

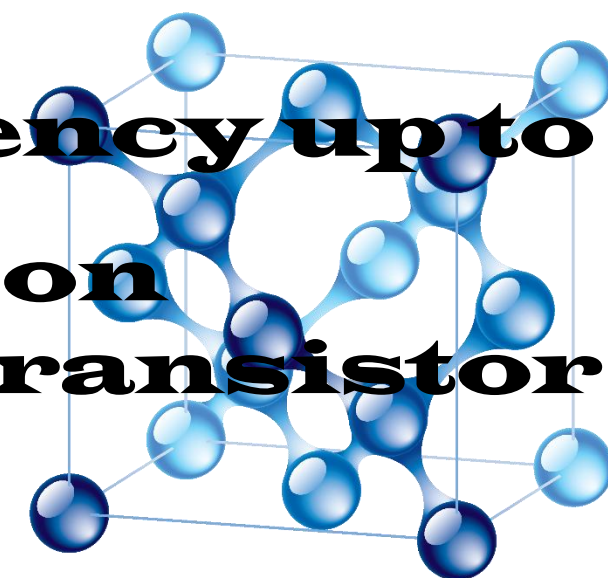
Decades of computing and electronics



The same old materials



Transistor efficiency up to 5X in comparison to a silicon transistor



Up to 22X better heat conductivity in comparison to a silicon transistor

Up to 300°C working temperature vs. 50°C in

Ability to miniaturize the transistor to nanotechnology sizes

31172632 143 327341233 24 314526 51233
 346251520 26136 143 333733 52 53 563
 475743 71534115 424 1637254115 374322320
 233314131556 16 563 2371326373524
 16372546X

3 17 63 163 5634 237 3 63735 42

	Silicon X21.	Silicon Carbide X213.	Gallium Nitride X516.	Diamond
Band Gap X34.	1.11	3.26	3.39	5.47
Breakdown Field E_c X74. 37.	0.3	3.5	3.4	10.0
Electron Mobility μ_e X372. 42.	1,500	800	900	2,200
Thermal Conductivity X2. 37 .	1.5	4.9	2.0	21.3





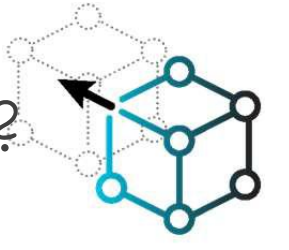
2522 4153 24 33322 15126

6156 34237 35126 3225?



626 62725 36327? 323165

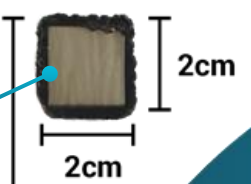
34625!5 312523!5 126 12273?



