

We Enable the Innovators

Mentoring & investing in the next wave of innovative ideas

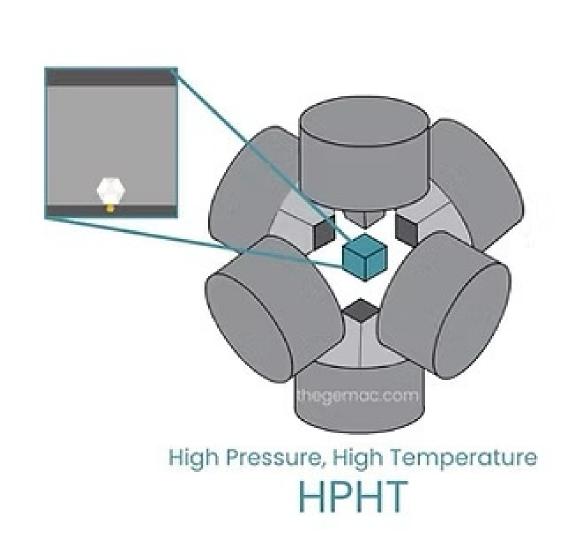
This month, we're diving deep into the dazzling world of lab-grown diamonds. Once considered a futuristic novelty, they're now a sparkling reality, revolutionising the jewellery industry.

What are Lab-Grown Diamonds?

Lab-grown diamonds, also known as cultivated or synthetic diamonds, are created in a controlled laboratory environment using advanced technological processes that mimic the natural diamond formation process. They are chemically and physically identical to natural diamonds, with the same chemical composition (pure carbon) and crystal structure.

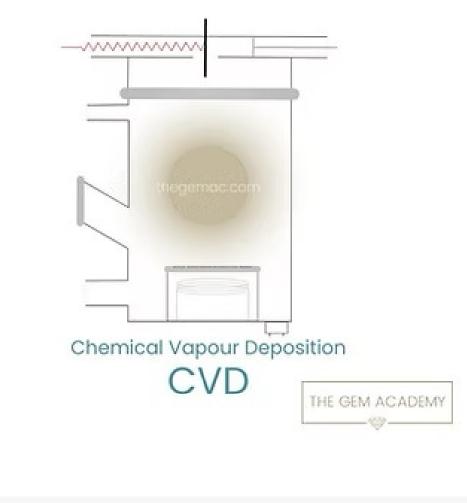
How Are They Made?

There are two primary methods for creating lab-grown diamonds:



High Pressure High Temperature (HPHT) Process: The HPHT process mimics the extreme conditions found in the Earth's mantle. It applies pressures of around 5 GPa (50,000 atmospheres) and temperatures of approximately 1,500°C to carbon sources. It takes about a fortnight to grow a 1-carat diamond using the HPHT method. This process accounts for about 20% of the lab-grown diamond market.

Chemical Vapour Deposition (CVD)
Process: In the CVD process, a carbon-rich gas, such as methane (CH4), is introduced into a vacuum chamber. The gas is then ionised, creating a plasma that deposits carbon atoms onto a substrate. CVD is responsible for about 80% of lab-grown diamonds.



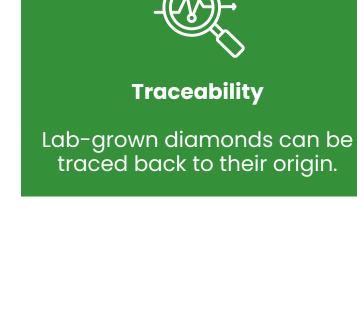
The Benefits of Lab-Grown Diamonds











They're fake.

Addressing Common Misconceptions:

Absolutely not! Lab-grown diamonds are real diamonds, indistinguishable from mined diamonds to the naked eye and even to most jewellers without specialised equipment.

They're less valuable.

" While they may be priced differently, their value lies in their quality, ethical sourcing, and environmental benefits.

De Beers natural diamonds hoax:



DE BEERS

J E W E L L E R S

perceived value of diamonds through strategic marketing efforts.

