



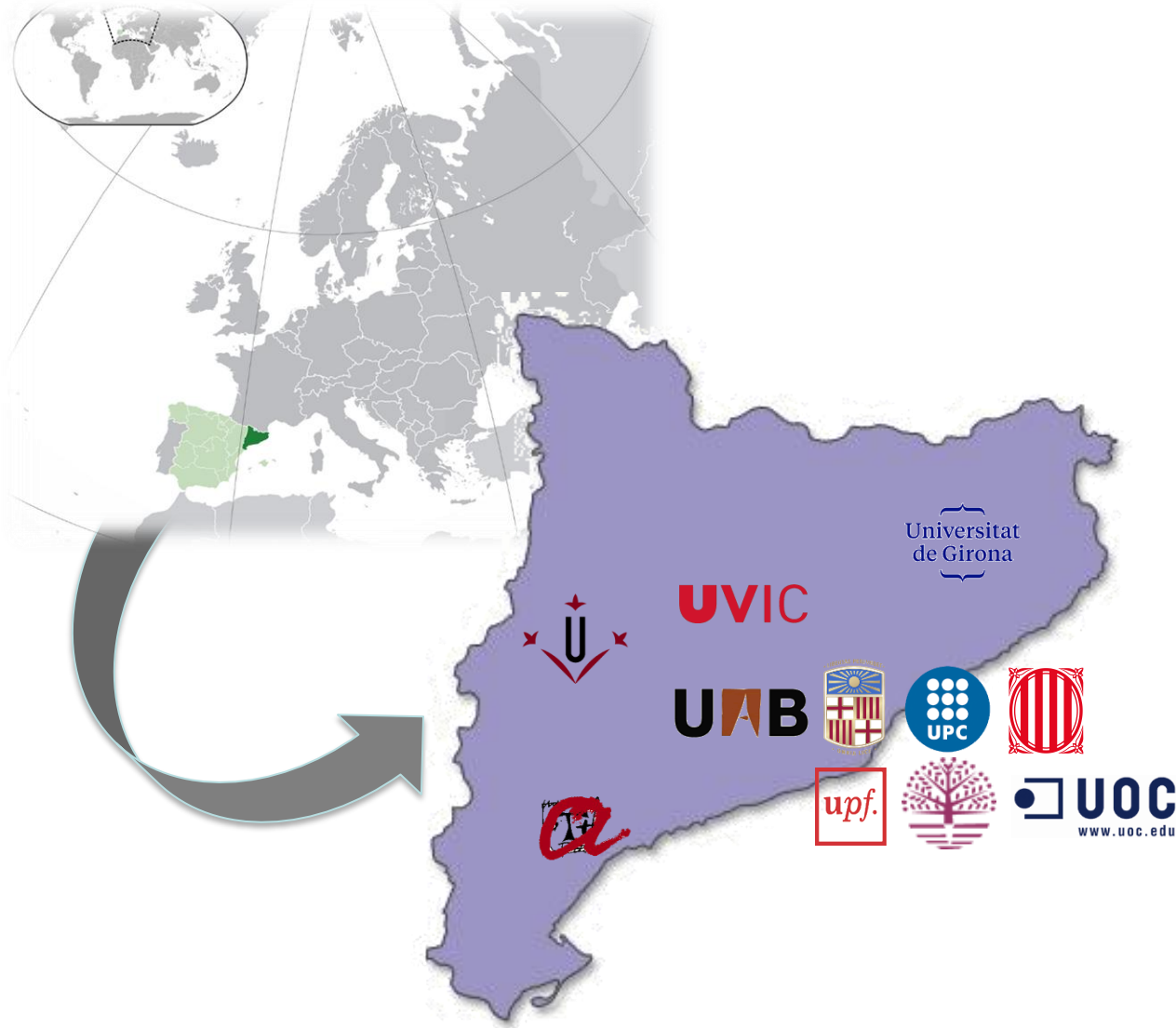
Consorti de
Serveis Universitaris
de Catalunya

Facilitar a gestão, a visibilidade e a reutilização dos dados de investigação: mais do que um repositório

Mireia Alcalá Ponce de León



Consorci de Serveis Universitaris de Catalunya (CSUC)



- ✓ Consórcio público criado em 1991
- ✓ Membros:
 - Generalitat de Catalunya
 - Universitat de Barcelona (UB)
 - Universitat Autònoma de Barcelona (UAB)
 - Universitat Politècnica de Catalunya (UPC)
 - Universitat Pompeu Fabra (UPF)
 - Universitat de Girona (UdG)
 - Universitat Rovira i Virgili (URV)
 - Universitat de Lleida (UdL)
 - Universitat de Vic · Central de Catalunya (UVic-UCC)
 - Universitat Oberta de Catalunya (UOC)
 - Universitat Ramon Llull (URL)
- ✓ Atende: 13 universidades e mais de 40 centros de pesquisa

ANELLA CIENTÍFICA

- > Conectividad para la investigación
- > Monitorización
- > Eduroam
- > Ciberseguridad y mitigación de ataques DDoS
- > Más servicios de la Anella Científica

E-ADMINISTRACIÓN

- > Voto electrónico
- > Evidencias electrónicas
- > Gestor Documental Consorciado
- > Plataforma de Custodia de Certificados Digitales
- > Más servicios de e-Administración

SERVICIOS EN LA NUBE

- > Infraestructura en la nube
- > Aplicaciones en la nube
- > Federación de identidad (UNIFICAT)

SUPERCOMPUTACIÓN

- > Almacenamiento
- > Servicio de cálculo
- > Supercomputadores

BIBLIOTECAS

- > Cooperación en las bibliotecas
- > Catálogo Colectivo de las Universidades de Cataluña
- > Préstamo consorciado
- > Almacén cooperativo GEPA
- > Biblioteca Digital de Catalunya

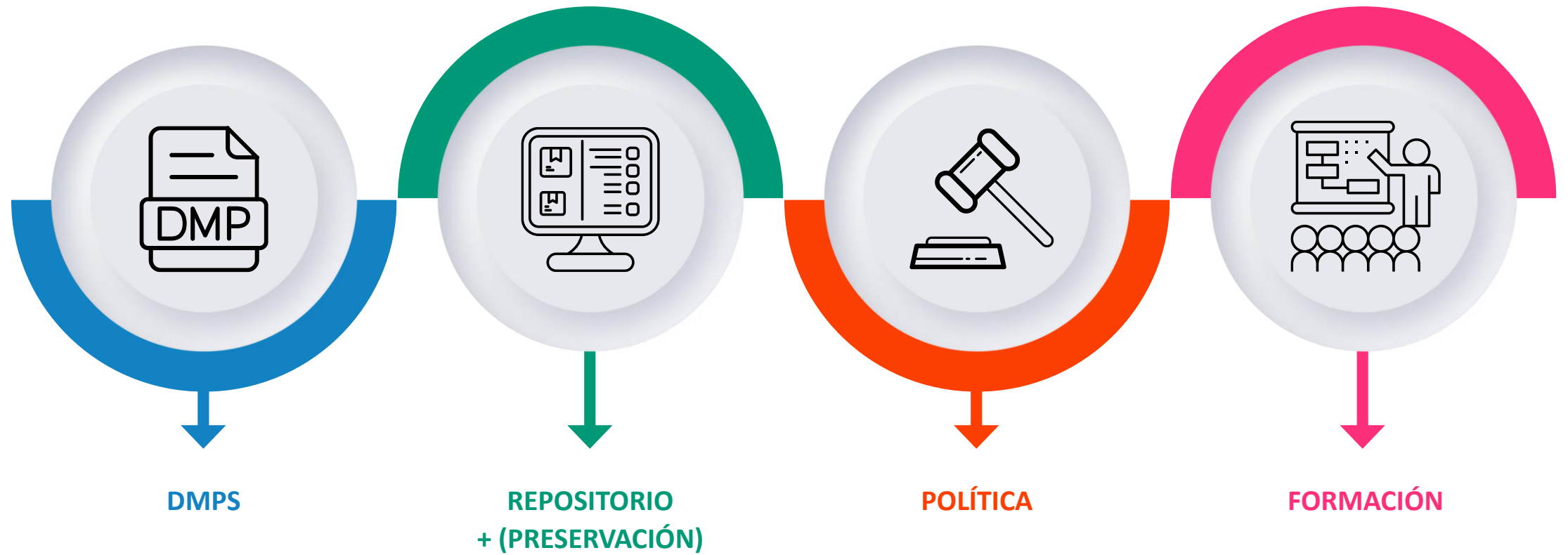
CIENCIA ABIERTA

- > Impulso a la ciencia abierta
- > Acceso abierto
- > CORA (Catalan Open Research Area)
- > Portal de la Investigación de Cataluña (PRC)
- > Gestión de datos de investigación
- > Repositorios

