resort

For over one billion people with disabilities, traveling can be a challenge. The ISO standard 21902 was introduced to promote accessible tourism, creating opportunities for hotels and resorts to comply with inclusivity standards, making this a highly promising sector for AVATHOR ONE.

Airports

International regulations require free assistance for passengers with reduced mobility, but facilities often struggle to ensure efficient service. AVATHOR ONE can enhance passenger autonomy while optimizing operational costs for airport management companies.



Train Stations

The railway sector is investing millions to improve accessibility. The “hub station” project in many countries’ infrastructure investments represents present significant opportunities for the adoption of AVATHOR ONE.

Shopping Malls & Retail

AVATHOR ONE can provide an effective solution to enhance accessibility in commercial environments where removing architectural barriers can be complex or costly.

Other Potential Markets

Beyond hotels, airports, train stations, and shopping malls, AVATHOR ONE is also suitable for:

- ✧ Exhibition areas and fairsgrounds
- ✧ Museums
- ✧ Hospitals
- ✧ Stadiums and sports facilities
- ✧ Sports and music events
- ✧ Municipalities
- ✧ Public institutions
- ✧ Hospitality structures

The adoption of solutions like AVATHOR ONE not only improves quality of life for people with disabilities but also **helps facilities to comply with accessibility regulations, to expand their customer base, and to generate new business opportunities.**

AVATHOR

OUR VALUES

Innovation



We redefine the concept of **inclusive mobility**. From **joystick-based controls** to **smart solutions**, every element is designed to **ensure safety, autonomy, and connectivity**.

Thanks to **advanced technologies** like **geo-fencing** and **IoT** management, AVATHOR ONE becomes a true daily companion, anticipating needs and enhancing the **travel** experience.

Design



We **create products** that are not just useful, but also **beautiful to see and to experience**. And we do this with a universal language that conveys **freedom, dignity, and innovation**.

Because **lines, curves, and details** are designed to meet people's needs, breaking both **physical and cultural barriers**.

Italian Identity



Innovation meets the beauty of **Italian design**. Every detail expresses a balance between **aesthetics** and **functionality**, making AVATHOR ONE **iconic** and cutting-edge. From **ergonomic** design to **smart solutions**, we merge creativity and **engineering** to provide an **intuitive, safe, and connected** experience.

For us, beauty is not just about style, but a value that embodies **Italian identity**, where design becomes innovation at the service of people.

Inclusivity



We believe in a world **accessible** to all, where everyone can move with **dignity and independence**.

AVATHOR ONE is synonymous with inclusivity because it **breaks barriers**, restores **freedom**, and creates a more **equitable** society, without physical or social boundaries.

Innovation, design, Italian identity, and inclusivity are at the core of everything we do. We combine **technology and beauty, functionality and identity**, to create **cutting-edge solutions** that **enhance people's lives** and **make the future more accessible, connected, and sustainable**.





AVATHOR ONE

| FEATURES

Every detail is designed to provide an **intuitive, safe, and cutting-edge experience**. A compact design, smart functionalities, and innovative solutions come together to ensure **practicality, comfort, and maximum accessibility**.

Compact dimensions

Lightweight and compact structure:

Vehicle	Weight	160 kg
Dimensions	Wheelbase	960 mm
	Front track	825
	Rear track	890
	Max length	1486 mm
	Max width	979 mm
	Max height	1326 mm
	Min floor clearance	146 mm (empty) 126 mm (full load)
	Front wheel Ø	380 mm
	Rear wheel Ø	180 mm



Front luggage compartment

A dedicated space for carry-on luggage or backpacks (max. overhead cabin baggage size), equipped with a retention strap for added security

Customizable vehicle activation

Three different start-up modes:

- ⚡ Remote control
- ⚡ Key switch
- ⚡ Remote fleet management software control (optional telematics control unit upon request)

Ramp remote control

Allows users to lower and close the ramp externally for enhanced convenience.



Omniwheel and pivoting wheels

Omniwheel technology ensures fluid and precise omnidirectional movement, enhancing manoeuvrability in confined spaces such as elevators. Thanks to pivoting wheels, direction changes are agile and immediate, allowing seamless navigation across different urban terrains, from asphalt and stone pavement to concrete and dirt roads.



