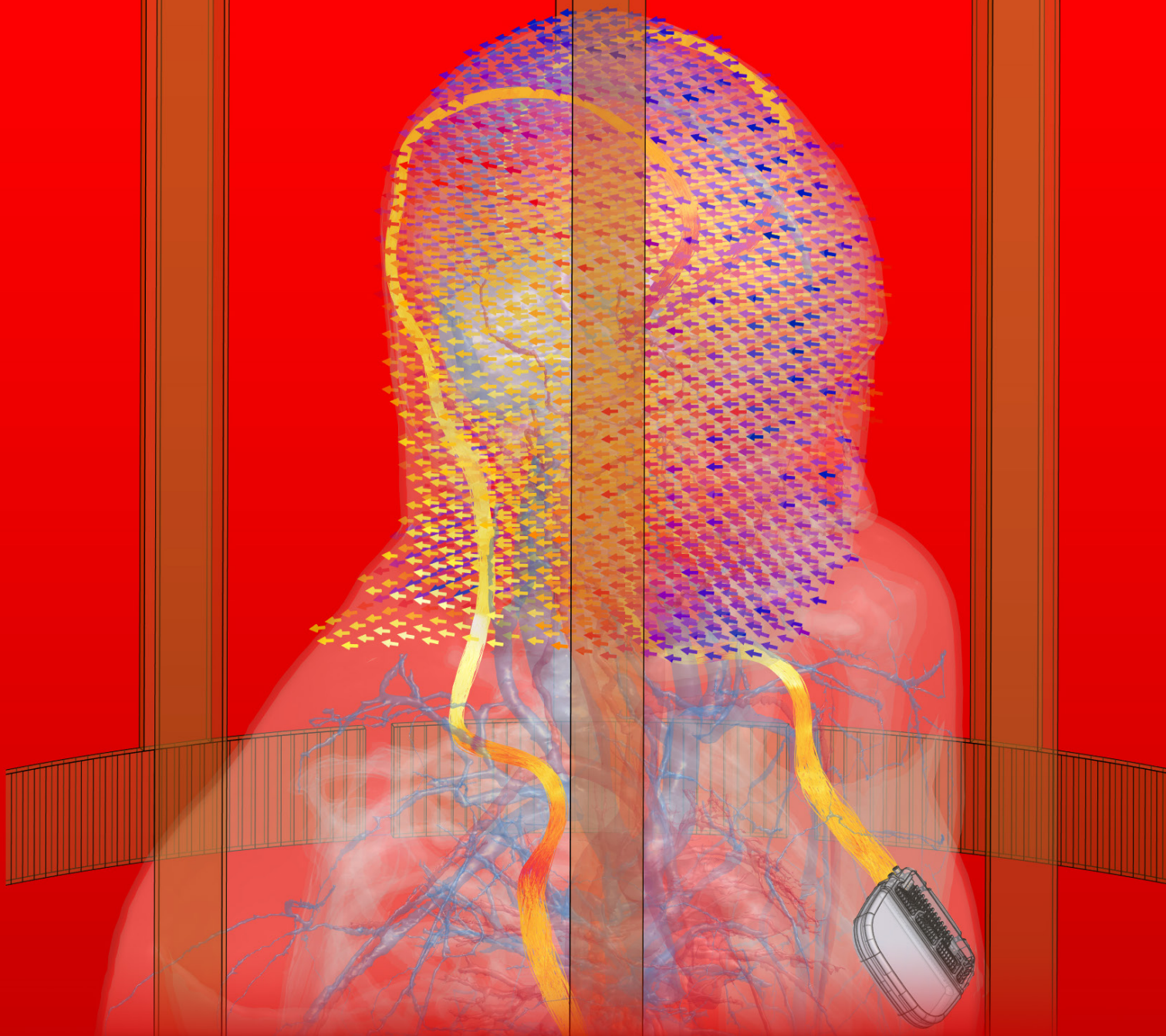


Custom R&D

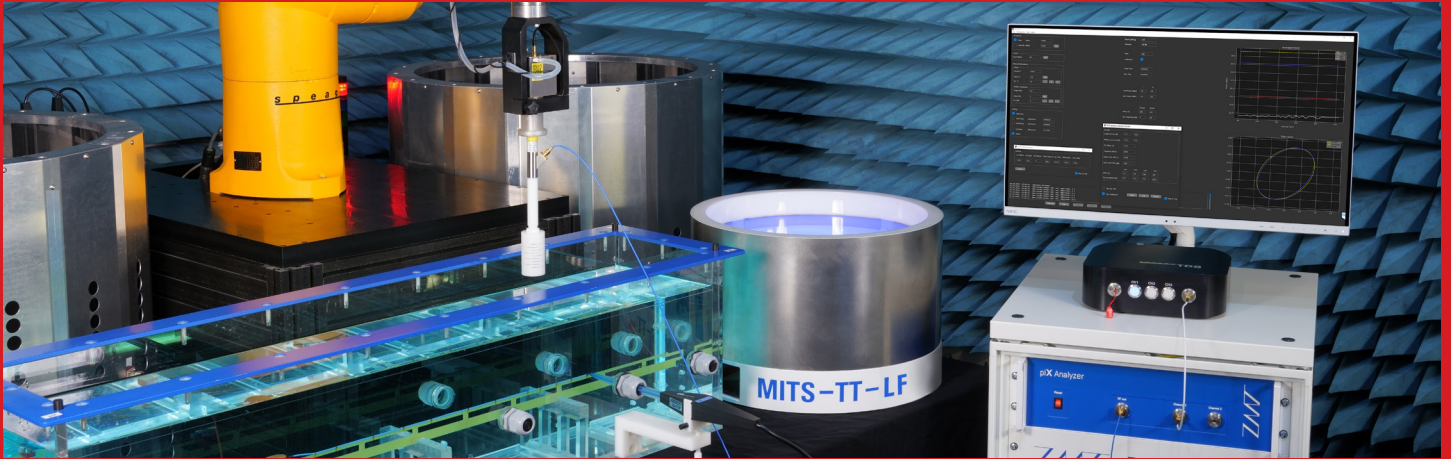


The IT'IS Foundation supports academic, industry, and regulatory partners with design, verification and validation (V&V), compliance, and computational life science assessments of the safety and efficacy of wireless technologies, medical devices

and therapies. We perform traceable measurements in our ISO/IEC 17025 accredited testing laboratory, and regulatory-grade numerical modeling and simulation in the anatomical models of the Virtual Population. Contact us to learn more!

Custom R&D

Supporting Your Innovation with Measurements and Simulations



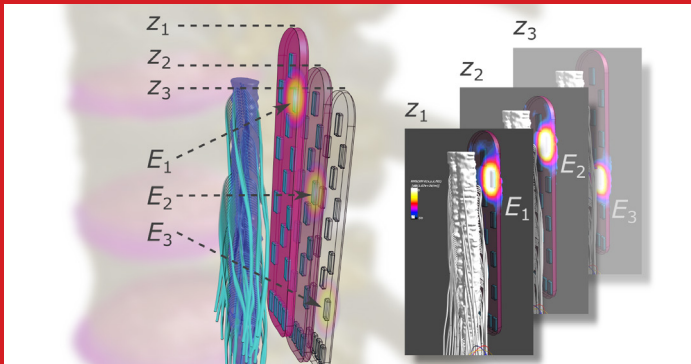
MR Safety of Active and Passive Implants

Our ISO/IEC 17025 accredited test lab assesses MRI safety of active and passive implants, following ISO/IEC 10974, ASTM F2182 and ANSI/AAMI PC76 compliant workflows, and using FDA-qualified tools and the Virtual Population. Scanner-based tests are offered with our partners to cover all regulatory requirements.

Implant MRI Compatibility Tests

RF Heating	Accredited benchtop testing and <i>in vivo</i> translation with MDDT*
RF Malfunction and Rectification	Induced voltage with fiberoptic probe Radiated and injected tests
