



We grow PROUD for ~~you~~. all of us.

SWISS LAB-GROWN DIAMOND

A DEEPTECH AND
PURPOSE-DRIVEN COMPANY



URE
EAL
UTSTANDING
NIQUE
IAMOND
PROUD
TECHNOLOGY

L.COLINA@PROUD-TECHNOLOGY.CH
JB.DECORZENT@PROUD-TECHNOLOGY.CH

JUNE 2022

- 7 AFFORDABLE AND CLEAN ENERGY
- 8 DECENT WORK AND ECONOMIC GROWTH
- 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
- 11 SUSTAINABLE CITIES AND COMMUNITIES
- 12 RESPONSIBLE CONSUMPTION AND PRODUCTION
- 13 CLIMATE ACTION
- 14 LIFE BELOW WATER
- 15 LIFE ON LAND
- 16 PEACE, JUSTICE AND STRONG INSTITUTIONS
- 17 PARTNERSHIPS FOR THE GOALS

No COMMENT

GLOBAL CHALLENGE: SUSTAINABLE DEVELOPMENT AND CLIMATE CHANGE



The Mir mine in Eastern Siberia, Russia. Diamond mining involves the removal of vast amounts of earth and rock creating holes so big they can be seen from space.



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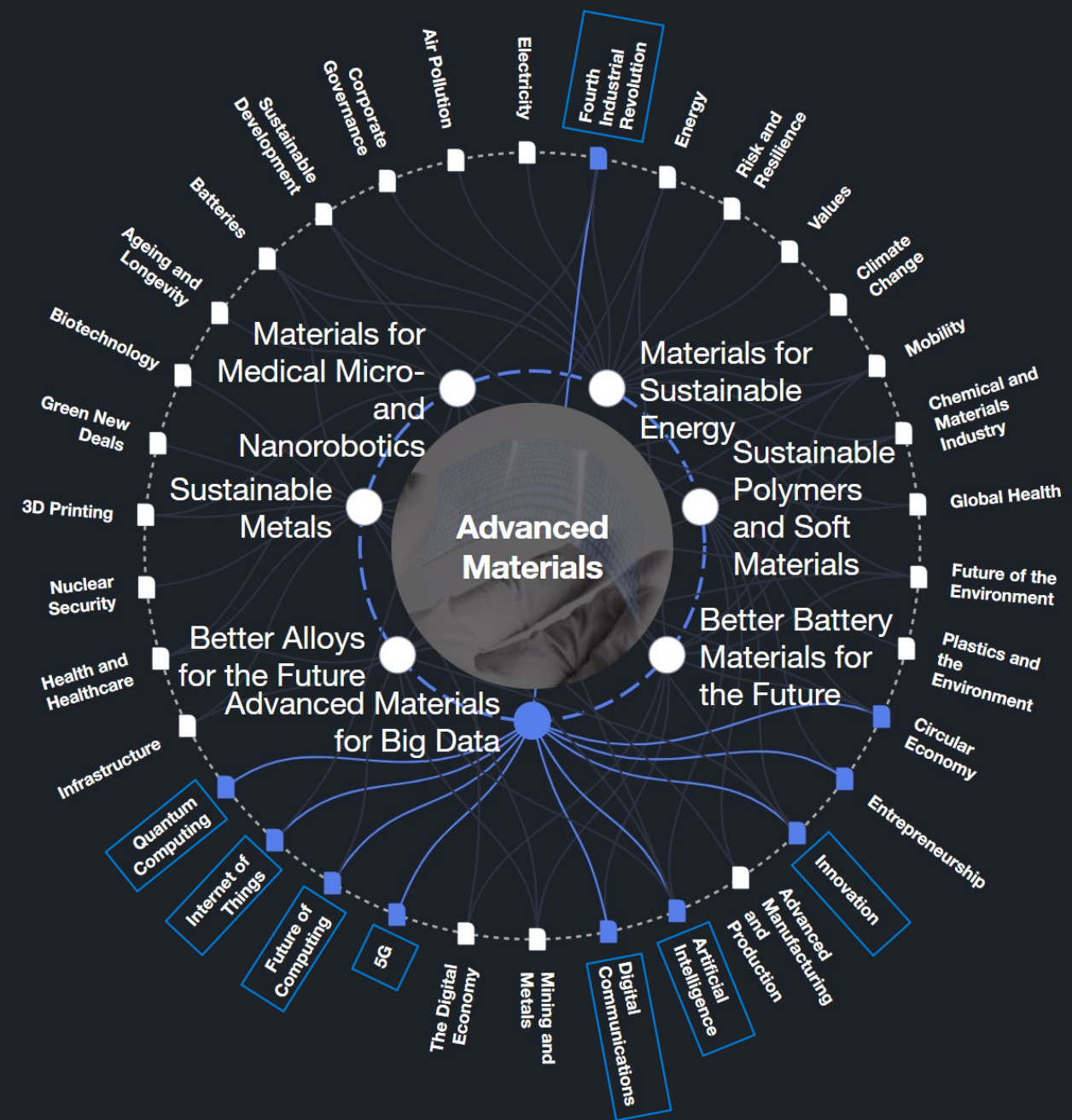
“The Butcher” The 285-ton giant is diamond miner De Beers’ hi-tech tool to collect diamonds off the coast of Namibia



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GLOBAL CHALLENGE AND OPPORTUNITY



RAPID INNOVATION AND LOWERING COSTS HAVE **DRAMATICALLY INCREASED** ACCESS TO ELECTRONIC PRODUCTS AND DIGITAL TECHNOLOGY, WITH MANY BENEFITS. THIS HAS LED TO AN INCREASE IN THE USE OF DIGITAL SERVICES, ELECTRONIC DEVICES AND EQUIPMENT. THE **UNINTENDED CONSEQUENCE** OF THIS IS A **BALLOONING** OF ELECTRONIC AND ELECTRICAL E-WASTE, **ENERGY CONSUMPTION**, NATURAL RESOURCES AND **CO₂ EMISSION**.