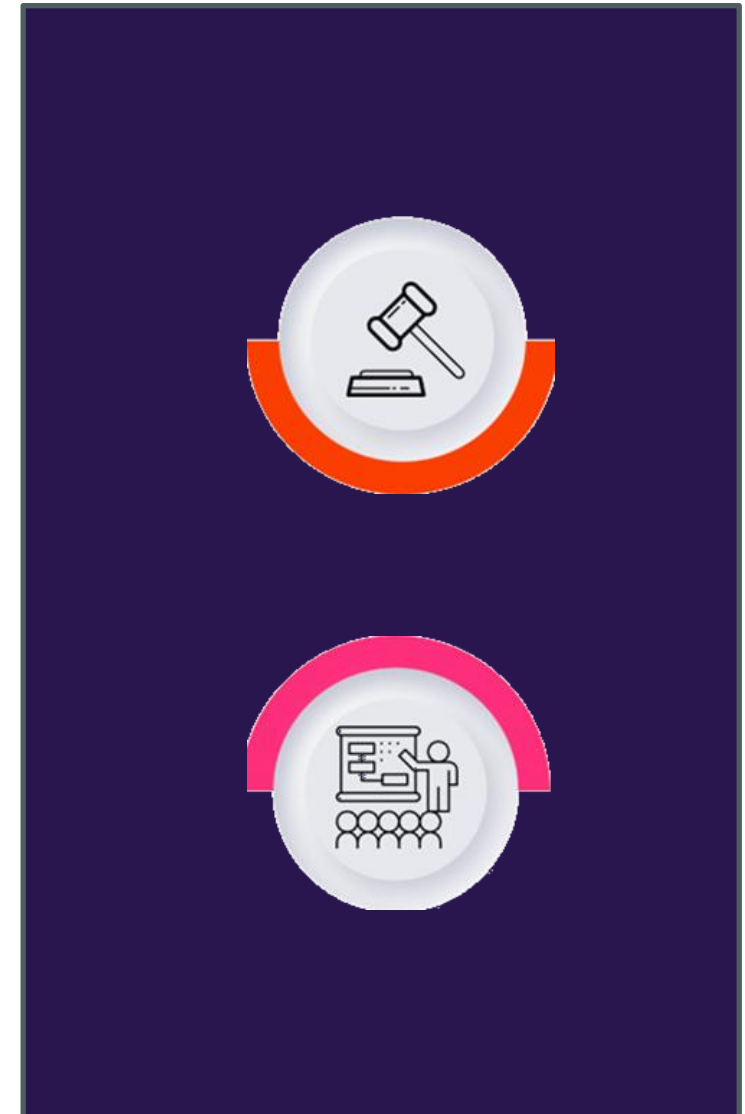
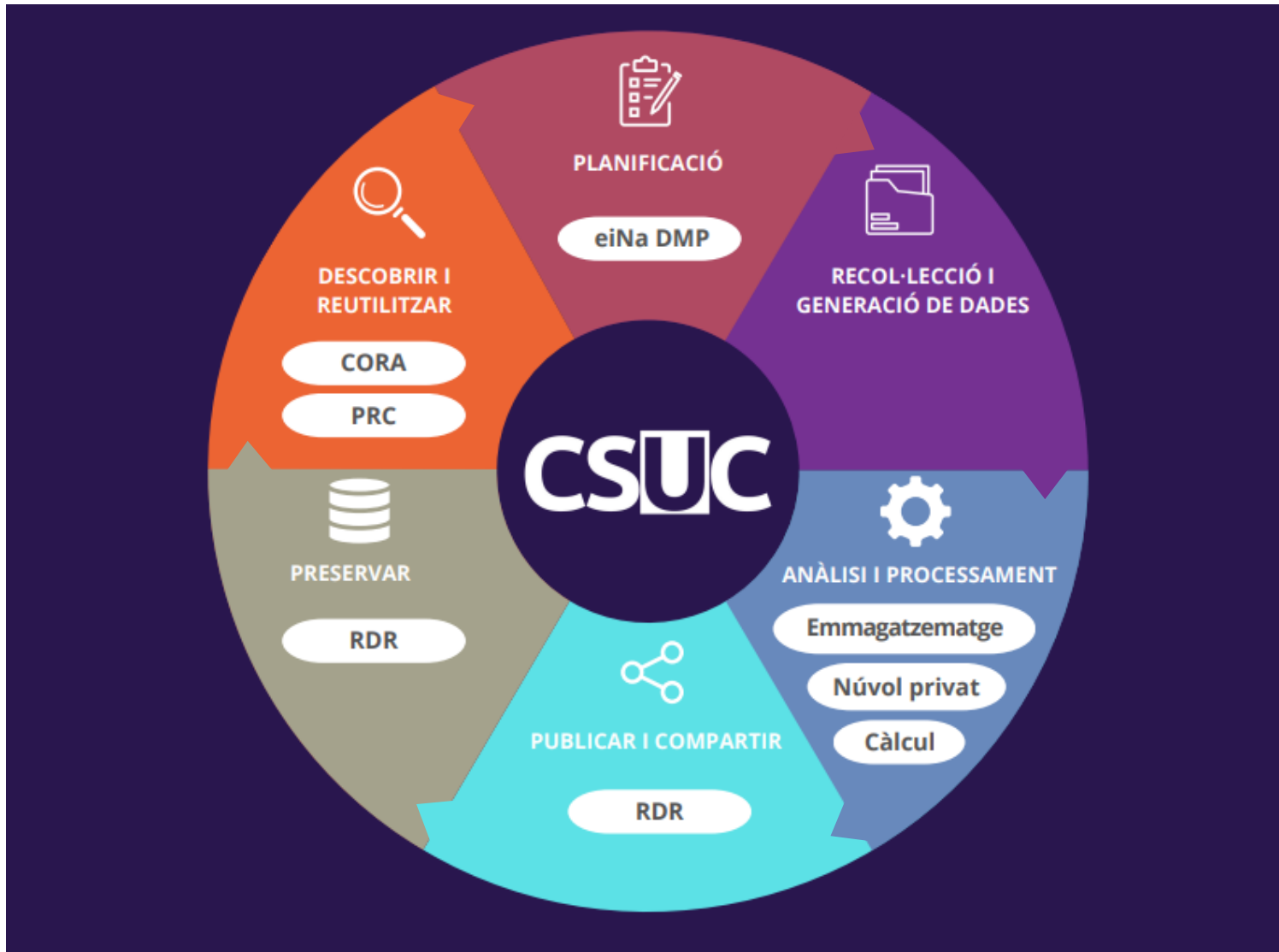
COMPRAS CONJUNTAS

Contratación de productos y servicios de calidad de manera ágil, eficaz, eficiente y con precios ventajosos gracias a la acción conjunta.

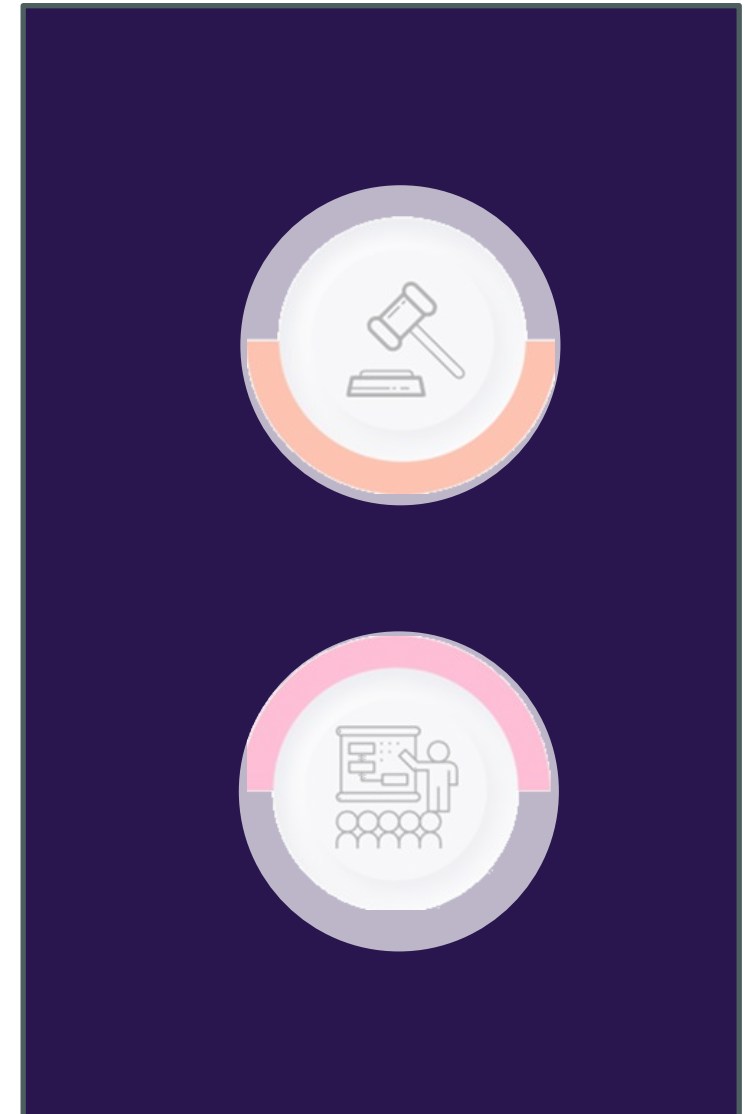
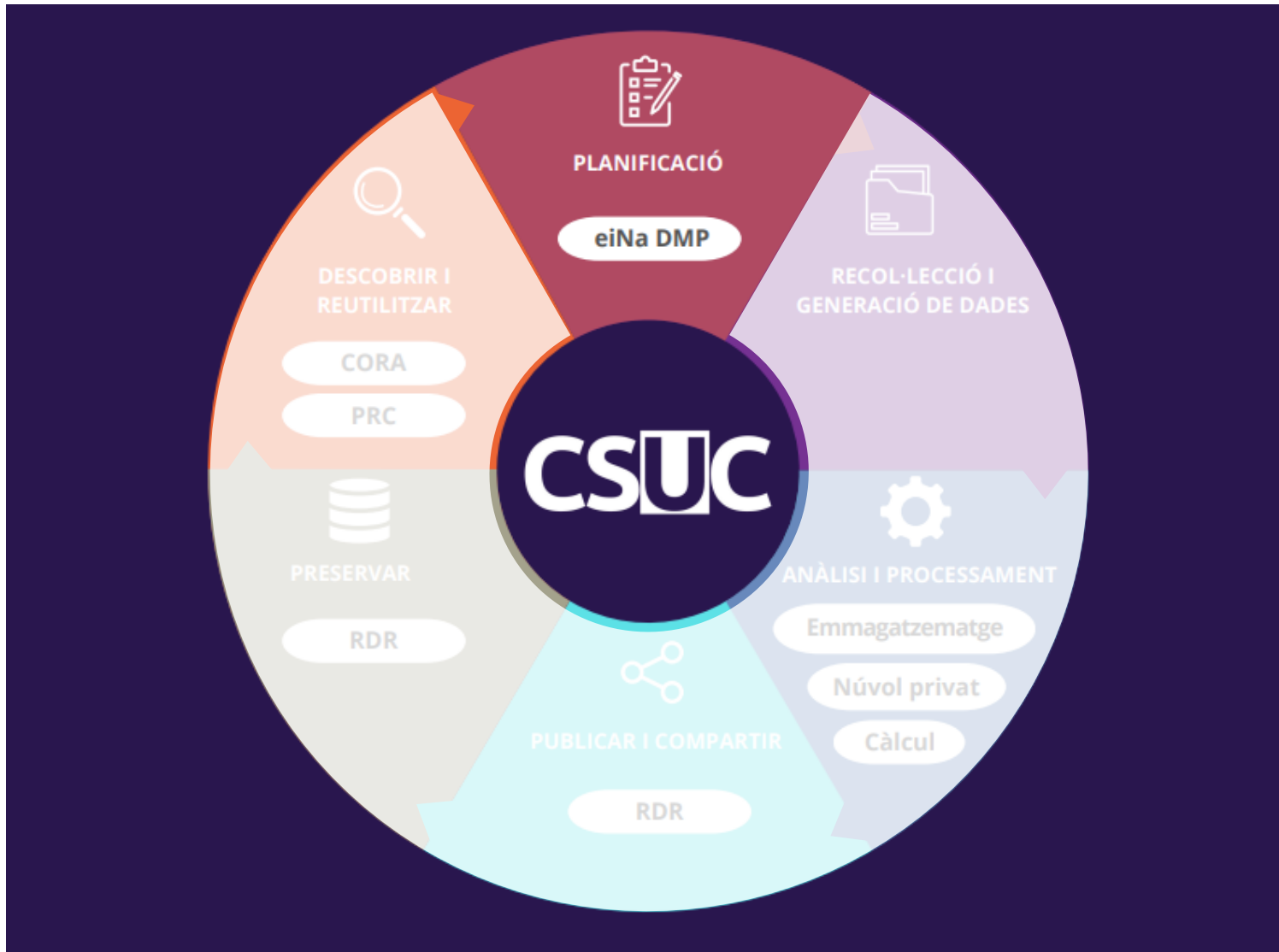
- > Beneficios
- > Energía
- > Material y gases de laboratorio
- > Equipamiento TIC
- > Servicios TIC
- > Software
- > Más compras conjuntas



Serviços para todo o ciclo de vida dos dados de investigação



Serviços para todo o ciclo de vida dos dados de investigação



O que é o eiNa DMP?

