



RNP

Mapeamento de serviços de suporte à e-Ciência (Mapeo de servicios de apoyo a la e-Ciencia)

Leandro Ciuffo (RNP)

Director Adjunto de I+D

II Encuentro Latinoamericano de e-Ciencia – 05/09/2018



Infraestrutura de comunicación: escalable y segura

- n x 100Gb/s: Fortaleza – Porto Alegre
- Maior capacidade em cabos submarinos

Almacenamiento y computación: simplificar el uso para la educación y la investigación

- Marketplace (Nasnuvens.rnp.br)

Operar un Centro Nacional de apoyo a e-Ciencia

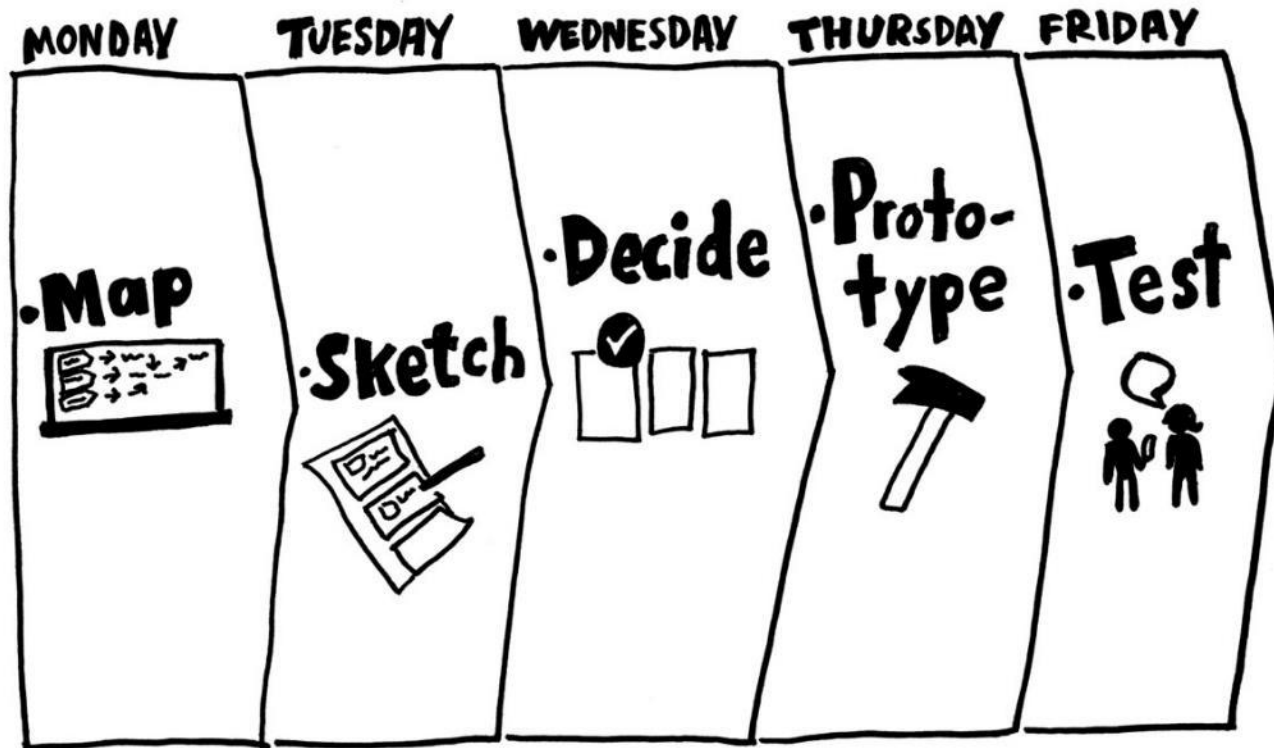


- Apoyo a iniciativas nacionales e internacionales altamente demandantes de TIC
- Articular una iniciativa nacional de datos abiertos para investigación