WORLD ECONOMIC FORUM

INDUSTRY & TECHNOLOGY CHALLENGE – PROBLEM ADVANCED MATERIALS



LUXURY



HIGH-TECH

FOR 1 CARAT EXTRACTED*

- 1000+ TONS OF EARTH REMOVED
- 3000+ LITERS OF WATER USED
- 500+ KG OF AIR POLLUTION RELEASED
- 100+ KG OF CARBON DIOXIDE EMITTED

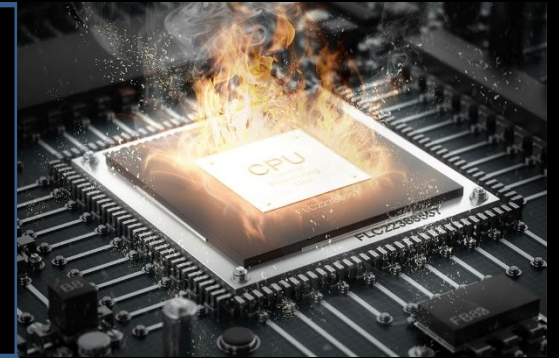
SUPPLY OF HIGH-GRADE DIAMOND IS A CHALLENGE.

NATURAL DIAMOND EXTRACTION HAS STRONG NEGATIVE IMPACTS ON THE ENVIRONMENT, HEALTH, WATER USAGE, SOCIAL JUSTICE AND AIR QUALITY.

* Environmental Impacts of Mined Diamonds, Dr. Gbemi Oluleye, 2021

IMPACT OF TEMPERATURE ON SEMICONDUCTORS

- REDUCE DEVICE LIFETIME
- LIMIT THE DEVICE PERFORMANCE
- INCREASE THE POWER CONSUMPTION



CURRENT METHODS FOR THERMAL MANAGEMENT

NO LONGER EFFECTIVE TO ADDRESS NEW GENERATION OF SEMICONDUCTORS

“ICT’S SHARE OF GLOBAL GREENHOUSE GAS EMISSIONS ACTUALLY LIES BETWEEN 2.1-3.9%. ICT GHG EMISSIONS COULD BE AS HIGH AS 8% BY 2025»

MP CVD LAB-GROWN DIAMOND

MICROWAVE PLASMA CHEMICAL VAPOR DEPOSITION

WHY



ADVANTAGES OF MP CVD DIAMOND

- THE HIGHEST KNOWN THERMAL CONDUCTIVITY
- THE HIGHEST KNOWN RESISTANCE TO THERMAL SHOCK
- THE BROADEST OPTICAL TRANSMISSION SPECTRUM
- A WIDE ELECTRONIC BAND GAP
- A VERY LOW COEFFICIENT OF FRICTION
- EXCELLENT ELECTRIC INSULATOR PROPERTIES
- EXCELLENT P-TYPE (IIB TYPE) SEMICONDUCTOR PROPERTIES
- CHEMICALLY AND BIOLOGICALLY INERT (RESISTANCE TO ANY ACID AND BASE)

DIAMOND IS FAMOUSLY A VERY HARD MATERIAL, BUT IT ALSO HAS THE HIGHEST CHEMICAL STABILITY, AS WELL AS UNIQUE CONDUCTIVITY AND THERMAL SHOCK RESISTANCE.

CVD DIAMOND OFFERS OUTSTANDING PHYSICAL PROPERTIES TO A BROAD RANGE OF HIGH-TECH APPLICATIONS



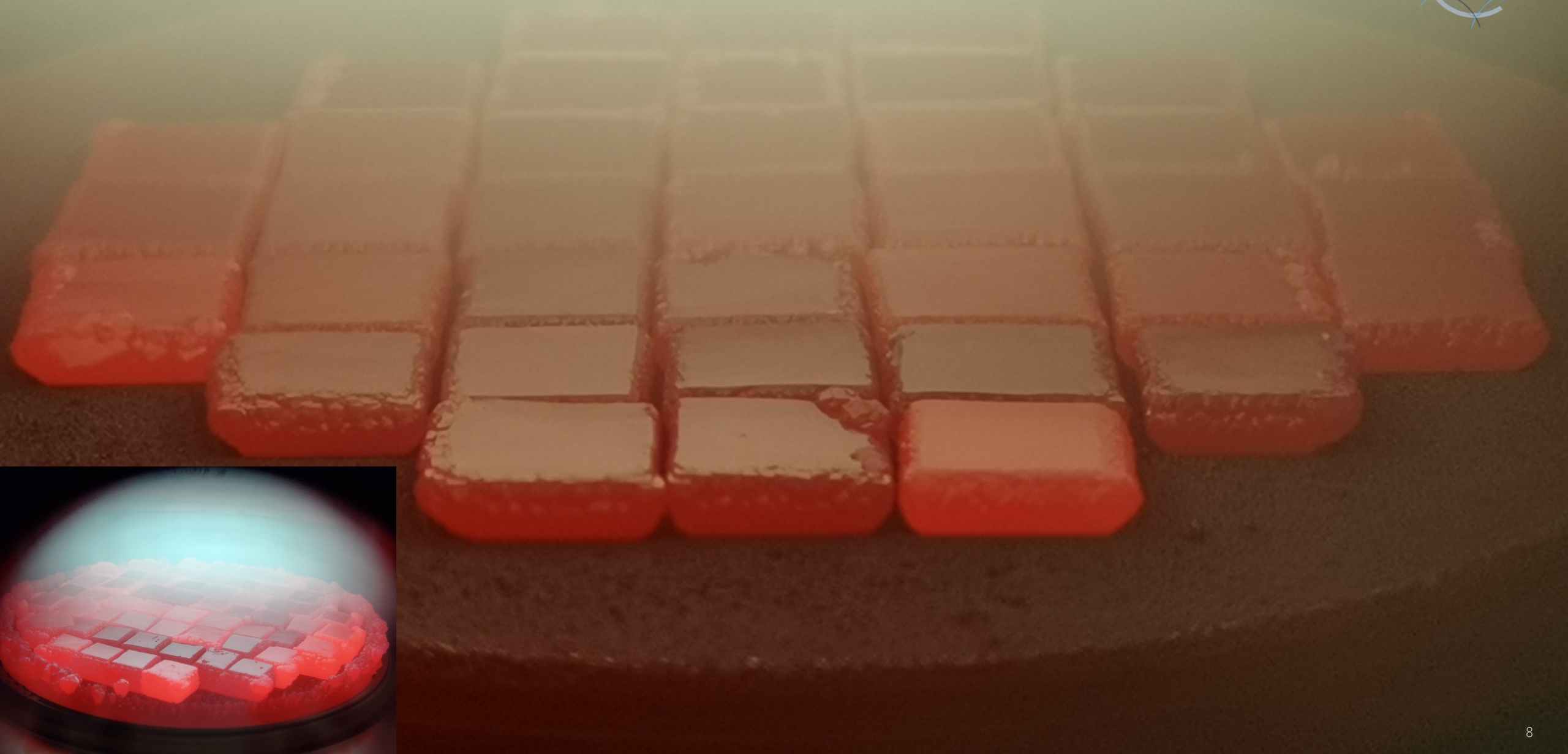
PARAMETER	Si	SiC	GaN	DIAMOND
THERMAL CONDUCTIVITY [W/M.K]	130	460	140	2000
BANDGAP [eV]	1.12	3.26	3.45	5.45
CRITICAL ELECTRIC FIELD (E_c) [MV/CM]	0.3	2.2	3.7	10
MOBILITY [CM ² /VS]	1450	700	1200	2000
BALIGA FIGURE OF MERIT (RELATIVE TO Si)	1	500	1300	23000