Ferramenta online gratuita
que permite:

- ✓ Criar
- ✓ Partilhar
- ✓ Rever
- ✓ Exportação

Cumprir requisitos institucionais e outros
organismos de financiamento, de forma
fácil e através de modelos

<https://dmp.csuc.cat/>

The screenshot shows the CORA eiNa DMP website. At the top, there are logos for the European Union, the Generalitat de Catalunya, and the Universitat de Catalunya. The navigation bar includes links for Home, About, Public DMPs, DMP Templates, Contact, and Help. The main content area features a sign-in form with fields for Email and Password, a 'Remember email' checkbox, and a 'Sign in' button. Below the form, a message states: 'This tool helps you to create, review, and share data management plans that meet institutional and funder requirements. Join the growing number of researchers that have adopted eiNa DMP:'. This is followed by statistics: 2185 USERS, 1325 PLANS, and 40 ORGANISATIONS. A prominent dark blue box on the right contains the text '10 simple rules for creating a good data management plan'. Below this, a message says: 'You can download funder templates without logging in, but from this tool you will find tailored guidance from these organizations. Why not sign up for an account and try it out?'. The bottom section displays a grid of logos for various institutions, including CSUC, Universitat de Barcelona, UAB, Universitat Politècnica de Catalunya, Universitat Pompeu Fabra, Universitat de Girona, Universitat de Lleida, Universitat Rovira i Virgili, Universitat Oberta de Catalunya, Universitat de Vic, Universitat Central de Catalunya, Universitat Ramon Llull, Universitat de les Illes Balears, ULC Barcelona, IFAE, Institut de Recerca Contra la Leucèmia Josep Carreras, IRB Barcelona, ICAC, i2cat, CRAQ, and VHIIO.

Para cada agência de financiamento encontramos

- ✓ Um formulário que replica os requisitos e permite preencher cada campo
 - Horizon Europe (European Commission)
 - Horizon 2020 (European Commission)
 - ERC DMP (European Research Council)
 - Plan Estatal (Agencia Estatal de Investigación)
 - Software Management Plan
 - Doctorand
- ✓ Uma série de guias e ajudas para ajudá-lo a saber o que incluir em cada campo do formulário
- ✓ Unos ejemplos reales de DMPs presentados a la Comisión Europea

Data Management Plan

Project Details Plan overview **Write Plan** Share Download

expand all | collapse all 0/21 answered

- 1. Data summary (0 / 6) +
- 2. FAIR data (0 / 4) +
- 3. Other research outputs (0 / 2) +
- 4. Allocation of resources (0 / 4) +
- 5. Data security (0 / 2) +

What provisions are or will be in place for data security (including data recovery as well as secure storage/archiving and transfer of sensitive data)?

B I [icons] [icon]

Save

Guidance Comments

Horizon Europe

5.A What provisions are or will be in place for data security (including data recovery as well as secure storage/archiving and transfer of sensitive data)? +

Briefly describe the technical measures that will be implemented in the short to medium term to ensure data integrity (data backup), recoverability (prevention of data loss) and security (to prevent unauthorized access).

Real example

1. Data collected from the research group for the Project will be digitised and stored on the University's which is subject to regular back-up that is controlled by the University's IT personnel. The IT department performs operations by type: missioncritical (user data, virtual machines, scientific results, etc.) and static (scientific data sets, intermediate files, etc.). Content will be checked regularly to preserve its integrity, security and durability. These procedures are designed, set and applied in order to fully comply with personal data as ruled by Directive 95/46/EC (General Data Protection Regulation) and other current national legislation and institutional regulations. Research team members will have an appropriate access level according to their role in the project.

Will the data be safely stored in trusted repositories for long term preservation and curation?

B I [icons] [icon]

Save

Guidance Comments

Horizon Europe

5.B Will the data be safely stored in trusted repositories for long term preservation and curation? +

- 6. Ethics (0 / 1) +
- 7. Other issues (0 / 1) +
- 8. Further support in developing your DMP (0 / 1) +

Cadernos de encargos individuais de cada instituiç o

1. Data summary (0 / 1)

2. FAIR data (0 / 4)

3. Allocation of resources (0 / 1)

4. Data security (0 / 1)

Address data recovery as well as secure storage and transfer of sensitive data

B I            

Save

Guidance

Comments

H2020 UPF (Ciutadella) UPF (Mar) UPF (Poblenou)

4.A Address data recovery as well as secure storage and transfer of sensitive data +

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H2020 UPF (Ciutadella) UPF (Mar) UPF (Poblenou)

4.A Address data recovery as well as secure storage and transfer of sensitive data +

Ciutadella Campus also performs backups based on a type-class basis: user's data and virtual machines

- User's data (projects, HPC results, etc) are backed up:
 - Three times a day, locally (09:00, 15:00, 21:00), and retained for one day. Granularity: 3
 - Daily, weekly and monthly, once a day (23:00) and retained:
 - Daily backups, a whole week. Granularity: 7
 - Weekly backups, a whole month. Granularity: 4
 - Monthly, a year. Granularity: 2
- Virtual machines are backed up once a week, and copies are classified and retained on a time-basis:
 - 1 copy weekly backup retained for 2 months

H2020 UPF (Ciutadella) UPF (Mar) UPF (Poblenou)

4.A Address data recovery as well as secure storage and transfer of sensitive data +

Area del Mar maintains backups on a data-class basis:

- User's computational data:
 - Once a day, locally (00:00), and retained for one week. Granularity: 7 (7x1)
 - A single subset of this data (user's own data) is backed up weekly and retained for two months. Granularity: 8 (8x1)
- Server data is also retained backed up weekly and retained for two months. Granularity: 8 (8x1)

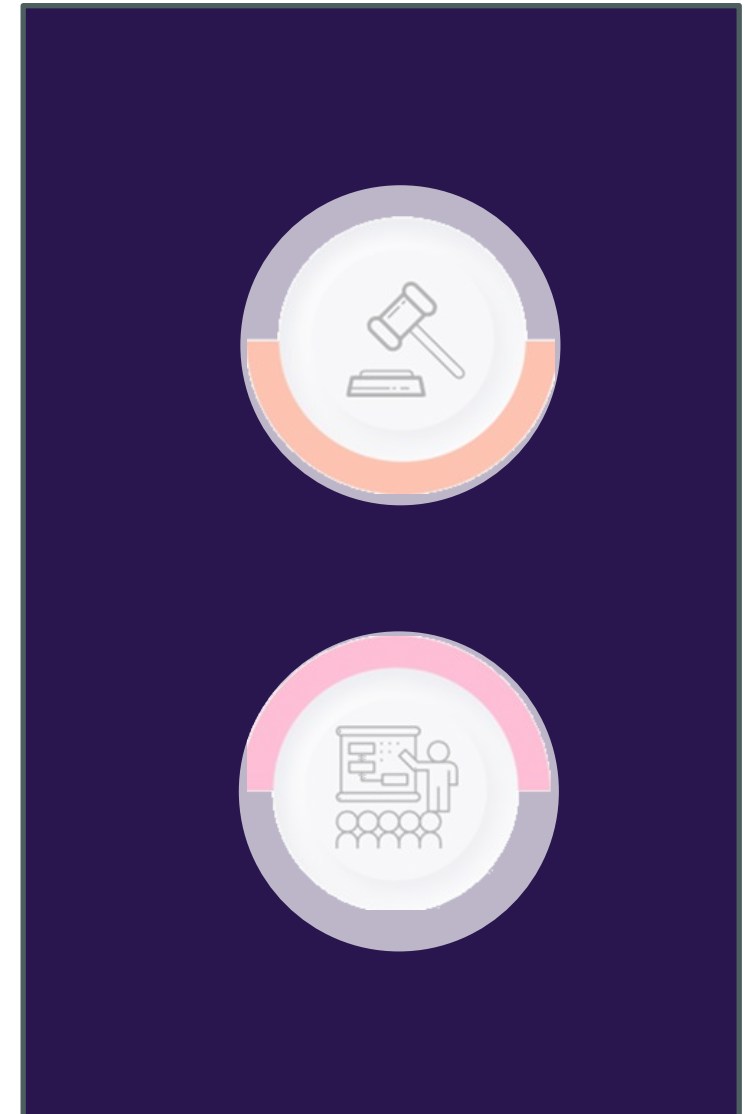
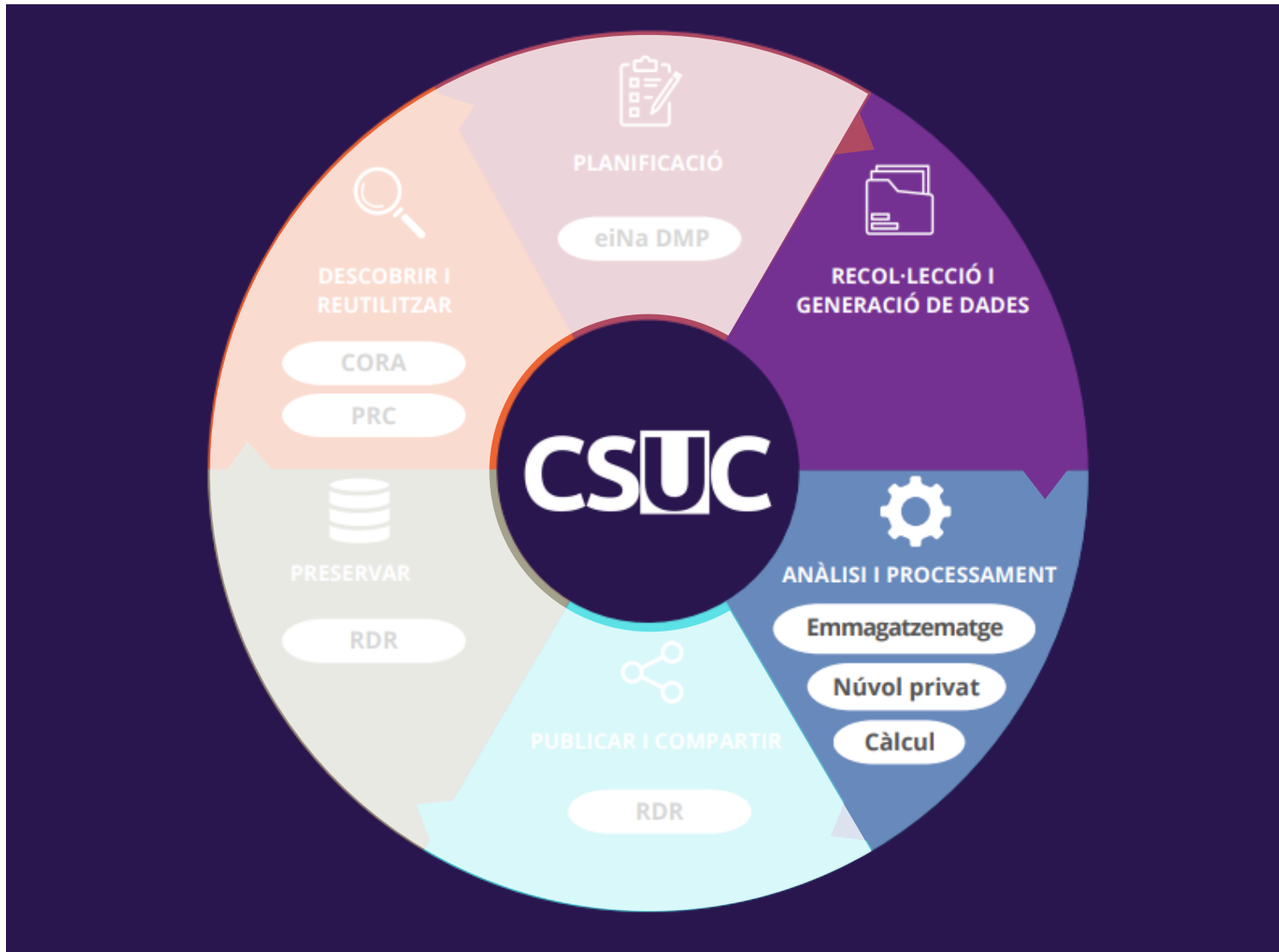
H2020 UPF (Ciutadella) UPF (Mar) UPF (Poblenou)