RNP

Design Sprints



entender

idear

seleccionar

prototipar

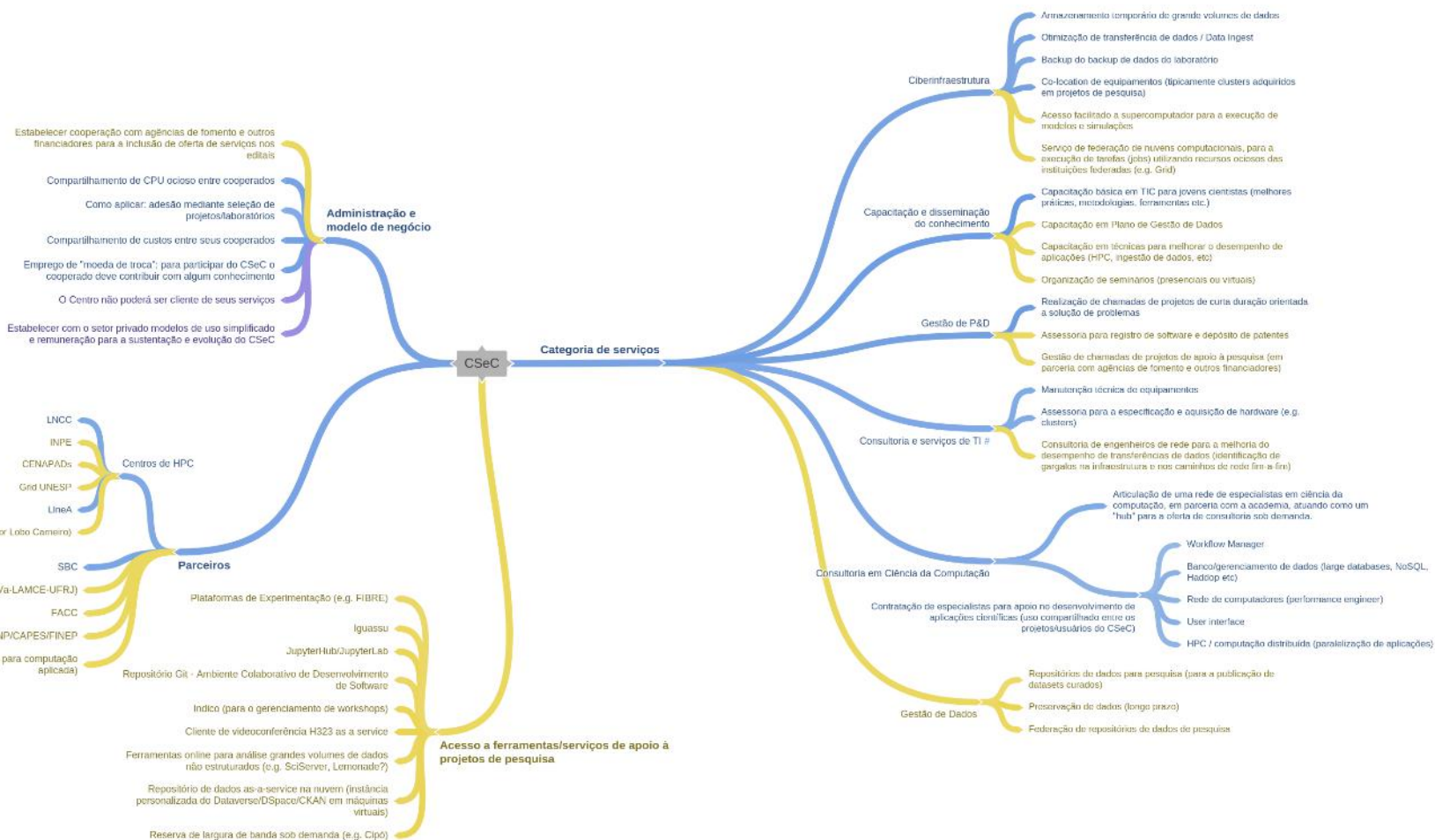
Probar
la idea



RNP

Mapa mental (fase de imersión)