All-in-one LED lighting system

Advanced lighting for greater visibility and safety:

Front: position lights, low beams, turn indicators

Rear: position lights, turn indicators



Smart turn indicators

Automatic activation
when the joystick is in
a side-turn position.



COLOUR & TRIM

Style and innovation come together in AVATHOR ONE.

Our Colour & Trim selection offers a range of finishes designed to enhance both aesthetics and functionality.



solid color

E M E R A L D



solid color (optional)

S K Y B L U E



metallic color (optional)

C H A M P A G N E

From sleek, modern tones to vibrant and distinctive shades, **each variant is designed to suit different environments and best reflect the personality of its owner.**



solid color (optional)

B	L	A	C	K
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solid color (optional)

L	I	M	E
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solid color (optional)


O	R	A	N	G	E
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| TECHNOLOGY & PERFORMANCE

Every function is designed to offer an **intuitive user experience, advanced connectivity, and reliable performance**. From the smart driving system to remote management, technology and innovation work together to ensure safety, efficiency, and maximum practicality.

A close-up photograph of a vehicle's control interface. It features a black joystick with a textured grip, positioned next to two rectangular buttons. The left button has a white icon of a hand with fingers spread, and the right button has a white icon of a steering wheel with a circular arrow. A red indicator light is visible on the left side of the joystick assembly.

Interactive user display

Intuitive interface for simple and immediate vehicle function management.

Joystick driving system

Ergonomic and adjustable control for a personalized driving experience

Geo-fencing system

Usage area limitation for enhanced safety and operational control.

Range & Speed

- ⚡ Minimum range: 50 km
- ⚡ Maximum speed electronically limited to 10 km/h for regulatory compliance (adjustable upon request – only for reduction).

Automotive-derived E-Power

Advanced technology for maximum energy efficiency and optimal performance.

Smart charging with standard 220V plug

Built-in power cable for practical charging anywhere with an available electrical outlet.

Telematics control unit with SIM card (optional)

Connection to fleet management software for:

- ⚡ **Vehicle lock/unlock**
- ⚡ **User assignment**
- ⚡ **Real-time geolocation**
- ⚡ **Geo-fencing**
- ⚡ **Reservations and fleet management**
(Available in “open” version for integration with proprietary software or a dedicated platform via monthly subscription).





| SAFETY

Safety is at the core of every detail. Advanced sensors, smart systems, and emergency devices provide **active and passive protection**, ensuring a secure and worry-free experience.



Anti-collision and pedestrian detection radar sensors

Active obstacle and pedestrian detection system with automatic warning and prevention.

Intelligent lighting

- ⚠ Front position lights always on while driving
- ⚠ User-activated low beams
- ⚠ Automatic turn indicators activated based on joystick position
- ⚠ Acoustic warning system



Maximum stability on slopes up to 20%

Optimized structure for safe and controlled slope navigation.



Advanced safety sensors

Obstacle and step height detection for safer driving with reduced risk.

Emergency button

Immediate stop function in case of necessity, ensuring instant protection.





| EXTRAS & COMPLIANCE

AVATHOR ONE is designed to ensure **excellent performance**, **accessibility**, and **safety**, meeting all regulatory and quality standards.



Plug & Play: a revolutionary system

Just get on and go: access is facilitated by a **lowered platform** that adapts to the needs of people with reduced mobility, ensuring a **smooth and safe entry**. The **intuitive design** and **smart features** provide a **simple and seamless user experience**.

Easy access

Lowerable platform and vehicle floor designed for easy entry, ideal for wheelchair users or individuals with reduced mobility.

Customizable platform

⚠ **Rear platform with integrated seat:** for combined use (both for wheelchair users and those with reduced mobility).

⚠ **Platform without integrated seat:** for exclusive wheelchair use.

No driver's license required

The vehicle can be used without a driving license, making mobility more accessible for everyone.

Free circulation in pedestrian areas

The vehicle is authorized to freely circulate in pedestrian areas, sidewalks, and streets without sidewalks.

Certifications

△ CE Marking

△ Class I medical device, compliant with EU Regulation 2017/745, version 10/01/2025.

Patent Pending

△ Industrial patent application No.102024000002746 filed on 09/02/2024, with favourable research report received on

04/09/2024 from the Ministry of Enterprises and Made in Italy – Department of Market and Intellectual Property Protection.

△ International PCT Patent Extension No.PCT/IB2025/051372 filed on 10/02/2025.