TRANSPARENCY	OPTICS
BIOCOMPATIBLE	MEDICAL DEVICES
TAILORED ATOMIC DEFECTS	QUANTUM & SENSORS
HARDEST MATERIAL ON EARTH	MICROMECHANICS
BEST MATERIAL TO DISSIPATE HEAT	PHOTONICS & ELECTRONICS
BEST MATERIAL TO SUSTAIN HIGH VOLTAGE	POWER ELECTRONICS
BEST MATERIAL TO WORK IN HARSH ENVIRONMENT	SPACE & DETECTORS



PROUD TECHNOLOGY : CVD LAB-GROWN DIAMOND

SWISS LAB-GROWN DIAMOND



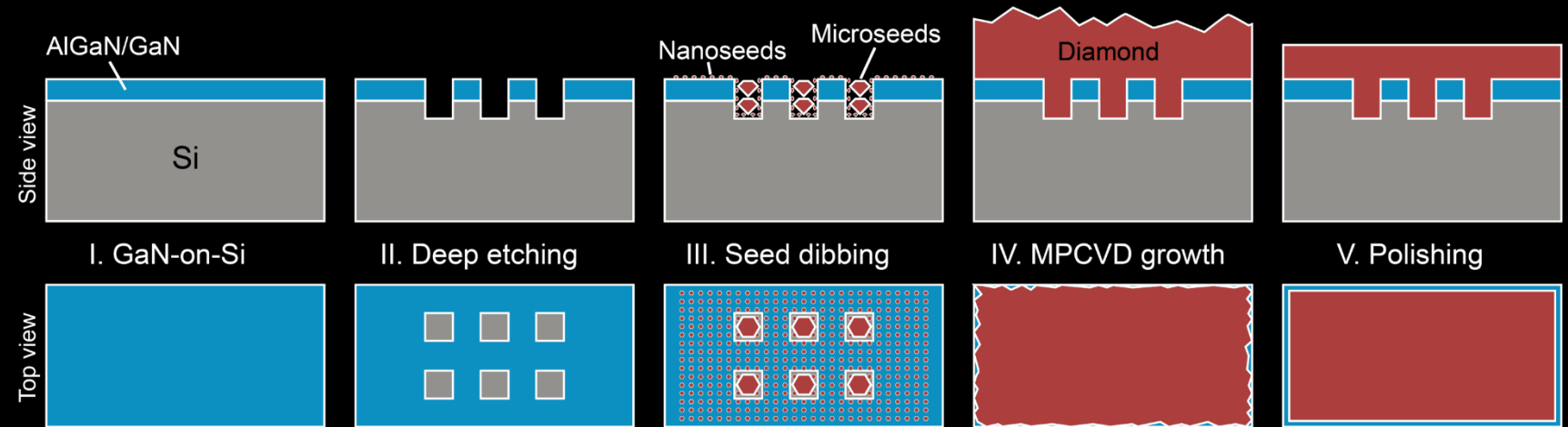
PROUD TECHNOLOGY : DEMONSTRATED TECHNOLOGY

PATENT FILLED WITH TTO



OUR STATE-OF-ART FABRICATION METHOD

INSPIRED BY AN
AGRICULTURAL METHOD



SEED DIBBLING DIAMOND GROWTH

- RELIABLE METHOD TO GROW HIGH QUALITY DIAMOND ON GAN
- COMPLETELY SOLVED THE ISSUE OF DELAMINATION
- ENABLED THE POLISHING OF DIAMOND
- OPENS PATHS FOR THE DEVELOPMENT OF FUTURE DEVICES

DIAMOND TRANSISTOR ON GAN

- EXCELLENT PERFORMANCES WITH A SIMPLE STRUCTURE AND FABRICATION PROCESS
- HIGH POTENTIALS FOR INTEGRATED CIRCUITS WITH GAN (CMOS, LOGICS, GATE DRIVER, POWER SWITCHES)

DIAMOND NEAR JUNCTION HEAT SPREADERS

- HIGHLY EFFICIENT IN REDUCING THE THERMAL RESISTANCES (2.5X) AND THERMAL GRADIENTS
- THE THERMAL PERFORMANCE OF GAN-ON-SI WAS UPGRADED TO SIMILAR PERFORMANCES OF GAN-ON-DIAMOND SUBSTRATES

