





Member States: Austria, Belgium, Bulgaria, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, the Netherlands, Norway, Poland, Portugal, Romania, Servia, Slovakia, Spain, Sweden, Switzerland, and the United Kingdom

Associate Member States: India, Pakistan, Turkey, Ukraine, Croatia, Latvia, Lithuania, Brazil; States in Accession to Membership: Cyprus, Estonia, Slovenia

Interested States (not exhaustive): Australia, Canada, Croatia, Ireland, Lithuania, Republic of Korea, Russian Federation Observers to Council: Japan, Russian Federation, United States of America; EUComm, JINR, and UNESCO

The Mission of CERN







The Mission of CERN

Push back the frontiers of knowledge

E.g. the secrets of the Big Bang ...

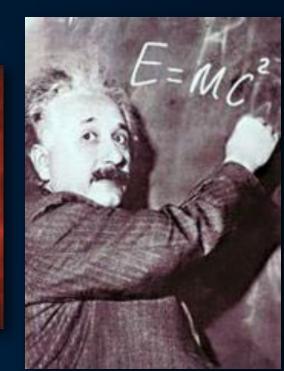
... what was the matter like within the first moments of the Universe's existence?



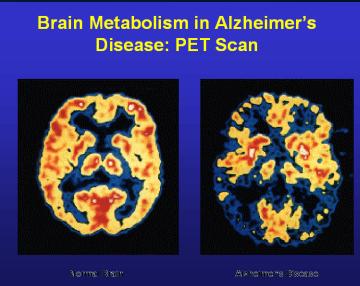
Information technology - the Web and the GRID Medicine - diagnosis and therapy

- Train scientists and engineers of tomorrow
- Unite people from different countries and cultures







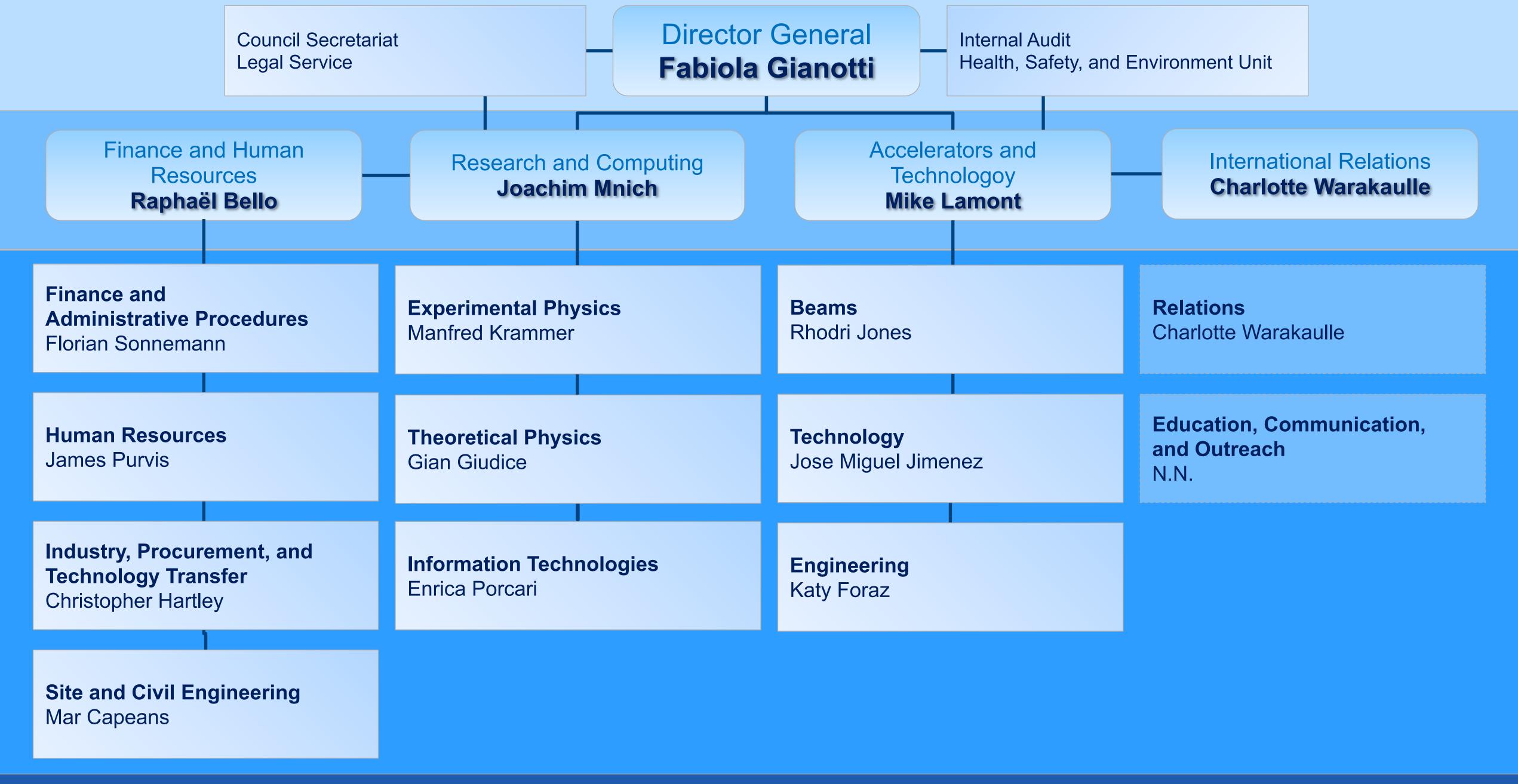














CERN Organisation 2020-2025

SFT Group

- * The SFT group is a software support group in the Experimental Physics Department (same level as the detector and electronics support groups)
- * Our Mandate:
 - * Develop and maintain **common scientific software** for physics experiments in close collaboration with the other EP experimental groups, the IT department, and collaborating HEP institutes
 - * Provide a common infrastructure and expertise to the stakeholders
 - * Provide qualified people to fulfill key roles in the experiments

Current Group Activities

- * Main activities
 - * Providing deliverables critical for the community
 - * Geant4, ROOT, LCG stacks, CernVM/FS, ML/AI
- * R&D activities (connected or not to a given main activity)
 - * Techniques to speed-up simulation (AdePT, ML, ...)
 - * Techniques to improve analysis efficiency (RDF, RNtuple, ...)
 - * Stacks for future experiments (Key4HEP)
 - * Evaluation of new programming languages (Julia, ...)
- * Support of FCC feasibility study
 - * Host CERN software core group

SFT Projects

Analysis And Software Simulation Processing Distribution Tools Tools Tools CernVM-FS Geant4 ROOT ML4EP Software Stacks / SPI Coordination Activities (HSF, EP R&D, ...)

Stakeholders ALICE ATLAS CMS LHCb EP R&D IT projects HSF FCC

- * I wish you a very productive meeting at CERN this week
- * Looking forward to identify new collaboration opportunities of our group with the ePIC experiment
- * Enjoy CERN and the Geneva region!