Sustainable Tech for a Better World

Metaverse, AI, Web3

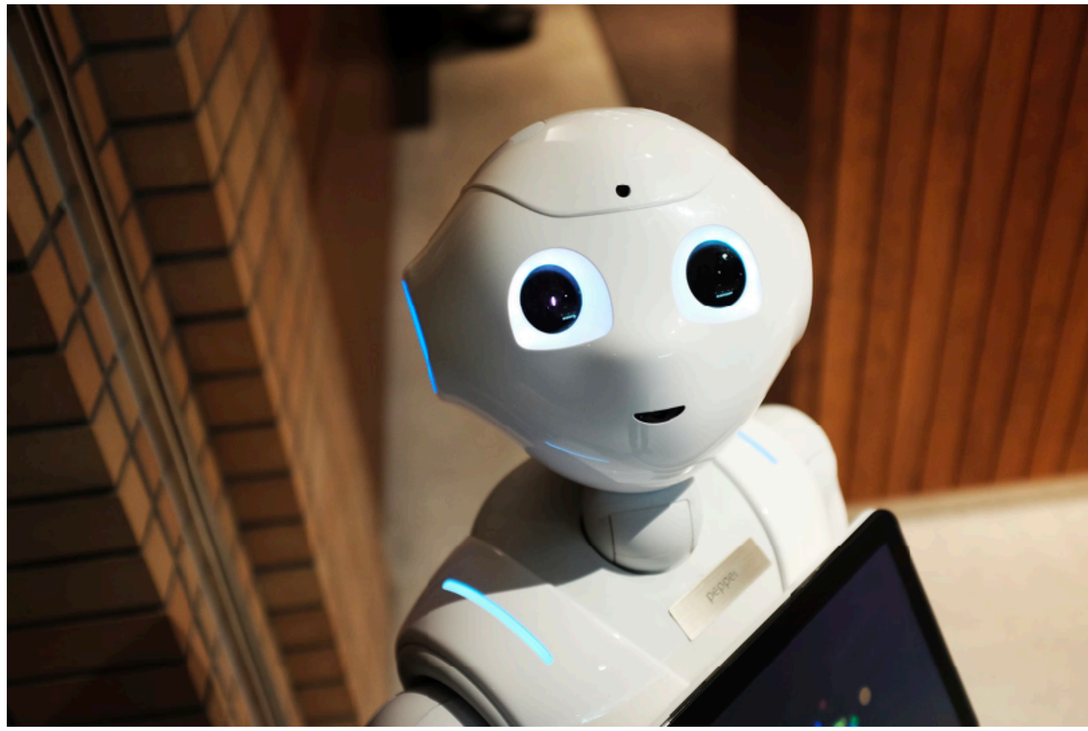
Illia Pashkov 2023

ALTAR.IS

The Future of Technology

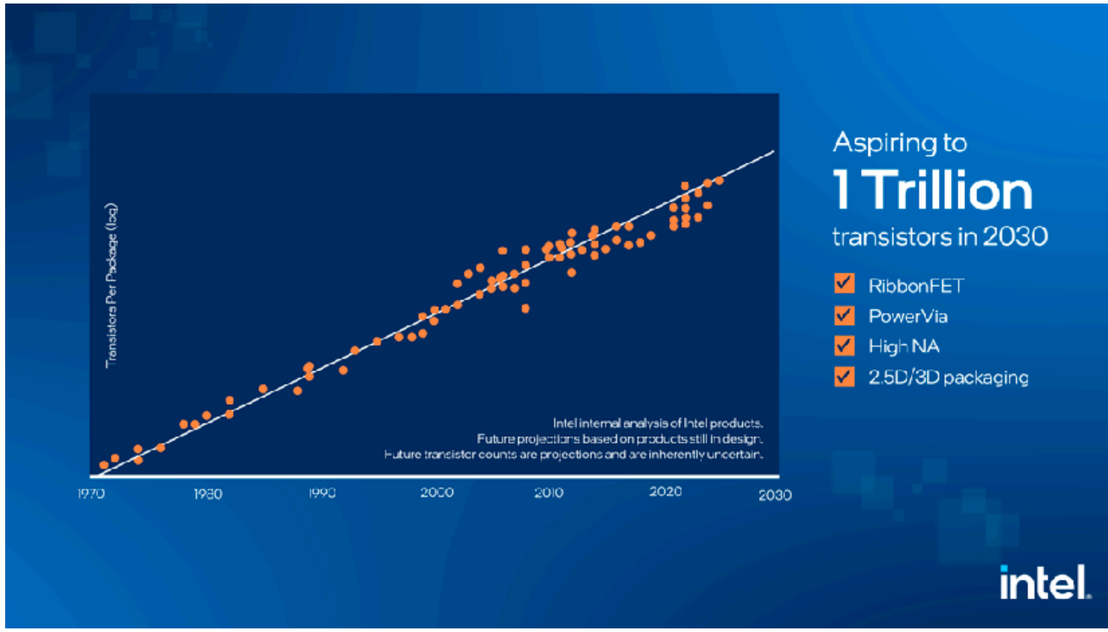
The future of technology is an inspiring and rapidly evolving landscape marked by exponential growth and transformative innovations.

As we look ahead, several emerging technologies stand out as particularly promising, including **artificial intelligence**, **blockchain**, and the **metaverse**.



