

# 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 deduced from Pt- and Pd-only parameters

