



The demand for high-quality video content is growing exponentially, fueled by the widespread adoption of 4K, 8K, high frame rates, and ever-evolving viewer expectations. However, traditional centralised video processing solutions are expensive, inefficient, and inaccessible to many content creators and businesses.

Vidaio disrupts this landscape by leveraging AI-driven, decentralised video processing within the Bittensor ecosystem. Our innovative approach utilises cutting-edge machine learning models and a constantly evolving reward mechanism to deliver scalable, cost-effective, and high-quality video processing solutions.

Our subnet launches with a viable, industry-ready product, with relevant real-world applications.

What is video processing?

Video processing involves manipulating video data to enhance quality, optimise compression, analyse content, and adapt videos for various devices and applications. It plays a crucial role in streaming, broadcasting, content creation, and archival restoration.

Why is video processing essential?

Video accounts for over 80% of global internet traffic, requiring immense storage and bandwidth to deliver seamless viewing experiences. Every video must be processed - enhanced, compressed, and transmitted - before it reaches the viewer.

At Vidaio, our mission is clear:

- Enhance user experience with AI-powered quality improvements.
 - Reduce costs for content creators, platforms, and distributors.
 - Optimise storage & bandwidth for efficient video delivery.
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What is video upscaling?

Video upscaling is the process of increasing resolution (e.g. HD > 4K) while enhancing perceived quality.

Traditional upscaling methods rely on simple interpolation, stretching pixels, and therefore creating blurry or blocky visuals.



VIDAIO's machine learning-driven upscaling predicts missing details, reduces artifacts, and reconstructs fine textures, delivering a sharp, high-quality image at lower bitrates.

What is video compression?

Video compression reduces file size while maintaining visual quality, making storage, streaming, and transmission more efficient.

Traditional compression removes redundant data using lossless (retains quality but with minimal reduction) or lossy (removes details for higher compression) techniques.

Vidaio's AI-driven compression reduces blurring, blocking, and banding while preserving textures and optimizing bitrates.

How does Vidaio use AI for video processing?

Our machine learning models intelligently reconstruct missing details, eliminate compression artifacts, and enhance perceptual quality at reduced file sizes and bitrates.

- Super-resolution AI enhances textures, edges, and details
 - Artifact reduction improves clarity and removes noise.
 - Compression-aware processing maximizes quality with minimal file size and storage impact.
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Who are Vidaio's potential customers?

Our AI video solutions benefit a wide range of industries:

Streaming & VOD Platforms
Broadcast & Media Companies
Gaming & Esports
Social Media & UGC Platforms
Film Restoration & Archival
Security & Surveillance
Healthcare & Telemedicine
Automotive & Smart Transportation

Essentially, any industry working with video can benefit from Vidaio's AI-driven solutions.



How big is the market?

The online video industry is expanding rapidly, projected to exceed \$100 billion by 2026, with a 20%+ compound annual growth rate (CAGR) driven by streaming services, AI-driven content creation, and global video consumption.

What is Vidaio's go-to-market strategy?

Our initial focus is on African content owners and VOD platforms - a rapidly expanding market where we have strong expertise and strategic relationships.

Benefits for content owners, platforms, and networks include:

Content Revival

Upscale older or low-resolution content for modern screens

Unlock new revenue from archives with minimal re-editing

Bandwidth Optimization

Deliver smooth playback in regions with poor connectivity

Reduce data usage for mobile-first users without losing quality

Storage & Infrastructure Savings

Cut storage costs by up to 80% with perceptual AI compression

Lower CDN and cloud delivery expenses at scale

Production & Post-Production

Accelerate rendering and export times with smaller files

Easily share dailies or review cuts without transferring massive raw files

With Africa's video market booming, VIDAIO is uniquely positioned to bridge the gap between content supply and digital consumption.

I am happy to answer any questions you may have.

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Pronunciation: VID-A-O