Exponential Growth of Technology

Technological growth, driven by Moore's Law, results in exponential computing power increases, leading to societal changes in healthcare, education, the economy, and work.,



The number of transistors on a microchip doubles approximately every two years

The Emergence of AI, Blockchain, and the Metaverse

AI, a rapidly advancing field in computer science, enables intelligent machines to learn, solve problems, and make decisions. Critical AI applications include autonomous vehicles, virtual assistants, and medical diagnostics.

Blockchain, a decentralized ledger technology, enables secure and transparent transactions without intermediaries. Its applications extend beyond cryptocurrencies to supply chain management, voting systems, and identity verification.

The Metaverse, a shared virtual space merging physical and digital realities, offers an immersive, interactive environment for gaming, socializing, business, and education, transforming our interactions and experiences.

Climate change

AI has the vast potential to address some of the world's most pressing problems, such as climate change, poverty, and disease. AI can play a critical role in addressing climate change by analyzing vast amounts of data to predict and manage the impacts of extreme weather events, optimizing energy consumption, and reducing greenhouse gas emissions. Machine learning algorithms can also help design more energy-efficient buildings, optimize transportation systems, and develop new carbon capture and storage materials.

Renewable Energy Integration

AI can support the integration of renewable energy sources into the grid by forecasting energy demand and supply, optimizing energy storage, and managing power distribution. These capabilities can help maximize the use of renewable energy, reduce reliance on fossil fuels, and improve the overall stability and resilience of the power grid.

Precision Agriculture

AI can revolutionize agriculture by incorporating advanced data analytics, sensors, and machine learning algorithms to optimize crop yields, minimize resource waste, and reduce the environmental impact of farming practices. AI-powered solutions can predict weather patterns, monitor soil conditions, and suggest tailored interventions to maximize productivity and sustainability.

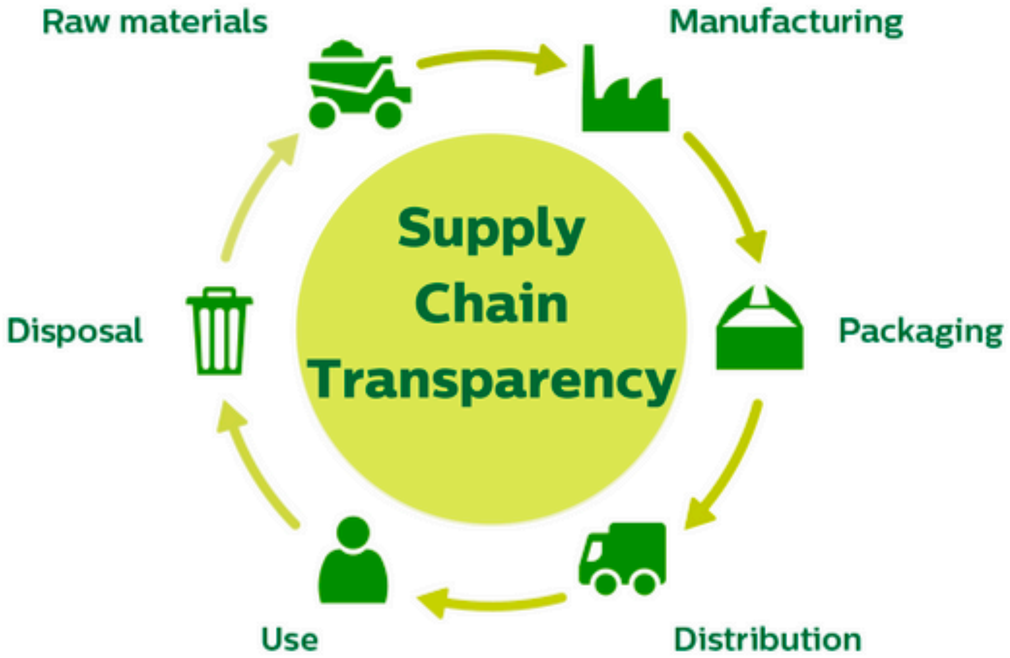
Ecosystem Monitoring and Conservation

AI-powered image recognition and remote sensing technology can assist in monitoring and conserving ecosystems, endangered species, and habitats. By analyzing satellite images and other data, AI systems can track deforestation, identify illegal fishing activities, and monitor wildlife populations, enabling more effective and timely conservation efforts.

