

Contribute to the history and memory of science in Portugal

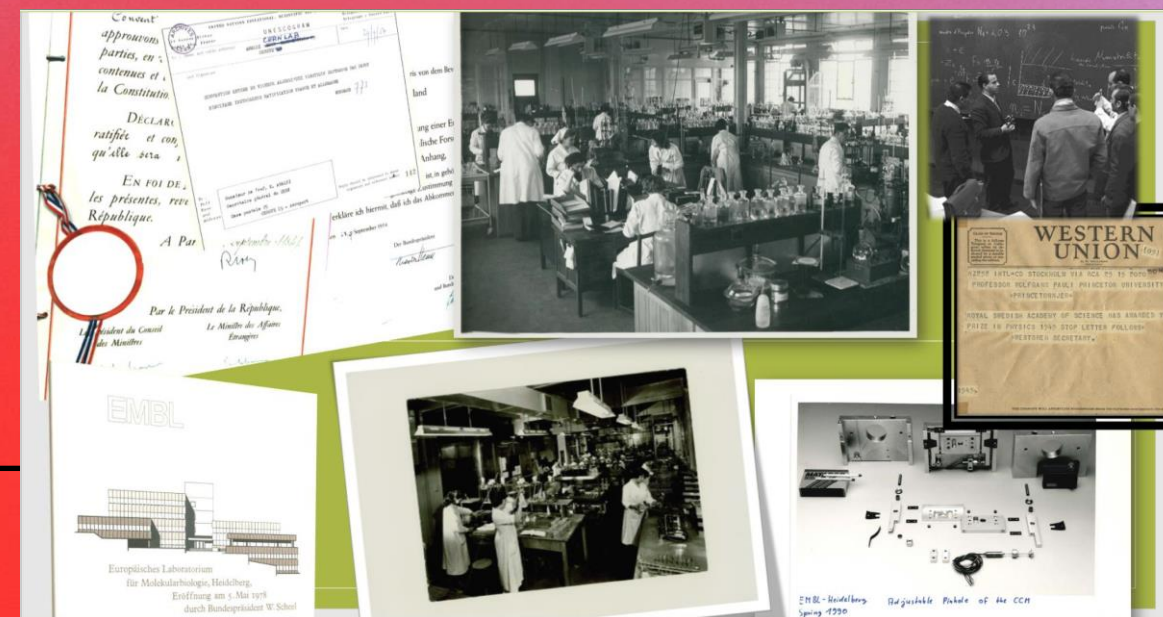
Symposium on Scientific Archives
27-28 June 2023

Paula Meireles

Archive, Documentation and Information

Fundação para a Ciência e a Tecnologia

The Portuguese funding agency for science research and innovation



What is the purpose of this communication?

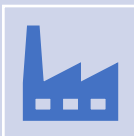
- Present an Archive that manages and provides unique information on Portuguese scientific activity.
- Also, to learn more about other projects and experiences.



A FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA / FONDATION FOR SCIENCE AND TECHNOLOGY



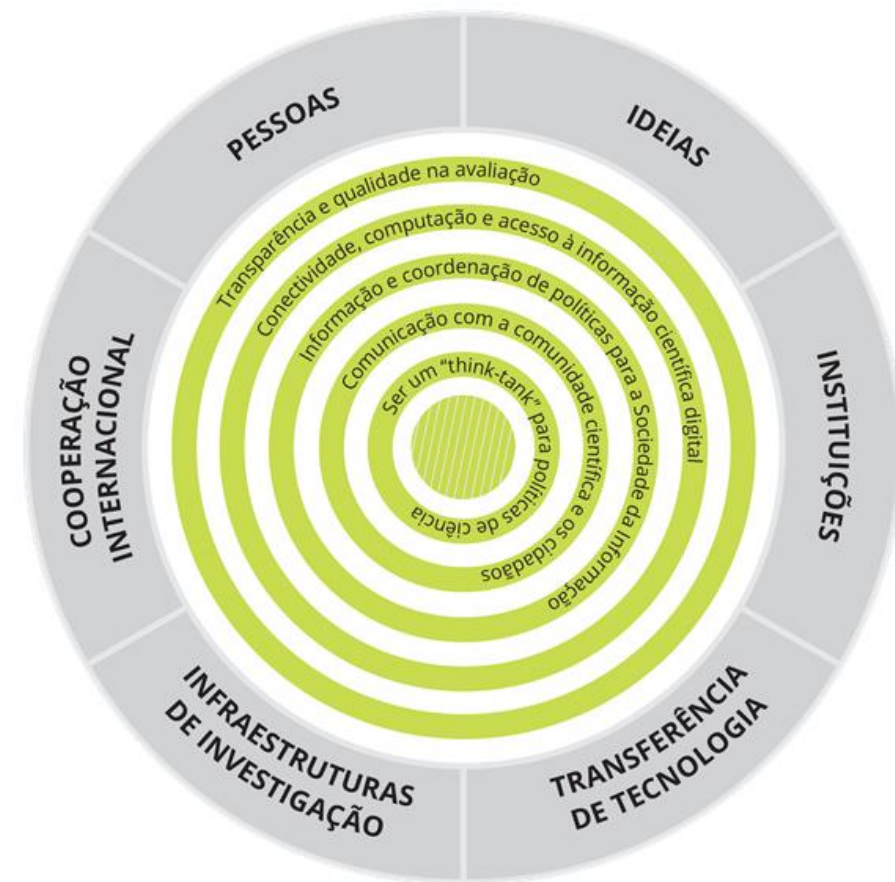
The Foundation for Science and Technology (FCT), created in 1997, is the Portuguese public agency to support science and research in all areas of knowledge



It succeeded the National Board of Scientific and Technological Research (JNICT), which operated between 1967 and 1997



Since 2013, it has also taken on responsibilities related to National Scientific Computing



The history of JNICT and FCT play an important role in the History of Science and Technology in Portugal

A FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA - VISION



Make Portugal an international reference in science, technology and innovation.

