



CSC

ICT Solutions for
Brilliant Minds



Services for researchers, teachers and learners through CSC

30.10.2019 Pekka Lehtovuori



Content

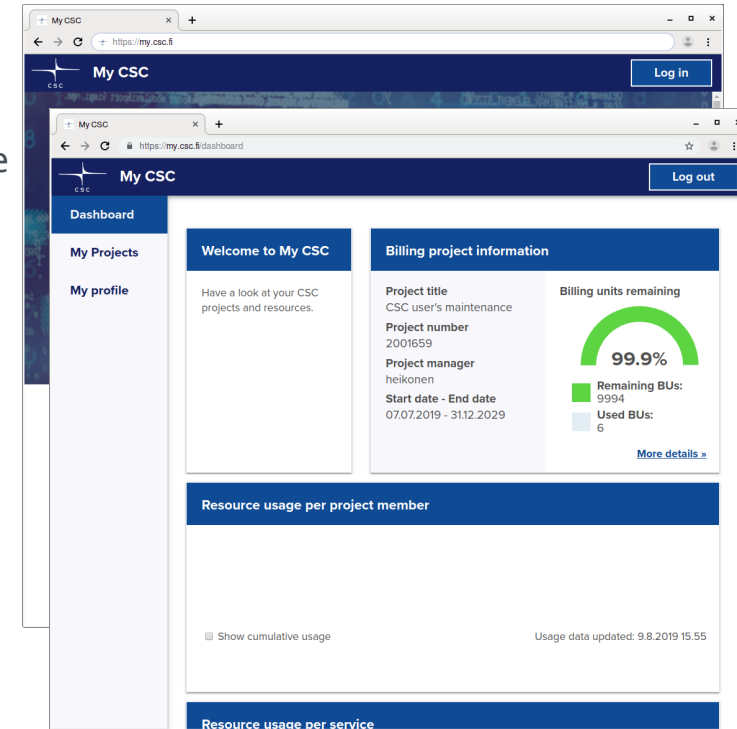
- CSC services free-of-charge for the research and education
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CSC services free-of-charge for the research and education

- The funding by Ministry of Education and Culture enables
 - the use of CSC's computing, cloud and storage services
 - **free-of-charge**
 - for the purpose of academic research and related education
 - based on user's affiliation to a Finnish higher education institution, or state research institute.
- Further info:
 - Services: <https://www.csc.fi/fi/opetus-ja-kulttuuriministerion-ostamat-palvelut>
 - Usage policy: <https://research.csc.fi/free-of-charge-use-cases>
 - Organisations: <https://minedu.fi/yliopistot>
<https://minedu.fi/ammattikorkeakoulut>
<https://minedu.fi/tiedelaitokset-ja-tutkimusorganisaatiot>

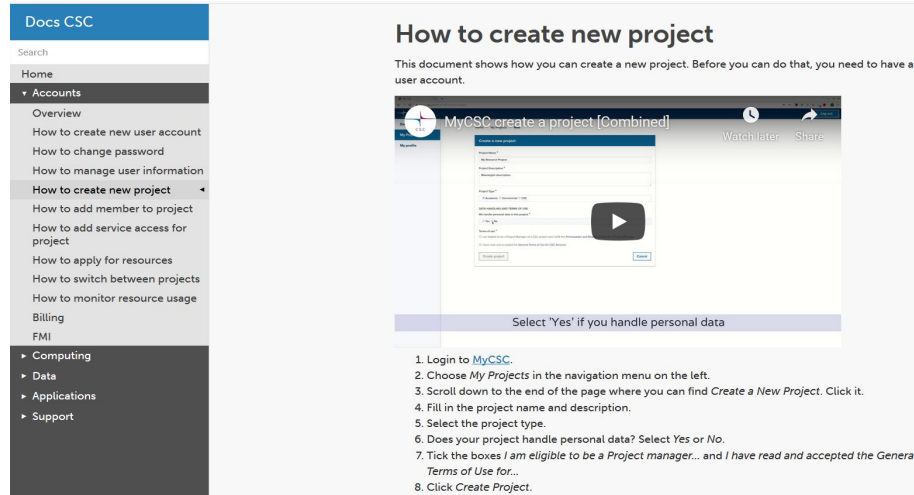
MyCSC – Self-service gateway to CSC services