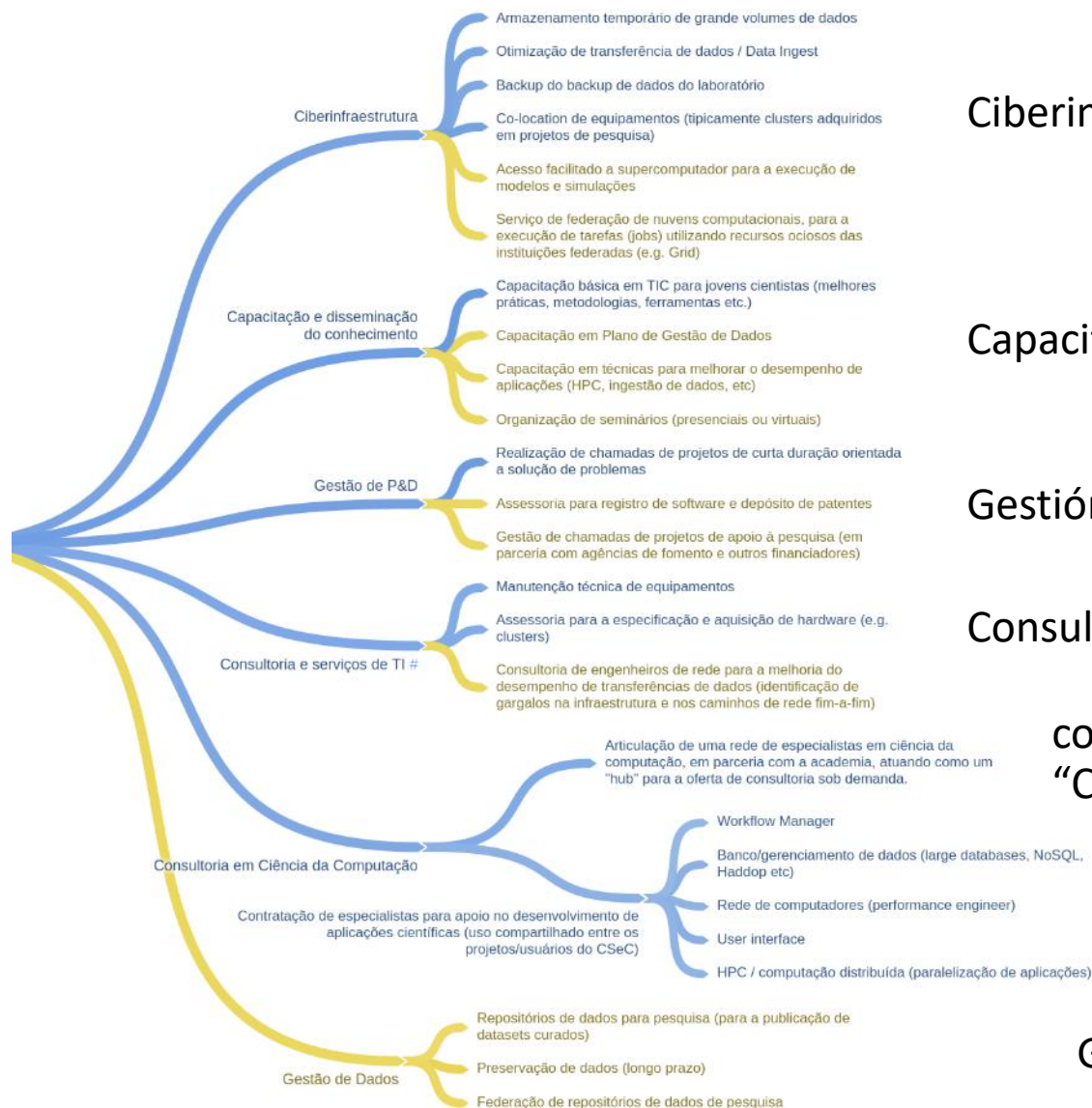
coggle.
made for free at coggle.it





RNP

Mapa mental (fase de imersión)



Ciberinfraestrutura

Capacitación

Gestión de I+D

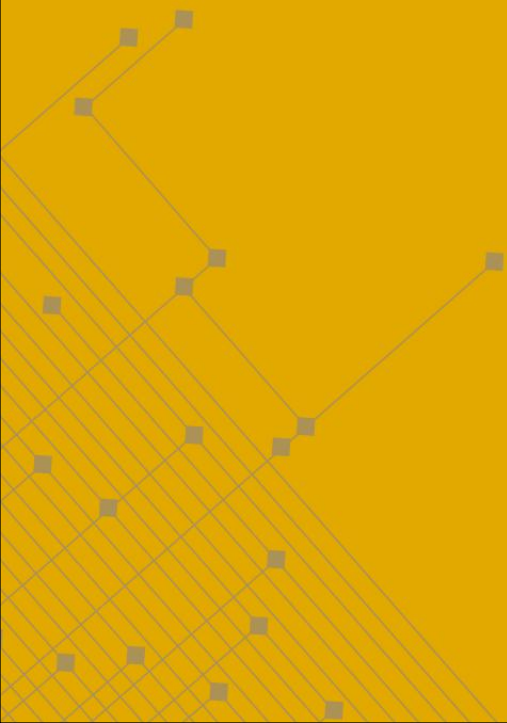
Consultoría y servicios de TIC

consultoría em
“Ciencia de la computación”

Grupo de expertos
(HPC, base de datos, analytics, workflow...)

Gestión de datos

Ciberinfraestructura





Maryland Advanced Research
Computing Center

[About MARCC](#)
[MARCC Policies](#)
[Request Access](#)
[Getting Started](#)
[Training](#)
[News and Events](#)
[Troubleshoot](#)
[User account request](#)
[MARCC Allocation Request \(for PIs only\)](#)
[Co-location](#)
[Request Access](#)

User account request

Please read the page "MARCC Policies". **Important, do not compute on login nodes.**

All users must request an account using the form below. Please bear in mind that your application must be approved by your PI. Users' accounts will give you access to MARCC resources and all activity will be charged against the PI's allocation.

Individual user accounts will have default storage allocations:

HOME:

20 GBytes. Backed up. This directory should be used to keep important files, source codes. It should not be used to write files when running jobs. See SCRATCH.