Ensure that the knowledge generated by scientific research is fully used for **economic development and the well-being of citizens**

A FUNDAÇÃO PARA A CIÊNCIA E A TECNOLOGIA - MISSION



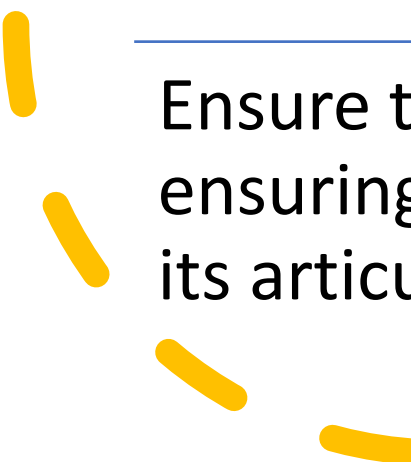
Promote the **breakthrough of scientific and technological knowledge** in Portugal

Achieve the **highest international standards** of quality and competitiveness in all scientific and technological fields

Stimulate dissemination and **contribution to Society**

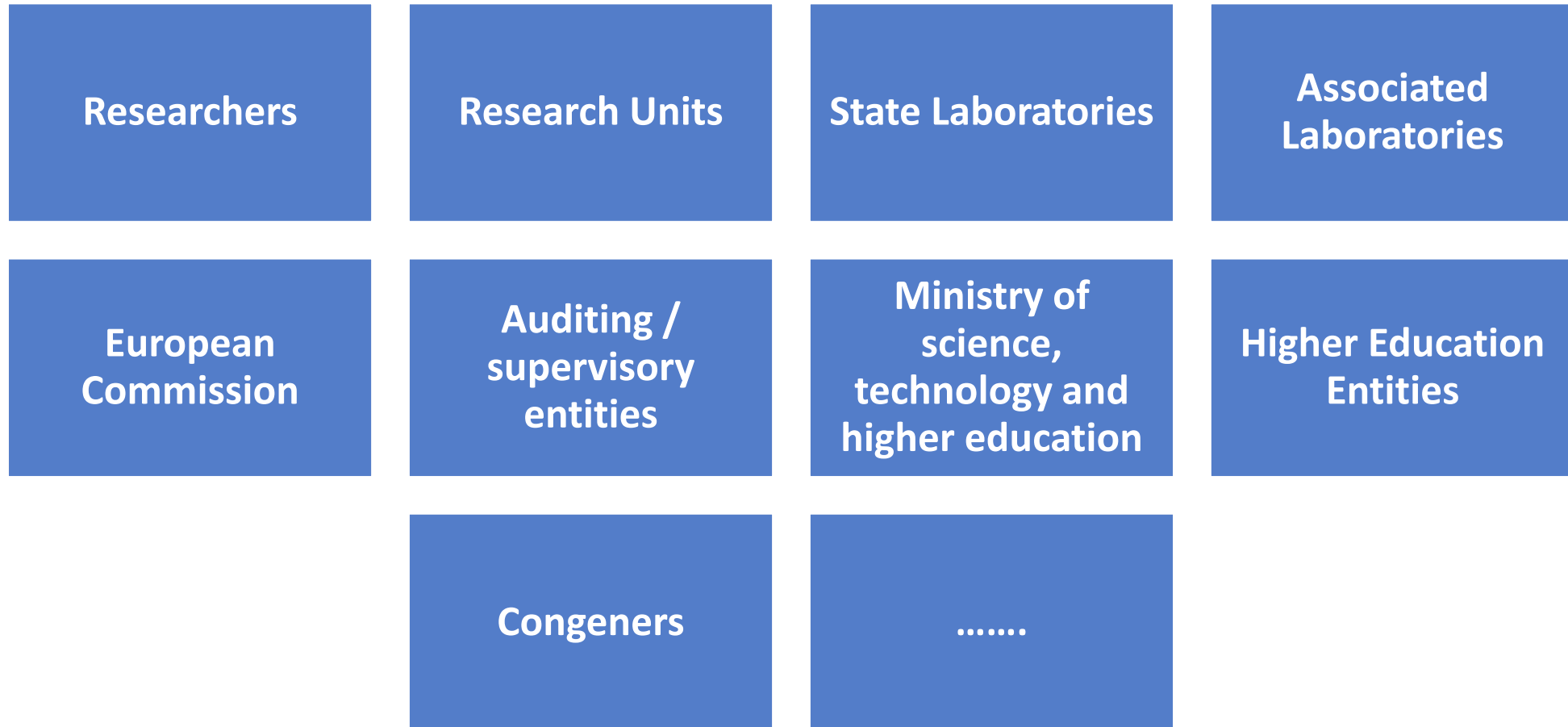
Launch calls for proposals, with peer review, for funding: grants and contracts, research projects, competitive research centers and research infrastructures

Ensure Portugal's **participation in international scientific projects and organizations**



Ensure the **development of national means of scientific computing**, ensuring technology, means and advanced services for research and its articulation in a network

With whom does FCT relates to?