4.A Address data recovery as well as secure storage and transfer of sensitive data +

Data is backed up on a type-class basis: mission-critical (user's data, virtual machines, scientific output, etc) and static (scientific datasets, intermediate files, etc).

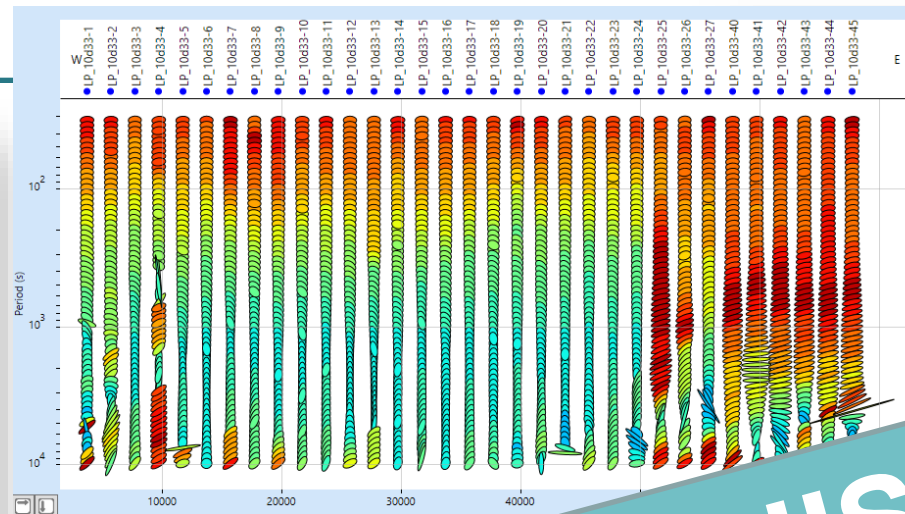
- Mission-critical data is backed up:
 - Virtual Machines:
 - Local backup on Campus Poblenou: from Mon to Sat, at 09:00PM retained 6 days. On Sundays, at 09:00PM and retained 3 weeks
 - Remote transfer to Jaume Primer Datacenter: Everyday at 10:00PM and retained 2 weeks
- Static data is backed up:
 - User and Shared Data:
 - Local backup on Campus Poblenou: from Mon to Sat, at 10:00PM retained 6 days. On Sundays, at 10:00PM and retained 3 weeks
 - Remote transfer to Jaume Primer Datacenter: Everyday at 11:00PM and retained 2 weeks
 - Virtual Machines Static Data:
 - Local backup on Campus Poblenou: from Mon to Sat, at 09:00PM retained 6 days. On Sundays, at 09:00PM and retained 3 weeks
 - Remote transfer to Jaume Primer Datacenter: Everyday at 10:00PM and retained 2 weeks
- Backups are processed automatically based on NetApp snapshot technology (SnapVault) service on a time-scheduled basis.
- Standard recovery processes are available: CIFS sharing (previous versions), NFS exports, Qtree and volume restore.

Serviços para todo o ciclo de vida dos dados de investigação





Fotografies d'una excavació

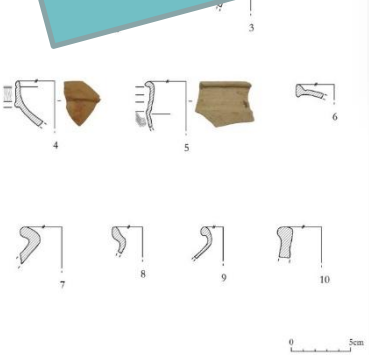


Sèrie temporal d'una

al	stage	sex	age	site	event_free	time_free	event_global	time_global	metastasis_
	IIA	Male	66	Left	0	1571	0	1571	
	IIA	Male	66	Left	0	1571	0	1571	
	IIA	Female	51	Left	1	442	0	1003	Liver
	IIA	Female	51	Left	1	442	0	1003	Liver
	IIA	Male	60	Left	0	1927	0	1927	
	IIA	Male	60	Left	0	1927	0	1927	
	IIA	Male	74	Left	0	2316	0	2316	
	IIA	Male	74	Left	0	2316	0	2316	
	IIA	Female	85	Left	0	755	0	755	
	IIA	Female	85	Left	0	755	0	755	
		Male	62	Left					
		Female	77	Left					
	IIA	Female	68	Right	0	1425	0	1425	
	IIA	Female	68	Right	0	1425	0	1425	
		Male	68	Right	1	452	1	529	Lung
		Male	68	Right	1	452	1	529	Lung
		Male	67	Left	1	1449	0	1467	
		Male	67	Left	1	1449	0	1467	
		Left	1		1078	0		1211	Lung
		Left	1		1078	0		1211	Lung

le pacients amb càncer de colon

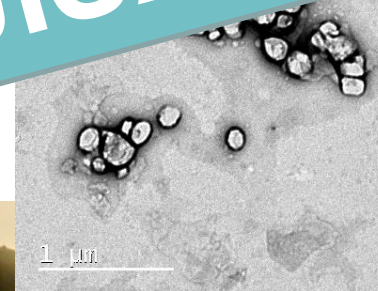
É tudo DADOS DE PESQUISA!



Làmines d'una intervenció arqueològica



L'ús de materials per l'elaboració d'eines rudimentàries



Conjunt d'imatges de microscopi sobre polímers

Guia primera entrevista
(Gabriel Velez)

