



HORIZON-WIDERA-2024-ERA-01-03

Data-driven strategic research management in Erciyes University

(Nov-9-2023)

Assoc. Prof. Dr. Gökmen ZARARSIZ

Erciyes University Dean of Research

**ERA 2024 Knowledge Day
& Brokerage Event**

9th November 2023

Reforming and enhancing the EU research
and innovation system



NCP
WIDERA.NET

HORIZON
europe



Funded by
the European Union

9 November 2023
Brussels, Belgium

**Horizon Europe - ERA 2024
Knowledge Day and
Brokerage Event**



Erciyes University – General Information



42 research centers and 9 hospitals

ERU IN NUMBERS

1
College

7
Graduate Schools

2211
Academic Staff

498
Departments

51180
Students

1
Campus

19
Faculties

2
Vocational
Colleges

42
Research Centers

4742
Administrative
Staff

177
Student Clubs

% 48.93
Female Student
% 51.07
Male student



Nazende and Nuri Özkaya
Oncology Day Treatment Center



KANKA Pediatric Hematology
Oncology and Bone Marrow
Hospital



Gülser - Dr. Mustafa Gündoğdu
Comprehensive Service
Laboratory



Şahinur Dedeman Bone Marrow
Transplantation and Stem Cell
Treatment Center



Yılmaz - Mehmet ÖZTAŞKIN
Heart Hospital



Mehmet Kemal Dedeman
Hematology - Oncology Hospital



Mustafa Eraslan and Fevzi
Mercan Children's Hospital



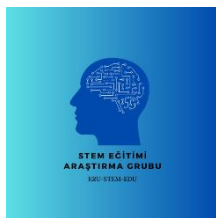
Semih Kibar Organ
Transplantation and Dialysis
Hospital



Gevher Nesibe Hospital



Erciyes University – Research Groups



SWADA

SPOKEN & WRITTEN
ACADEMIC DISCOURSE





Erciyes University – Erciyes Teknopark



Erciyes Teknopark



Temel Bilgiler

TGB1 156.382 m²
TGB2 94.168 m²
TGB3 109.250 m²
Total: 359.800 m² Açık Alan

TGB1 37.125 m² Kapalı Alan

242 Ar-Ge Firması
1347 Ar-Ge Personeli
1,2 Milyar TL Ar-Ge Ciro
50 M\$ Ar-Ge İhracatı



Bölgedeki Ana Sektörler

- Yazılım ve Bilişim Teknolojileri
- Elektronik Sistem Teknolojileri
- Biyoteknoloji ve Medikal Teknolojiler
- Savunma ve Havacılık Teknolojileri

Erciyes Teknopark A.Ş. Şirket Hisse Yapısı

82% Erciyes Üniversitesi
5 % Kayseri Ticaret Odası
5 % Kayseri Sanayi Odası
5 % Kayseri OSB
1 % Kayseri Üniversitesi
1 % Abdullah Gül Üniversitesi
1 % Nuh Naci Yazgan Üniversitesi

Gelişim Süreci, Diğer Hizmetler ve Planlar





Erciyes University

Office of the Dean for Research



Office of the Dean for Research was established in Dec 2022 to:

- ✓ determine the research strategies of Erciyes University,
- ✓ contribute to increasing the research capacity of the university,
- ✓ handle the performance management processes,
- ✓ manage the processes related to research universities and international ranking systems,
- ✓ pursue research goals,
- ✓ monitor and evaluate the research outputs,
- ✓ ensure the coordination of research activities,
- ✓ develop projects by analyzing the research data of Erciyes University



Research Management in Erciyes University



- Office of the Dean for Research
- Erciyes Teknopark
- Erciyes Technology Transfer Office
- Scientific Research Funding Office
- Scientific Research Support Office
- Institutional Data Management and Coordination Unit
- Intellectual Property Office
- Entrepreneurship office
- University-Industry Collaboration Office
- Industry Cooperation Development Office
- Data Analysis Support Office
- Editing Office
- Encouragement and Rewards Office



Research Management in Erciyes University



- ~80 experts actively work in this research management and support processes
- This expertise covers different areas (project support experts, project financial management experts, intellectual property rights experts, data management experts, etc.)
- We actively give and coordinate research training activities in specified areas (e.g. data management and analytics) to our experts
- There is also a strategic partnership and collaboration between the Erciyes University and Coursera



coursera



Research Management in Erciyes University



- The office of the Dean of Research data team supports planning and decision-making at Erciyes University by providing accurate and timely data. The team strives to help the university units understand how data can help them achieve their research goals by being creative and innovative. We wish to prepare a proposal for the call: **HORIZON-WIDERA-2024-ERA-01-03: Support for the professionalisation of research management.**
- We can provide contributions to research and complementary training program management, data-based research support, such as data stewards and data analysts, exploitation of research data, and data protection.