1. Arquivo de Ciência e Tecnologia

Science and Technology Archive

ARQUIVO DE CIÊNCIA E TECNOLOGIA / SCIENCE AND TECHNOLOGY ARCHIVE

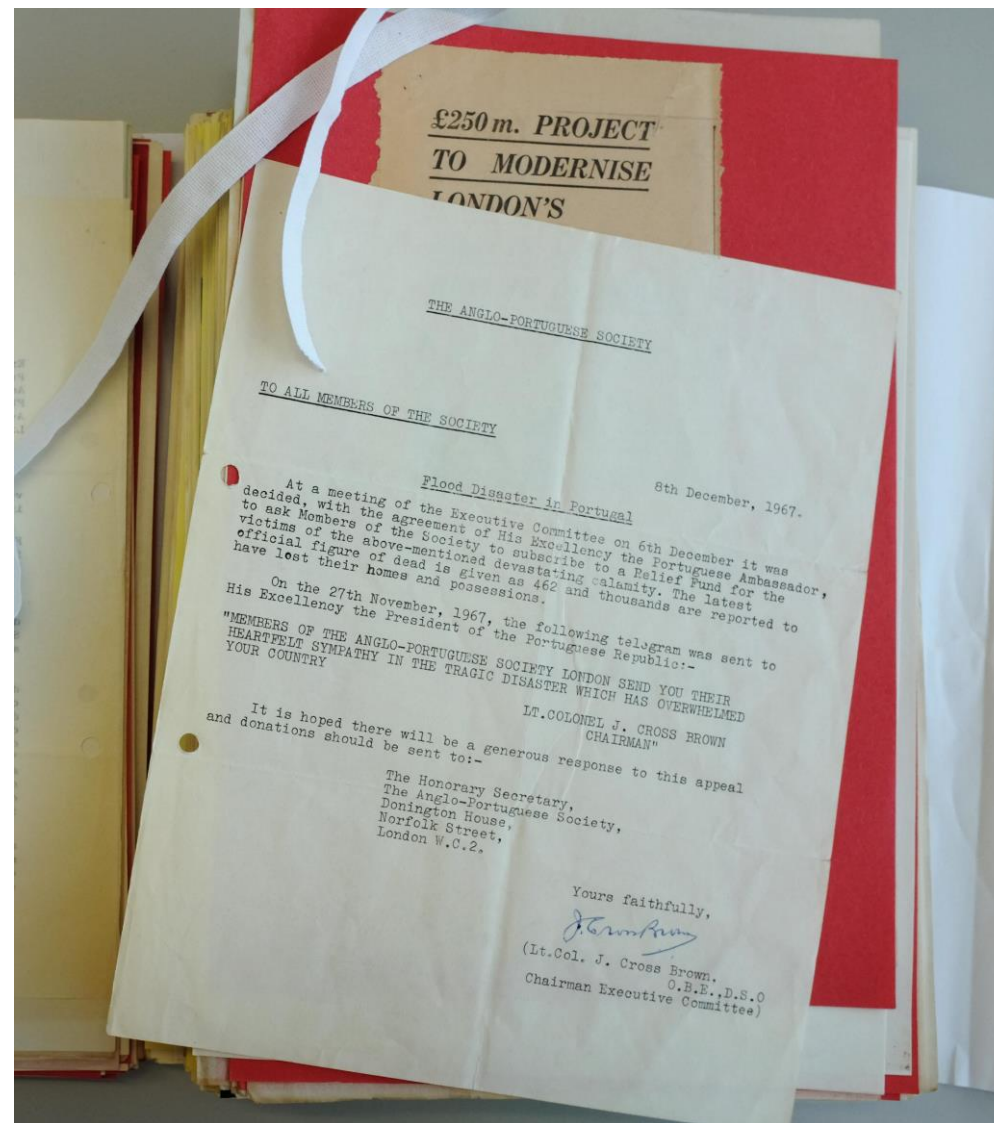


The Science and Technology Archive processes, preserves and promotes the archival heritage into the custody of FCT, keeping alive the **memory and history of science and technology in Portugal.**

In other words, it can be said that it preserves **the essence of the scientific activity carried out in Portugal.**

ARQUIVO DE CIÊNCIA E TECNOLOGIA / SCIENCE AND TECHNOLOGY ARCHIVE

- **Maintain and manages documentation** of undeniable interest and historical quality;
- Reflects Portuguese cultural and **scientific activity**, essentially from the second half of the 20th century onwards;
- The content is largely translated into **thousands of support files for grants, institutions, research projects**, among others;
- Documents that represent the **history of institutions, scientific policies and the organization of science**, with interest for all areas of knowledge;
- It has also been **integrating Archives of scientists and researchers** with relevant activity in national and international scientific scene.



Current content

- **11 institutional archives** – representative of safeguarding and promoting the memory of administrative management in support of science;
- **6 personal archives** of scientists and science-related figures;
- Scientific production translated into thousands of **theses, articles, publications, scientific reports...**;
- Manuscripts, press clippings, editions, **photographic collections**, drawings, periodicals and monographs ...;
- Scientific **Video Club**;
-

**Information of unique value for
the study of national scientific
activity**

ARQUIVO DE CIÊNCIA E TECNOLOGIA / SCIENCE AND TECHNOLOGY ARCHIVE

Content	
Archive of Nuclear Energy Board (1954-1979)	Cooperation with international organizations, visits to international congener entities and participation in international events regarding nuclear energy.
Archive of JNICT / FCT	Research grants, projects, institutions and scientific infrastructure and international cooperation.
Archive of the National Institute of Scientific Research (INIC) 1976-1992	Support for scientific institutions , processes and procedures scholarship holders scientific interchange (agreements, conventions, scientific and cultural bilateral and multilateral).
Archive of GRICES / ICCTI - International Scientific and Technological Cooperation	Multilateral cooperation (CERN, ESA, ESO, COST, CYTED, FHS, OECD, UNESCO) and bilateral cooperation (inter-institutional agreements).
Archive of PRAXIS XXI Management Office	Project financing and infrastructure.
Archive of the National Institute of Industrial Research (1959-1979)	Promote, assist and coordinate research and assistance” that are of interest “ to the improvement and industrial development of the Country.
Archive of the Agency for the Knowledge Society (UMIC) (2005-2012)	Coordination of public policies for the information and knowledge society.
Personal Archives	Documentation gathered from the activity of scientists / researchers. Ex. José Mariano Gago, responsible for creating the first ministry of Science and Technology, in 1995 , and also president of JNICT (1986-1989).