- The new customer portal MyCSC (my.csc.fi) is a gateway to CSC's services
 - Supercomputers, software, cloud services and data storage
 - MyCSC is replacing Scientist's User Interface (SUI).
- Through MyCSC users can
 - Register and get CSC user account
 - Manage their profile (personal information)
 - Create and manage projects (invite members)
 - Apply services (e.g. Puhti, Allas, c/ePouta, Rahti and IDA)
 - Apply resources (billing units) for projects
 - Monitor resource usage of projects
 - New features being implemented



Docs CSC – New documentation portal for CSC services

- Docs CSC (docs.csc.fi) contains all user guides and FAQs related to CSC services
 - with instructional videos



The screenshot shows the Docs CSC portal. On the left is a navigation menu with the following items: Docs CSC, Search, Home, Accounts (expanded), Overview, How to create new user account, How to change password, How to manage user information, How to create new project (expanded), How to add member to project, How to add service access for project, How to apply for resources, How to switch between projects, How to monitor resource usage, Billing, FMI, Computing, Data, Applications, and Support. The main content area displays a video titled 'How to create new project' with a play button. Below the video is a list of instructions for creating a new project.

How to create new project

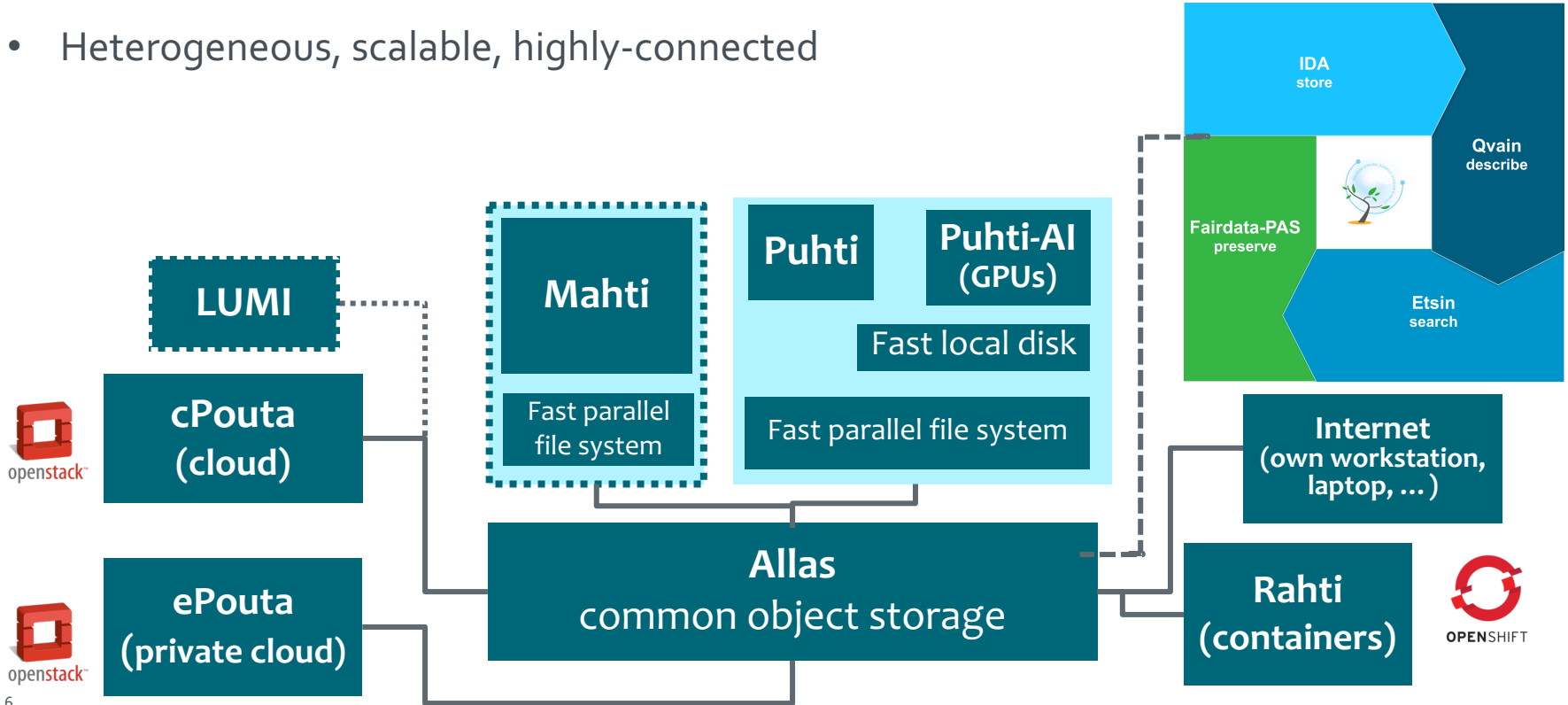
This document shows how you can create a new project. Before you can do that, you need to have a user account.