Data-Driven Strategic Research Management in Erciyes University



- In order to achieve effective management in research, as in any field, what is being managed must first be measured.
- Research measurement should be carried out in universities to set research goals and develop appropriate strategies.
- For this measurement to be accurate, objective, and complete, it is essential to adopt a data-based approach to research.
- This is where the **Institutional Data Management and Analytics Coordination Unit** within the Office of the Dean for Research comes in.
- The Coordination Office plays a very active role in effectively measuring and interpreting research data at Erciyes University and in helping senior management develop the right research strategies.



Data-Driven Strategic Research Management in Erciyes University



- The “**ERU Institutional Data Analytics System**” has been established within the Coordination Unit so that research data can be accurately and quickly collected, analyzed, and interpreted in detail.
- The database architecture used in this system is open-source and based on the research criteria used by national and international university ranking systems and the research target indicators of Erciyes University’s Strategic Plan.
- In this research database, data from online databases such as InCites, Scopus, Clarivate Analytics, and Espacenet, external data such as Turkish Patent and Trademark Office, TÜBİTAK, ARBİS, YÖK and internal data such as AVESİS, BAPSİS, Erciyes University Teknopark are included in relational tables.
- Analysis of this research data in the database is performed using open-source software such as R and Python, and analytical reports can be generated.



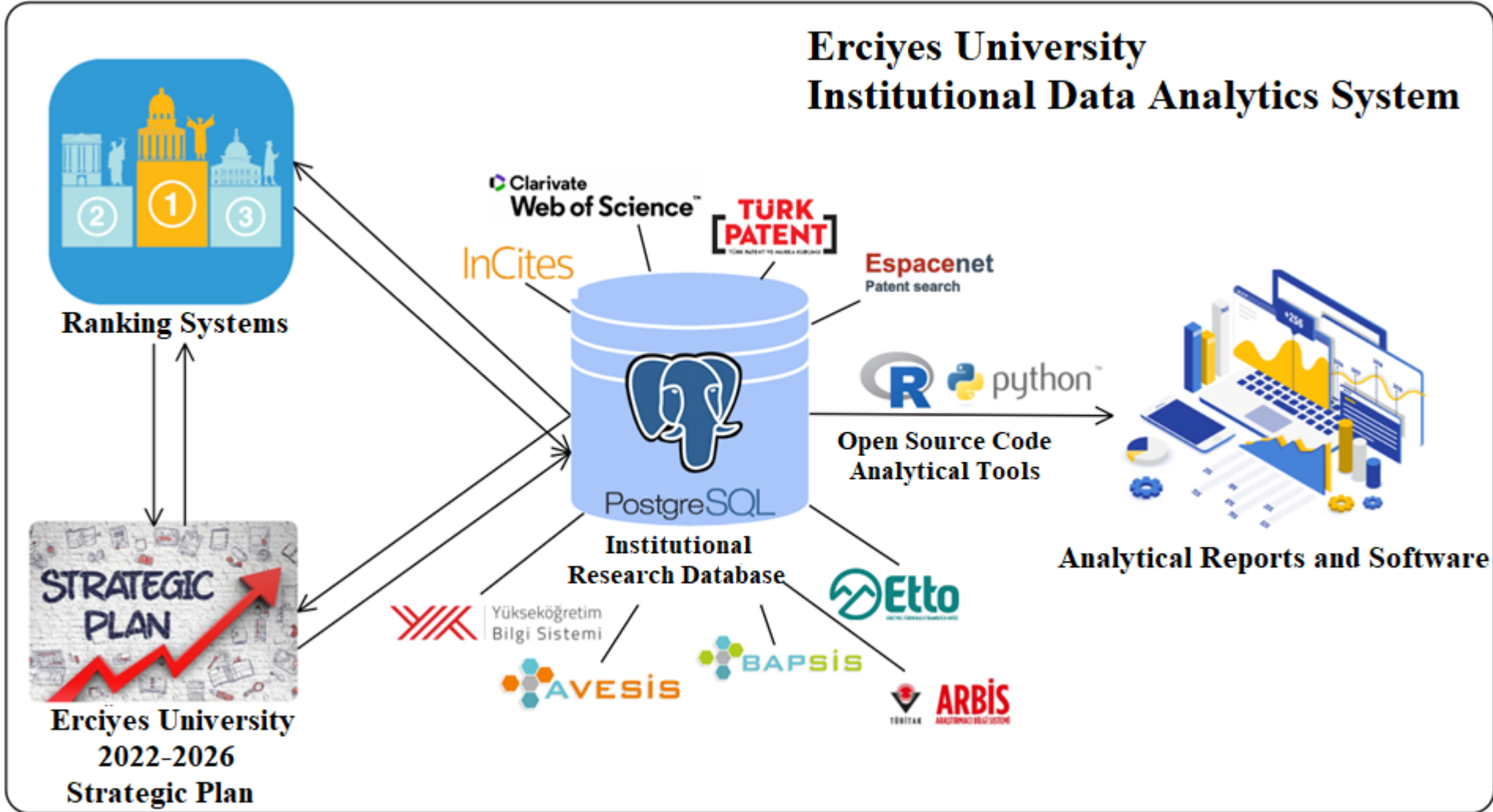
Data-Driven Strategic Research Management in Erciyes University



