

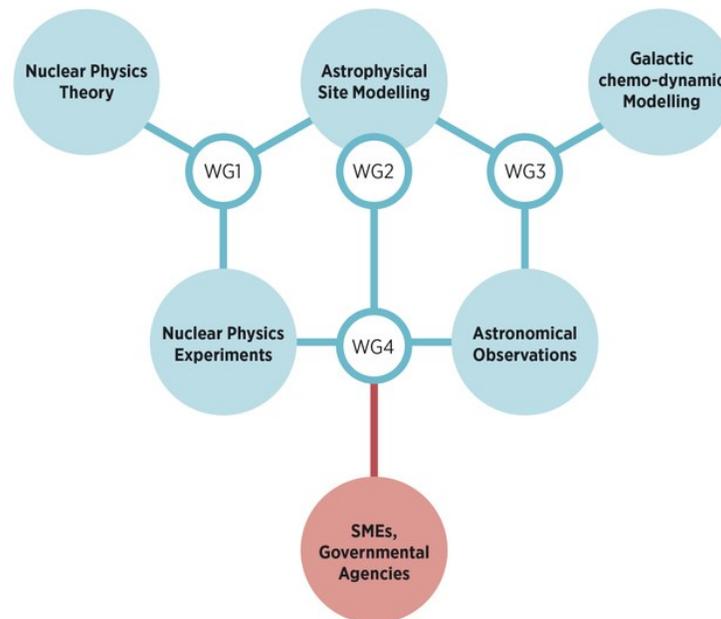
The ChETEC (pronounced [ketek]) network was established in 2017 with the support of a COST Action (<https://www.cost.eu/>) to coordinate research efforts in astronomy, astrophysics, and nuclear physics across Europe and beyond in order to:

- Answer key open questions (<http://www.chetec.eu/open-questions>) about the Universe and its constituents by using chemical elements as tracers of its evolution.
- Maximise the scientific and innovative return of huge investments in large-scale facilities and efforts: satellites (ESA Gaia, XMM-Newton, INTEGRAL), ground-based spectroscopic surveys (Gaia-ESO, ESO-PESSTO, Pan-STARRS), nuclear physics experimental facilities (GANIL, France; LUNA, Italy; FAIR, Germany).
- Link this blue-skies research with SMEs who can provide the technological tools required for the exploitation of data, software and techniques and in return join the innovation cycle.
- Train a new generation of scientists with inter-disciplinary expertise and transferable skills.

ChETEC is organised in four working groups (WGs) as shown in the flowchart below.

### Chemical Elements as Tracers of the Evolution of the Cosmos

A network to bring European research, science and business together to further our understanding of the early universe



30 countries (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Italy, Lithuania, Malta, The Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom) are part of ChETEC. The main point of contacts for the various aspects of the network can be found here (<http://www.chetec.eu/key-info/management-structure>).

Since 2017 (and until 2021), ChETEC has been organising workshops, hands-on training activities and funding short-term scientific missions to train the next generation of nuclear physicists as well as undertake interdisciplinary research (see <http://www.chetec.eu/activities> for full list of activities). This facilitated the publication of more than 100 research papers. One major goal of the Action was to create and maintain knowledge hubs to facilitate knowledge exchange and collaborations across the network (and beyond). The hubs (<http://www.chetec.eu/knowledge-hubs>) include links to various databases, software tools, datasets, facilities and an expertise directory relevant for nuclear astrophysics. While the COST Action funding will run out in October 2021, the network has just been awarded a new EU grant to support "Integrating Activities for Starting Communities" that will run from 2021 until 2025. The infrastructure grant is called ChETEC-INFRA. More details will appear on the following website: <https://chetec-infra.eu/>.