SCRATCH/WORK Lustre:

1024 Gbytes per group. This space is not backed up. It should be used to read/write files when running jobs. Extensions will be considered for short times per request.

DATA:

Up to 10 TB per request per group, backed up.

WORK ZFS:

Per request, backed up, fees may apply.

Request an Account

Fields marked with an * are required

<https://www.marcc.jhu.edu/request-access/>

Last Name *

Contact us

marcc-help@marcc.jhu.edu



News and events

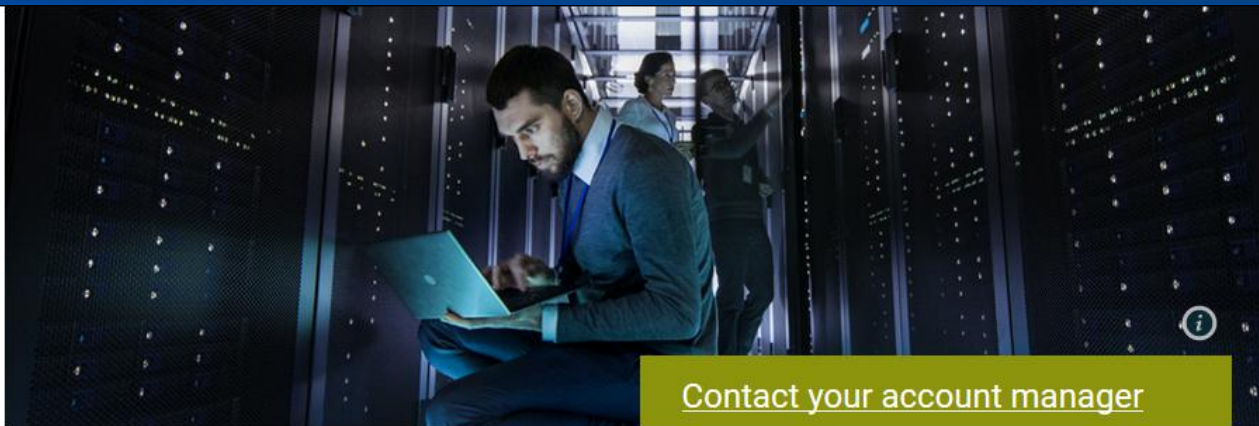
- February 2018 Training Sessions
- GPU Driver Updates Completed for CUDA 9 & Updated Partitions

<https://www.marcc.jhu.edu>



RNP

Shared Data Centre (co-location)



[Contact your account manager](#)

Save money, improve energy efficiency and get the scalability you need – by moving systems and services to off-site data centres.

✉ help@jisc.ac.uk

🔗 [Visit the shared data centre community page](#)

About our data centres

We offer access to two shared, off-site, state-of-the-art data centre facilities hosted by:

- Virtus, from its London4 facility in Slough
- aql, from its DC5 facility in Leeds

We've chosen Virtus and aql because they can meet your needs as a research and education organisation.

[Spotted an issue?](#)



Data Ingest Service

The Data Ingest Service is a SURFsara service for researchers who want to store or analyse large amounts of data at SURFsara. The service is convenient for users who lack sufficient bandwidth or who have stored their data on a number of external hard disks.

Uploading data via hard disks

The Data Ingest Service is a service that helps users upload their data to SURFsara. In order to provide this service, SURFsara has a device on premises with connections for up to 45 hard disks. This device makes it easy for us to transfer data to other SURFsara (storage) systems.

Support

We would be happy to help you transfer your data as efficiently as possible to SURFsara's computing and storage facilities, while taking as much work out of your hands as possible. Our employees will resolve any problems you have with uploading data as best as possible.

Helpdesk

You can contact our helpdesk by telephone or e-mail. You can also make an appointment with one of our employees. If you have any questions, or want to report a problem, please send an e-mail to helpdesk@surfsara.nl or phone +31-208001400. The helpdesk is available during office hours (9:00–17:00).

For specific questions or challenges related to data storage, please contact our [consultancy service](#).

[Portfolio Data Services](#)[Supplementary services](#)[Access](#)

Access

[Request access to Data Ingest Service](#)

Related

Knowledge base

[Case: IMARES: acoustic data on herring stocks](#)

26 Apr 2016



RNP

Ancho de banda bajo demanda (durante un período específico)

[Home](#)

[Services and products](#)

[Knowledge base](#)

[Agenda ▼](#)

[Innovation projects](#)

[Themes ▼](#)



SURFlichtpaden

SURFlichtpaden enables you to create ultra-fast connections between two locations. Light paths provide security, reliability and guaranteed high capacity.