Select 'Yes' if you handle personal data

1. Login to [MyCSC](#).
2. Choose [My Projects](#) in the navigation menu on the left.
3. Scroll down to the end of the page where you can find [Create a New Project](#). Click it.
4. Fill in the project name and description.
5. Select the project type.
6. Does your project handle personal data? Select Yes or No.
7. Tick the boxes *I am eligible to be a Project manager...* and *I have read and accepted the General Terms of Use for...*
8. Click [Create Project](#).

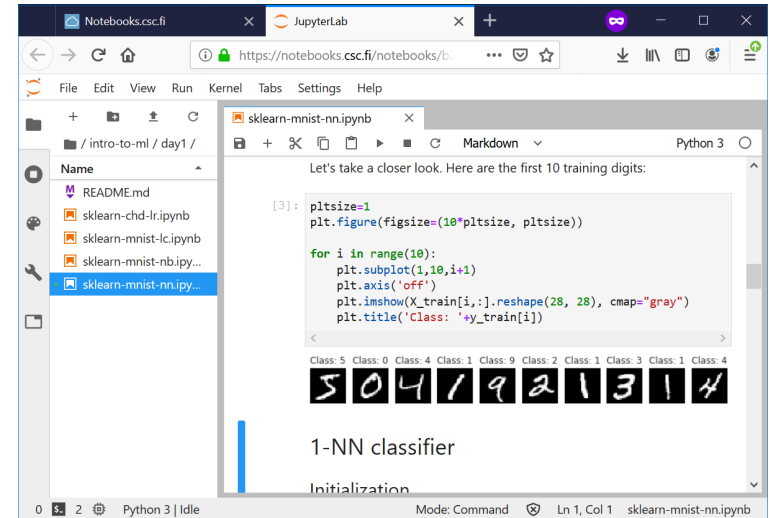
Computing and data storage resources for versatile needs

- Heterogeneous, scalable, highly-connected



Notebooks – easy to use interface to computing resources

- Notebooks is a browser based environment especially for teaching and data analysis and management purposes
- Notebooks applies perfectly for small-scale experimenting with a possibility to easily extend even to high-performance computing
- <https://notebooks.csc.fi>



Expert services: Scientific SW, Customer support, and Training

- CSC provides the largest selection of scientific software, applications and databases for researchers in Finland
- Centralised licenses for the most important applications
- ServiceDesk will help with questions on software usage , installation, etc.
- Experts will also give local support in customer premises
- Training portal: www.csc.fi/training

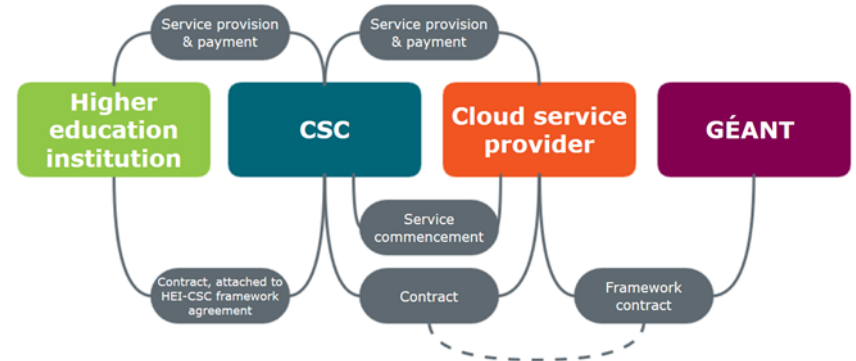


The screenshot shows the CSC Training and events website. The page features a navigation menu with tabs for Events, Materials, E-learning, Webinars, and Info. Below the navigation, there are filters for Topic and Type, along with buttons for Show keywords and Archive. The main content area is titled "October 2019" and lists several events:

- 9.10. - 11.10. Advanced Gromacs, HADDOCK + PMX Workshop**: Two day intensive workshop is organized as a collaboration with BioExcel, CSC and PRACE. It consists of lectures and hands-on tutorials introducing HADDOCK, pmx and instructions on how to improve Gromacs performance on HPC platforms. HADDOCK is a versatile information-driven flexible docking approach for the modeling of biomolecular complexes. PMX is a service for users who need to do free energy calculations. [Read More >](#)
- 14.10. - 15.10. GPU Programming with OpenACC**: This course gives a thorough introduction to programming GPUs using the directive based OpenACC paradigm. [Read More >](#)
- 15.10. Webinar: Fairdata PAS-palvelu**: Pitkäaikaiskäyttö (PAS) tarkoittaa digitaalisen informaation säilyttämistä ymmärrettävänä ja käytettävänä useiden kymmenien ja jopa satojen vuosien ajan. Tässä webinaarissa käymme läpi Fairdata PAS-palveluun liittyen PAS-määrittelyt, metatietavaihtoimet, hallintaliittymä, siirtotavat ja aineistojen ja niiden metatietojen paketoitintä pitkäaikaiskäyttötyksien. [Read More >](#)
- 16.10. - 18.10. GPU Hackathon**: A 3 day hackathon targeting GPUs. Teams of 3-4 persons can participate. [Read More >](#)
- 23.10. - 25.10. RDA Plenary**: The Plenary brings together data experts in research, industry and policy-making from all around the world and from all disciplines under the theme Data Makes the Difference. With this theme, the meeting addresses the extensive potential of research data in improving decision making, tackling grand societal challenges, and engaging citizens in the creation of knowledge and... [Read More >](#)
- 30.10. Digisäään esipäivä: Oppijan ja Tutkijan polut**: Iltapäivä käynnistyy johdatuksella korkeakoulutuksen ja tutkimuksen ajankohtaisiin asioihin, jonka jälkeen... [Read More >](#)

Brokering of 3rd party services – Upcoming service by CSC

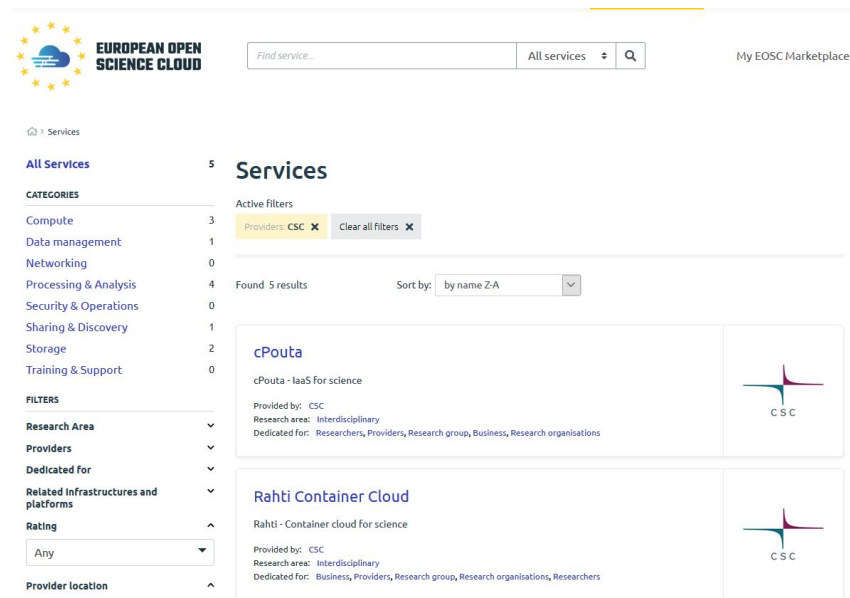
- CSC to contract with commercial service providers on behalf of higher education institutions based on their needs
 - E.g., for cloud services and learning management systems
 - Potentially also to provide additional services to support higher education institutions
- Pan-European procurement framework for cloud services to be established by GÉANT
 - Scope: IaaS, PaaS, SaaS
 - Expected completion Q1 2020
- Benefits for higher education institutions
 - Enable complement to CSC's free-of-charge offering with 3rd party services
 - Easier adoption of commercial services with common contracting framework, technical and legal compliance, and likely cost savings