Supply Chain Transparency, Circular Economy and Waste Management

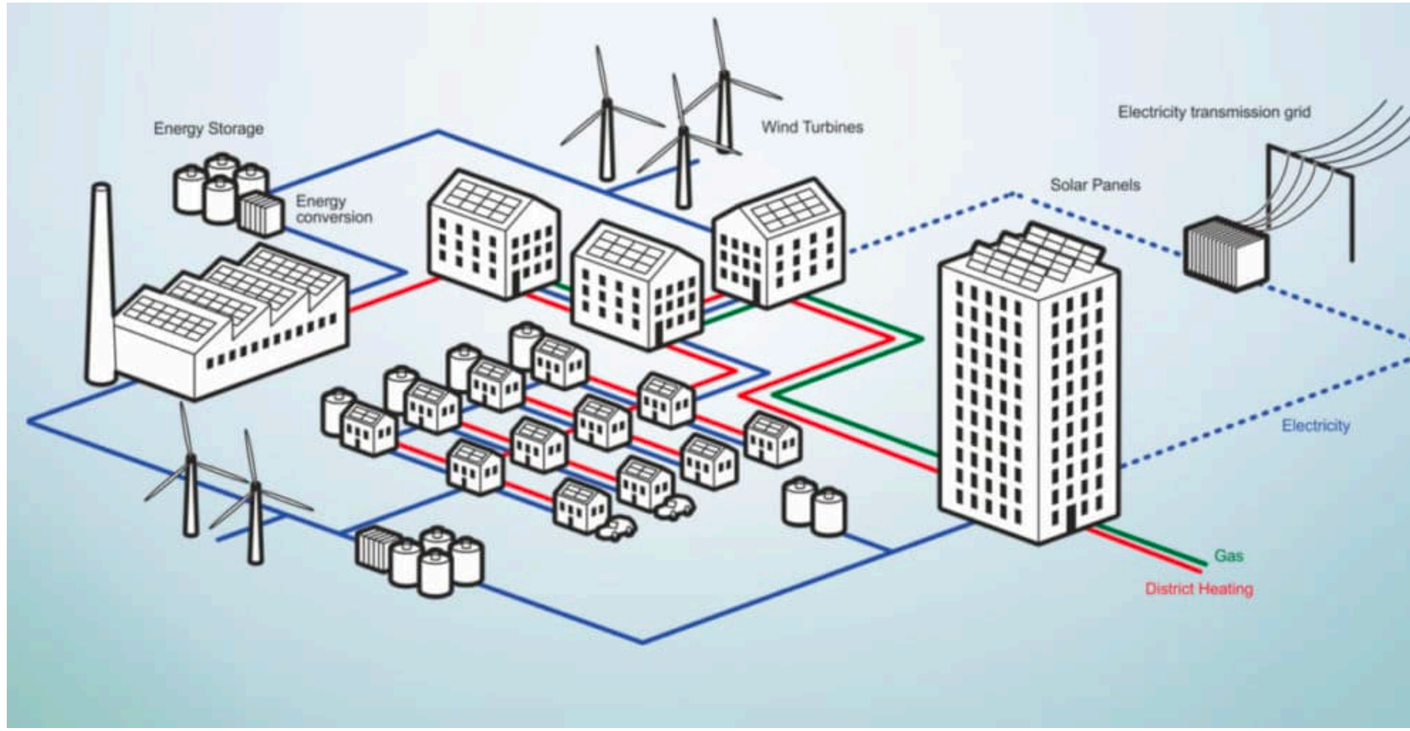
Using blockchain technology to create transparent and traceable supply chains, we can ensure that products are ethically sourced, and their environmental impact is minimized. This empowers consumers to make more sustainable choices and incentivizes businesses to adopt environmentally-friendly practices.

Blockchain can support the circular economy and waste management. By tracking the lifecycle of materials and products, blockchain can enable better resource recovery, recycling, and up-cycling, ultimately reducing waste and promoting more sustainable consumption patterns.



Blockchain for Decentralized Energy Systems

Blockchain supports decentralized energy systems through peer-to-peer trading, reducing waste and costs, while also enabling transparent climate finance for low-carbon technologies and effective fund allocation.



The Metaverse for Global Collaboration

The metaverse fosters global collaboration, connecting diverse individuals for idea-sharing and faster advancements while also facilitating education on sustainability and addressing challenges like climate change.

Simulation and Modeling

The metaverse can also serve as a platform for simulating and modeling complex systems, such as energy grids or ecosystems. This can help researchers and policymakers better understand the potential impacts of various interventions, ultimately leading to more effective and sustainable decision-making.

The transformative potential of emerging technologies, such as AI, blockchain, and the metaverse, can be harnessed to address some of the world's most pressing problems. By focusing on impact, sustainability, renewable energy, etc., we can leverage these technologies to create a more resilient and sustainable global society.

The metaverse, AI, and blockchain technologies consume significant energy and contribute to carbon emissions.

Solutions

- Using energy-efficient processors and networks designed explicitly for metaverse use
- Using graphic cards and CPUs that operate on renewable energy sources
- Building green crypto mining protocols
- Developing virtual reality experiences that educate users on sustainable and eco-friendly practices
- Integrating blockchain technology with the metaverse to ensure transparency and accountability in sustainable initiatives

Products

Wallet with location based NFTs +XR

Altar wallet is a tool for accessing the web 3.0 economy, but we have also integrated the location-based NFTs for you to experience through XR technology.

Marketplace of physical goods and services linked to NFTs.

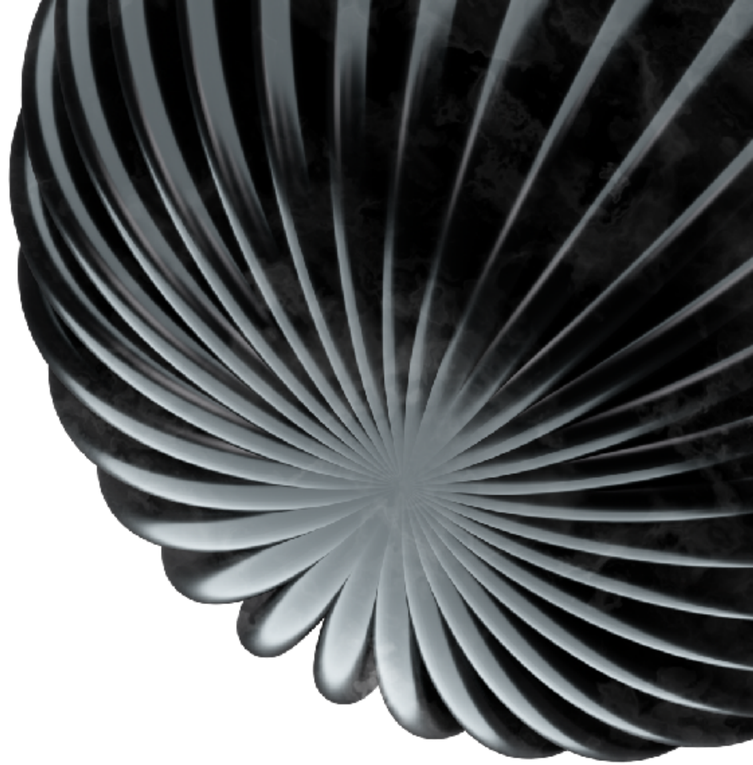
Products

Altar Card

Spend now with Apple Pay or Google Pay. Connect your card to tap and pay with your phone. No need to wait for your physical card to arrive.