Direct, secure and fast connection

SURFlichtpaden offers:

- High bandwidth
- A high level of security
- A high degree of reliability
- Low latency and jitter

Check out the [advantages of SURFlichtpaden](#).

Light path applications

A light path is a direct, secure and fast connection between two points that can be used for the following purposes:

Nationally

SURFlichtpaden can, for instance, be used for the exchange of data stored externally, in collaboration with other institutions within the education and research sector. National light paths can also be used to easily access dislocations.

Advantages of SURFlichtpaden

► [SURFlichtpaden connection options](#)

[Access to the cloud](#)

[National and International use of light paths](#)

[Light paths for research](#)

► [SURFlichtpaden applications](#)

► [Procurement and tendering of services](#)

[SURFlichtpaden for service providers](#)

[SURFlichtpaden rates](#)

Contact us

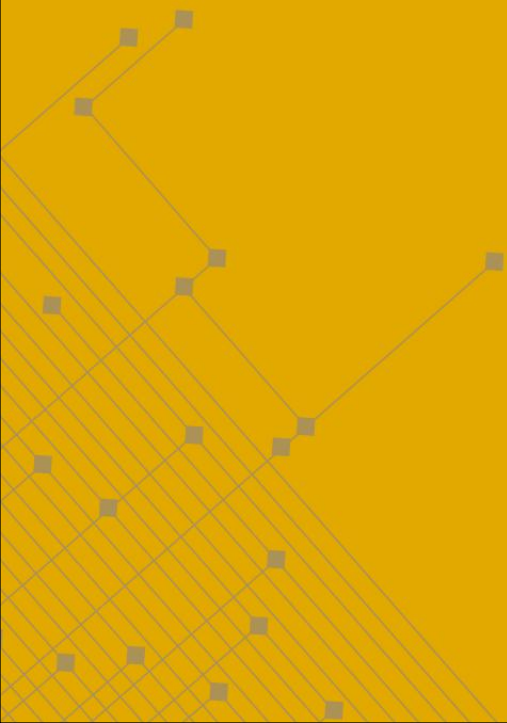


SURF **NET**

Alexander van den Hil
Product manager
Network Services
+31-887873000
[alexander.vandenhil@...](mailto:alexander.vandenhil@surf.nl)

<https://www.surf.nl/en/services-and-products/surflichtpaden/index.html> 

Capacitación





RNP

Capacitación básica en TIC para jóvenes científicos

[HOME](#) [ABOUT](#) [WORKSHOPS](#) [LESSONS](#) [GET INVOLVED](#) [BLOG](#)

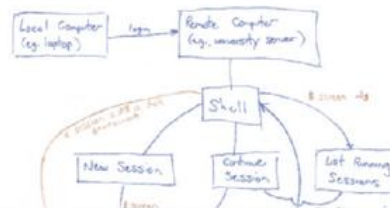
[CONTACT](#) [SEARCH](#)



Teaching basic lab skills
for research computing



[Our Workshops](#) ›
Find or host a workshop.



[Our Lessons](#) ›
Have a look at what we teach.



[Get Involved](#) ›
Help us help researchers.

Recent Blog Posts

[Git lesson using worksheets](#)

Pariksheet Nanda / 2018-05-26

[Meet the Members of the Software Carpentry CAC](#)

Erin Becker, Belinda Weaver / 2018-05-07

[Launching The Carpentries Website](#)

Tracy Teal, Belinda Weaver / 2018-04-25

[Running workshops on limited budgets](#)

Belinda Weaver, Toby Hodges, Anelda van der Walt / 2018-04-13

Upcoming Workshops

[Columbia University, Programming in Python 1](#)

Aug 27-29, 2018

[Columbia University, Programming in Python 2](#)

Aug 27-29, 2018

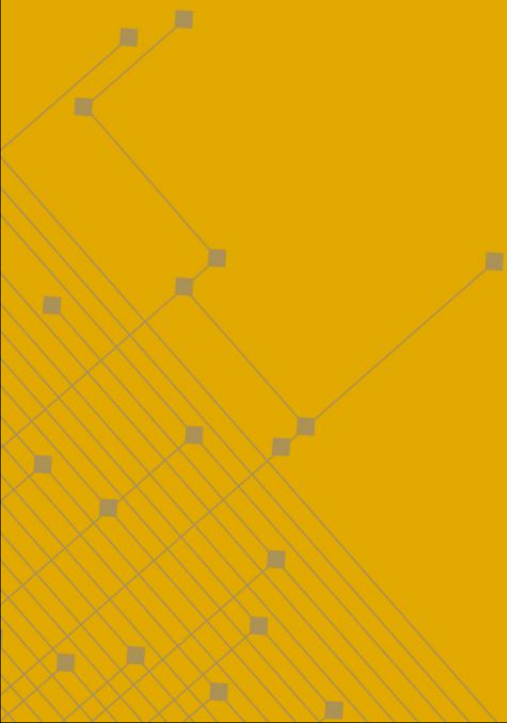
[Columbia University, R for Reproducible Scientific Analysis](#)