CSC services as part of European research community

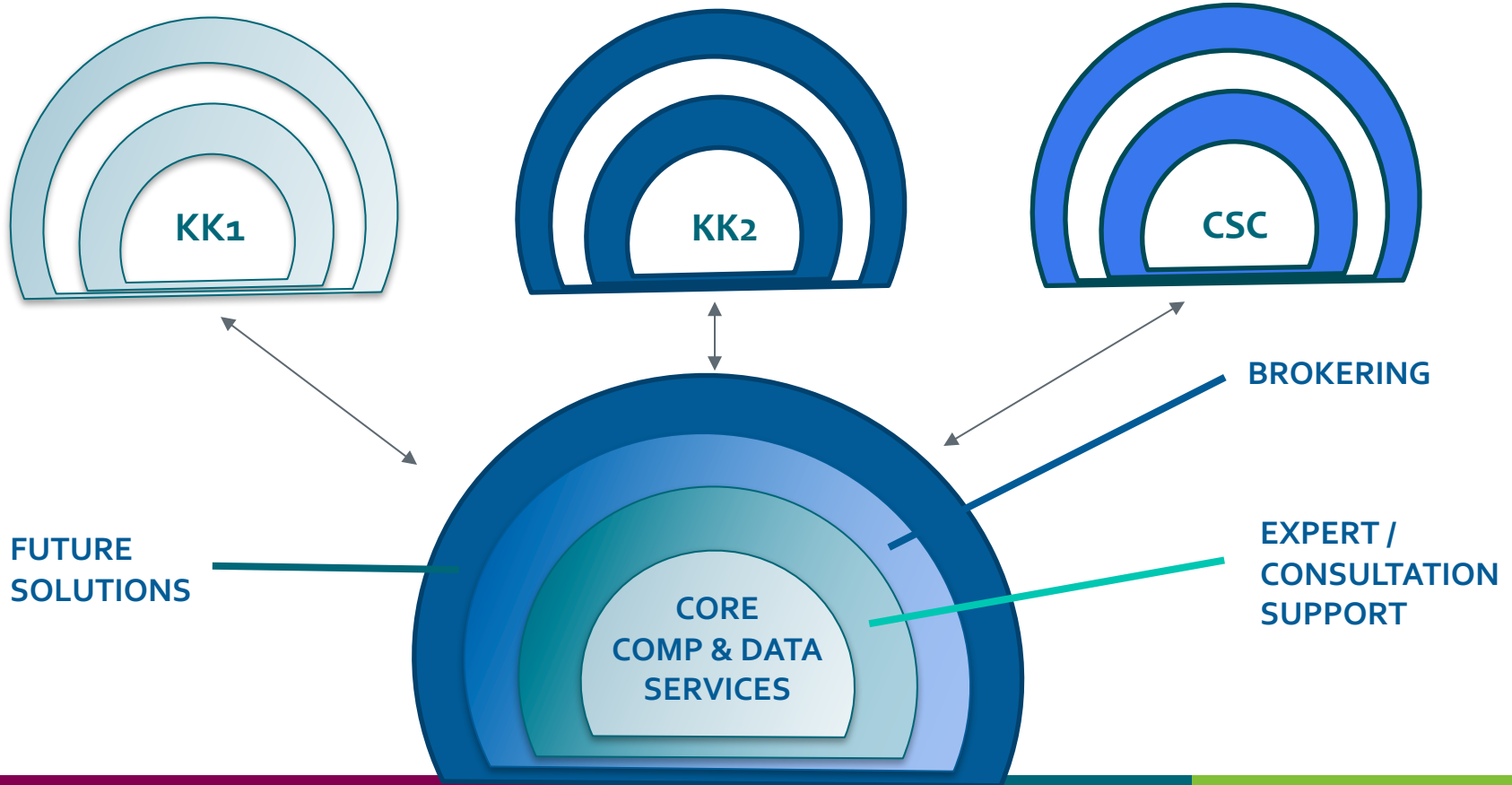
- EOSC community cloud and services catalogue
 - CSC services cPOuta, ePOuta, Rahti, and Chipster are already included in the catalogue
 - <https://marketplace.eosc-portal.eu>

- CSC with research community networks
 - Peer-support networking, e.g.,
Research Data Alliance Finland node /
RDA Nordic in the future.



The screenshot displays the 'EUROPEAN OPEN SCIENCE CLOUD' marketplace. At the top, there is a search bar with the text 'Find service...' and a dropdown menu for 'All services'. The main content area is titled 'Services' and shows a list of results. The first result is 'cPouta', described as 'cPouta - IaaS for science', provided by CSC. The second result is 'Rahti Container Cloud', described as 'Rahti - Container cloud for science', also provided by CSC. The interface includes a sidebar with navigation options like 'All Services', 'CATEGORIES', and 'FILTERS'. The 'FILTERS' section is expanded to show 'Research Area' (Interdisciplinary), 'Providers' (CSC), and 'Dedicated for' (Researchers, Providers, Research group, Business, Research organisations).

Wider common service portfolio to all through collaboration





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Services for Computational
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