The "A Diamond is Forever" campaign:
Launched in 1947, this iconic campaign linked diamonds to love and commitment, promoting the idea that a diamond engagement ring was essential for

marriage proposals. This

significantly

Origins of the hoax: The De Beers

diamond hoax began in the early 20th

century when De Beers, facing a decline in

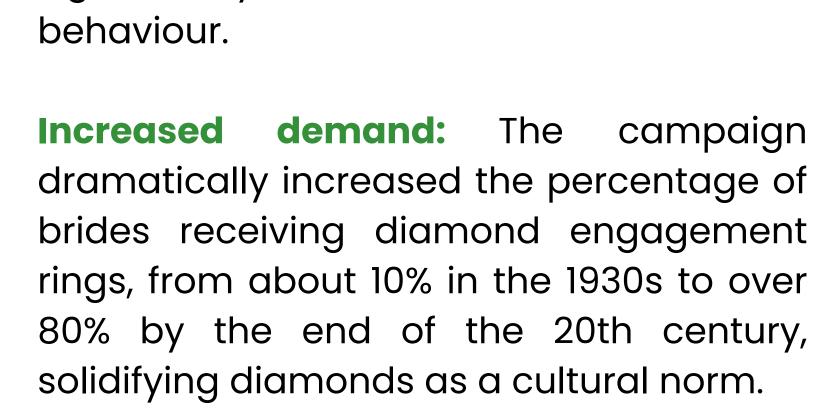
diamond demand, sought to create

artificial scarcity and elevate

Nature's mic drop.

Good things take time. The best take a billion years.

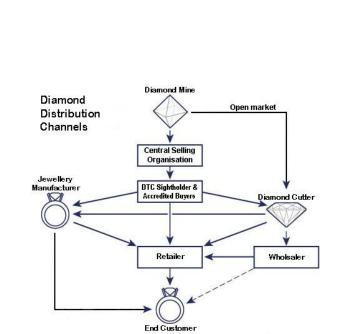
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influenced

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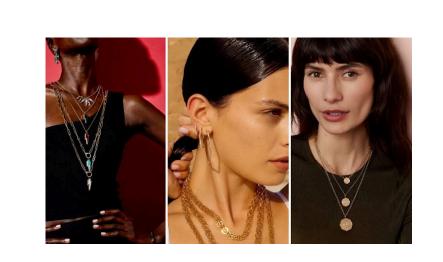
consumer



Market control and high prices: By controlling the supply of diamonds and creating an artificial demand, De Beers maintained high prices and significant profits, effectively monopolizing the diamond trade for decades.

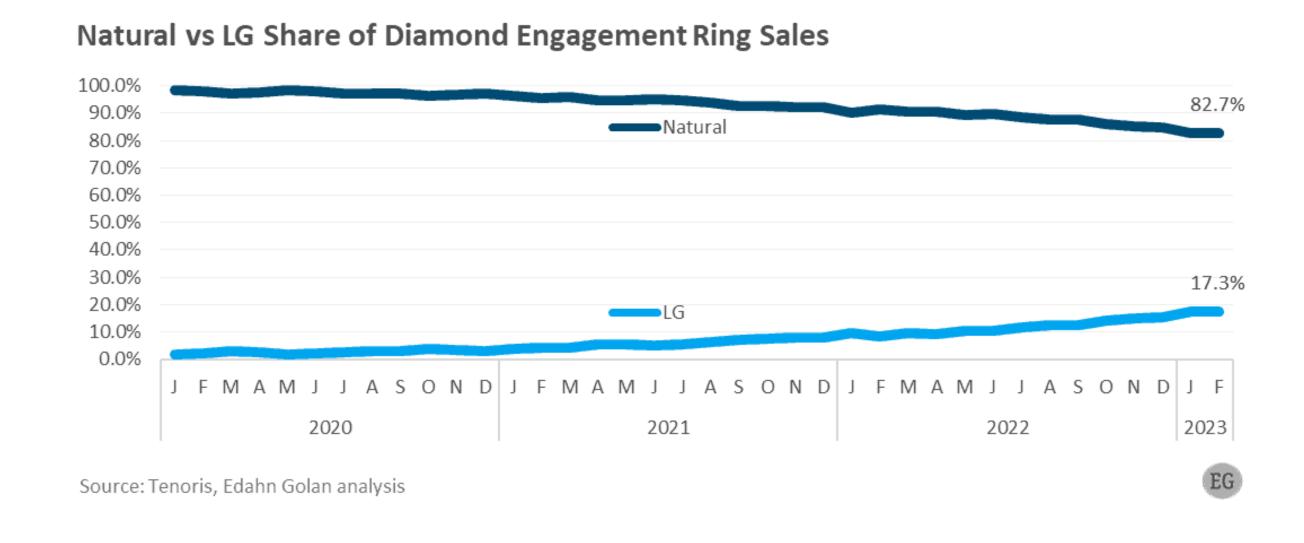


Ethical concerns: The hoax has faced criticism for market manipulation, including accusations of dealing in conflict diamonds linked to human rights abuses and environmental degradation from diamond mining practices.