Aug 27-29, 2018

[LLNL Materials Science](#)

<https://software-carpentry.org>

Gestión de I+D





RNP

Convocatorias de proyectos de corta duración orientada a la solución de problemas.

eSciencecenter

Funding

Expertise & Software

Projects

People

About



About our project funding

Collaborations between academic partners and the eScience Center will be based primarily on a long-term consistent programme of calls. All funded projects should address a pressing scientific problem and capable of delivering innovative reusable eScience to the nation's e-infrastructure and beyond.

Our collaborative projects should have the potential to deliver scientific excellence in terms of scientific breakthroughs and in the realization of new eScience methodologies or integration of existing methodologies. We aim for high scientific standards and will contribute to scientific publications in high-impact scientific journals and conferences through collaboration with domain scientists and development of our core technologies.

Funded projects are supported to the value of €500K (combined cash and in kind provision of eScience Research Engineers) and result from annual peer-reviewed project calls.

<https://www.esciencecenter.nl/funding>

**RNP**

Asesoramiento para registro de software y depósito de patentes



CENTER FOR COMPUTATIONAL ENGINEERING & SCIENCES

[HOME](#)[NEWS](#)[RESEARCH](#)[WEB SERVICES](#)[COMPUTING RESOURCES](#)[OPPORTUNITIES](#)[INNOVATION](#)[ABOUT](#)

Innovation and Technology Transfer

The Center will also harbor a Technology Transfer division that is expected to interact closely with Unicamp's Innovation Agency (Inova) to create the opportunities of transferring new technologies and methodologies developed by the Center to the industry, government, and other R&D institutions outside academia. Through its Technology Transfer core, the Center shall promote increased networking between its researchers and industry. Its data infrastructure will be developed to support cooperation among the Center researchers, foster cooperation with other scientists, and disseminate the Center's scientific and educational production.

Patents and Products

Tipo	Título	Depósito	No	Autores	Cotitular
PI	MÉTODO E SISTEMA PARA EMULAÇÃO DE INSTRUÇÕES E EXECUÇÃO DE CÓDIGO LEGADO	13.03.15	BR 10 2015 005838 1	BRUNO CARDOSO LOPES, RAFAEL AULER, EDSON BORIN e RODOLFO JARDIM AZEVEDO	Não tem
PCT	MÉTODO E SISTEMA PARA EMULAÇÃO DE INSTRUÇÕES E EXECUÇÃO DE CÓDIGO LEGADO	04.12.15	PCT/BR2015 /000181	BRUNO CARDOSO LOPES, RAFAEL AULER, EDSON BORIN e RODOLFO JARDIM AZEVEDO	Não tem
Software	SBH (STRUCTURAL BIOLOGY HELPER)	12.01.15	BR 51 2015 000007 1	GONÇALO AMARANTE GUIMARÃES PEREIRA, MARCELO FALSARELLA CARAZZOLLE, RAMON OLIVEIRA VIDAL, GUSTAVO GILSON LACERDA COSTA, DANIEL MARAGNO TRINDADE e MARIO TYAGO MURAKAM	CNPEN
				GONÇALO AMARANTE GUIMARÃES PEREIRA, FELIPE DA	

**RNP**

Research Software Directory

(Repositorio de software y APIs desarrolladas por laboratorios)

Start typing here to search for software



Sort by: Last updated



Tags -

- ☐ Big data (17)
- ☐ GPU (2)
- ☐ High performance computing (14)
- ☐ Image processing (4)
- ☐ Inter-operability & linked data (9)
- ☐ Machine learning (5)
- ☐ Multi-scale & multi model simulations (4)
- ☐ Optimized data handling (7)
- ☐ Real time data analysis (5)
- ☐ Text analysis & natural language processing (13)
- ☐ Visualization (23)
- ☐ Workflow technologies (16)

nlppln

nl

For text mining researchers that want to build workflows, nlppln is the most flexible solution among NLP toolkits, because it allows you to quickly combine tools from different sources.

5 days ago

★ Featured

GGIR

GG

Converts raw data from wearables into insightful reports for researchers investigating human daily physical activity and sleep.

8 days ago

★ Featured

Kernel Tuner

Ke

Kernel Tuner greatly simplifies the development of highly-optimized and auto-tuned CUDA, OpenCL, and C code, supporting many advanced use-cases and optimization strategies that speed up the auto-tuning process.

22 days ago

★ Featured

Xenon

Xe

If you are using remote machines to do your computations, and don't feel like learning and implementing many different APIs, Xenon is the tool for you.