Información general

- Nombre
- Edad
- Historial académico (formación)
- Como llegaste a BCN

Primer contacto con los ordenadores

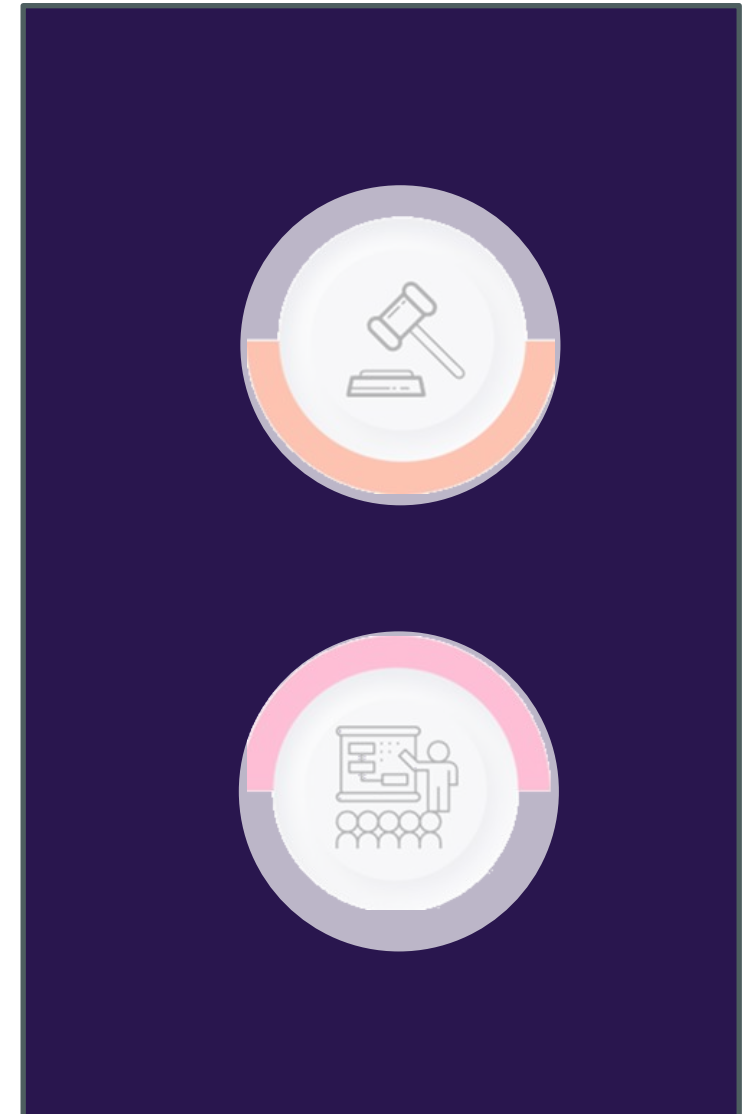
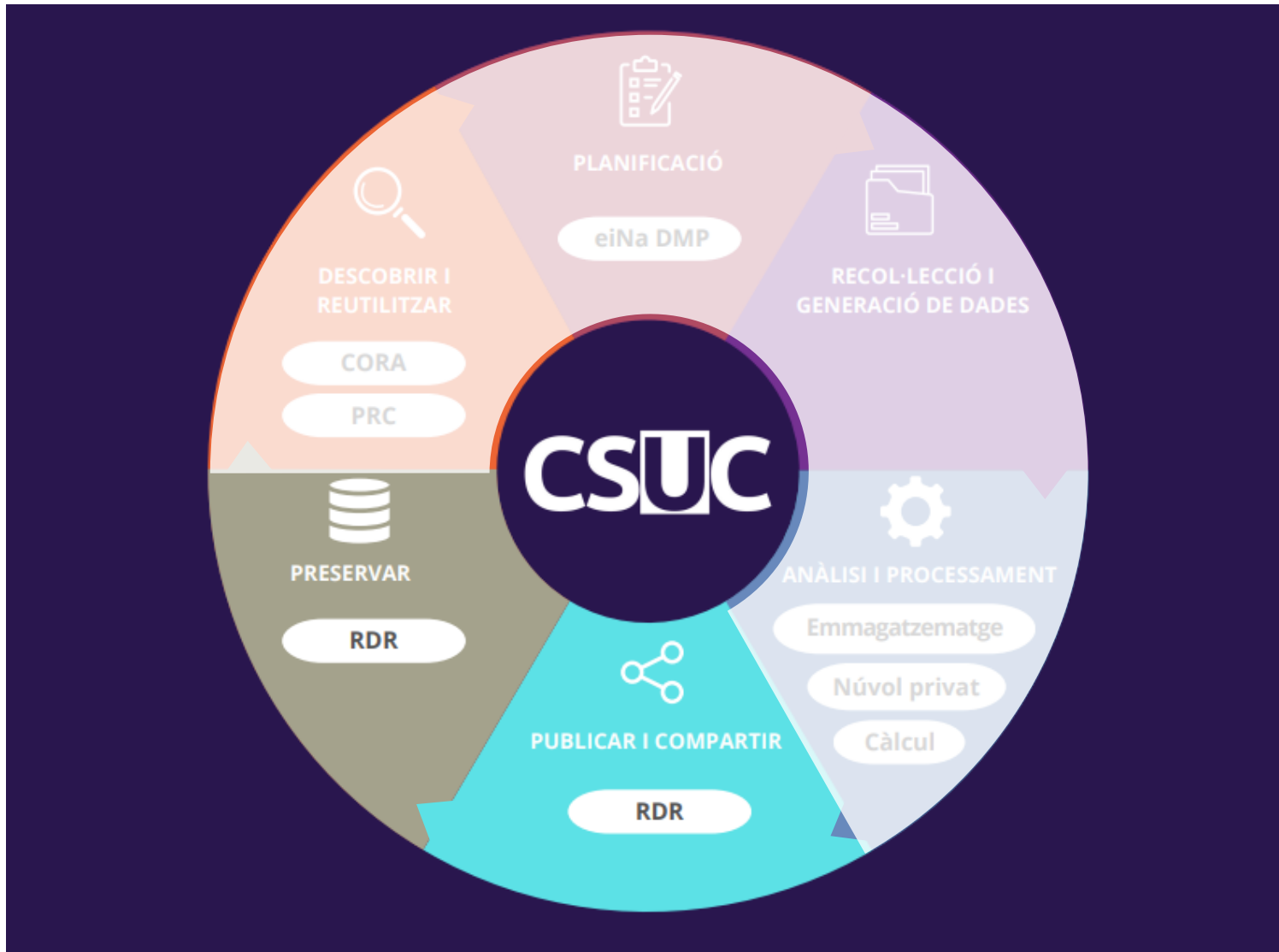
- ¿Recuerdas cuando fue tu primer contacto con la computadora?
- ¿Para que la utilizaste?
- ¿Cómo aprendiste a manejarla?
- ¿Cuántos años tenías?
- ¿La tuviste en casa, en la escuela?

Prácticas electrónicas

- ¿Qué es lo que generalmente haces en ella? (tanto para la escuela como prácticas libres)
- Lee prensa, revistas, traductores
- Participas en foros de qué tipo
- Tienes blog, Fotolog, Facebook, hi5, Flickr
- ¿Conoces otros foros de este tipo?
- ¿Cómo los descubriste?
- ¿Cómo decidiste participar en ellos?
- ¿Cómo aprendiste a manejarlos?

Guions d'entrevistes

Serviços para todo o ciclo de vida dos dados de investigação



O que é CORA.RDR?

- ✓ Repositório federado para conjunto de dados
 - Universidades
 - Centros de investigação CERCA
- ✓ Multidisciplinar
- ✓ Para pessoal docente e investigador e estudantes de doutoramento
- ✓ Aberto (tão aberto quanto possível, mas tão fechado quanto necessário)
- ✓ Atende aos requisitos da agência de financiamento e aos princípios FAIR
- ✓ 500 GB por padrão conjunto de dados

<https://dataverse.csuc.cat/>

The screenshot displays the CORA.RDR website interface. At the top, the header includes the CORA logo and navigation links: Home, About, Search, User Guide, Metrics, Contact, English, and Log In. Below the header is a search bar with the placeholder text "Search this dataverse..." and an "Advanced Search" button. A statistics section shows: 42 UNIVERSITIES & CERCA CENTERS, 1,549 DATASETS, 113,428 FILES, 1,038,201 DOWNLOADS, and 5 TB STORAGE. A row of partner logos follows: UNIVERSITAT DE BARCELONA, IPHES, CVC, Universitat de Girona, IrsiCaixa, and CED. The main content area shows search results for "1 to 10 of 1,777 Results". On the left, filters for "Dataverses (228)", "Datasets (1,549)", and "Files (113,428)" are visible. Below these are sections for "Publication Year", "License", "Subject", and "Kind of Data", each with a list of options and a "More..." link. The right side of the results area shows three dataset entries, each with a document icon, title, date, author, and a brief description. The first entry is "Method validation of SPE/LC-HRMS using sol-gel zwitterionic sorbent" by Fontanals Torroja, Nùria, et al. The second is "Ceramic passive samplers evaluation" by Fontanals Torroja, Nùria, et al. The third is "Replication Data for: A configurational analysis of internationalization, absorptive capacity, and resource-based factors explaining firms' innovation performance" by Federo, Ryan, et al. The fourth entry is partially visible: "Optimized alveolar epithelial cell model for chronic Pseudomonas aeruginosa lung infection and co-infection studies with Staphylococcus aureus".



Funding agencies

Comply with funder requirements



Infrastructure

Store your data in Catalan servers



Unlimited datasets

Deposit up to 100GB for free



Data curation

Increase the FAIRness of your dataset with the help of data curation staff



Licenses

You can choose the license that best suits your dataset



Dataset rights

Keep your publication, custody and dissemination rights



Share the data

You'll be able to control and share the dataset with others before making it public



Persistent identifier

Identify the dataset with a unique DOI



ORCID

Identify the authors of the dataset with their unique ORCID



Preservation

Preserve datasets for a minimum of 10 years



Versions

You can update the dataset and make as many versions as necessary



Format conversion

Prepare the files to be converted into open formats for long term preservation



Related publications

Link datasets to related publications through metadata



Visibility

Make the dataset findable in EOSC, OpenAIRE, RECOLECTA, and Google, among others

Identificação da instituição

Métrica
- Global por instituição
- Por conjunto de dados

Contato com a autoria do conjunto de dados

Os conjuntos de dados seguem a curadoria do **REVISAT**



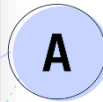
The screenshot shows the CORA dataset page for 'Optical Constellation Analysis (OCATA)' by Ruíz Ramírez, Marc; Velasco Esteban, Luis Domingo; Sequeira, Diogo Gonçalo, 2022. The page includes a description, subject (Computer and Information Science), keyword (Optical constellation, WDM networks, 16-QAM), related publication, and license (CC BY 4.0). It also displays dataset metrics: 523 Views, 349 Downloads, and 3 Citations. The 'Files' section lists two files: '16QAM-multipleLink-s1_data.zip' and '16QAM-multipleLink-s1_description.pdf'. The 'Metadata' section shows the dataset's structure and version history.



Citação de dados com identificador persistente(DOI)



Conjunto de dados localizável em diferentes portais (EOSC, Google, OpenAIRE, Recolecta...)



Acesso aos processos(Aberto Apreendido o Restrito)

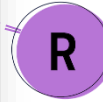


Capacidade de fazer versões e ter acesso a cada uma delas

Dataset	Summary
2.1	Citation Metadata: Author (1 Changed); Files (Changed File Metadata: 22); View Details
2.0	Citation Metadata: Author (2 Changed); Related Publication (1 Changed); Additional Citation Metadata: (1 Added); Files (Removed: 1; Replaced: 1); View Details
1.1	Citation Metadata: Author (1 Changed); Keyword (4 Added, 3 Changed); Additional Citation Metadata: (1 Added); View Details
1.0	This is the first published version.



