

UKRI/STFC interests in EuPRAXIA WP9

- Sustainable technologies
 - Sustainable Accelerator Task Force
 - **Impact Review** report in preparation
- Permanent magnets
 - **ZEPTO**: 2 tuneable PM quad prototypes, one dipole prototype, one quad installed on Diamond
 - **HEPTO**: PM combined-function DQ magnet with coils
 - **ECRIS**: tuneable PM dipole for ion sources
 - Shimmable **Halbach quad** for beam capture from laser-plasma @ EPAC
- Thin film SRF
 - Development of **coating technology**
 - Cavity deposition
 - SRF testing
- High-efficiency klystrons
 - Collaboration with Lancaster University
 - Concept for **PM solenoids** in klystrons
- Superconducting undulators
 - Machining and winding of **325mm prototype**
 - Soon to be tested at **4K**
 - Next step: **1m prototype**
 - Final goal: **2m module** for deployment on XFEL facilities
- Magnetic measurements
 - Lab at Daresbury with Hall probe + stretched wire benches
 - Development of pulsed-wire technique