59 days ago

★ Featured

<https://software.esciencecenter.nl/software>





Consultoría y servicios de TIC



How Enlighten Your Research works!



ICT can make the difference in my research project!

A high-performance network, compute resources, data services and profound ICT expertise, offered to accelerate research.

How it works? Provide an Enlighten Your Research proposal:

- description of the research project
- technical research challenge
- ideal situation enhancing research with ICT



1 Initiation Phase

Intake

IT-department of institution, Enlighten Your Research (EYR)-consultant and researcher explore ICT challenges and ideal research workflows.



Project Initiation Document (PID)

- Goal & Scope
- Method & Technical Setup
- Deliverables
- Start date
- Roadmap
- Resource plan



Technical Requirements Session(s)

Collaborating EYR partners (Netherlands eScience Center, SURFnet, SURFsara) determine requirements for ICT services.



2 Proof-of-Concept Phase





RNP

Herramientas en línea para analizar grandes volúmenes de datos



Collaborative data-driven science

About

Tools

Datasets

Science

Education

Help

About

SciServer is a revolutionary new approach to doing science by **bringing the analysis to the data**. SciServer consists of data hosting services coupled with integrated *Tools* that work together to create a full-featured system.

About SciServer

SciServer is a fully integrated cyberinfrastructure system encompassing related tools and services to enable researchers to cope with scientific big data. SciServer enables a new approach that will allow researchers to work with Terabytes or Petabytes of scientific data, without needing to download any large datasets.

This SciServer approach offers tremendous advantages to scientists:

By offering Big Data search and analysis capabilities online...

SciServer will make it easy to compare datasets and discover new and surprising connections between them.

By offering worldwide access to large simulation datasets...

along with innovative new processing techniques, SciServer will open up computational science resources to scientists everywhere.



 Vision



 History

<http://www.sciserver.org/about/> 



Consultoría em “Ciencia de la computación”

+

Grupo de expertos



RNP

Red de expertos, en asociación con la academia, actuando como un "hub" para la oferta de consultoría bajo demanda

SeRC
Swedish e-Science Research Centre

ABOUT SeRC

PEOPLE AND RESEARCH

INFRASTRUCTURE

SUCCESS STORIES AND IMPACT

NEWS AND EVENTS

EDUCATION

People

Senior Researchers

Post Doctoral Researchers

Application Experts

PhD Students

Alumni

Faculty

MCPs

Communities

Research Projects

People

Filter by

Community

- Bioinformatics
- Climate Modeling
- Electronic Structure
- FLOW
- Molecular Simulation
- Numerical Analysis
- Parallel Software and Data Engineering
- Visualization

MCPs

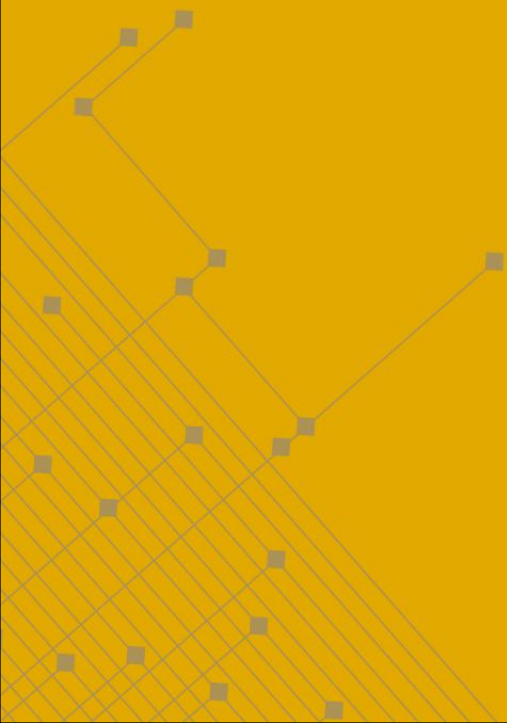
Filter

Search

	Position	Communities	MCPs	Projects
Aatto Laaksonen	Professor	Molecular Simulation		Molecular: Hierarchical Multiscale Modeling with a new class of force fields, Molecular: Novel approaches for the evaluation of long range electrostatic interactions in MD, Molecular: New state of the art hardware technologies and computational techniques to boost



Gestión de Datos





RNP

Servicio (de federación) de repositorios de datos de investigación

Data Archiving and Networked Services



Nederlands | Contact |

HOME | **DEPOSIT** | SEARCH | TRAINING AND CONSULTANCY | PROJECTS | ABOUT DANS | NEWS AND EVENTS

Deposit

your (open access) research data
to increase your work's visibility and findability.
DANS will keep your data accessible in a sustainable form.



DATA DURING RESEARCH

You can store and share data via DataverseNL during and after research. Check if your institution is connected.