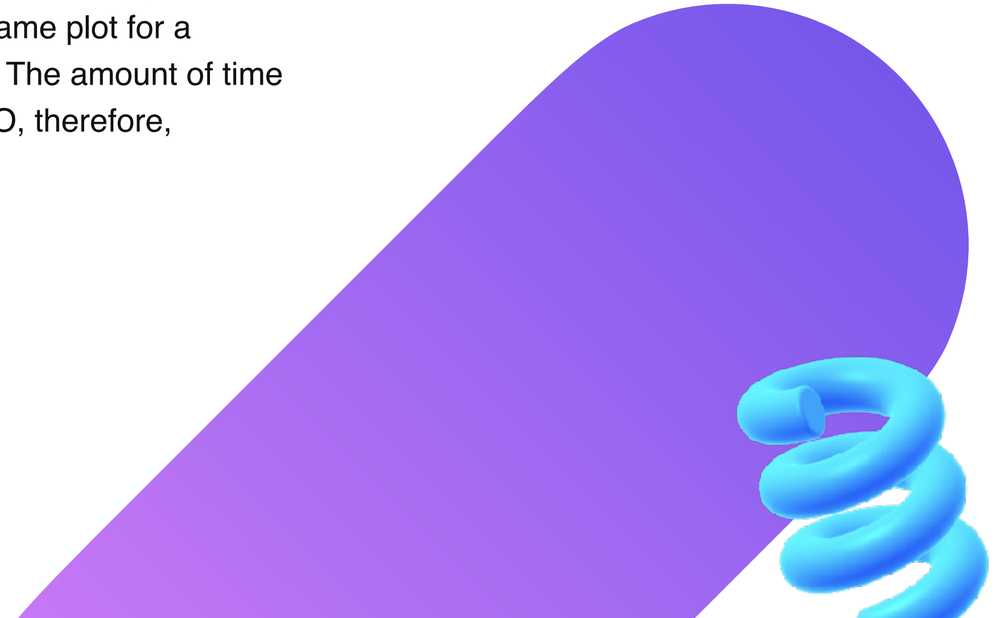
Open Benefits, Perks & Discounts with your NFTS or Card

Cross-Metaverse Abilities



Our Metaverse is a geolocation-based XR experience in which the entire space belongs to people. Users do not have to spend assets to own the land. Instead, they will place an NFT at the specific point on map, then have to stake a set amount of $ALTAR tokens for the desired amount of time they wish to hold the plot of land.

The time will always be limited to give the ability for different users to stake or rent the plot at that specific location. After the smart contract expires, that specific wallet will not be able to rent the same plot for a determined amount of time; which will give different users the ability to rent specific land. The amount of time and rent price will be set by DAO voting. ALTAR is about equality and strength of the DAO, therefore, everyone can have shared access to the land and shared access to the fun.



XR NFT models will bridge to different Microverses.
We are all about collaboration not competition.

Products

Avatars and Meta Humans

Create interactive 3D avatars to represent you in Metaverse world. Monetize experience without being online.

Products

3D/AR Generator

NFT Art Generator is an exciting new innovation in the blockchain world. It is an AI-based software that can produce NFT collections in bulk.

We bring the very first 3D/AR NFT Generator to the market. Create 3D collections instantly without code.

Products

Metaverse Builder

Altar Builder is a straightforward drag-and-drop editor. There is no coding required; it's all visual and a large number of template items are available for use.

Products

Altar Real Estate

Sell/Buy Real Estate through location based NFT/XR

Legal and institutional complications are rapidly dissolving as next generation assets develop onine, for example, tokenization of real estate on blockchain.
Just as footwear and fashion brands are expanding their markets with virtual product development, real estate is expanding virtually. Virtualization of property creates new derivative assets as NFTs

-virtual asset development
-protected by law (trademark)
-validated on blockchain
-sold in Metaverse

Products

Analytics & Ads Management

The future of Metaverse Marketing is 3D product placement with Campaign runs overlaying live/real time. Analyzing huge amounts of Big Data from customer engagements, we generate comprehensive segmaentation analytics for product placement in Metaverse.

Products

Virtual Learning Environment (VLE)

We created an absolutely new way of learning through XR experience. Users are able to create learning experiences for their audience with the help of XR technologies to make learning processes more interactive and efficient. Every XR experience is backed by NFT technology which will be stored on blockchain.