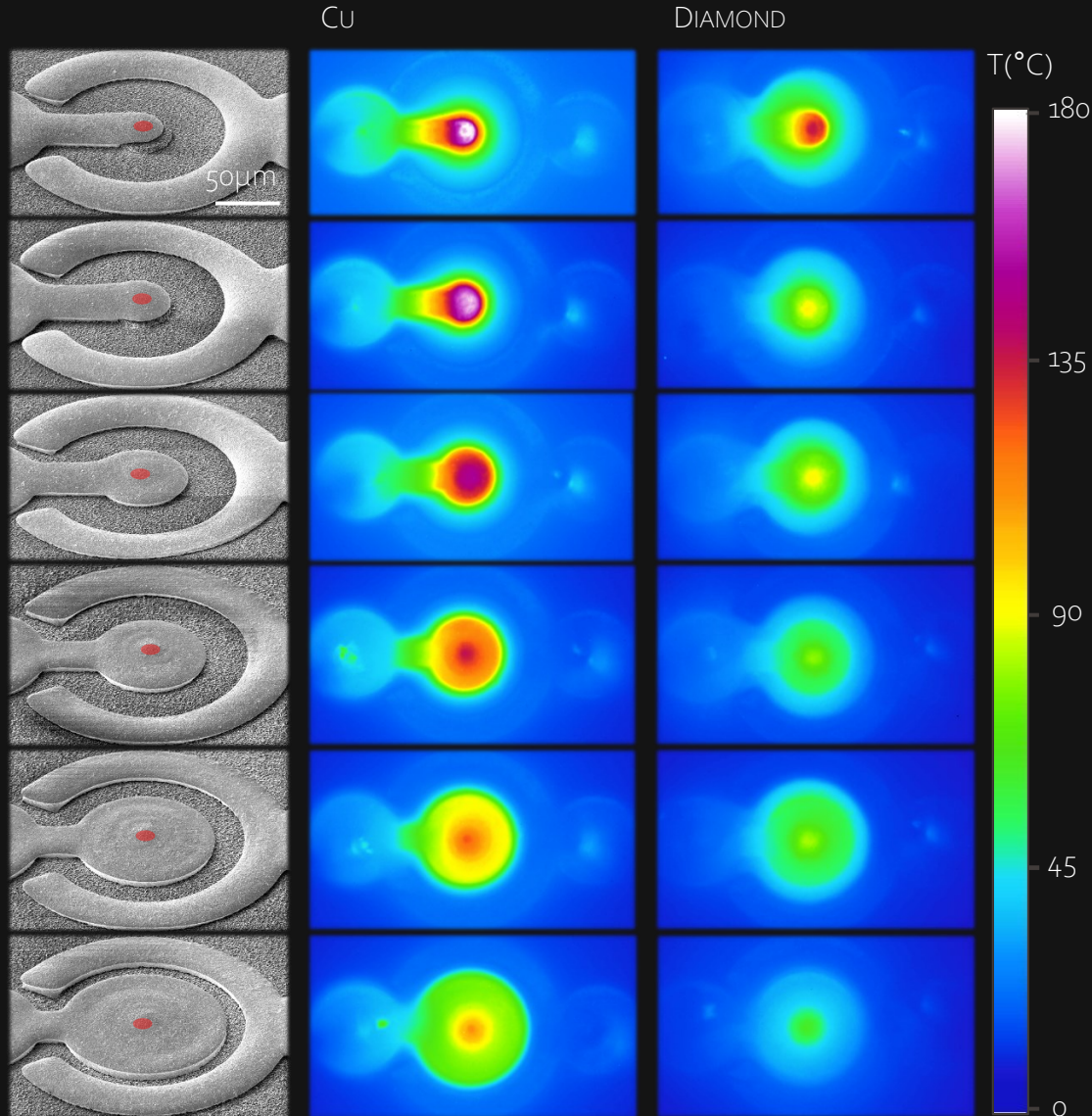


PROUD TECHNOLOGY : DEMONSTRATED TECHNOLOGY



OUR STATE-OF-ART FABRICATION METHOD

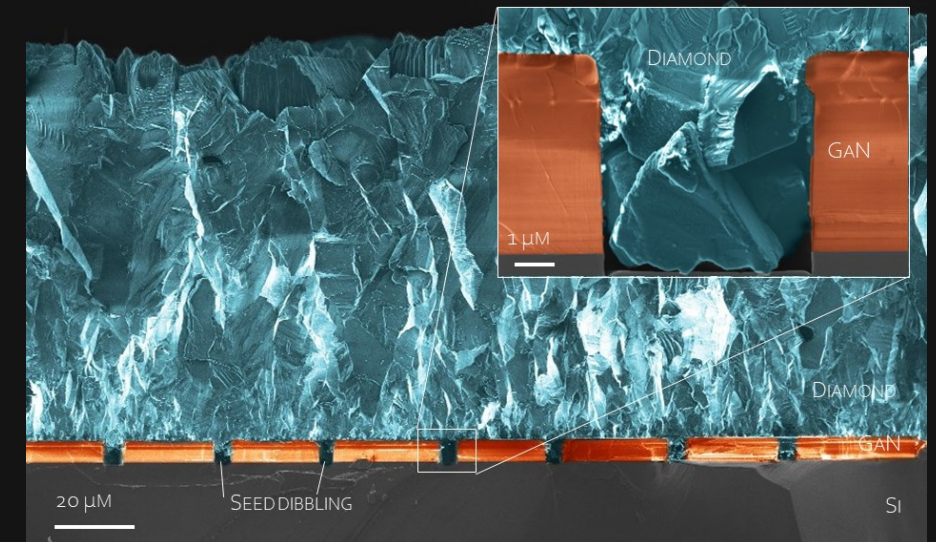
STEADY-STATE TEMPERATURE WITH HEAT SPREADERS



DIAMOND HEAT SPREADERS ARE VERY EFFICIENT:

- 3 µm DIAMOND ON AFFORDABLE GAN-ON-SI SUBSTRATES
- 50°C OF TEMPERATURE REDUCTION!
- ELECTRONIC LIFETIME MULTIPLY BY 5!
- THERMAL DISSIPATION CAPACITY MULTIPLY BY 7 (VS SI OR GAN)!