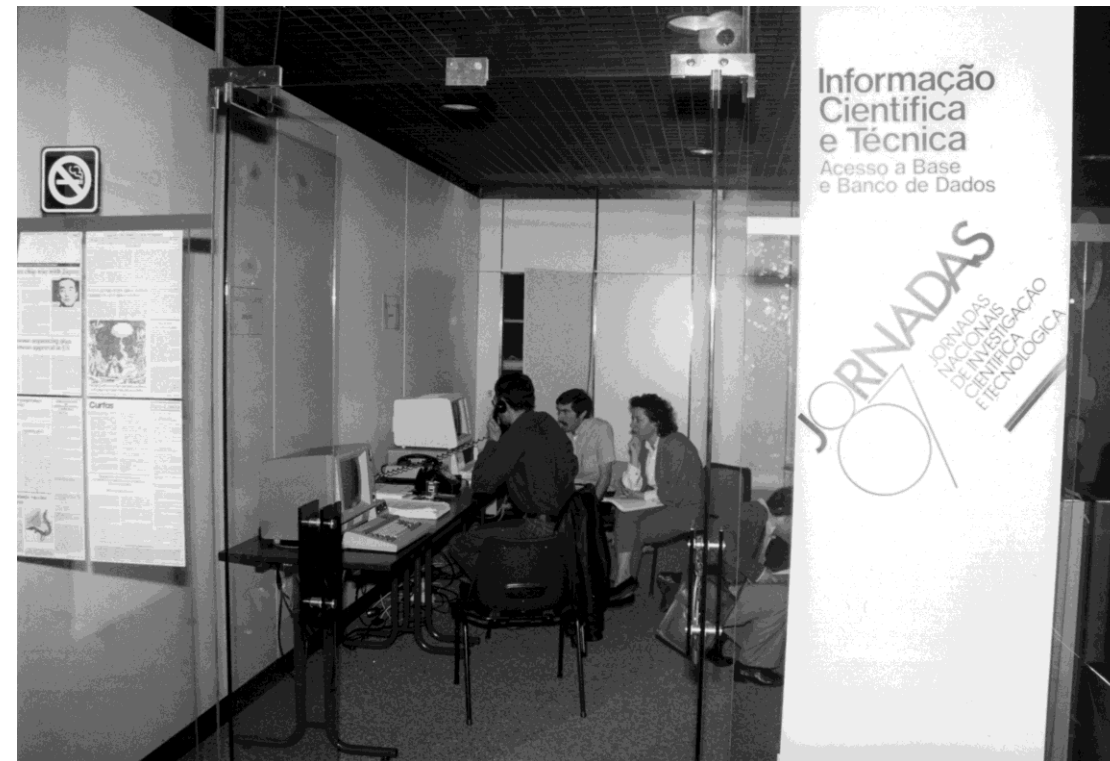


ARQUIVO DE CIÊNCIA E TECNOLOGIA



Other Projects

- Digitization and availability of the José Mariano Gago Archive. He was responsible for creating the first ministry of Science and Technology, in 1995, and also president of JNICT (1986-1989).
- Preservation and availability of the **Scientific Video Club collection** – around 400 VHS cassettes with scientific films.
- Treatment and availability of **photographic collections**:
 - . “Journeys JNICT 1987”
 - . “Science in Portugal” (1999-2002)
 - . Photographic material to support research



Archival inventory available at <http://arquivo.fct.pt>

- The inventory was created on a system that complies with **international requirements for archival description** and allows the **association of digital objects** and making them available online through the registration of association description.
- The **scanning and online availability** of documents is a goal that lies ahead in the near future as part of the activities of the **Science and Technology Archive**, for reasons of **accessibility and availability of information** but also for reasons of preservation.

The structure of the inventory is based on the international standards:

1. ISAD(G) – International Standard Archival Description
 2. EAD – Encoded Archival Description
 3. ISAAR (CPF) – International Standard Archival Authorities Records
 4. EAC - Encoded Archival Context
- The first two are intended to support the process of archival description. The others are designed to support the production of authority records.
 - In both cases encoded XML files were produced according to standard text structures in EAD and EAC and therefore allowing international exchange and dissemination.



O Arquivo de Ciência e Tecnologia tem por atribuição o tratamento, a preservação e a divulgação do património arquivístico à guarda da Fundação para a Ciência e a Tecnologia, e outros com interesse científico e histórico, contribuindo deste modo para a preservação da história e memória da ciência e da tecnologia em Portugal.

[Guia de fundos](#)

Descrição

ARQUIVO DE CIÊNCIA E TECNOLOGIA

- **Availability of the collection inventory** on the web
- **Digitization and availability** of small document set



Acervo Documental

O Arquivo de Ciência e Tecnologia (ACT) da Fundação para a Ciência e a Tecnologia disponibiliza um acervo documental relacionado com a promoção, o financiamento e o acompanhamento da investigação científica e tecnológica em Portugal, no século XX.

O ACT tem também integrado e disponibilizado arquivos de cientistas e investigadores e de outras personalidades ligadas à investigação científica, em Portugal.

O inventário disponibiliza a totalidade da documentação descrita até ao momento e é atualizado regularmente com novos registos de descrição. A documentação ainda não descrita pode também ser consultada, mediante pedido de pesquisa e de recolha de dados ao ACT.

[Arquivo da Junta de Energia Nuclear](#)

[Arquivo do Instituto Nacional de Investigação Industrial](#)

[Arquivo da Comissão INVOTAN](#)

[Arquivo da Comissão Cultural Luso-Americana – Comissão Fulbright](#)

[Arquivo da Junta Nacional de Investigação Científica e Tecnológica](#)

[Arquivo do Instituto Nacional de Investigação Científica](#)

[Arquivo do Gabinete de Gestão do PRAXIS XXI](#)

[Arquivo da Fundação para a Ciência e a Tecnologia](#)

[Arquivo do Instituto de Cooperação Científica e Tecnológica Internacional](#)

[Arquivo do Gabinete de Relações Internacionais da Ciência e do Ensino Superior](#)

[Arquivo da UMIC – Agência para a Sociedade do Conhecimento](#)

[Arquivo José Mariano Rebelo Pires Gago](#)

[Arquivo José Francisco David Ferreira](#)

[Arquivo Augusto Pires Celestino da Costa](#)

[Arquivo José Caetano Pinto Mendes Mourão](#)

[Arquivo Fernando Roldão Dias Agudo](#)