ALTAR Meta Media Services

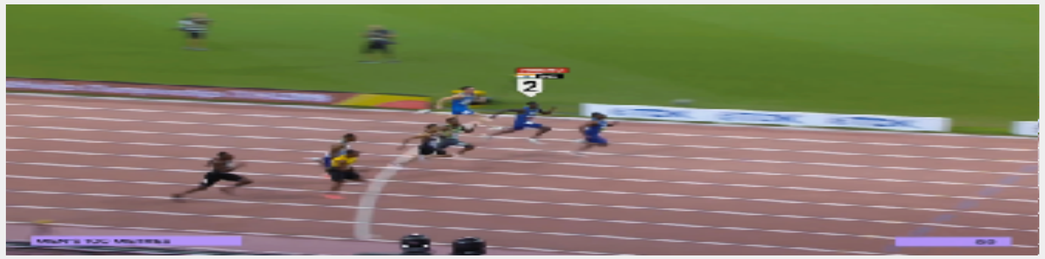
- Metaverse Creation, Virtual Environment, Virtual Rooms
- Virtual Advertising Using Helicopter & Drone
- Test Site for Autonomous Vehicles
- Virtual Stands
- Volumetric Graphics for the Stage
- Athlete/Artist or Event Live Data Visualization
- AI/XR Social Media Integration
- Virtual Avatars/Performers with face gestures

Technology set for real-time broadcasts, events, sports, & live entertainment

DriveCast technology is based on a group of unique computer vision algorithms that allow us to track environment, vehicles and persons in real-time and create unique immersive graphics experiences.

Our solution can track different types of objects, vehicles and even people in motion. Tracking data can be used in real-time
or for post-production purposes.

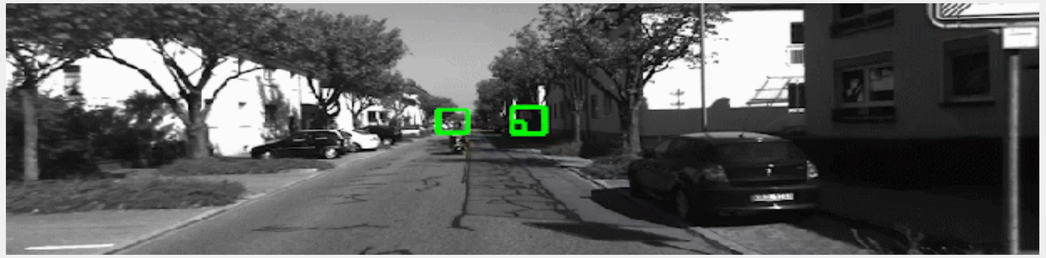
Object Tracking



Unique technology that allows to recognize locations from a bird’s-eye view with no hardware involved.

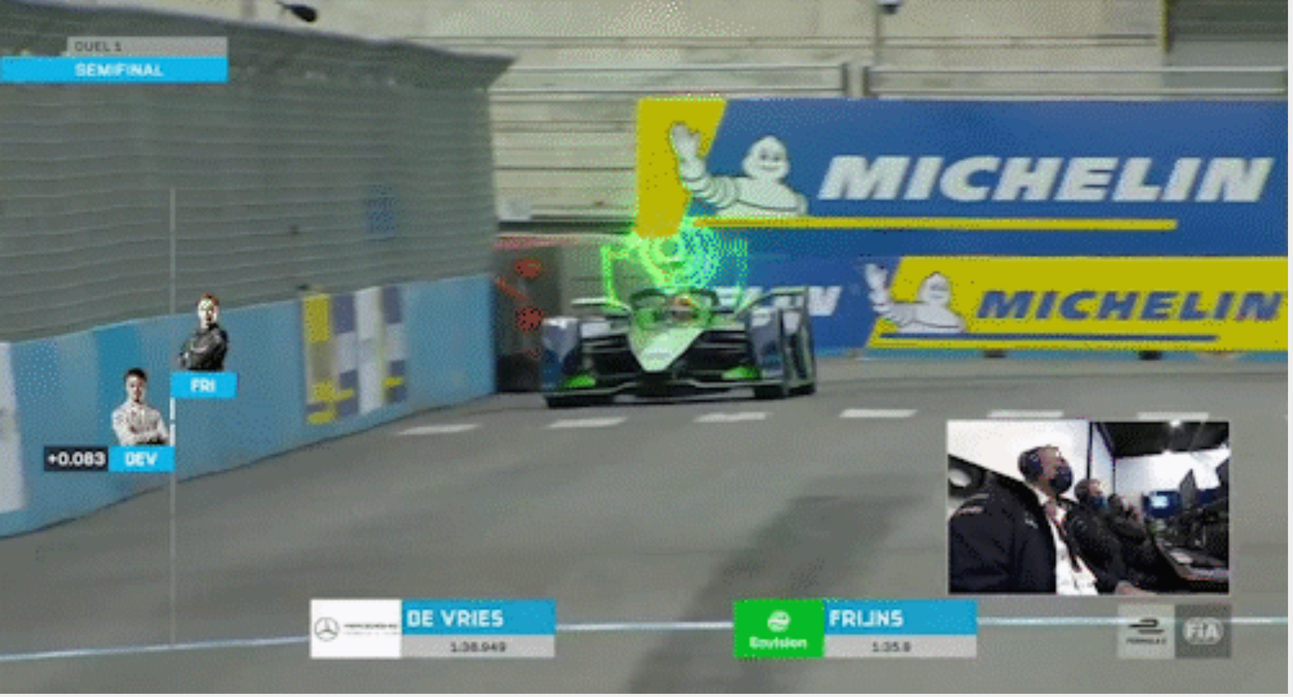
Can be used for adding augmented reality for helicopter or drone shooting.