CVD DIAMOND GROWTH ON GAN-ON-SI



PATENT FILLED WITH TTO

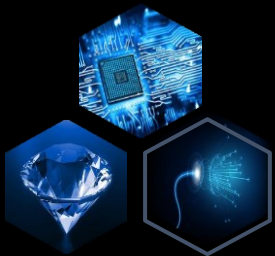


NEXT GENERATION OF SEMI-CONDUCTOR WAFER

TRI WAFER DIAMOND ON GAN ON SI WITH ENHANCED PHYSICAL PROPERTIES THAN TRADITIONAL ELECTRONIC WAFERS AT AN AFFORDABLE PRICE

- HIGH QUALITY SWISS LAB-GROWN DIAMOND
- COST EFFECTIVE & VALUE FOR MONEY
- RELIABLE SUPPLY CHAIN
- ETHICAL & SUSTAINABLE

PROUD
TECHNOLOGY



PROUD TECHNOLOGY : ADVANCED MATERIALS

PRODUCTS ▯ SOLUTIONS ▯ SERVICES

SWISS LAB-GROWN DIAMOND



LUXURY

- AS-GROWN OR PRE-SHAPED
- CUT & POLISHED
- FANCY COLOR
- MICRO-MECHANICS

- CERTIFIED BY GIA, IGI, HRD, GGTL
- 100 % SWISS MADE
- 100 % ETHICAL AND SUSTAINABLE
- 100 % TRACEABLE

HIGH-TECH

■ SEMICONDUCTOR

- TRI-WAFER Diamond on GaN on Si (EPFL IP)
- BI-WAFER Diamond on GaN (EPFL IP)

■ HIGH VOLTAGE

- DIAMOND-BASED TRANSISTORS

■ HIGH FREQUENCIES

- DIAMOND-BASED POWER AMPLIFIER

■ HIGH ENERGY LASER

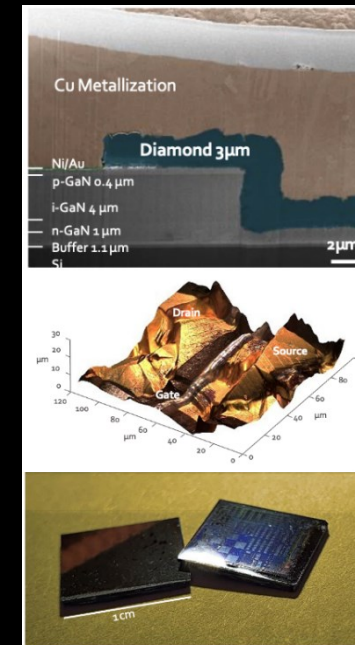
■ SENSOR

- AGGRESSIVE ENVIRONMENT (SPACE, RADIATION, CHEMICALS)
- VERY LOW MAGNETIC FIELD DETECTION (MEDICAL, MATERIAL CHARACTERIZATION)

LAB ACHIEVEMENTS

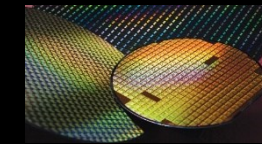
HIGH QUALITY DIAMOND ON SEMICONDUCTOR SUBSTRATE

- HIGH-QUALITY LAB-GROWN DIAMOND ON GAN
- PATENTED TECHNOLOGY

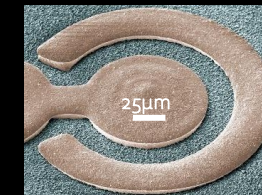


LAB ONGOING PROJECTS

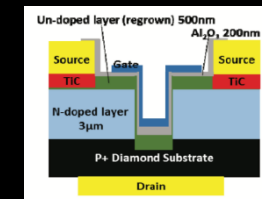
HIGH QUALITY DIAMOND ON ≠ SEMICONDUCTOR SUBSTRATE

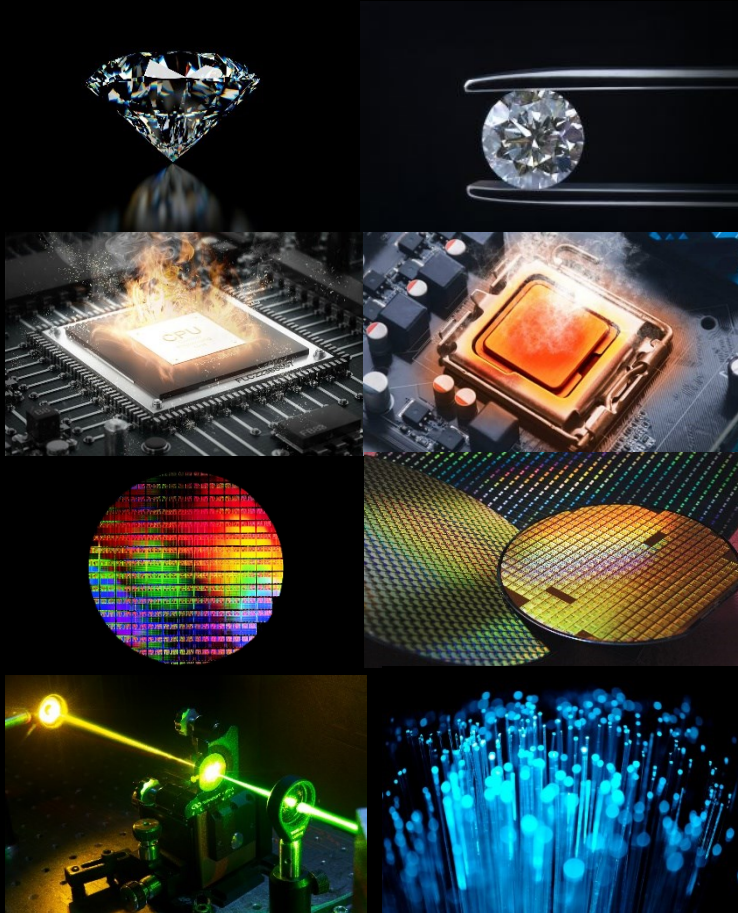


DIAMOND-BASED PIN DIODE HETEROSTRUCTURE



HIGH VOLTAGE P-CHANNEL MOSFET





NOVEL TECHNOLOGY & APPROACH : ONGOING PATENT FILING WITH THE EPFL TTO. NO PAST RECORDS OF SUCCESSFUL DIRECT DIAMOND GROWTH ON GAN-ON-SI CHIP. COMPLETE NEW APPROACH OF PRODUCING A SEMICONDUCTORS DIAMOND ON GAN BI/TRI-WAFERS

SCALABLE TECHNICAL SOLUTION : MANUFACTURING SYSTEM AND PROCESS CAPABLE TO ADAPT EASILY TO INCREASED WORKLOAD OR MARKET DEMANDS. IT'S ABLE TO BENEFIT FROM ECONOMIES OF SCALE AND QUICKLY RAMP UP PRODUCTION.

