Use Cases: Internal



Diamond platform

Communication

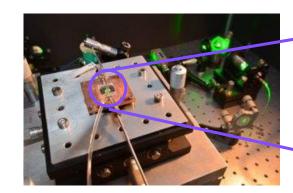
Task	Company	RTO	Use-Case
T6.11	Diatope	TNO,IMEC, FhG-IAF	MW structures for NV spin characterization

What & Why

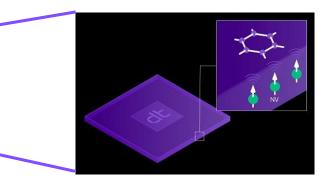
- Microwave structures for efficient/homogeneous nitrogen vacancy (NV) spin driving
- For quantum sensing applications (single-molecule NMR or electronics inspection)

Task

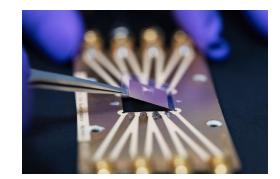
- Design of MW antenna structures
- Microfabricated antennas on diamond
- Testing and benchmarking of structure with NV centers for quantum sensing



Sample holder mounted on system



NV diamond for nanoscale sensing



Sample holder with MW structure on diamond