[Arquivo Diário de Lisboa Vida Científica Ciência](#)

[Fonds guide](#)



File plan ▾

- JNICT Arquivo da Junta Nacional de Investigação Científica e Tecnológica
- CFDCT Centro de Fornecimento de Documentação Científica e Tecnológica
- CPEEE Comissão Permanente de Estudos do Espaço Exterior 1961/1986
- CPO Comissão Permanente de Oceanologia 1979/1986
- DIR Direção 1961/2004
- DSGA Direção de Serviços de Gestão e Administração 1953/2004
- DSPP Direção de Serviços de Programas e Projectos 1970/2011

Arquivo da Junta Nacional de Investigação Científica e Tecnológica

Description level

Fonds

Reference code

PT/FCT/JNICT

Title type

Formal

Title

Arquivo da Junta Nacional de Investigação Científica e Tecnológica

Production dates

1953 ▾ to 2011 ▾

Dimension and support

Documentos textuais: papel A4, e outros formatos

Extents

348.94 Metros lineares

Holding entity

Available services

- Export record
- Search in descendants
- Search within this fonds/collections
- Add to my list

View in smartphone



Share



:: Arquivo de Ciência e Tecnologia

SEARCH INDEXES ARCHIVAL HOLDINGS MORE EN

← [Grid Icon] [Navigation Icon]

1 of 1 Automatic Zoom

1 2 3 4 5 6 7 8 9 10 11

Convite

O Presidente do Conselho Nacional do Ambiente e do Desenvolvimento Sustentável (CNAADS), Prof. Mário Ruiivo, e o Presidente do Conselho Económico e Social (CES), Dr. José Silva Lopes, têm a honra de convidar V. Ex.^a para participar numa Sessão de Apresentação Pública do Parecer Conjunto CNAADS-CES sobre Organismos Geneticamente Modificados que terá lugar, sob o alto patrocínio de S. Excelência o Senhor Dr. António de Almeida Santos, Presidente da Assembleia da República, na Sala do Senado da Assembleia da República, com início às 15 horas do dia 23 de Janeiro de 2001.

A apresentação do Parecer Conjunto elaborado e aprovado pelo CNAADS e pelo CES, com a colaboração de membros do CNECV, será realizada por:

- Doutora Luisa Schmidt (Coordenadora do Grupo de Trabalho Conjunto/CNAADS)
- Prof. Eng. Eugénio Menezes Sequeira (CNAADS)
- Prof. Doutor David Ferreira (CNECV)
- Enga. Sofia Mendonça (CES-DECO)
- Doutor Humberto Rosa (CNAADS)

Conselho Nacional de Educação; Conselho Nacional de Ética para as Ciências da Vida