△ Industrial invention patent application No. 102025000002517 filed on 10/02/2025 (awaiting research report from the Ministry of Enterprises and Made in Italy).

△ International Model Registration No. DM/23547 filed on 16/02/2024 for China, European Union, United Kingdom, United States, with Japanese extension No. 2024-015568 filed on 29/07/2024.





Some believe

the world can be redesigned.

Some think it's not a utopia.

Some say it's not just necessary but possible.



We are Avathor.

We believe the world can truly be inclusive and accessible to everyone. This is why we develop ideas and innovative technologies that combine beauty, functionality, and accessibility.

At Avathor, we believe in a world where everyone has the right to live an independent and fulfilling life.

That's why today

we design and develop

products and services that support
and enhance the quality of life for everyone.

| Vision

Our vision is to create a world where every individual, regardless of age, gender, abilities, or conditions, can **live fully** and freely access urban spaces and services with **dignity** and **freedom**.

We aspire to build a more inclusive society, where everyone can express their **full potential** in an environment that respects their rights and ensures equal opportunities. Access to public places and resources should not be a privilege, but a **universal right**. Every space should be designed to welcome and enhance diversity, overcoming physical, mental, and cultural barriers.

| Mission

Our mission is to design, develop, and create **innovative** solutions that allow everyone, including people with disabilities, to live an **autonomous, independent,** and **fulfilling life**, without feeling limited.

We desire urban and architectural spaces to be transformed into **friendly, accessible,** and **inclusive** environments, where every individual, without distinction, feels part of a community that supports and respects them. We design solutions allowing free movement, respecting each person's specific needs, and contributing to making cities places of encounter and **active participation for all.**





| TEAM

Our team consists of **experts** from various sectors, each with extensive **entrepreneurial experience** and a **strong commitment** to **innovation, sustainability, and excellence**.

Thanks to **combined expertise** in **sustainable mobility, renewable energy, industrial design, advanced engineering, production, and digital transformation**, we can face future challenges with a shared vision:

developing solutions that have a positive impact not only on mobility but on all aspects of daily life.

We aim to enhance accessibility, efficiency, and sustainability across multiple areas, creating **integrated ecosystems** that foster a future that is more **inclusive, technologically advanced, and environmentally responsible**.

Each team member brings unique value, allowing us to build an ambitious project that seeks **to transform the world we live in** and address global challenges with concrete and innovative solutions.

Mancin S.S. Founder

The **Mancin** family has been a key player in the **electric mobility** market for years through **MRO**.

With a pioneering commitment, they have collaborated with Italy's top industry leaders, establishing themselves as a strategic business development partner for **Italdesign**. MRO provides **industrial consulting services in international markets**, contributing to sustainable growth in the sector.

Ubroker S.p.A. Co-Founder

Ubroker S.p.A. is an **innovative** provider of electricity and gas, operating throughout Italy for both private and business clients.

The company stands out for its focus on **energy savings** and **efficiency**, offering **competitive solutions** and an **innovative business model**. With a sustainability-driven approach, Ubroker has become a **benchmark** in the energy sector.

Ermanno Silvano Co-Founder

Until 2018, **Ermanno Silvano** was **President** and **CEO** of **FAST.LOC S.p.A.**, founded in 1965 and specialized in the production and marketing of **mechanical fastening systems** and **machined parts** for the **automotive**, **railway**, and **aerospace industries**. After selling the company in **2018**, he embarked on a new entrepreneurial journey, bringing his **industrial sector experience** into this project.

Regitec Group S.r.l. Co-Founder

With decades of experience in **automotive engineering**, through Mecaprom Engineering and Regis Motors, it develops and manufactures electric vehicles for commercial use and light commercial vehicles for professional applications. These vehicles feature customizable configurations and meet the highest **standards of safety**, sustainability, quality, and innovation, embodying the **excellence of Made in Italy**.



| WHAT WE DO

We design and develop **cutting-edge products and services** to **improve everyone's quality of life**, with a special focus on **people with mobility challenges**. Our solutions combine **technology, design, and functionality** to ensure **freedom of movement and independence**.

| How do we do it?

By merging **engineering**, **design**, and **advanced technology**, we create tools that redefine accessibility. Each product is the result of extensive research and development, in collaboration with **industry experts** and **top-tier partners**. We work to overcome the limitations imposed by traditional urban planning and mobility systems.

| Why?