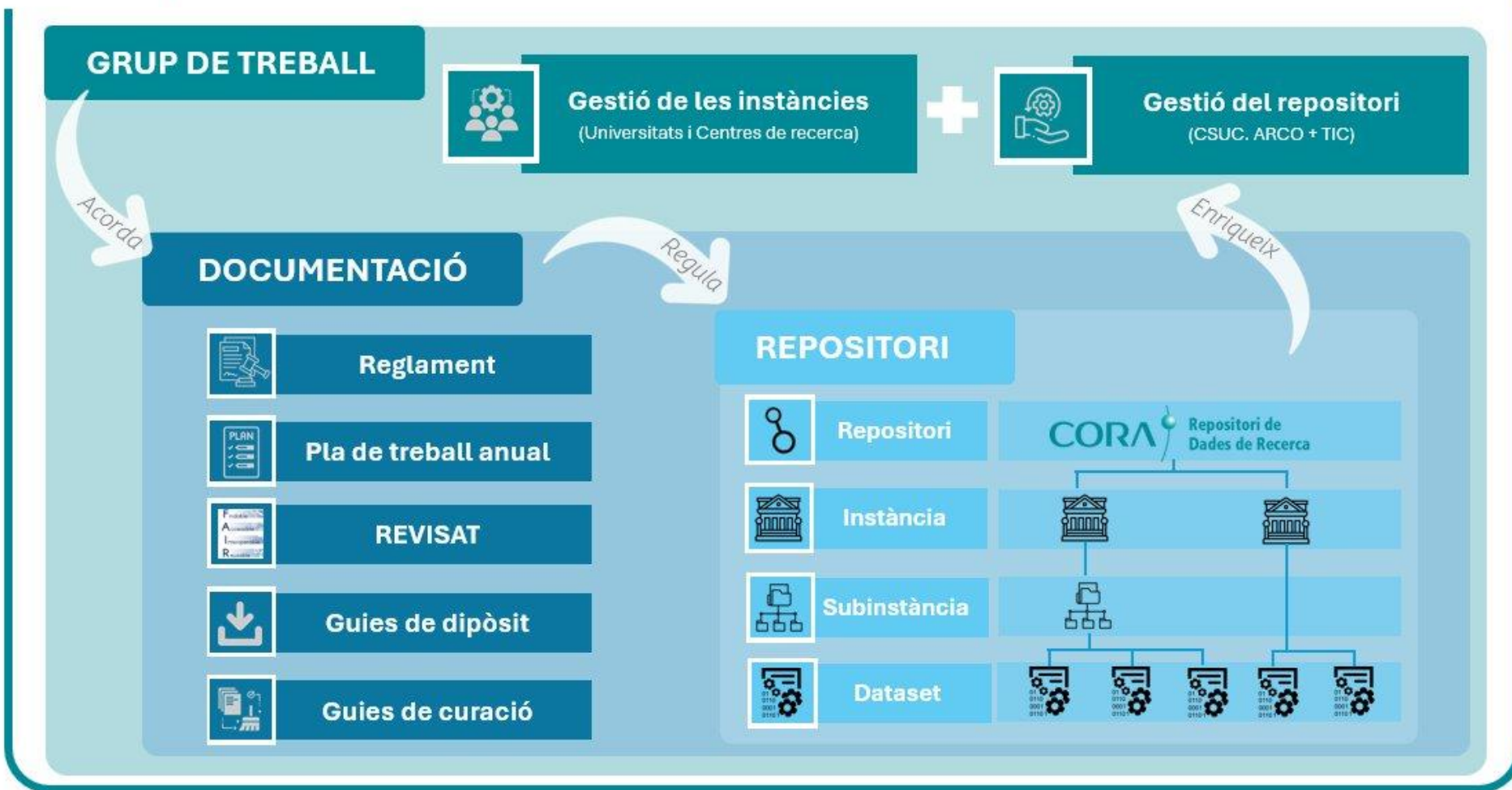
Metadados Genéricos e Disciplinares



Termos de Uso e Licenças (Recomendação de Licenciamento CC; Metadados CC0)



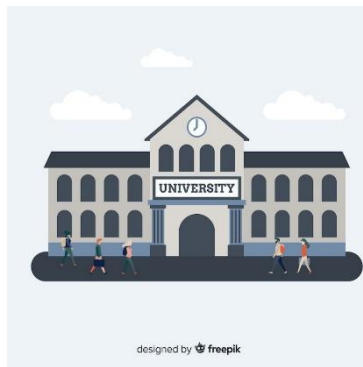
Como trabajamos?



✓ Os perfis envolvidos nas atividades de RDR variam de acordo com o contexto institucional:

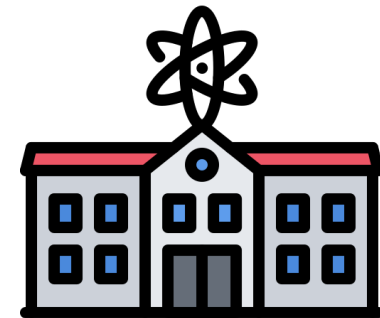
- **Universidades**

- São geralmente bibliotecários com experiência em gestão da informação, que também assumem funções de apoio à investigação. Trabalham em estreita colaboração com investigadores para aconselhar sobre a gestão, preservação e publicação de dados

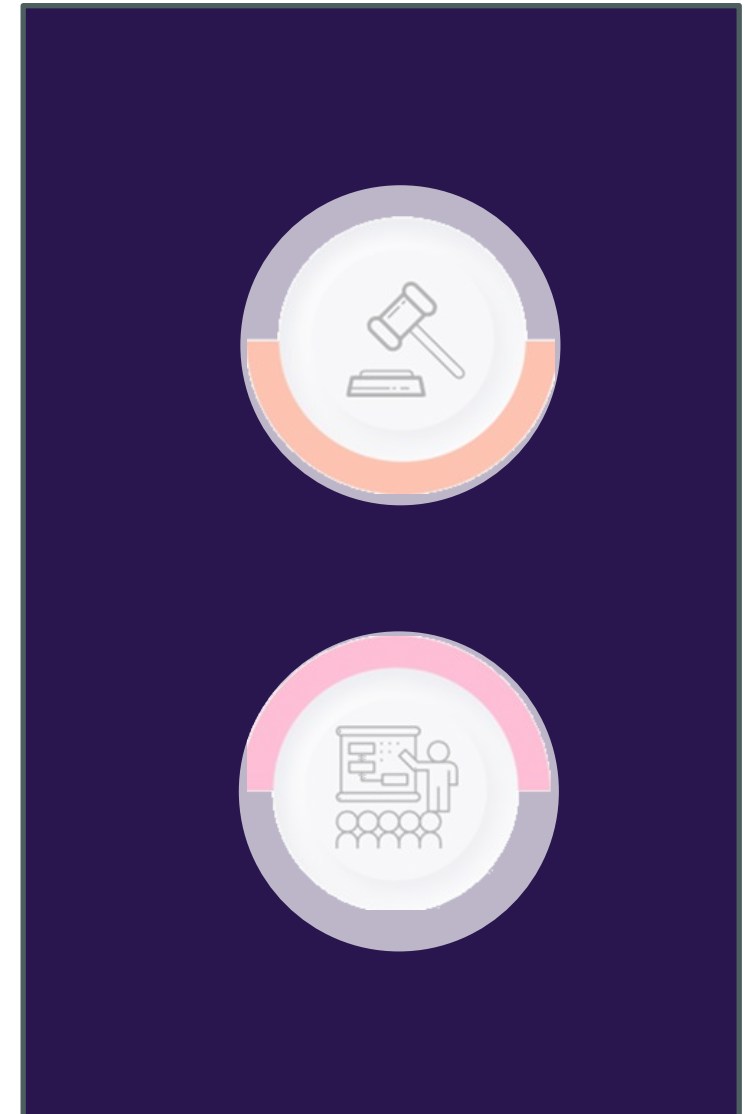
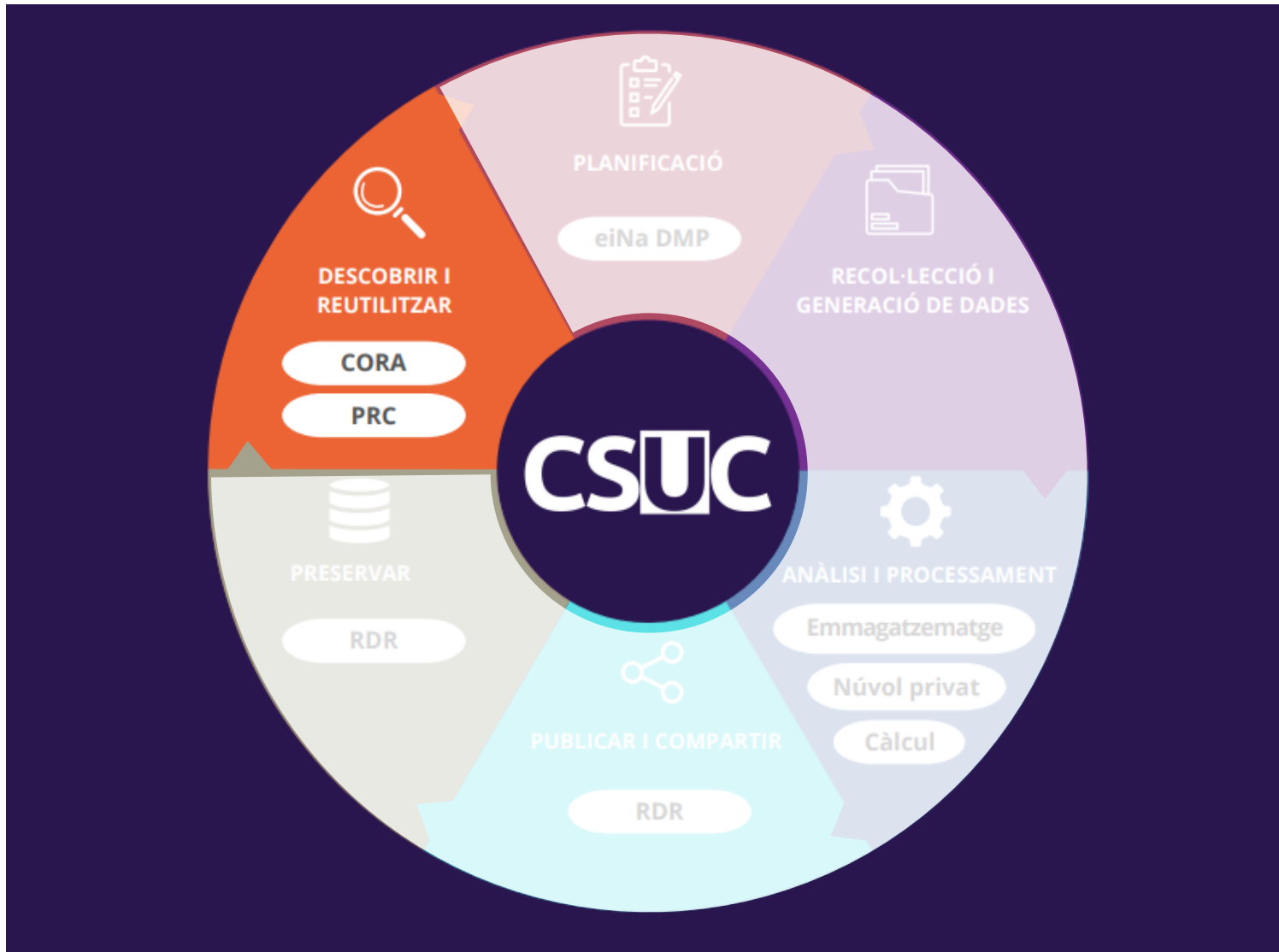


- **Centros de investigação**

- Geralmente são investigadores em pós-doutoramento que já trabalharam no mesmo centro ou disciplina, o que lhes permite obter uma compreensão aprofundada das práticas de investigação e fornecer uma perspetiva técnica e contextual valiosa



Serviços para todo o ciclo de vida dos dados de investigação



Facilitar a descoberta de conjuntos de dados

CORA Repositori de Dades de Recerca

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

CORA Repositori de Dades de Recerca • Universitat Politècnica de Catalunya • CC-BY • Centre de Comunicacions Avançades de Banda Ampla

Optical Constellation Analysis (OCATA)

Version 1.1

Ruiz Ramirez, Marc; Velasco Esteban, Luis Domingo; Sequeira, Diogo Gonçalo. 2022. "Optical Constellation Analysis (OCATA): Deep learning-based real-time analysis of lightpath optical constellations [Invited]." *Journal of optical communications and networking*. 1 June 2022, vol. 14, No. 6, p. C70-C81. doi: 10.1364/OCCN.451315

Access Dataset

Contact Owner

Share

Dataset Metrics

122 Views

343 Downloads

3 Citations

Description

The dataset contains synthetic IQ optical constellation data for 16-QAM optical connections generated with a Matlab-based coherent WDM optical system simulator.