Helicopter AR



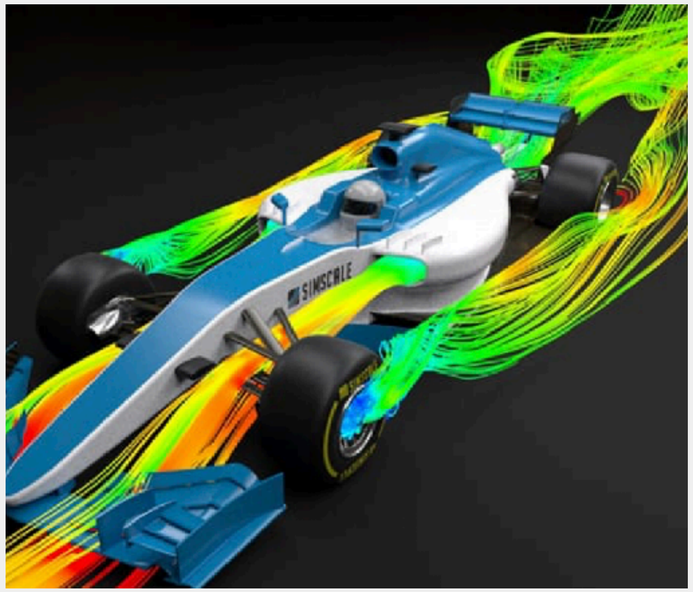
Technology allows to scan environment with just one calibration lap and add any virtual objects on track for the upcoming rides.

PoV AR



Instant change of the car shape, livery or merging some effects in the real-time. All this options are available for DriveCast real-time object change.

Real-time Object Change



Real-time visualization of slipstream based on unique recognition algorithms of car velocity.

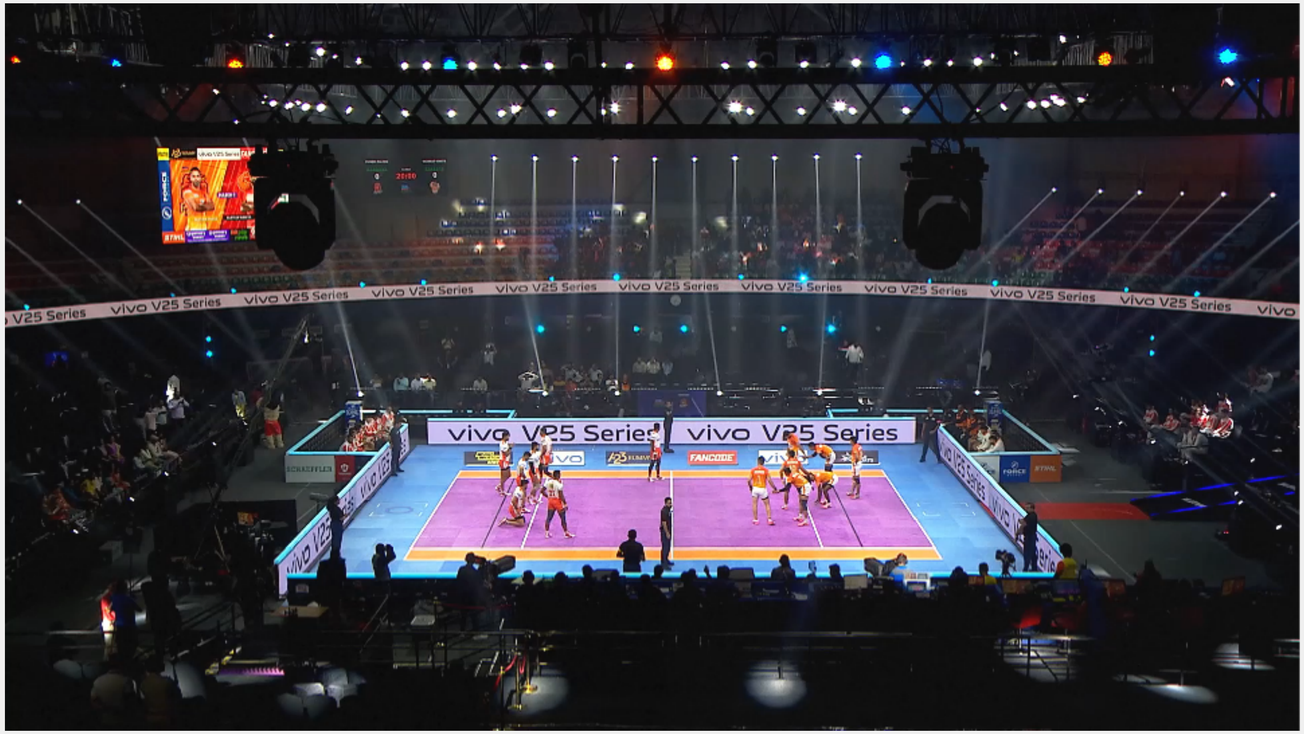
Slipstream Visualization

With human and vehicle tracking we can detect when the real world interacts with the virtual one. It creates countless possibilities for immersive scenarios in real-time.