Filename: 10574.pdf

ARQUIVO DE CIÊNCIA E TECNOLOGIA / SCIENCE AND TECHNOLOGY ARCHIVE

:: Arquivo de Ciência e Tecnologia

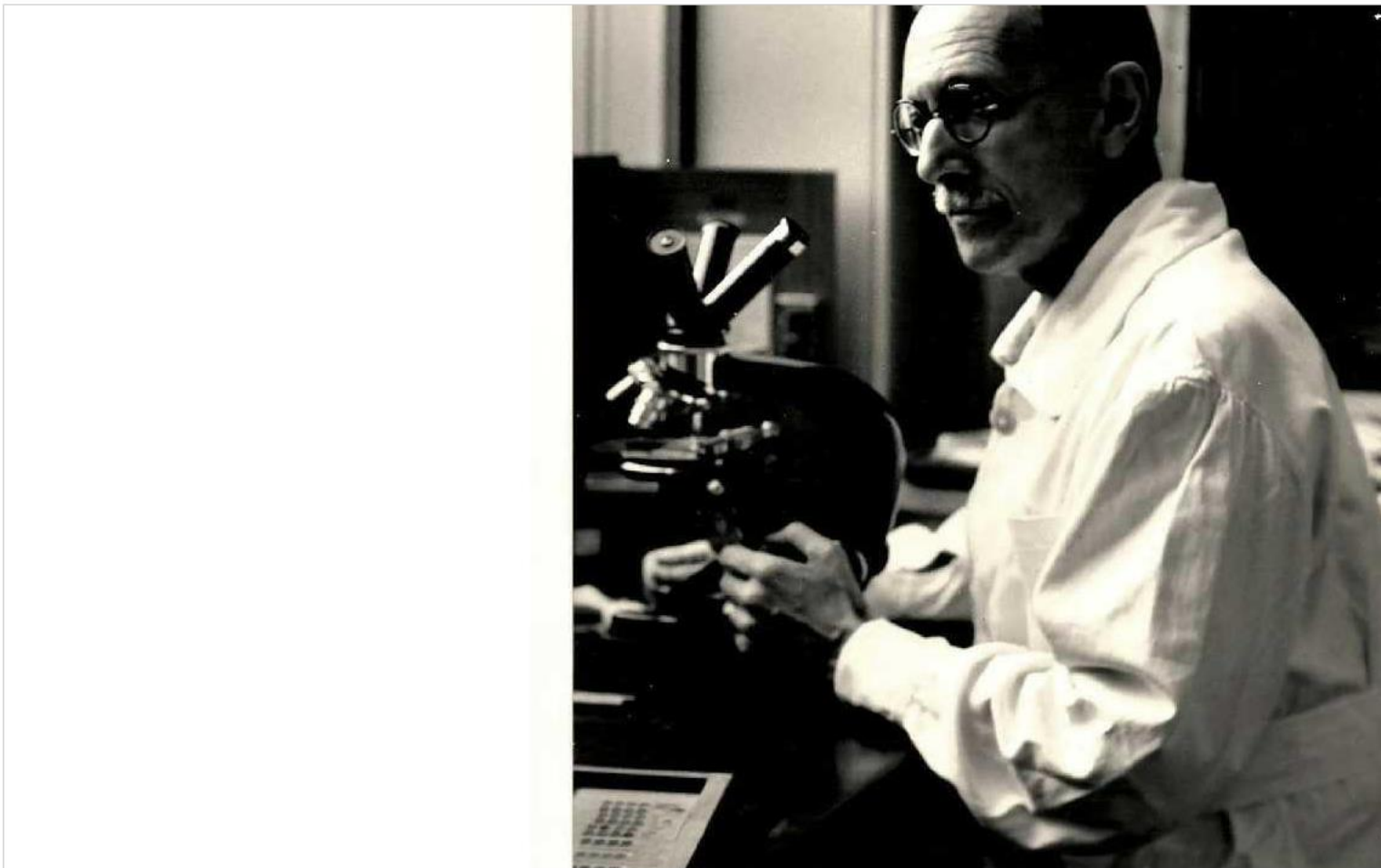


SEARCH

INDEXES

ARCHIVAL HOLDINGS

MORE



Arquivo Augusto Pires Celestino da Costa

Filename: Augusto Celestino da Costa 1944.jpg



The Archive, in terms of communication, is a primary source of information, which:

- Encourages the **study and knowledge of science** in Portugal as well as the entities that developed this activity;
- Provides **access to organized information**;
- Let's you **know the past to understand the present and plan for the future.**





**Building the Digital
Heritage...**

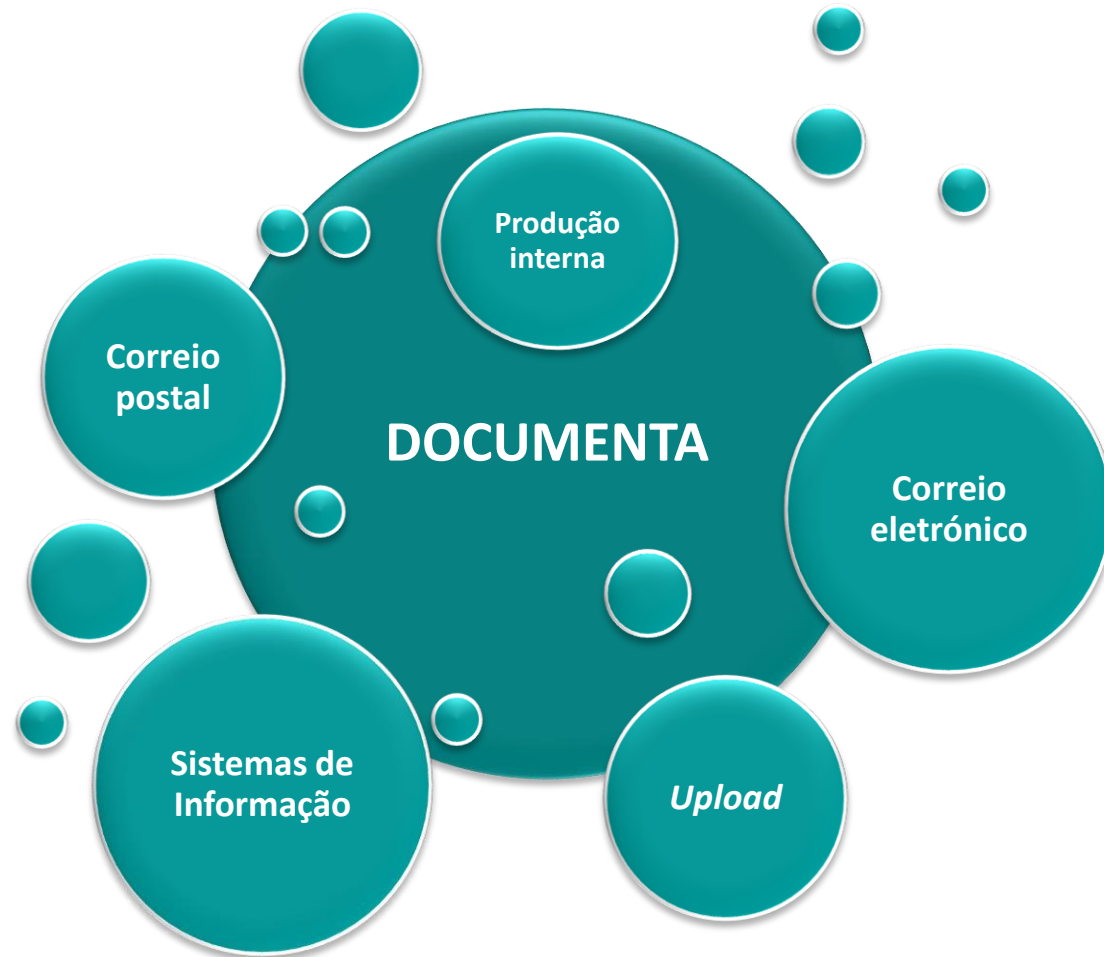
DOCUMENTA, the Electronic File Management System for FCT

Information system developed with the aim of managing and preserving the archival documents produced and received at the institution.

Main features:

- Document capture and registration
- In-house document production
- Circulation of documents
- Implementation of workflows
- Digital signature
- Document classification
- Document evaluation





Interoperability

MIP Model - Metadata for Interoperability

Functional requirements

Model MoReq

Classification

MEF - Functional Macrostructure

Evaluation

ASIA – Suprainstitutional Evaluation of Archival Information



FCT DIGITAL ARCHIVE...

... a repository of archival documents produced by FCT in different supports, received by different communication channels, within the scope of its activities, allowing access and retrieval of information.

The website of Science and Technology Archive

➤ www.act.fct.pt

The screenshot shows the homepage of the Science and Technology Archive website. At the top, there is a teal navigation bar with the following menu items: "Acervo documental", "Biblioteca", "História da Ciência", "ACTividades", and "Sobre o ACT". Below the navigation bar is the FCT logo, which stands for "Fundação para a Ciência e a Tecnologia" and "Arquivo de Ciência e Tecnologia". To the right of the logo is a teal button labeled "Pesquisa no inventário".