Because **inclusion is the future**.

We envision a world where **every person**, regardless of **ability**, can **live without obstacles and with equal opportunities**. The right to an **autonomous and fulfilling life** should not be a **privilege**, it should be a **universal reality**.







| ACCESSIBILITY

Accessibility is not just about mobility; it represents the ability for every individual to **fully interact with the world around them**. It means having barrier-free access to **physical spaces, digital tools, technologies, and essential services**, enabling equal and complete inclusion in society. An accessible environment ensures that all people, regardless of their motor, sensory, or cognitive abilities, can live **autonomously, safely, and with dignity**.

| Current Challenges

Today, over **72 million people** worldwide live with a **total lower limb disability**, while many others experience mobility, sensory, or cognitive limitations that make it difficult to access public spaces, transportation, digital services, education, and job opportunities. **Infrastructure and technology** are often not designed to meet everyone's needs, creating **barriers that reduce autonomy and limit active participation in society**.

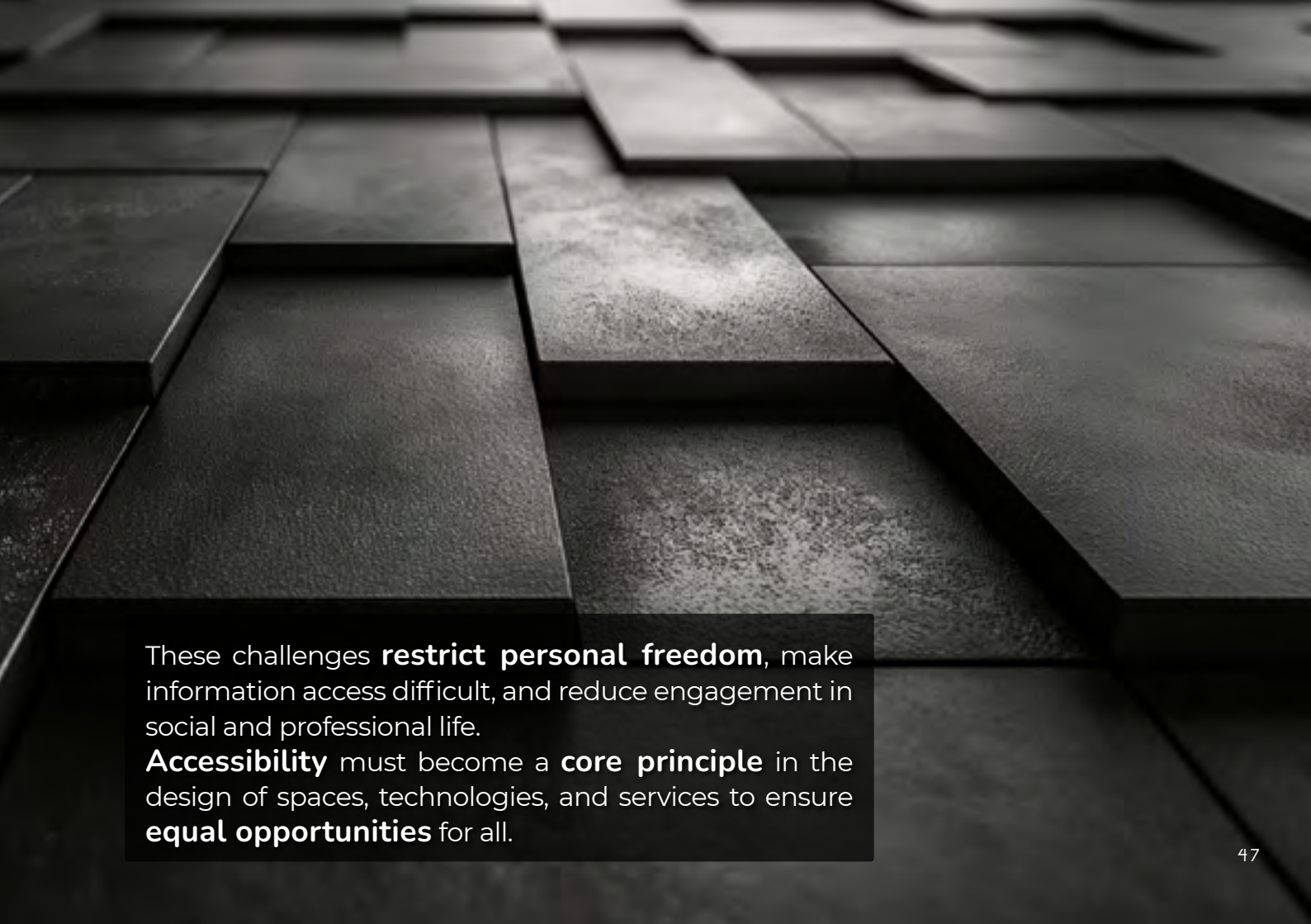
Key Barriers Include:

⚠ **Limited access** to public and private buildings, with inadequate entryways or lack of accessible pathways.