Interaction with Virtual & Real Worlds

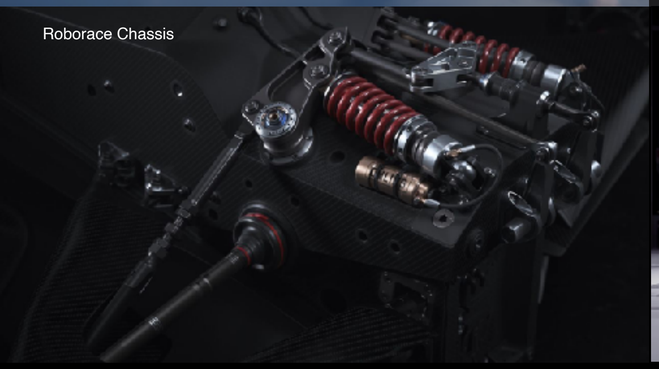
Receive data about any player on the field in real-time. Watch data or action from eyes of the player

Team sports real-time analytics and metaverse reconstruction



Analyze action in real-time with a full occlusion and add 3D assets to real action

Team sports real-time hybrid reality



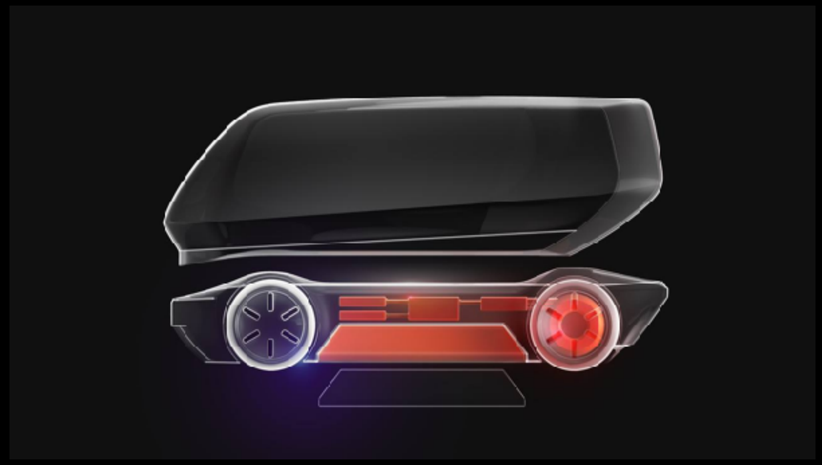
Multidisciplinary CGI

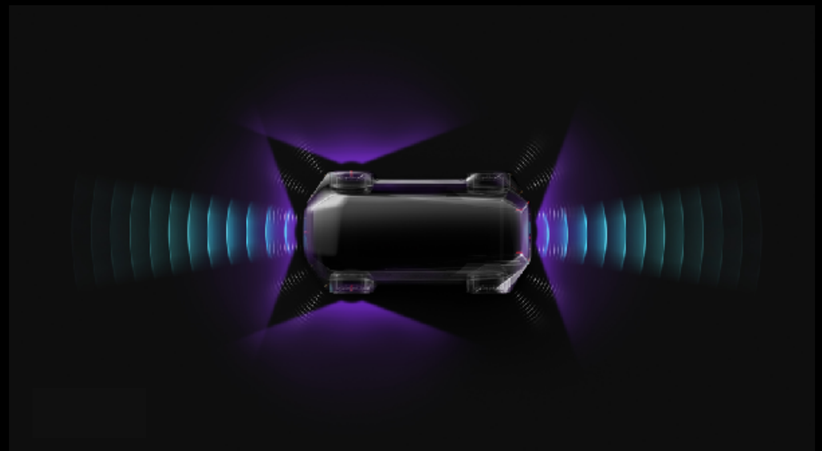
We believe that the most exciting part of every product is a story kept inside. Performing at the ultimate level, we integrate engineering and artistic expertise to deliver a unique vision and innovative ideas for breathtaking product demonstrations. Our projects range from aerospace prototypes to electric racing cars and AI-driven bolides. AltSpace's signature visual techniques such as explosion schemes and cut-aways are sharpened by the team of engineers and experienced designers.

Industrial & Automotive Design

AltSpace has set a reputation in industrial & automotive design through a 10-year long experience of working in the industry. Our team develops the concept of the vehicle, its interior and exterior design as well as its engineering insides by blending its form and function with a deep understanding of the complexity and importance of the impact it brings on an individual and societal level.