TARGETED IMPACT : REDUCE ENVIRONMENT IMPACTS. REMOVE TODAY'S HEAT MANAGEMENT LIMITATIONS TO UNLOCK POWER ELECTRONICS POTENTIAL



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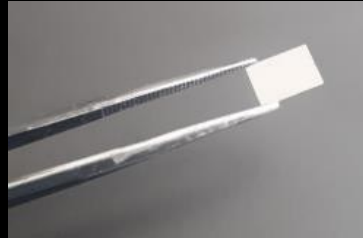
PROUD TECHNOLOGY : CVD LAB-GROWN DIAMOND

SWISS LAB-GROWN DIAMOND



100 % REUSABLE DIAMOND SUBSTRATE

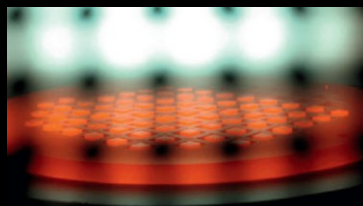
DIAMOND SUBSTRATE AS A SEED MATERIAL



GASES ARE INTRODUCED IN THE DEPOSITION CHAMBER

PLASMA IS FORMED

DIAMOND GROWTH STARTS



CUT & POLISH



CARBON DIOXIDE EMITTED COMPENSATED



CLOSED LOOP WATER-CIRCUIT



100 % GREEN ENERGY SWISS HYDRAULIC POWER



GREEN HYDROGEN PRODUCTION WITH RENEWABLES ENERGIES

BIO-METHAN FROM ORGANIC MATERIALS



CO₂ FROM THE AIR SWISS-MADE SOLUTION





PROUD TECHNOLOGY : CVD LAB-GROWN DIAMOND

SWISS LAB-GROWN DIAMOND



PRODUCTION SITE (SUISSE ROMANDE)

- EQUIPMENT (REACTORS FOR GROWTH & POST-TREATMENTS)
- 20 MIN FROM EPFL AND 40 MIN FROM GENEVA
- ACCESS TO SWISS RENEWABLES ENERGIES
- SECURED AREA

TRANSFORMATION SITE (GENEVA, FREE PORTS)

- EQUIPMENT (POLISHING MACHINES, LASER SYSTEMS & CHEMICALS)
- DIRECT ACCESS TO PARTNERS & CUSTOMERS
- EASY ACCESS TO DIAMOND SETTER
- ACCESS TO LAB PARTNERS (GGTL)
- SECURED AREA

STRATEGIC PARTNERS (SWITZERLAND, FRANCE, GERMANY)

OUR ECOSYSTEM



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THANK YOU

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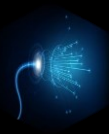
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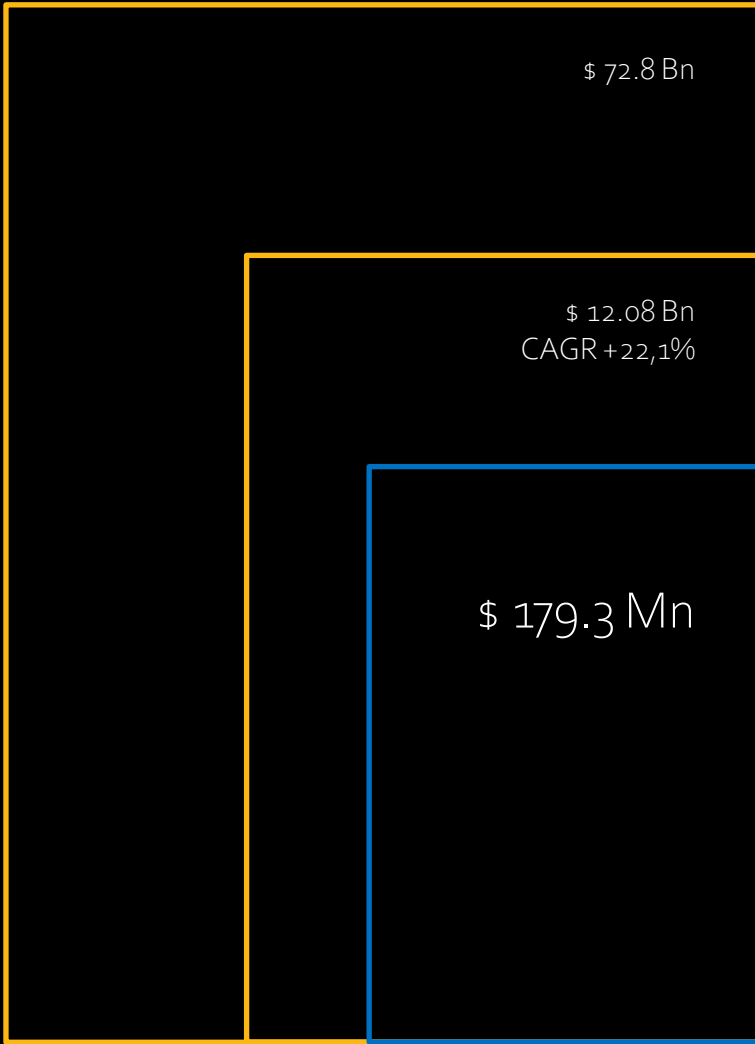
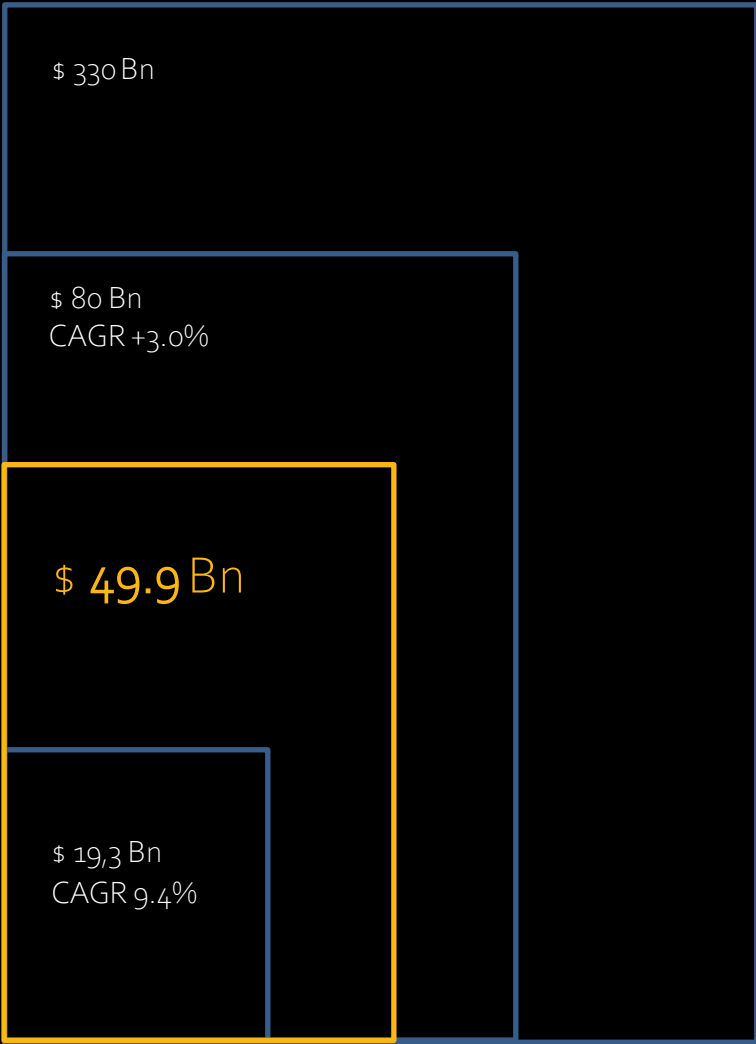
MARKETS & TRENDS : OVERVIEW



