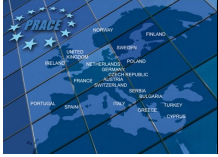




International projects



PRACE, the Partnership for Advanced Computing in Europe, created a persistent pan-European Research Infrastructure (RI) that provides leading high performance computing (HPC) resources for world-class science and engineering research in academia and industry.

PRACE is established as an international not-for-profit association (aisbl) with seat in Brussels. It has 25 member countries (October 2012, see [here](#)) whose representative organizations create a pan-European supercomputing infrastructure, providing access to computing and data management resources and services for large-scale scientific and engineering applications at the highest performance level.

For questions about the SNIC centers' activities within PRACE please contact [Lilit Axner](#).



The objective of European Grid Initiative (a foundation established under Dutch law) is to create and maintain a pan-European Grid Infrastructure in collaboration with National Grid Initiatives (NGIs) in order to guarantee the long-term availability of a generic e-infrastructure for all European research communities and their international collaborators.

For questions about PDC's activities within EGI, please contact [Gert Svensson](#).



neic, the Nordic e-Infrastructure collaboration, facilitates the development of advanced IT tools and services in areas of importance for Nordic researchers.

For questions about PDC's activities within neic, please contact [Michaela Barth](#).

BioExcel is establishing a dedicated Centre of Excellence for Biomolecular Research. The centre covers structural and functional studies of the building blocks of living organisms - like proteins and DNA - and small molecules such as drug compounds. The centre is working on: 1) improving the efficiency and scalability of important software packages for biomolecular research, 2) improving the usability of ICT technologies for biomolecular researchers in academia and industry, and 3) promoting best practices and training end users in making good use of both software and e-infrastructures.

For questions about PDC's activities within BioExcel, please contact [Rossen Apostolov](#).



EUDAT's vision is to enable European researchers (from any research discipline) to preserve, find, access and process data in a trusted environment that is part of a European Collaborative Data Infrastructure (CDI). This CDI is a network of collaborating, cooperating data centres, combining the richness of numerous community-specific data repositories with the permanence and persistence of some of Europe's largest scientific data centres.

EUDAT offers common data services, supporting multiple research communities as well as individuals, through a geographically distributed, resilient network of 35 European organisations (see [EUDAT Partners](#)). These shared services and storage resources are distributed across 15 European nations and data is stored alongside some of Europe's most powerful supercomputers.

For questions about PDC's activities within EUDAT please contact [Erwin Laure](#).



EPIGRAM is an EC-funded FP7 project about exascale computing. The aim of the EPIGRAM project is to prepare Message Passing and PGAS programming models for exascale systems by fundamentally addressing their main current limitations. The concepts that are developed will be tested on and guided by two applications in the engineering and space weather domains chosen from the suite of codes in current EC exascale projects.

For questions about PDC's activities within EPIGRAM, please contact [Stefano Markidis](#).



incf, the International Neuroinformatics Coordinating Facility, promotes international activities in neuroinformatics and related fields. The organization was formed in 2005 by the OECD Global Science Forum and currently has 15 member countries.

For questions about PDC's activities within INCF, please contact [Mikael Djurfeldt](#).

National projects



Heat re-use at PDC: As a part of PDC's ongoing work to reduce its environmental footprint, we are engaging in a heat re-use project. Excess heat from the Cray XE6 supercomputer Lindgren is being used to



SeRC: The Swedish e-Science Research Centre is formed by the universities in Stockholm and Linköping (KTH, KI, SU and LiU) with the two largest high performance computing centres in Sweden (NSC at LiU and PDC at KTH). This project brings together a core of

International projects

heat a building used by the School of Chemistry Science and Engineering at the KTH campus.

For questions about energy efficiency at PDC, please contact [Gert Svensson](#).



SNIC Cloud Infrastructure project: The goal of the project is to create a sustainable and generic SNIC Cloud infrastructure (Infrastructure as a Service, IaaS) to form a basis for SNIC Cloud projects and to provide the

necessary structure for running project specific Platform as a Service (PaaS) services.

The SNIC Cloud project is run by PDC, HPC2N, C3SE and UPPMAX. For questions about PDC's activities within the SNIC Cloud, please contact [Åke Edlund](#).

leading Swedish IT research teams and scientists in selected strategic application areas.

For questions about PDC's activities within SeRC, please contact [Erwin Laure](#).

Past projects