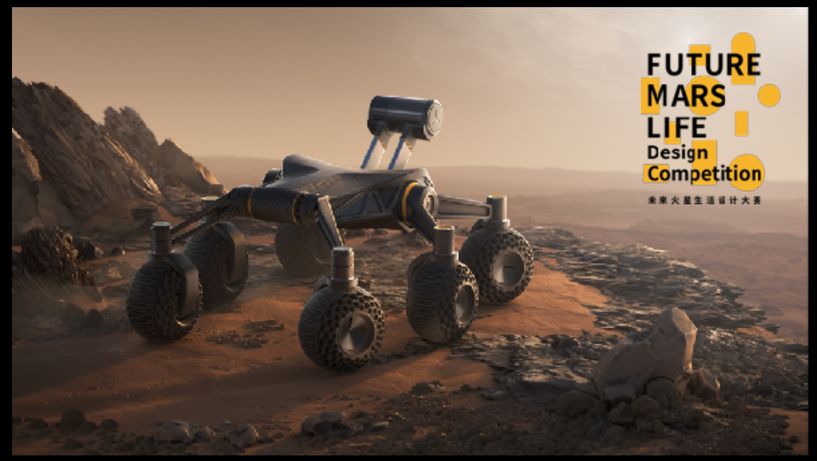
Arrival Robotics





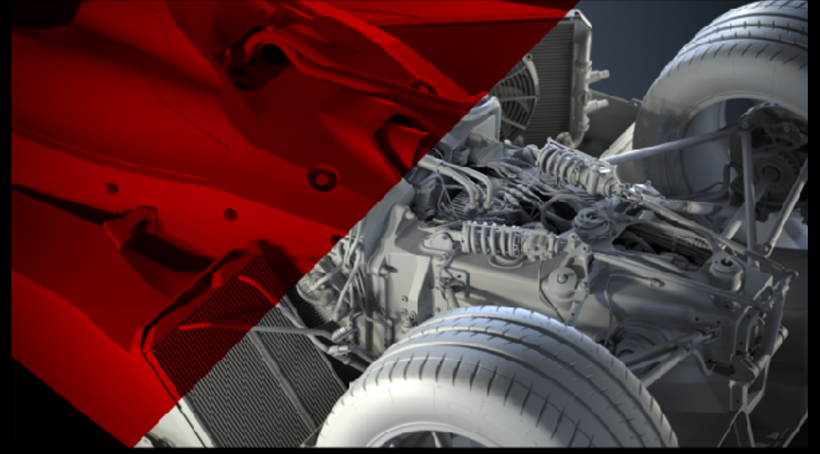
Robonetica Explorer 1.0

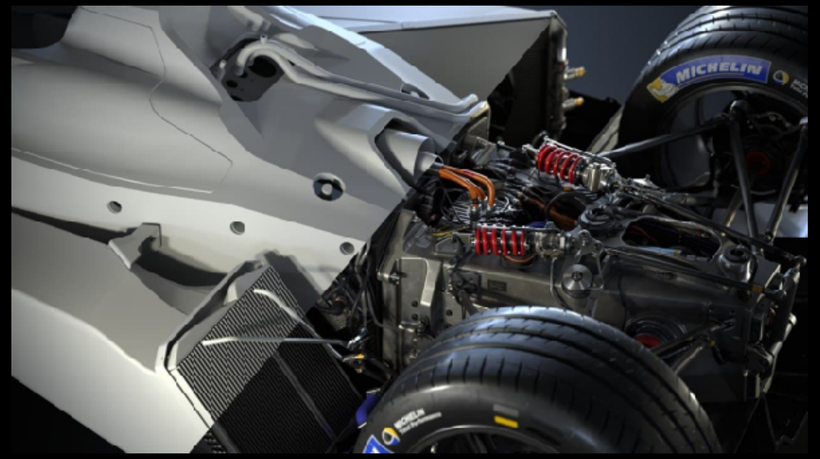
For Robonetica’s educational program, we developed an engineering concept of Explorer 1.0 and a set of promotional still renders right at the junction of modern scientific achievements and design.

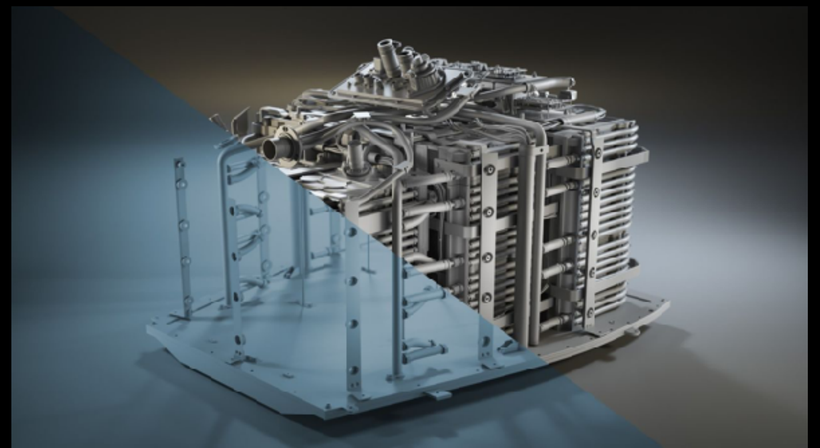


3D Modeling

At the root of sophisticated visualization, created at AltSpace studio, lies meticulous modeling with extensive R&D and improved surfaces in Alias software. All of the clients' source files are thoroughly detailed without non-disclosure violations.








Delft Hyperloop


Formula E Tech Series

Roborace touch table


Extreme E

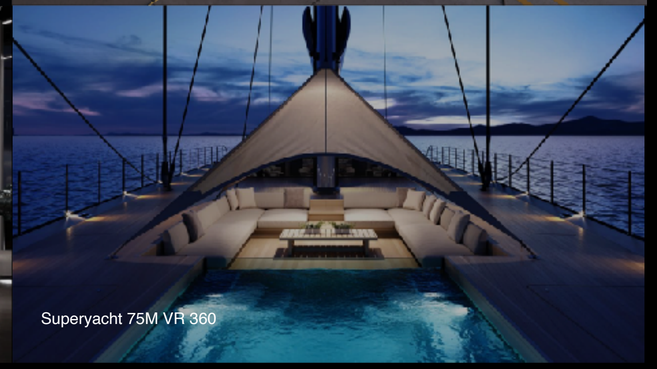
Extras: Unreal Engine

Most of our recent projects are made in Unreal Engine. We see technologies such as UE4 as effective tools for creativity that act as a platform for us to create picturesque yacht, space, architectural, and motorsport projects one of which was recognized as a winner by the Unreal Awards: Experience Design in the Manufacturing category.

Delft Hyperloop interactive VR

Altius VR 360

Rostech City VR 360



Superyacht 75M VR 360

Extras:
Virtual Reality

AltSpace’s VR graphics expertise and DriveCast’s innovative platform together allow creating immersive experiences that have no analogues at the moment.

Automotive CGI

We use our expertise in engineering and technologies of the future to envision the aesthetics of a vehicle and translate its values. Promo made for the autonomous vehicle ‘Flip’ serves as a credible example of the car’s functionality, sustainability, and safety.

Hybrid Metaverse for Autonomous Vehicle Testing

Contact us

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