LUXURY



HIGH-TECH



GLOBAL GAN SEMICONDUCTOR DEVICES MARKET (2030)

GLOBAL GAN SEMICONDUCTOR DEVICES MARKET (2021)

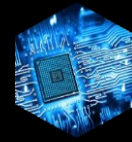
GLOBAL GAN ON DIAMOND SEMICONDUCTOR SUBSTRATES MARKET (2028)

DIAMOND ON GAN ON SI SEMICONDUCTOR SUBSTRATES MARKET (START 2023)

<https://www.alliedmarketresearch.com/lab-grown-diamonds-market-A13694>

<https://southeast.newschannelnebraska.com/story/46218631/gan-on-diamond-semiconductor-substrates-market-worth-usd-1793-million-globally-by-2028-at-197-cagr-and-classification-application-industry-chain>

<https://www.psmarketresearch.com/market-analysis/gallium-nitride-gan-semiconductor-devices-market>



MARKET LANDSCAPE

TARGETED HIGH-TECH COMPANIES



POWER ELECTRONICS

ABB SUMITO ELECTRIC
 EATON INFINEON
 L3HARRIS NXO
 RENESAS TOSHIBA
 FUJI ELECTRIC FE

MICROSEMI CORPORATION

STMICROELECTRONICS

ROCKWELL AUTOMATION

TEXAS INSTRUMENTS

PRYSMIAN GROUP

MITSUBISHI ELECTRIC

QUANTUM COMPUTING

QUANTUM BRILLIANCE
 PSI QUANTUM
 XANADU
 Q-CTRL RIGETTI
 DWAVE SEEQC

HARDWARE

DOVER MICROSYSTEMS
 TENSTORRENT
 RASPBERRY PI
 MSI CLOUNIX
 ASUS GRAQ

SEMICONDUCTOR MANUFACTURER FOUNDRY

WIN SEMICONDUCTORS TSMC
 SAMSUNG POWERCHIP
 HUAHONG GROUP UMC
 GLOBAL FOUNDRIES SMIC
 TOWER SEMICONDUCTOR

SEMICONDUCTOR MANUFACTURER WAFER

SILTRONIC
 TMGCORE
 SOITEC
 NTT
 IQE

FABLESS

AEONSEMI
 WILIOT
 USOUND
 AEAPONYX
 SCALINX

FABS

KIOXIA
 SMIC SJSEMI
 CANSEMI ZTE
 SMART PHOTONICS

SENSORS

SOREXSENSORS
 SKYRORA
 DISPLAY

LIDAR

LEDDAR TECH
 LUNEWAVE
 SOSLAB
 TRIEYE

AI CHIPS

KNERON
 ENFLAME
 UNTETHER AI
 ANOTHER BRAIN
 HAILO
 CEREBRAS
 MYTHIC

CHIP DESIGNER

SAMSUNG
 INTEL
 NVIDIA
 HUAWAI AMD
 THALES IBM



MARKET LANDSCAPE

TARGETED PRESTIGIOUS LUXURY BRANDS



AArush Diam
Explore

All Star Diamond
Explore

ALTR
Explore

Beijing Arimas Technology
Explore

Brilliant Rays
Explore

Caraxy
Explore

Chatham
Explore

Chelsea Rocks
Explore

Classic Crown Diamonds
Explore

Courbet
Explore

Cultrd
Explore

CVD Diamond
Explore

Grandeur International
Explore

Green Rocks Diamonds
Explore

Grown Diamond Corp
Explore

Guide Diamond
Explore

Heyaru Engineering NY
Explore

Hoover & Strong
Explore

IGI
Explore

Ila Technologies
Explore

JC Jewels
Explore

Joseph Schubach Jewelers
Explore

JOY COLORI
Explore

Lab Grown Source
Explore

Lark & Berry
Explore

Limelight Diamond
Explore

Lumex
Explore

Luoyang Qiming Superhard Material
Explore

M. Geller Diamonds
Explore

Maitri Diamonds
Explore

MHL Trading LLC
Explore

Platinum Art Jewelry Ltd Hong Kong
Explore

Microwave Enterprises
Explore

Neustaedter's Fine Jewelers
Explore

Nishal Gems
Explore

Real Illusion
Explore

PATEK PHILIPPE GENEVE BREITLING 1884 TAGHeuer OMEGA DAVID YURMAN JOHN HARDY MARCO BICEGO ROBERTO COIN LAGOS Cartier

HUBLOT JAEGER-LECOULTRE CITIZEN BULOVA MOVADO IWC SCHAFFHAUSEN TUDOR PANDORA SWAROVSKI

AUDEMARS PIGUET LE BRAS ROLEX ID GENEVE AGUAdeORO J E M Cartier HARRY WINSTON GREEN WORLD DIAMONDS CO COURBET

Numined Diamonds
Explore

Nuvo Diamond
Explore

Orotech Industries
Explore

Plasmability