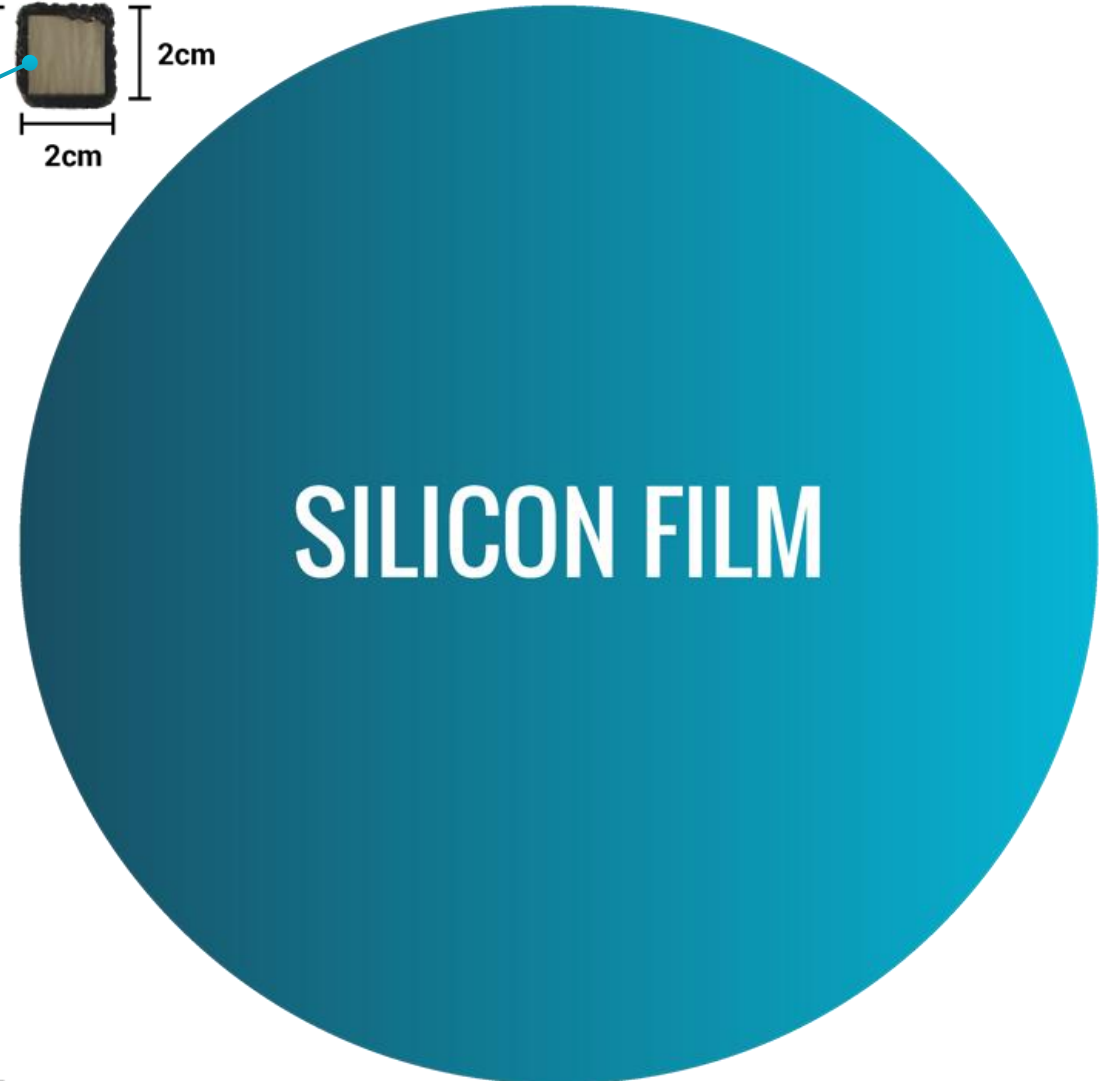
1715!5126 16 2113 373 52 56314 67353!5126 2333

2113 23cm

CVD Diamond



~ 23cm



SILICON FILM

3744365 5336625256 12 625 2715!553 424 2371
326373524 16372541!5 37432232 21633 5636
316625 3423733 5!453 23153 216553 34625!5
3!17263 4!572X

22 4!40 **no competitors offer single-crystal diamond films** - 2656 325634625!55163 4!57? !63
5372 !43 !4!15!553 26 563 2!4435X

6241126 374233 3 31333534!524



52 3343523 | 62435 3423735126 34233743 424 5422165 51453 23153 | 63 6156
1715156 216553 3462515 3117263 41572 424 563 2371326373524 | 63
35335426132 | 6372546X
X

- **Multidisciplinary team of 4 highly skilled professionals**
- **1 patent pending**
- **Supported by the Israel Innovation Authority. Eligible for EIC grants.**
- **Selected as one of the best startups in K-Startup grand challenge (Korea), Wolves summit (Poland), HTVD (Germany), GoGlobal international Energy Vest**