[VISIT DATAVERSENL](#)

[Read more about DataverseNL](#)



DATA AFTER RESEARCH

You can store your data in a sustainable manner with the online EASY archiving system upon completing the research.

[VISIT EASY](#)

[Read more about EASY](#)



RESEARCH INFORMATION

You can add data on researchers, organisations and research projects to the NARCIS science portal.

[VISIT NARCIS](#)

[Read more about NARCIS](#)

CONTACT

+31 70 349 44 50
info@dans.knaw.nl
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DANS is an institute of KNAW and NWO



KNAW



NWO

Driven by data



RNP

DMP Tool + auditoría y evaluación de repositorios



because good research needs good data

Contact us

Search

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In this section

[Briefing Papers](#)

[How-to Guides & Checklists](#)

[Developing RDM Services](#)

[Curation Lifecycle Model](#)

[Curation Reference Manual](#)

[Policy and legal](#)

[Data Management Plans](#)

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[Case studies](#)

[Repository audit and assessment](#)

[Data Asset Framework \(DAF\)](#)

[DRAMBORA](#)

[Trustworthy Repositories](#)

[Nestor](#)

[Birds of a Feather](#)

[Anticipated applications](#)

[Standards](#)

[Publications and presentations](#)

[Roles](#)

Repository audit and assessment

The DCC has produced a list of online tools and methodologies for the audit, assessment and certification of digital repositories.

DMPonline

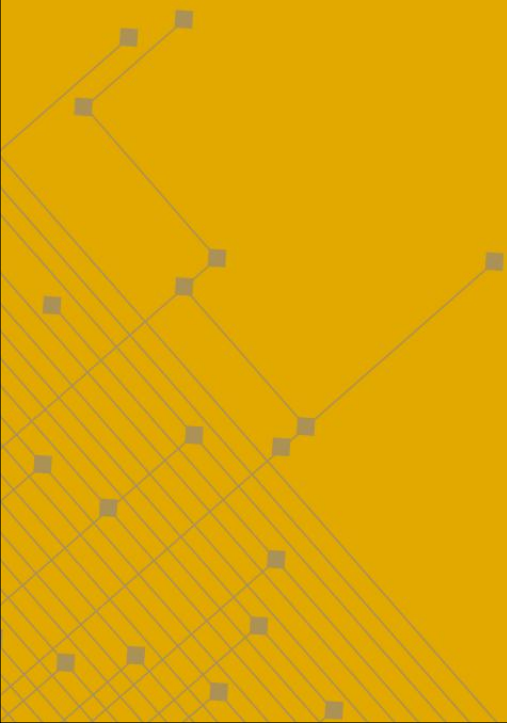


DMPonline is the DCC's data management planning tool. In addition to the questions included in the DCC's Checklist for a Data Management Plan, it also contains useful guidance on how to prepare a data management plan and carry it through to execution.

[Read more](#)



Proximos pasos





RNP

Entendimiento preliminar (pre-juicio)

e-
Astronomia

e-Física

e-Biologia

...

Centro de Suporte para e-Ciência

Ciberinfraestrutura
(infraestrutura para comunicação,
processamento e armazenamento)

Ferramentas na nuvem
Serviços agregados

Consultoria, assessoria,
treinamento

Muchas gracias!

Leandro Ciuffo

leandro.ciuffo@rnp.br

DESIGN SPRINT

CENTRO DE SUPORTE PARA E-CIÊNCIA



3, 4 e 5 de outubro,
no Rio de Janeiro

Caro XXX,

Você é nosso convidado para participar do *Design Sprint* do Centro de Suporte para e-Ciência. Ao aceitar nosso convite, você fará parte da equipe que desenhará uma instância de modelo de negócio para essa iniciativa. Juntos, vamos criar soluções e trocar informações com foco nas necessidades dos possíveis clientes desse Centro de Suporte.

O *Design Sprint* é um método criado pela *Google Ventures* que soma a abordagem de *Design Thinking* e Metodologia Ágil na construção de novos produtos e serviços. Em três dias, os participantes do workshop formarão grupos de trabalho e serão guiados por uma jornada de inovação, que passará pelo mapeamento de necessidades, criação, prototipagem e teste de soluções.

Ao final, os conceitos ajudarão no planejamento de uma implantação do Centro de Suporte para e-Ciência e então, transformados em produtos e serviços reais. Assim, por meio da cocriação, geraremos valor agregado para a comunidade científica brasileira.



MINISTÉRIO DA
DEFESA

MINISTÉRIO DA
CULTURA

MINISTÉRIO
DA SAÚDE

MINISTÉRIO DA
EDUCAÇÃO

MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA,
INOVAÇÕES E COMUNICAÇÕES

GOVERNO
FEDERAL