⚠ **Reduced educational and job opportunities** due to a lack of tools and environments that support full participation.

⚠ **Non-inclusive digital services**, with websites and applications that are difficult to navigate for individuals with visual or cognitive impairments.

⚠ **Non-adapted transportation systems**, preventing autonomous travel without assistance.

The background of the slide is an abstract, high-contrast black and white image. It features a series of dark, rectangular blocks or tiles that are arranged in a staggered, overlapping pattern, creating a sense of depth and geometric complexity. The lighting highlights the edges and surfaces of the blocks, giving them a three-dimensional appearance.


These challenges **restrict personal freedom**, make information access difficult, and reduce engagement in social and professional life.


Accessibility must become a **core principle** in the design of spaces, technologies, and services to ensure **equal opportunities** for all.


| Our Commitment

At  AVATHOR, we believe that technology and innovation should be tools to **make the world more accessible** in all aspects of daily life. Our commitment goes beyond mobility, we focus on **all areas where accessibility can make a difference**.

We are dedicated to developing advanced solutions that improve people's lives, removing barriers in **urban environments, digital services, communication, and everyday interactions**. Through innovative projects like **AVATHOR ONE**, we offer a vision of barrier-free mobility, but our ambition extends further:

 **Creating accessible technologies that allow everyone to interact with digital and physical tools in an intuitive and inclusive way.**

 **Promoting smart spaces, where architecture and design ensure full usability for all.**

 **Encouraging social and professional inclusion, with solutions that make workplaces and education more equitable.**



We collaborate with **experts in design, engineering, accessibility, and assistive technologies** to develop **products and services that meet real-world needs**. Accessibility should not be a luxury or an exception; it must be a guaranteed right for all. With our commitment, we aim to build **a fairer, more inclusive, and barrier-free future in every aspect of life.**



| PARTNERS & COLLABORATIONS

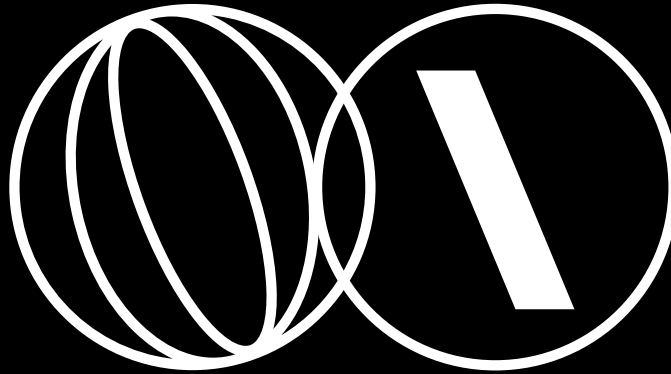
To bring AVATHOR ONE to excellence in **design, development, and communication**, Avathor has established **strategic collaborations** with **prestigious international partners**. Thanks to the expertise of leading companies in their respective fields, the project has evolved from a concept phase to a fully realized solution, with a **strong identity** and **distinct market positioning**.



| Design & Product Development

A **reference point in the automotive industry** for nearly **60 years**, Italdesign designs, develops, and delivers **cutting-edge solutions** for **mobility and various industrial sectors worldwide**. The company offers **vertical and integrated services** to **established and emerging clients**. For **AVATHOR ONE**, Italdesign provided its expertise in **design & product development**, guiding the project **from concept to production**.





TBWA \ The
Disruption
Company®

| Marketing & Communications

TBWA, The Disruption Company®, supported **Avathor** through **revolutionary branding strategies** and **communication campaigns** based on their proprietary **Disruption® methodology**. Thanks to their **innovative vision**, Avathor has been able to **stand out in the market** with a **strong identity and impactful communication strategy**.

AVATHOR ONE





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