The main content area is titled "Acessos rápidos do ACT" and features four icons with corresponding labels: a book icon for "Biografias", an hourglass icon for "Cronologia", a document icon for "Artigos", and a key icon for "Registos de autoridade".

Below this section is a heading "Factos e Curiosidades..." followed by a paragraph: "Sabia que o Conselho Internacional de Arquivos já faz 75 anos?". The text continues: "O Conselho Internacional de Arquivos (CIA) foi instituído pela UNESCO a 9 de junho de 1948, há já 75 anos, mas a sua génese remonta a 1931 com a criação do Comité Permanente de Arquivos, pela Liga das Nações." Below the text is a link labeled "Continuar a ler".

At the bottom of the page, the heading "Destaques" is visible. The Windows taskbar is also visible at the very bottom of the screenshot, showing icons for various applications and the system tray with a temperature of 32°C and the word "Sol".

Main goals of the website:

- **Dissemination and communication** with all users, researchers and the general public;
- Information about **the contents** of the Science and Technology Archive;
- Technical and support **documents**;
- Some **research resources**: biographies, chronologies, other resources
- Information **about ACT** and what services it provides
- Information about **outreach activities**: conferences, meetings, articles, ...

Cronologia

1929

Breve história da política científica em Portugal



Junta de Educação Nacional

TimelineJS

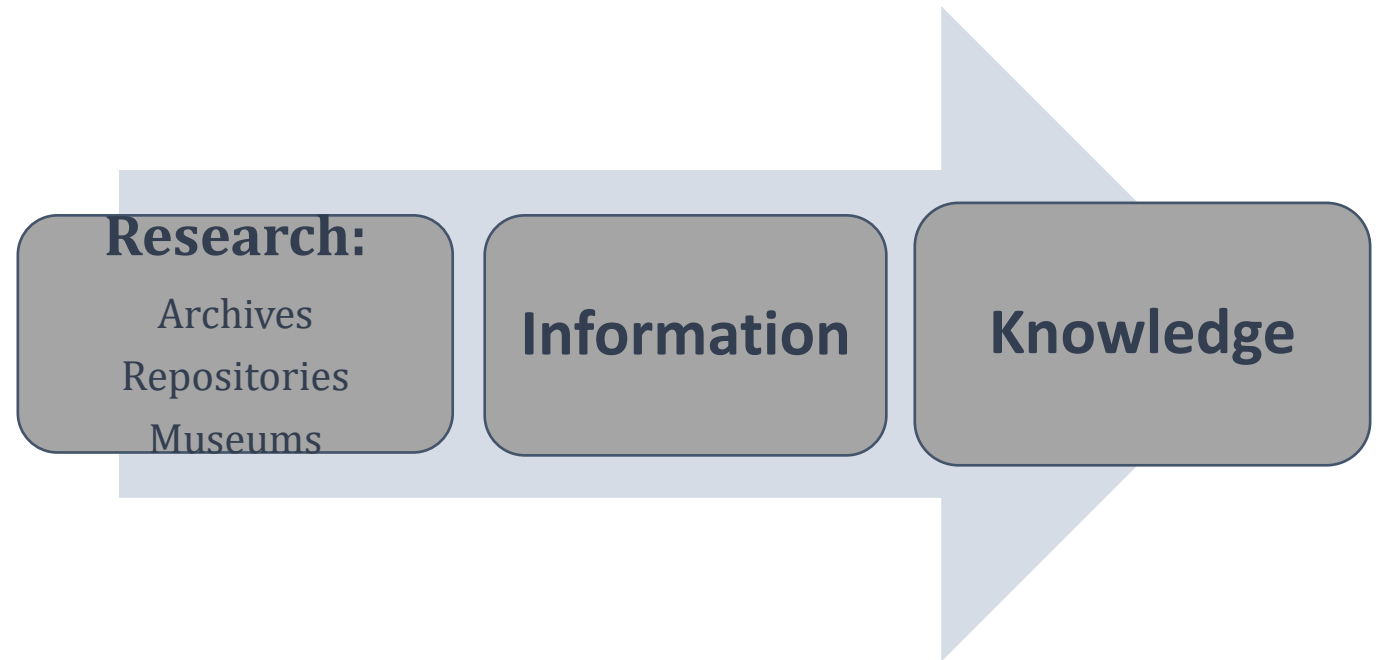
1913 1916 1919 1920 1923 1926 1929 1930 1933 1936 1939 1940 1943 1946 1949 1951

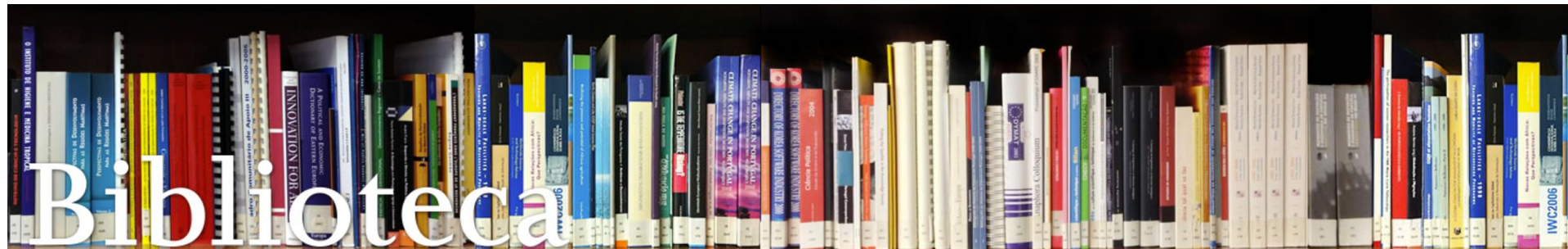
Breve histó... Criação da... +O... +P... Seminário... +A... V... Fu...
Junta de Edi... XIIIº Congres... Criação do IA... 114... A Física Qu... «Com... l... OI... C...
Iº Congres... No Po... Reforma do... PubI... IAC - Centros... Re... «Sol... F...
Fundação... IIIº Congres... Gazi... Nasce a Bib... «Sci... Lançar... Pré...