Subject ID

Computer and Information Science

Related Publication

Ruiz, M.; Sequeira, D.; Velasco, L. Deep learning-based real-time analysis of lightpath optical constellations [Invited]. *Journal of optical communications and networking*. 1 June 2022, vol. 14, No. 6, p. C70-C81. doi: 10.1364/OCCN.451315

License/Usage Agreement

CC BY 4.0

Files

Metadata

Terms

Versions

Search this dataset...

File Type: All

Access: All

File Type: All

1 of 5 of 5 Files

Download

16QAM-multiplex-16-1_data.zip

2022-01-16 10:10:10

Download

16QAM-multiplex-16-1_description.pdf

2022-01-16 10:10:10

Download

16QAM-multiplex-16-1_data.zip

2022-01-16 10:10:10

Download

CORA Portal de la Recerca de Catalunya

Inici Sobre el PRC Preguntes més freqüents Estadístiques Contacte Idioma

Cerca per...

A tot el portal

UNIVERSITATS I CENTRES RECERCA

PROJECTES DE RECERCA

GRUPS DE RECERCA

INVESTIGADORS/ES

PUBLICACIONS

TESIS

DATASETS

TORNAR ENRERE

Optical Constellation Analysis (OCATA)

Registre Dublin Core complet

Títol: Optical Constellation Analysis (OCATA)

Autors: Ruiz Ramirez, Marc; Velasco Esteban, Luis Domingo; Sequeira, Diogo Gonçalo

Investigadors/es (PRC): Ruiz Ramirez, Marc; Velasco, L.

Descripció: The dataset contains synthetic IQ optical constellation data for 16-QAM optical connections generated with a Matlab-based coherent WDM optical system simulator

Paraula clau: Optical constellation, 16-QAM

Matèries: Computer and Information Science

Ruiz, M.; Sequeira, D.; Velasco, L. Deep learning-based real-time analysis of lightpath optical constellations [Invited]. *Journal of optical communications and networking*. 1 June 2022, vol. 14, No. 6, p. C70-C81. doi: 10.1364/OCCN.451315

Mendeley Data

Sign In / Register

optical constellation

Advanced search help

Search results powered by **Data Monitor**

Filter Results 194 results

Sort by Most relevant

PUBLISHED DATE

1970 2024

From 1970 To 2024

DATA TYPES

Export: APA BibTeX DataCite RIS

Optical Constellation Analysis (OCATA)

Ruiz Ramirez, Marc; Velasco Esteban, Luis Domingo; Sequeira, Diogo Gonçalo; Ruiz Ramirez, Marc

Published 1 January 2022 | Consorci de Serveis Universitaris de Catalunya

The dataset contains synthetic IQ optical constellation data for 16-QAM optical connections generated with a Matlab-based coherent WDM optical system simulator

OpenAIRE **EXPLORE**

Search Deposit Link Data sources Funders

Repositor de Ciència

View all 4 versions

Link to

Share

Cite

Claim

Optical Constellation Analysis (OCATA)

Research Data Dataset • 01 Jan 2022 • Publisher: CORA.Repositori de Dades de Recerca

Authors: Ruiz Ramirez, Marc; Velasco Esteban, Luis Domingo; Sequeira, Diogo Gonçalo;

DOI: 10.34810/data146

Citations 3

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Optical Constellation Analysis (OCATA)

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Description Metadata Manifestations

The dataset contains synthetic IQ optical constellation data for 16-QAM optical connections generated with a Matlab-based coherent WDM optical system simulator

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Optical Constellation Analysis (OCATA) https://doi.org/10.34810/data146