6241126 374233 3 3 13335341524

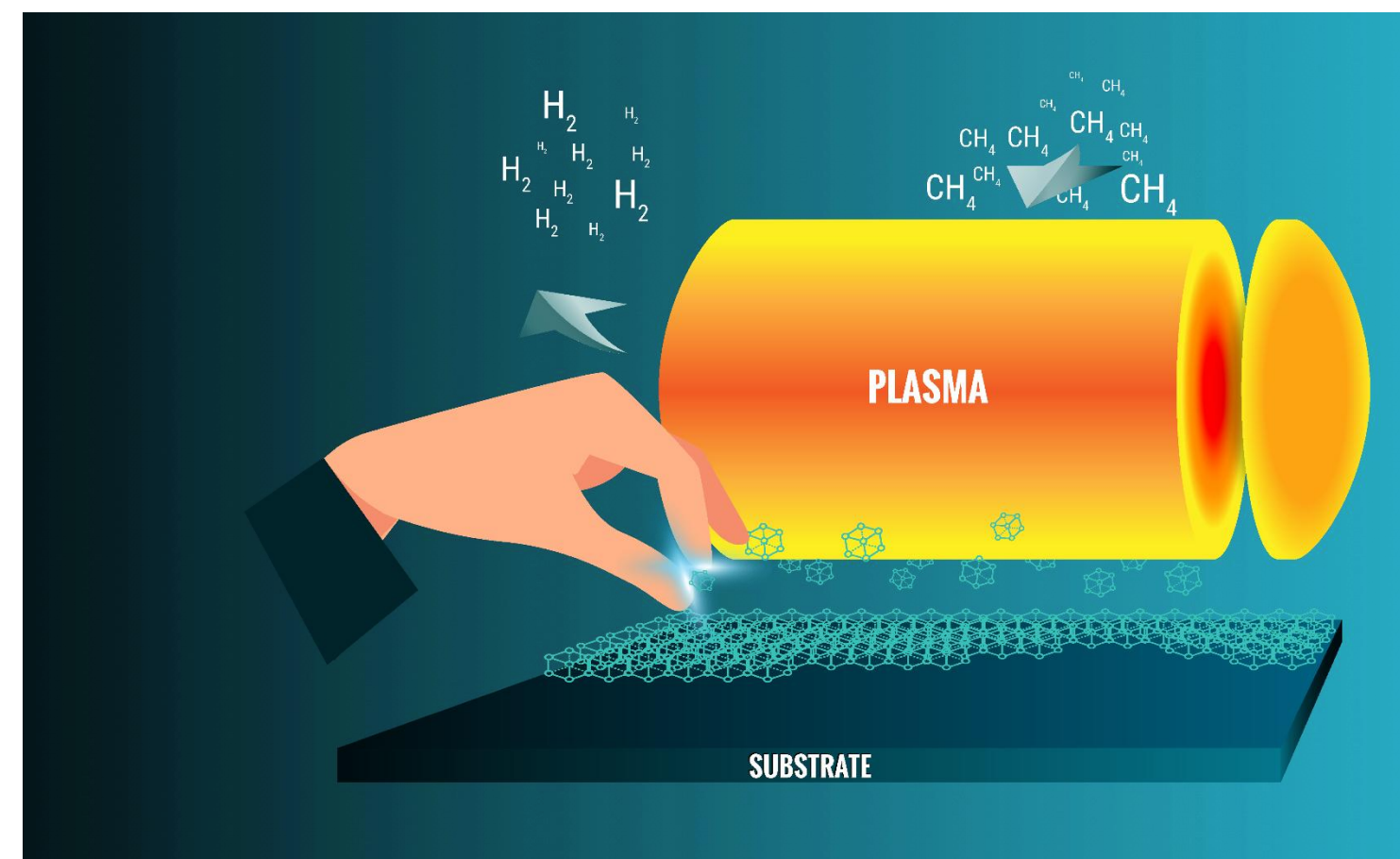
2354 ?3?156330

315365330 66541? 43

343 ?6?5370

15 34625 15360 274 735623 12 51233 26 2354
12237556 5336625256X 74 761173 13342136 24
327516165 36371315 41324 3332215126 X343
2156 6621315 41324 3332215126 X 43
43157432 12 3131553 24 5422165 216553
34625155163 3117263 214342 163 415720 32333
24 76323330 2156275 563 6333 24 6735315126
23332X

74 5336625256 3615532 563 3423735126 24
632 3117263 51233 715341152 13634165 52 563
6156 251631432 24 563 2371326373524 163
35335426132 16372546X



CrystalEn's technology introduces a major technological breakthrough that enables us to create a new generation of semiconductors:



41313 3462515 542256
X71551735342 561346322 334
6274.