Cultural impact: The De Beers diamond hoax not only reshaped consumer perceptions of diamonds but also inspired similar marketing strategies across various industries, highlighting the power of advertising in creating demand for products.

Market Opportunity

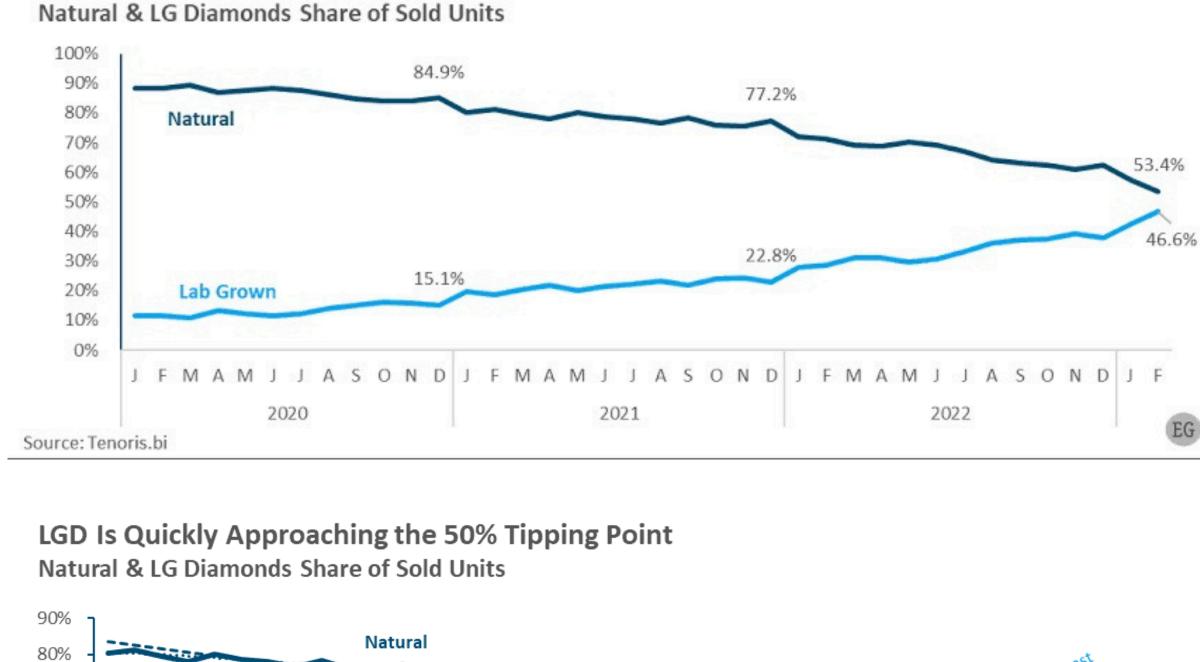


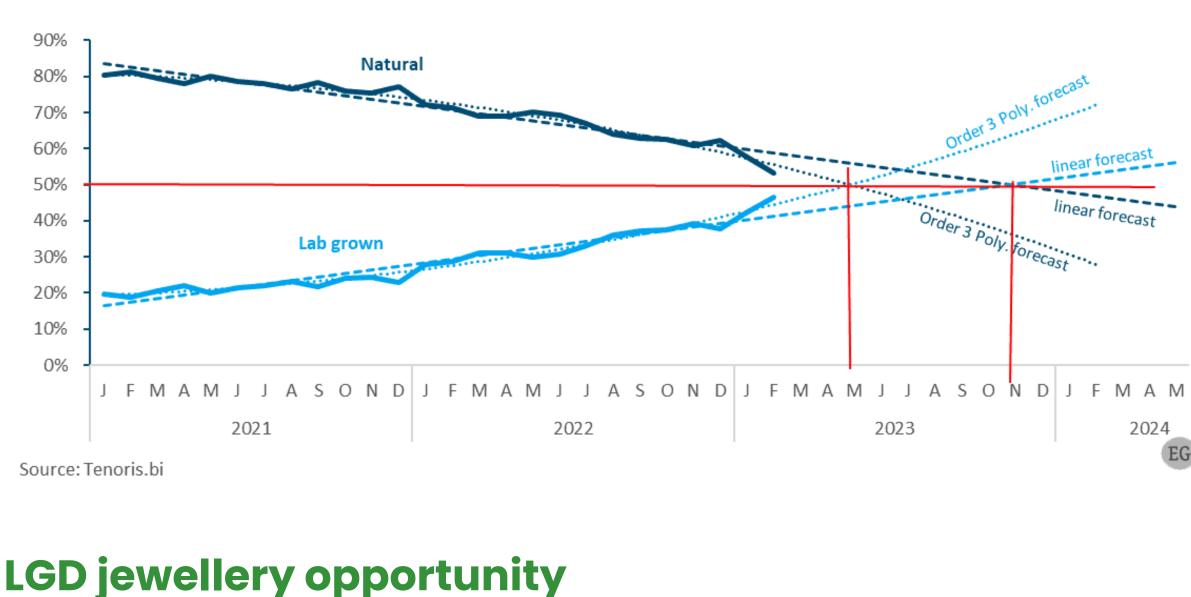
Lab grown diamonds market:

lab-grown diamond market currently valued approximately \$22 billion, presents significant growth potential, especially when considering the overall natural diamond market, which is estimated at \$100 billion.

Loose lab-grown diamond unit sales in the U.S. held a share of

13.7% in 2020, which was viewed as relatively high at the time. Since then, their share has increased to a remarkable 46.6% as of February 2023. In just three years, lab-grown diamonds moved from just above a tenth of total sales to nearly half. A similar trend is expected to replicate in India. LGD Is Quickly Becoming the Go To Consumer Choice





264.5 million in 2022. Over the next ten years, lab grown diamond jewellery sales is expected to rise at 14.8% CAGR. Total market size

is expected to increase from \$300 million in 2023 to \$1.2 billion by 2033. • Lab-grown diamond (LGD) jewellery is poised to capitalize on significant opportunities within the \$22 billion bridal jewellery market and the \$32 billion gifting jewellery market of India.

India's lab grown diamond jewellery market was valued at US\$

industry by promoting sustainability with our PM Narendra Modi gifting a 7.5 carats LGD to Joe Biden's wife.

A grant from the Indian government to IIT: The Indian

government has given a grant of INR 242 crores to IIT Madras to

study lab-created diamonds. The government has approved the

Govt. of India has shown big support to the Lab Grown Diamond

investment, which would be made over five years. Removal of 5% custom duty on diamond seeds: The government

institutions now designate them as such.

Government initiatives

has eliminated the 5% customs duty formerly applied to the seeds used to create rough lab-made diamonds. Removal of the term "synthetic": The Federal Trade Commission (FTC) and the Gemmological Institute of India (GIA) banned the use of the term "synthetic" in reference to lab created diamonds.

Because lab diamonds share the same optical, physical, thermal,

and chemical characteristics as natural diamonds, these two

• Different import codes for lab-grown diamonds and natural diamonds: Previously, whether they were man-made diamonds or natural stones, all raw synthetic gemstones imported into India had the same import code: 71042000. But now, rough lab-grown diamonds are classified as 71042010, while other rough synthetic stones are given the designation 71042090. This will help track and monitor the two types of diamonds.

Growth drivers:

Increasing aspirational buyers: As lab grown diamond brands offer competitively priced lab-grown diamond jewellery, it taps into the aspirations of middle-class consumers to own diamonds. This positions the brand for sustained success by making diamond ownership an attainable goal for a wider demographic of value-conscious consumer with growing spending power.

Increasing cost related awareness: As consumer awareness of lab-grown diamonds continues to rise, the LGD brands are wellpositioned to attract new customers. The shift in consumer preferences towards sustainable and cost-effective jewellery

options presents a timely opportunity for growth.

Potential for High Returns: With the rapid expansion of the labgrown diamond market and the increasing spending power of the emerging middle class, we as investors can expect substantial returns as the new age LGD brandscapture market share in this burgeoning industry.

knowledgeable about their products.

- What to Look for When Buying:
- Certification: Ensure your lab-grown diamond is certified by reputable gemmological laboratories like the GIA or IGI.
- The 4Cs: Just like mined diamonds, lab-grown diamonds are graded based on the 4Cs: Cut, Clarity, Colour, and Carat. Retailer Reputation: Choose a reputable jeweller who is transparent about their lab-grown diamond sourcing and

From the Managing Partner's desk:



Lab-grown diamonds are not just a trend; they represent a significant shift in the diamond industry. As technology advances and consumer awareness grows, they are poised to become an increasingly popular choice for engagement rings, fine jewellery, and beyond.



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