Timeline
The CRESCENDO project runs from November 2015 to October 2020.

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CRESCENDO is a European Union Horizon 2020 Project
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CRESCENDO is structured into 5 Research Themes (RTs):

- **RT1** emphasizes improvement of process descriptions in Earth system models (ESMs);
- **RT2** concentrates on the evaluation of these processes, as well as evaluation of the resulting fully coupled ESMs;
- **RT3** leads the analysis and understanding of ESM projections;
- **RT4** is where new greenhouse gas emission scenarios are developed and subsequent ESM future projections made;
- **RT5** is where model data and new scientific knowledge will be communicated to the wider international research and policy communities.

### TO PROGRESS ON THE NEXT GENERATION OF EUROPEAN EARTH SYSTEMS MODELS

**CRESCENDO WILL:**

**IMPROVE**
Improve the representation of key processes in European Earth System Models

**EVALUATE**
Evaluate thoroughly the scientific performance of these models

**USE**
Use the models to generate a new set of Earth system projections for the coming century

**ENSURE**
Ensure knowledge developed in the project is communicated to key stakeholder communities

### About Us

- **Our aims**
  - Delivering credible and trustworthy projections by improving the representation of key processes in European Earth system models
  - Using these projections, CRESCENDO will better understand Earth system changes to inform policy making and support the 6th IPCC Assessment Report.
  - Bringing all European ESMs currently involved in CMIP6 into a single project ensures advances will be efficiently shared across Europe.
  - Supporting and driving forward the quality of ESMs and the use of ESM knowledge and data in key complementary disciplines
  - Collaboration with impact assessment and regional downscaling groups to deliver actionable information to support European decision-making.
  - Training future scientists to be good communicators. Knowledge dissemination as a key support tool for policy and public decision-making.
  - Active dissemination to ensure our science is accessible to the public through a range of channels, holding a range of dissemination events on new Earth system projections.

### Future Outcomes

- CMIP-DECK simulations made by project ESM groups internal to CRESCENDO
- New scenarios and projections (ScenarioMIP) Traceable ESM versions
- Benchmarking full ESMs Constraining projections Quantifying feedbacks and forcing
- Knowledge and Data dissemination
- Process-level evaluation of ESM improvements Terrestrial Marine Aerosols and chemistry
- CCT: CMIP6: OCMIP AerChemMIP LUMIP GLACE ScenarioMIP