423735126 24
523 1715156 34625152



Controlled process
X1715156 7 2113.



332 44136356 53366252560
2156 62 134115 325575126



62 6735315126 2333



6323362143 163 4313156
141151553 715341152



3462515 2113 12 326542551553
56 563 5336625256

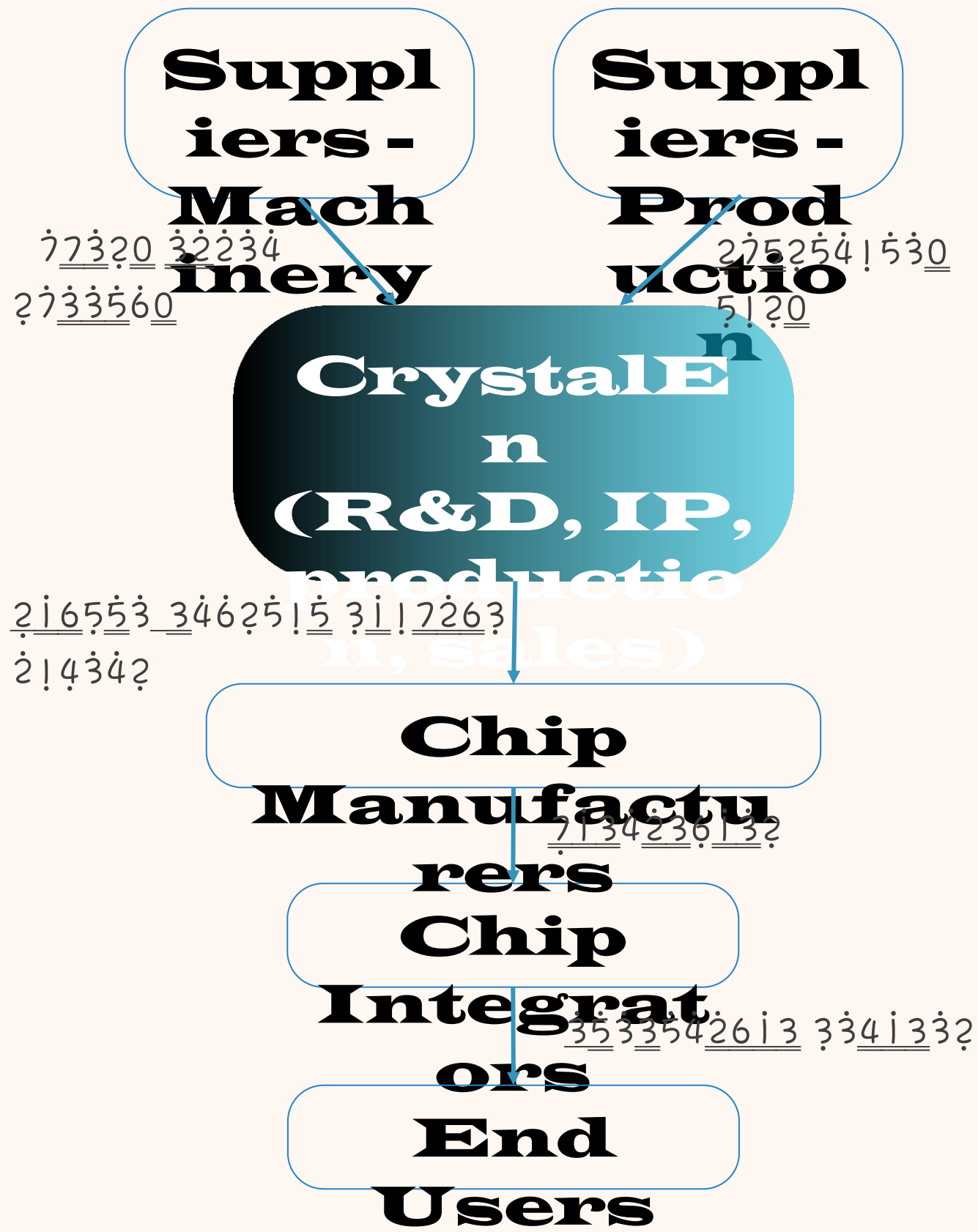


216553 3462515
23713263735242

(>6", similar to current silicon

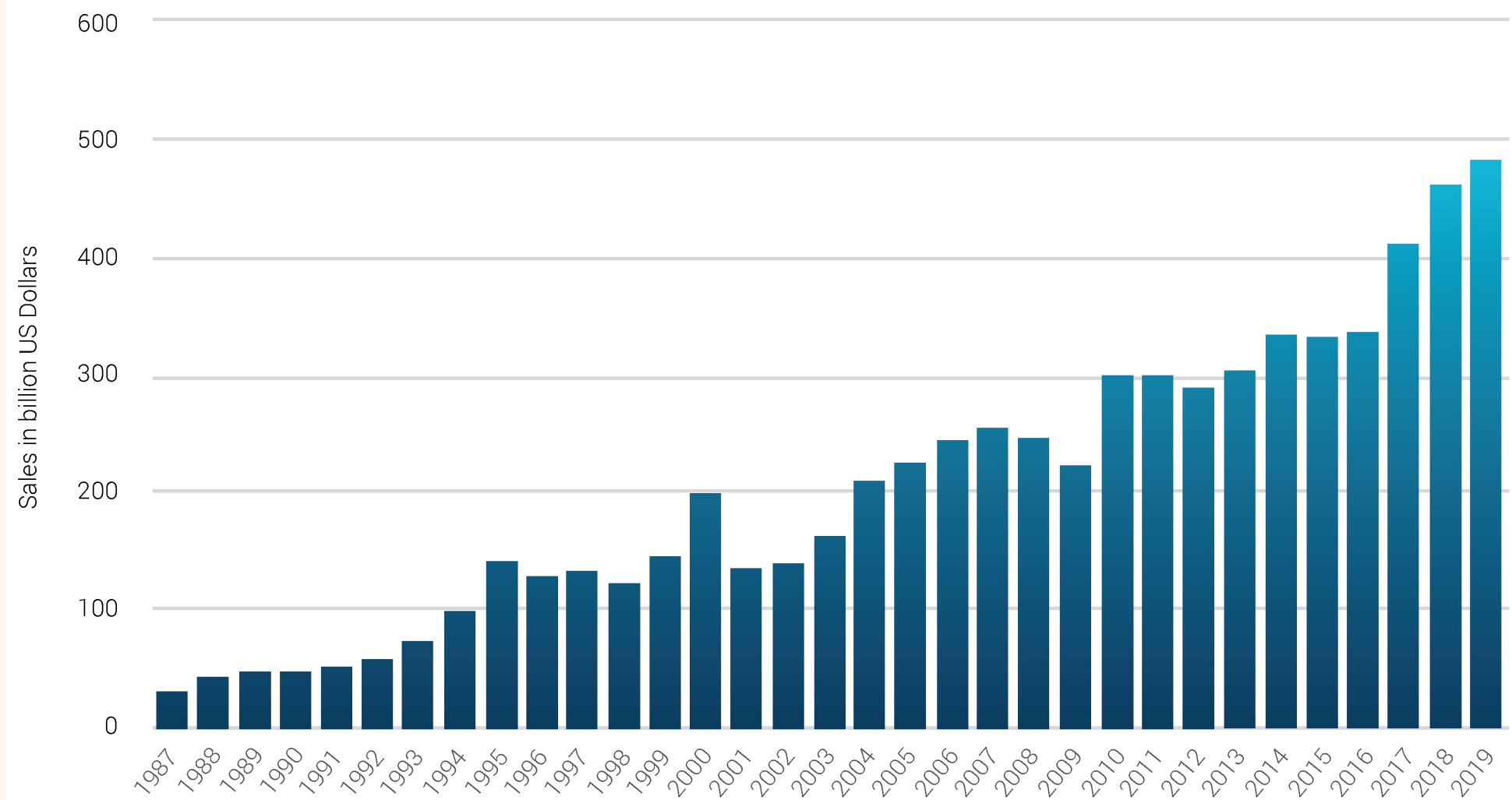
(undoped and p-or n-doped)