Gradient Heating and Malfunction	Radiated and injected tests
MR System Tests	Gradient vibration, static and combined fields, image artifact with IT'S partners

* [fda.gov/media/148922/download](https://www.fda.gov/media/148922/download)



Wireless Exposure Evaluations

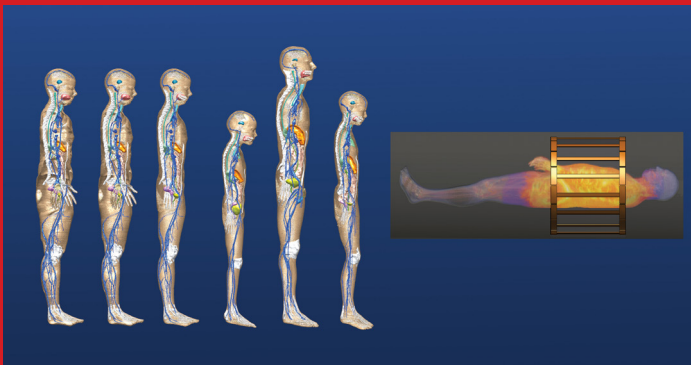
IT'IS is the leading independent source for dosimetric specific absorption rate (SAR) expertise. We measure and simulate incident and induced fields of wireless devices from 3 kHz to 110 GHz, to assess compliance of wireless communication and power transfer systems.

Neurostimulation

We perform design and treatment optimization, and assess efficacy and safety, of neurostimulators/electroceuticals with regulatory-grade modeling and validation support. Advanced metamodeling and surrogate modeling tools are applied for efficient optimization and robust V&V.

In Silico Safety Assessment

Anatomical models such as the IT'IS Virtual Population are augmented with specific functionalities, posed and morphed to represent specific populations, or personalized with AI-driven patient-specific segmentation. Coupled multiphysics (EM, thermal, neuro and more) simulations predict efficacy of therapies and demonstrate safety and compliance.



IT'IS FOUNDATION

www.itis.swiss