Main purpose of the Archive

Knowledge management, with regard to the national scientific production.

- Creating a standardized working basis;
- Providing indicators for decision support;
- Efficient retrieval of information;
- Access to different outputs of information.





FCT Fundação
para a Ciência
e a Tecnologia
Arquivo de Ciência e Tecnologia



Search on the library catalog

Genera ▾ Type search term All libraries ▾

[🏠](#) | [SIMPLE SEARCH](#) | [ADVANCED SEARCH](#)

Library of Fundação para a Ciência e a Tecnologia



FCT's library makes its holdings available for researchers interested in information resources essentially focused on the history of science and technology policies within a national and international context, in the XXth century.

The library collection features journals, monographs, books and various other publication types on management and policies of science and technology, institutional history and history of science and technology.

FCT's library holds as well a collection of editions published by the extinct National Institute of Scientific Research (INIC) and National Board of Scientific and Technological Research (JNICT). These books comprise a wide range of scientific fields and are also available for consultation.

FCT's library makes its holdings available for researchers interested in information resources essentially focused on the **history of science and technology policies within a national and international context, in the XXth century.**

BIBLIOTECA / LIBRARY

About 10,000 bibliographic records

Collections:

Fundação para a Ciência e a Tecnologia Library

David Ferreira Library – José Francisco David Ferreira Collection

Library David Ferreira – Augusto Pires Celestino da Costa Collection

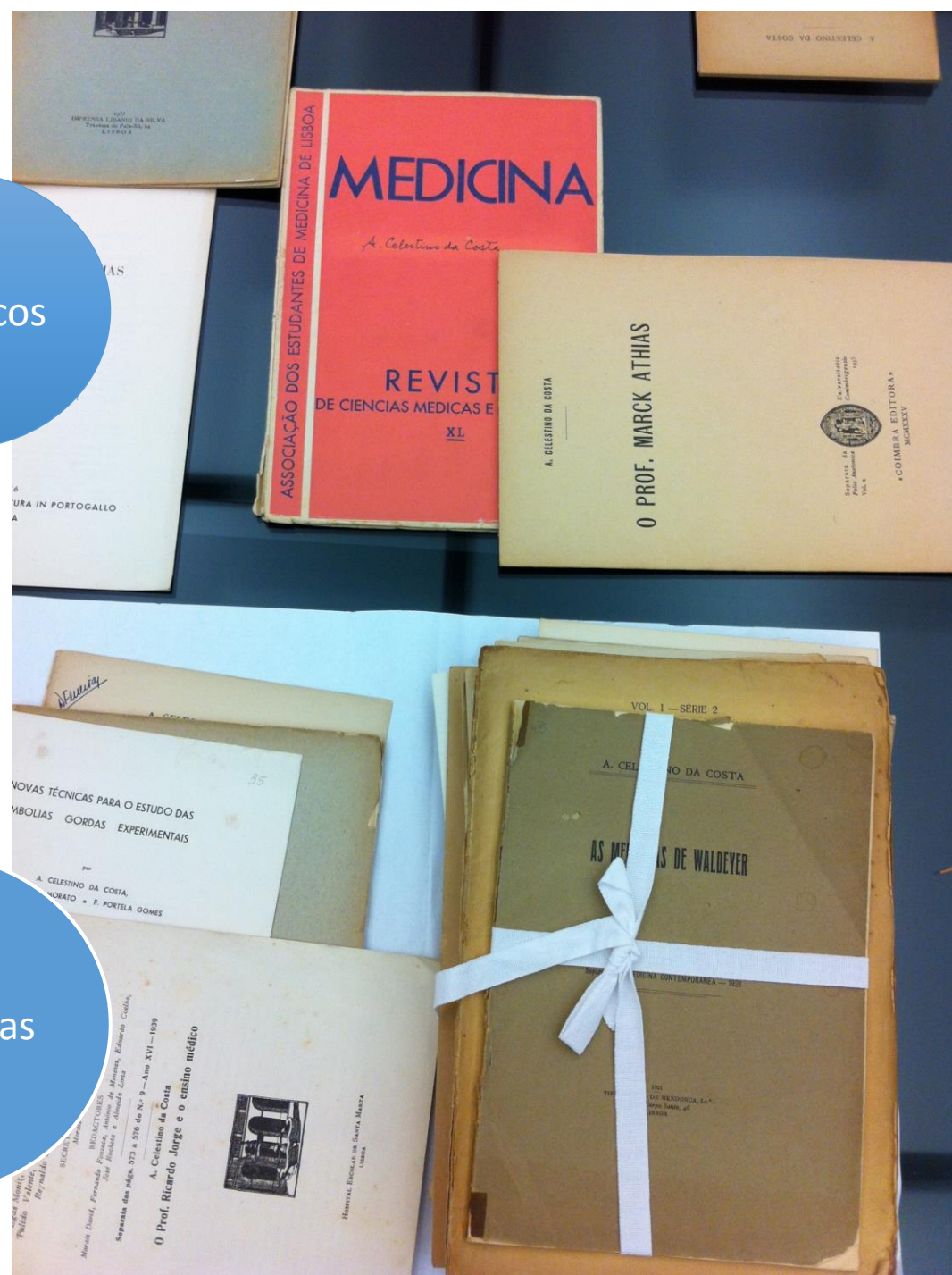
Luís Ernani Dias Amado Collection

Planos de Fomento Collection



Periódicos

Monografias



ARQUIVO DE CIÊNCIA E TECNOLOGIA / SCIENCE AND TECHNOLOGY ARCHIVE

Present and Future - Challenges

- Users of the Science and Technology Archive
- Access, Sharing, Reuse vs. Personal data protection
- Digital skills and beyond...
- Big Data vs. Data Curation
- Integrated search and query
- Digital Preservation
- Sustainability



CONTRIBUTE TO THE HISTORY AND
MEMORY OF SCIENCE IN PORTUGAL

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