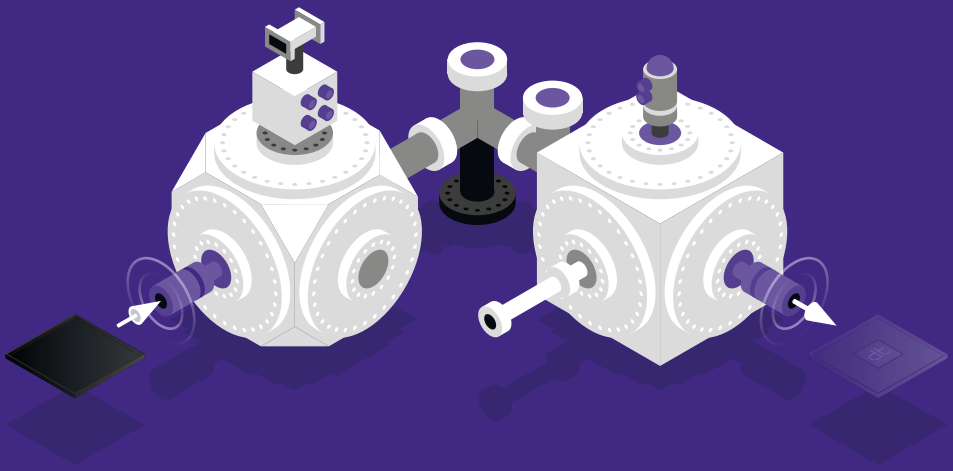


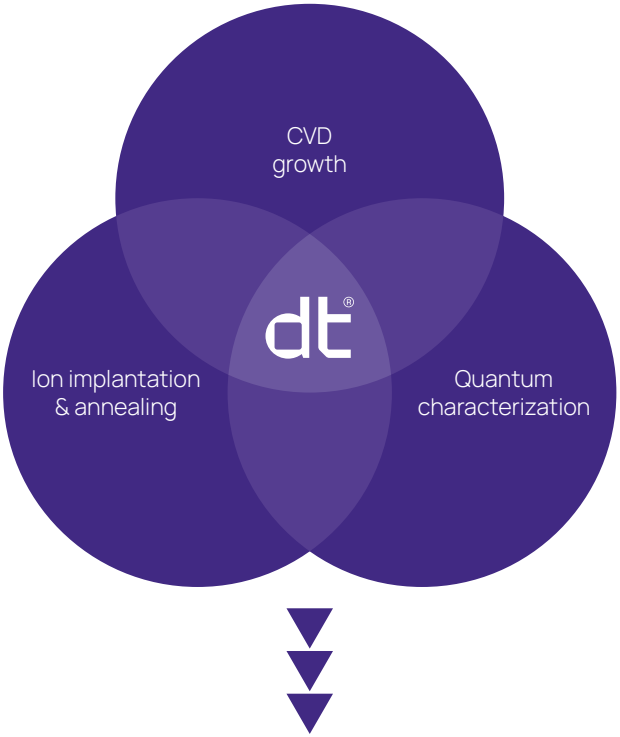
About us

What does **Diatope** offer?

We at Diatope develop and produce synthetic diamond material with qubit and sensor properties designed and optimized for quantum sensing and computing applications.

Controlling the diamond composition on the atomic level is one of the key advantages of Diatope's production methods. We achieve this by combining CVD diamond growth, ion implantation and quantum characterization. By building the world's first quantum diamond fabrication line, we will become a key enabler for the solid-state quantum ecosystem.

We offer different diamond configurations ranging from isotopically-purified high quality diamond layers (^{12}C and ^{13}C) to reliably produced single or ensemble NV centers with certified and reproducable properties, such as depth with respect to the diamond surface, density and coherence time.



- Isotopically purified CVD layers on (100) and (111)
- NV doping (100) & (111)
- NV centers for external spin sensing
- NV centers coupled to ^{13}C spins for quantum devices
- Combining ion implantation and CVD overgrowth
- Fabrication line under construction