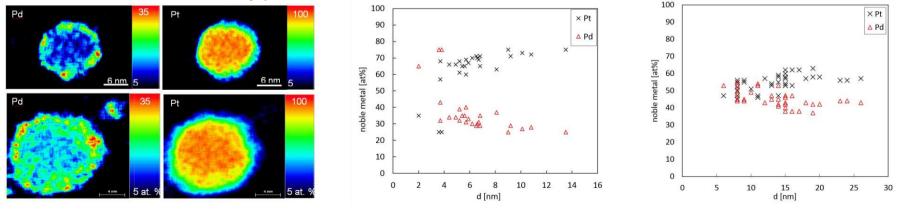
Pt/Pd: De- und Reactivation - DOC FVV-Project 1141



- **Material:** Diesel Oxidation Catalyst (DOC) with Pt and Pd as active metals
- Objective: Impact of composition, aging, and oxidation state of the active components on characteristic properties and reaction kinetics
- Work
 - Characterization and kinetic studies of fresh and aged Pt-DOC, Pd-DOC and Pt/Pd-DOC
 - Development and validation of kinetic model for aged Pd-DOC and Pt/Pd-DOC
- Results
 - Very complex morphology of fresh and aged Pt/Pd DOC found
 - Particle size distribution and metal composition and in-particle spatial distribution varies and changes during aging
 - Kinetic parameters of Pt/Pd catalyst need to be estimated separately and can not be deducted from Pt- and Pd-only parameters



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