

ZENITH

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Table of Contents

1.	<i>Space Debris Harvesting</i>	P.1
2.	<i>Melting & Processing</i>	P.2
3.	<i>3D printing</i>	P.3
4.	<i>Products</i>	P.4
5.	<i>USP, Use Case & Target Customers</i>	P.5
6.	<i>References</i>	P.6-7

Space Debris Harvesting

01 — The **Orbital Cleaner One**

- 02 —
- LiDAR Sensors, Cameras & Artificial Intelligence
 - Motorized Robotic Arms
 - Containment Capsule



(Google Deepmind, 2025)

03 — Powered by 100% solar energy

04 — Fully autonomous without the need of human interference

Melting & Processing

01 — Collected debris is melted in the Forge (our melting facility that orbits earth)

02 — The melting process involves mirrors that concentrate sunlight



(Google Deepmind, 2025)

03 — The molten debris is separated into different metals (Aluminium, Gold, Titanium, etc.)

04 — The metals are then used to 3D print our products

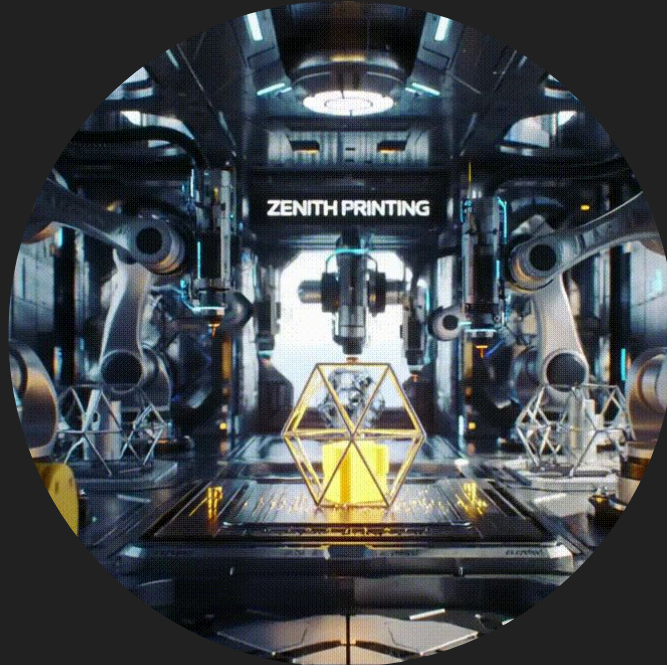
3D Printing

01 — On-Demand In-Orbit Manufacturing

- 3D printing directly in space

02 — Autonomous Manufacturing

- autonomous robotic systems



(Google Deepmind, 2025)

03 — Raw Materials from Recycling

- Aluminium, Gold, Titanium, etc.

04 — Crafting Critical Tools & Producing High-Value Materials

- Orbit-Wrench X-7
- Niobium Alloy

Products

Orbit-Wrench X-7

- Critical torque wrench needed by the ISS crew
- Traditional Method (Earth Launch):
 - Cost: \$75,000
 - Delivery Time: Up to 1 year
- Our In-Orbit Manufacturing (IOM) Solution:
 - Cost \$11,000
 - Delivery Time: 48 Hours

High-Value Research Samples

- 50 g of ultra-pure Niobium Alloy for 1,000\$

Total IOM savings: \$5 billion and 450,000 tons of CO2



(Google Deepmind, 2025)

USP, Use Case & Target Customers

- 01 — Recycled materials, autonomous manufacturing, on demand availability
- 02 — Ready to use parts for facilities such as the ISS
- 03 — Build for space agencies and private companies such as: NASA, ESA, SpaceX, Starlink



References

[Image Slide 1] Google DeepMind. (2025). Veo (Generation 3) [Video generation model] [Large language model]. https://aistudio.google.com/prompts/new_chat [Prompt: A cinematic, realistic video of a Zenith spacecraft that picks up space debris performing orbital cleanup above Earth. The rocket-like ship, marked with the Zenith logo, glides gracefully through low Earth orbit, picking up space debris. Robotic arms extend from the ship, capturing debris fragments and storing them in a containment module. In the background, Earth's blue curve and soft sunlight illuminate the scene. The tone is clean, optimistic, and inspiring — showing advanced technology working for space sustainability. Include smooth camera motion, gentle lens flare, realistic lighting, and professional space documentary style. Duration: 10–15 seconds, 16:9 format, 4K resolution]

[Image Slide 2] Google DeepMind. (2025). Veo (Generation 3) [Video generation model] [Large language model]. https://aistudio.google.com/prompts/new_chat [Prompt: A cinematic, realistic video showing the Zenith Solar Forge — an orbital foundry floating above Earth. Robotic arms feed collected space debris into a glowing circular smelter as concentrated sunlight, reflected by large mirrors, melts the metal. The molten aluminum and titanium shimmer orange inside the forge chamber. The spacecraft interior has a clean industrial look, with “ZENITH FORGE” markings and Earth visible through large observation windows. The scene emphasizes solar energy, recycling, and innovation. Use realistic lighting, reflections, and slow, steady camera movement that captures both the technology and the beauty of Earth in the background. 10–15 seconds, wide 16:9 format, 4K cinematic quality.]

[Image Slide 3] Google DeepMind. (2025). Veo (Generation 3) [Video generation model] [Large language model]. https://aistudio.google.com/prompts/new_chat [Prompt: A cinematic one shot, ultra-realistic video showing the Zenith Orbital Fabricator — a high-tech 3D printing facility in orbit above Earth. Inside a sleek metallic module labeled “ZENITH PRINTING,” robotic arms operate synchronized 3D printers that build satellite components from glowing recycled metal feedstock. The printers form precise geometric structures on a zero-gravity platform while other drones carefully transport finished parts to nearby spacecraft. Sunlight shines through large observation windows, reflecting off metal surfaces. The atmosphere feels calm, innovative, and futuristic. Emphasize realistic physics, detailed robotics, and smooth camera motion transitioning from close-ups of the printing process to an exterior view of the facility orbiting above Earth. 10–15 seconds, 16:9 format, 4K resolution.]

References

[Image Slide 4] Google DeepMind. (2025). Veo (Generation 3) [Video generation model] [Large language model]. https://aistudio.google.com/prompts/new_chat [Prompt: realistic, cinematic video of the Orbit-Wrench X-7, a high-tech torque wrench designed for use in space maintenance. The wrench floats in zero gravity inside an ISS-style workspace, illuminated by soft light from Earth through the station window. It has a sleek, futuristic metallic design engraved with the ZENITH logo and highlighted engineering details — glowing indicators, textured grips, and precision torque adjustment components. . High detail, 16:9 aspect ratio, realistic textures, cinematic lighting, NASA concept art style.]

[Image Slide 5] Google DeepMind. (2025). Veo (Generation 3) [Video generation model] [Large language model]. https://aistudio.google.com/prompts/new_chat [Prompt: A cinematic, realistic infographic type video showing the Zenith spaceship in orbit above Earth, surrounded by its technologies — the Solar Forge, the 3D Printing Facility, and the delivery ship near the International Space Station. Below the orbit, faint holographic overlays or icons represent Zenith's customer network (space agencies, satellites, private companies), glowing softly above Earth's continents. The composition symbolizes global collaboration and sustainability: clean, bright lighting, Earth's blue curve, realistic materials, fine detail, 16:9 aspect ratio, high-resolution NASA concept art style. Emphasize innovation, connection, and the theme of "value in orbit.]



ZENITH

THANK YOU FOR YOUR TIME!

We are happy to take any questions.