552515 2371326373524 714435
 36. 5 X2. 2. . _ 60. 5 X2. 20. . = 3154 0X65

Semiconductor Sales Revenue Worldwide from 1987 to 2019 (in billion US dollars)



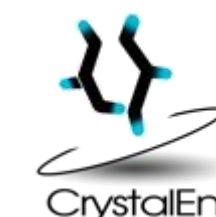
Additional Information: Worldwide WSTS 1987 to 2017

6241126 374233 3 3 13335341524



- **SCD semiconductor wafers and films.**
- **Production and sale**
- **Licensing**
- **R&D**

The company holds a signed LOI for basic product purchase from Dare Labs, and is in constant connections with industry partners, Intel, TOSOH, and Kyocera.





CEO

74X 23334 6!2 7243 56!6 2. 63!42 24 32334!3633 i6 736524!650
 572!6322 7!6!5373650 !63 3262755!65 i6 563 4!353 24 53366252560
 54!330 !63 4!6!633X !2 !6 3654334363740 74X 23334 6!2 73652433
 67734272 5336 3653434!232 i6 350 4!653360 !63 73!274!65 3!7!37365X
 63 62532 ! 5!363524 2 335433 i6 5!2 4427 5!4 5!6 76!4342!56 !63 6!2
 3434!27256 234433 i6 563 35!53 76!52 24 563 34X



CTO

34X 53434 i2 !6 323345 i6 563 4!353 24 34625!5 5422!65 53366252560
 !63573!65 563 33435237365 !63 4323!436 24 34625!52 i6 !33!5!26 52 332!56
 !63 365!6334!65 24 34625!5 5422!65 2625372X 63 6!2 6353 236!24 322!5!262
 i6 53!3!65 5336 3273!6!320 2736 !2 36!34 3662!3! !60 26343 63 533
 365!6334!65 !63 33435237365 53!72X 63 6!2 !522 3755!2633 7!66 23!365!4!3
 !45!3532 i6 563 4!353 24 34625!5 5422!65 !63 62532 ! 63 i6 353354!3!5
 662!32 4427 535 !4!4 76!4342!56X 34X 53434 i2 ! 443!7365 53357434 !5
 4!4!272 !3!337!3 i625!575!262X



Electrical Engineer

74X !54!724 i2 !6 32334!36333 353354!3!5 365!63340 2!56 !
 2333! !5! !5!26 i6 2625372 36!4!3534! !5!26X 63 i2 !6 !34!234 i6
 563 4!353 24 533662525!3!5 572!6322 33435237365 !63 35335426!32
 !377252365X 63 3434!27256 234433 !2 563 3 !63 ! 3427335 53!334
 424 6!56 5336 3273!6!32X 74X !54!724 62532 ! 5!363524 2 335433 i6
 353354!3!5 365!6334!65 4427 **SCEX**



System Engineer

34X 23!6253!6 i2 34625!53672 63!3 262537 365!63340 54!65!65 7243 56!6 3.
 63!42 24 32334!3633 52 563 5!553X 63 6!2 32334!3633 i6 7755!3!23!35!63
 332!560 !63573!65 2625372 !65354!5!26 !63 563 76!26 24 235!3!5
 353354!3!560 25473574!5 353354!3!560 !63 35335426!32 !652 ! 263 262537
 735623X 34X 23!6253!6 i2 !522 563 53!3 !34!224 52 523 5336625256
 3273!6!32 !63 !3!337!3 i625!57532X 34X 63 62532 ! 63 i6 662!32 4427 535
 !4!4 76!4342!56X

624!126 374233 3 3 !333534!524



CrystalEn