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Ruiz Ramirez, M., Velasco

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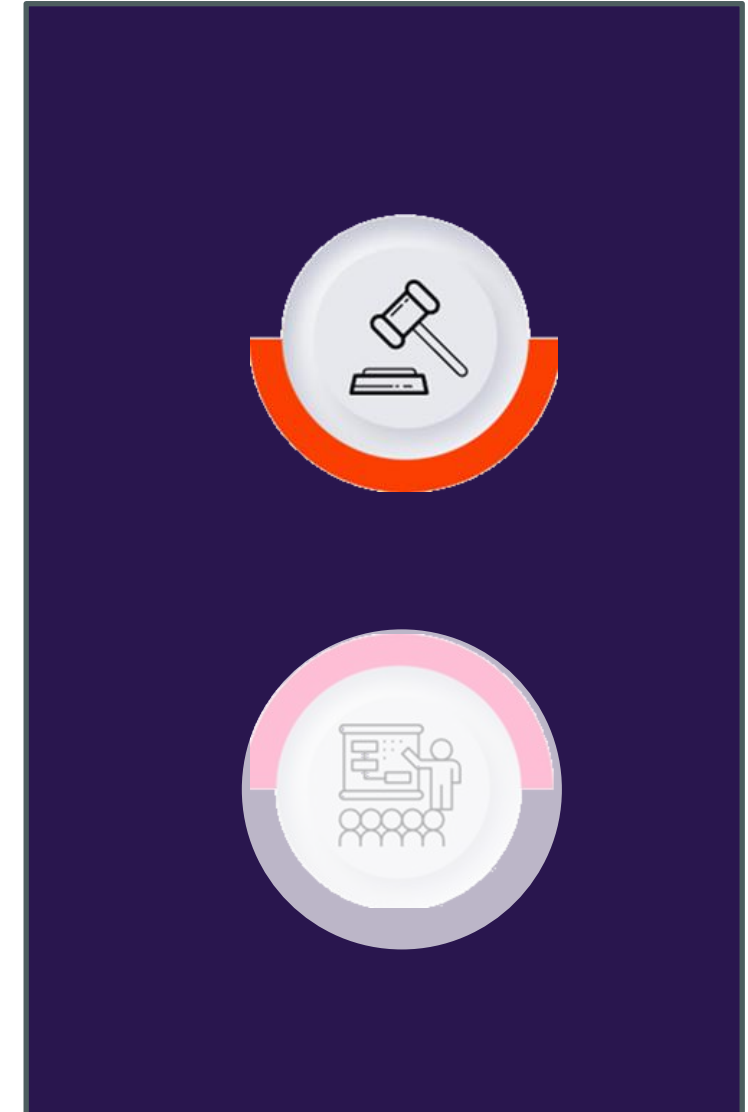
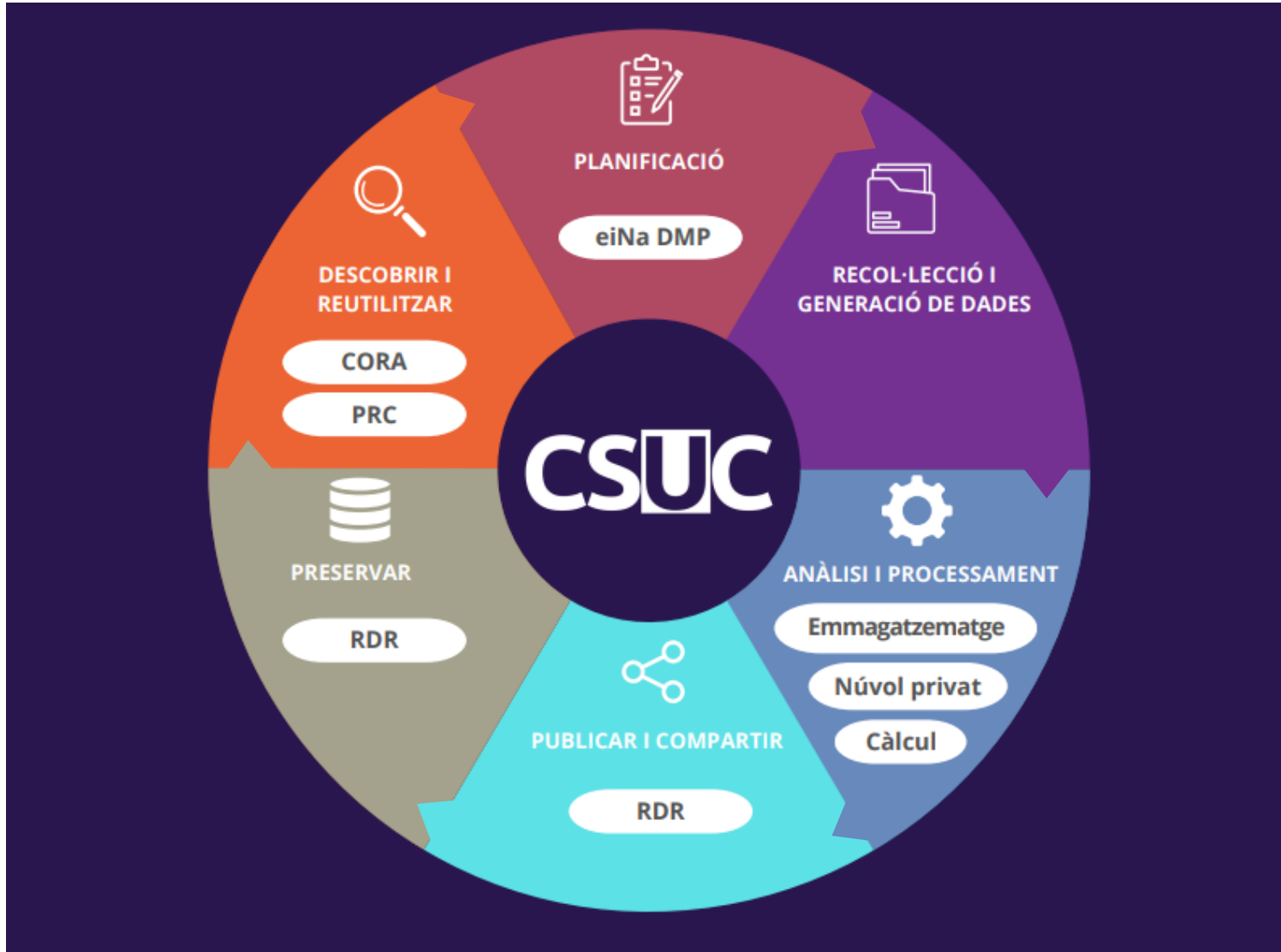
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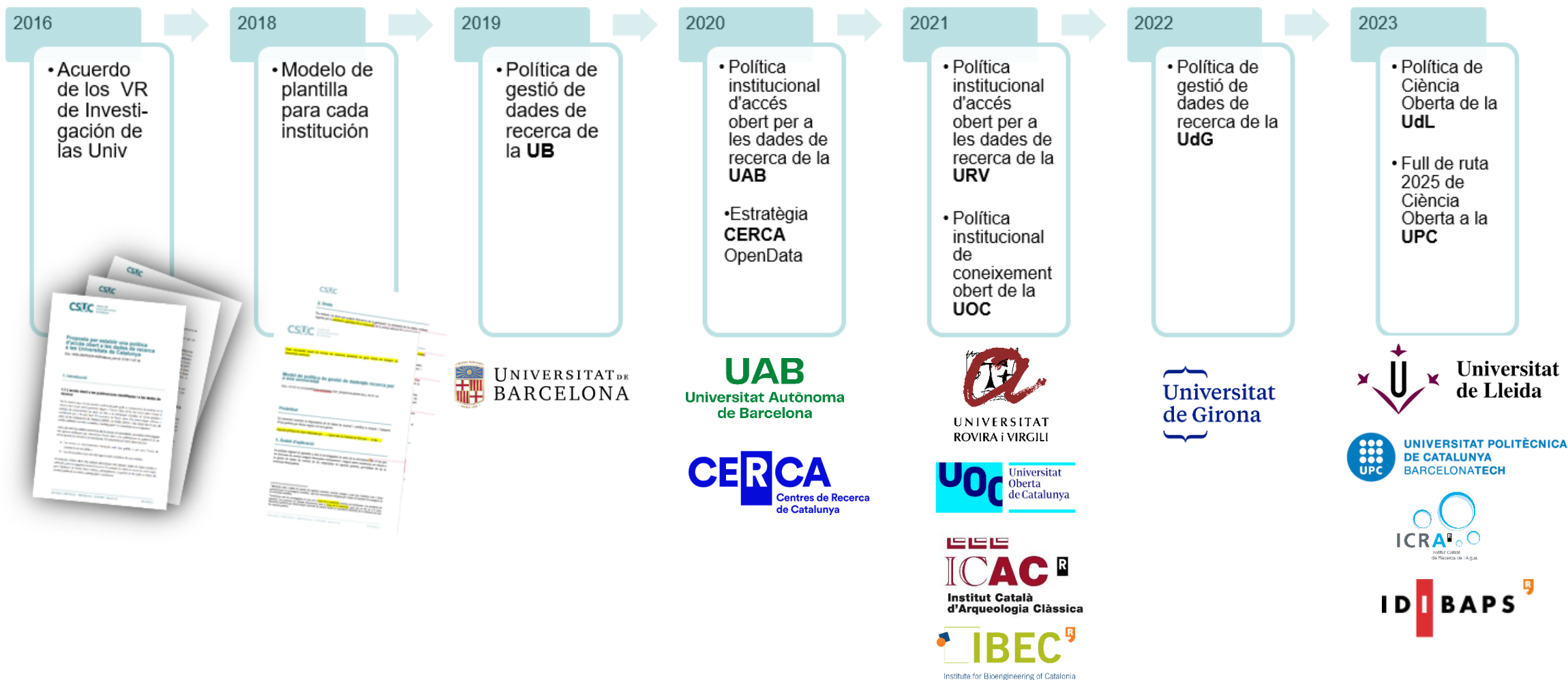
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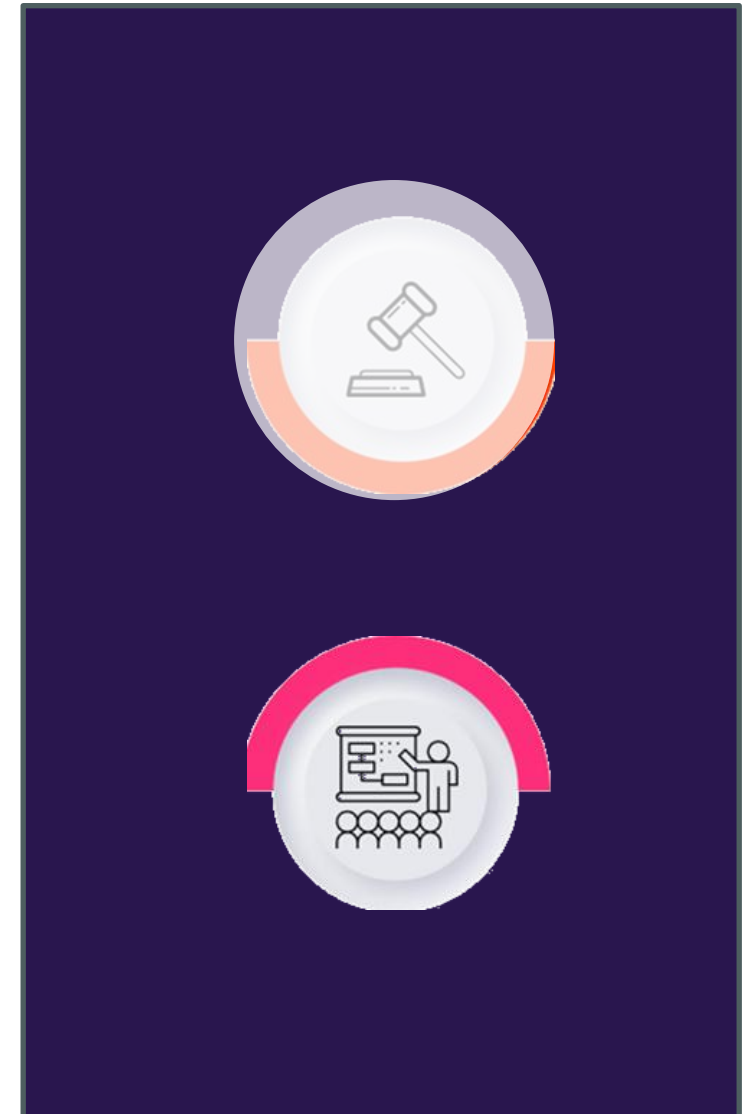
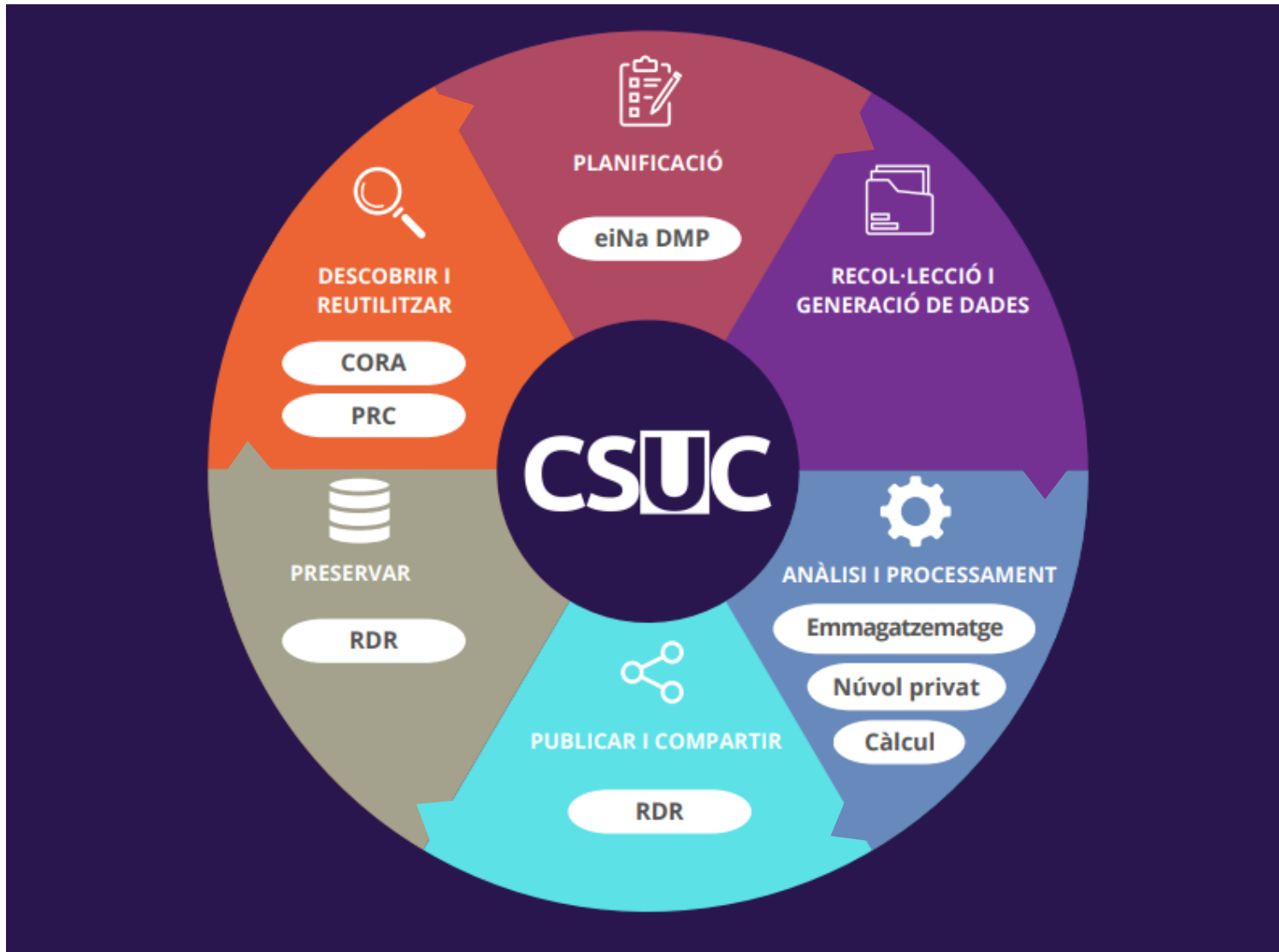
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