Explore

Pure Grown Diamonds
Explore

Pure Stone Diamond
Explore

Quality Gold
Explore

Stella Diamond, Inc
Explore

ReinRare
Explore

Seki Diamond
Explore

Shenzhen Kemeizuan Technology
Explore

ULTRA C
Explore

Shinebright Lab Grown Diamonds
Explore

SJ Zale Atelier
Explore

Smiling Rocks
Explore

Soha Diamond Co.
Explore

Stone Oak Jewelers
Explore

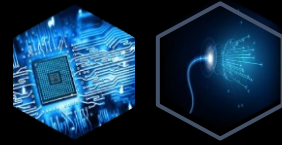
Stuller
Explore

The MVEye
Explore

Varni Lab Grown Diamonds
Explore

Very Diamonds Ltd Hong Kong
Explore

Virtual Diamond Boutique
Explore



DIAMOND-ON-GAN

- **FUJITSU LABORATORIES:** FUJITSU AIMS TO COMMERCIALIZE IMPROVED-HEAT-DISSIPATION GAN HEMT AMPLIFIERS IN YEAR 2022 FOR USE IN WEATHER RADAR SYSTEMS AND NEXT-GENERATION WIRELESS COMMUNICATION SYSTEMS. THEY USE A DIFFERENT APPROACH THAN PROUD TECHNOLOGY. USING A MIX OF DIAMOND AND GRAPHITE.

GAN-ON-DIAMOND

- **ELEMENT SIX (R&D)**
- **AKASH SYSTEMS** (SPACE APPLICATIONS : POWER AMPLIFIER AND RADIO-TRANSMITTER BASED ON GAN-ON-DIAMOND SUBSTRATE). AKASH SYSTEMS AIMS TO DEVELOP A NEW GENERATION OF SMALLER, LIGHTER, MORE EFFICIENT SATELLITES AND THE COMPONENTS THAT POWER THEM TO PAVE THE WAY FOR LOWER LAUNCH COSTS, LOWER COST PER BIT, MORE LAUNCH CYCLES, IMPROVED ACCESS, AND HIGHER COMMUNICATION SPEEDS.
- **QORVO** (MILITARY AND TELECOM 5G, 6G 7G APPLICATIONS): QORVO IS AN AMERICAN SEMICONDUCTOR COMPANY THAT DESIGNS, MANUFACTURES, AND SUPPLIES RADIO-FREQUENCY SYSTEMS FOR APPLICATIONS THAT DRIVE WIRELESS AND BROADBAND COMMUNICATIONS, AS WELL AS FOUNDRY SERVICES. THEY WORK WITH GAN-ON-DIAMOND TECHNOLOGY FOR MILITARY APPLICATIONS (WITH LOCKHEED MARTIN, DARPA PROJECT).
- **RFHIC CORPORATION** : RFHIC IS A COMPANY SPECIALIZED IN GAN TECHNOLOGY FOR THE FABRICATION OF MW GENERATOR SYSTEM. RFHIC CORPORATION PURCHASED GAN ON DIAMOND IP FROM E6 – A PART OF THE DEBEER’S GROUP BACK IN 2017 AND HAS DEVELOPED THE WORLD’S FIRST COMMERCIALIZED GAN ON DIAMOND TRANSISTOR FOR DEFENSE, MILCOM, RF ENERGY, AND COMMUNICATION APPLICATIONS. THEY DO NOT PUBLICLY COMMERCIALIZE ANY GAN ON DIAMOND TRANSISTOR SO FAR. THEY ONLY OFFER GAN-ON-SIC TRANSISTOR.
- **MITSUBISHI ELECTRIC CORP**
- **DIAMOND FOUNDRY**

GRAPHENE

CARDEA

PARAGRAF

NANOTECH ENERGY

SKELETON TECHNOLOGIES

GALLIUM NITRIDE GAN

GAN SYSTEMS

VISIC TECHNOLOGIES

EXAGAN

SILICON CARBIDE SIC

SGKS

GENESIC

PALLIDUS



COMPETITIVE ANALYSIS



Europe and Middle East: ~0.5 Mcts

- AOTC
- Ziemer Technologies
- Green Rocks
- Lusix

Russia: ~0.2 Mcts

- Wonder Technologies
- New Diamond Technology

China: ~3 Mcts

- Ningbo CrysDiam Industrial
- Shanghai Zheng Shi Technology
- Zhengzhou Sino-Crystal Diamond
- Zhongan Diamond
- Henan Huanghe Whirlwind

US: ~1 Mcts

- Diamond Foundry
- Lightbox/Element Six
- Washington Diamonds

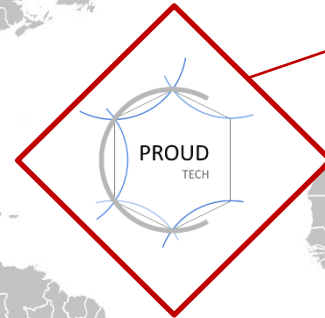
WE ARE HERE 😊

India: ~1.5 Mcts

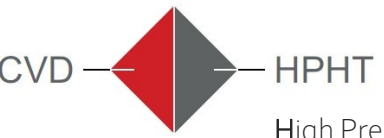
- Creative Technologies
- New Diamond Era
- Diamond Elements
- ALTR

Singapore: ~1 Mcts

- Iia Technologies
- Trosik



Chemical Vapor Deposit



High Pressure High Temperature