With the institutional data analytics system, we can;

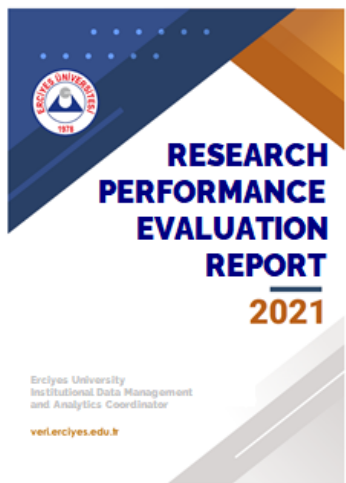
- ✓ send data to international rankings organizations (e.g. THE, QS, etc.)
- ✓ carry out R&D strategic plan monitoring and evaluation.
- ✓ analyze corporate data and follow the R&D progress of the University.
- ✓ manage research performance system and evaluate the performance of faculties, research center and researchers, obtain their annual targets, and share their strengths and weaknesses
- ✓ make the necessary training plans by the research offices in the areas where they are not strong
- ✓ determine focus groups and take action
- ✓ conduct bibliometric analysis, share information with researchers about trending research topics

Erciyes University Institutional Data Analytics System

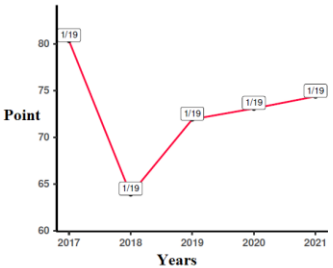




Erciyes University Research Performance Evaluation Reports

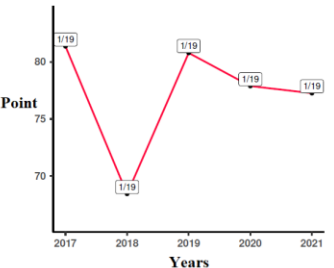


2.1. Research Performance Total Point



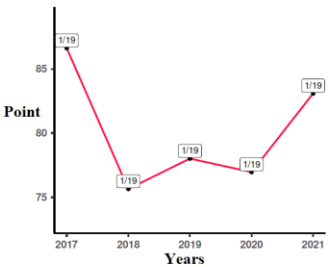
Üniversite Sıralaması
1 / 19
Alan Bazlı Sıralama
1 / 5

2.2. Research Capacity Point



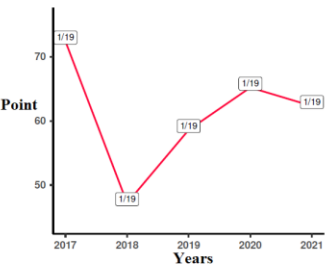
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2.3. Research Quality Point



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2.4. Research Collaboration Point



Üniversite Sıralaması
1 / 19
Alan Bazlı Sıralama
1 / 5

Total Point	Research Capacity
<ol style="list-style-type: none">1. Faculty of Engineering2. Faculty of Science3. Faculty of Medicine4. Faculty of Agriculture5. Faculty of Pharmacy	<ol style="list-style-type: none">1. Faculty of Engineering2. Faculty of Medicine3. Faculty of Science4. Faculty of Pharmacy5. Faculty of Agriculture
Research Quality	Research Collaboration
<ol style="list-style-type: none">1. Faculty of Engineering2. Faculty of Pharmacy3. Faculty of Science4. Faculty of Veterinary Medicine5. Faculty of Agriculture	<ol style="list-style-type: none">1. Faculty of Engineering2. Faculty of Science3. Faculty of Education4. Faculty of Medicine5. Faculty of Agriculture

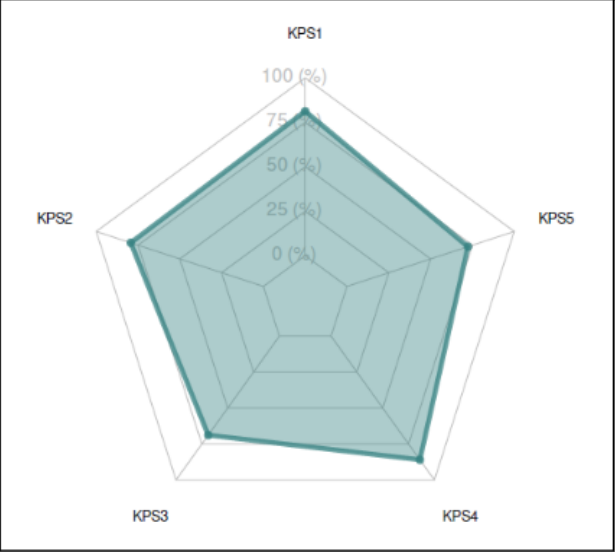


Erciyes University Research Performance Evaluation Reports



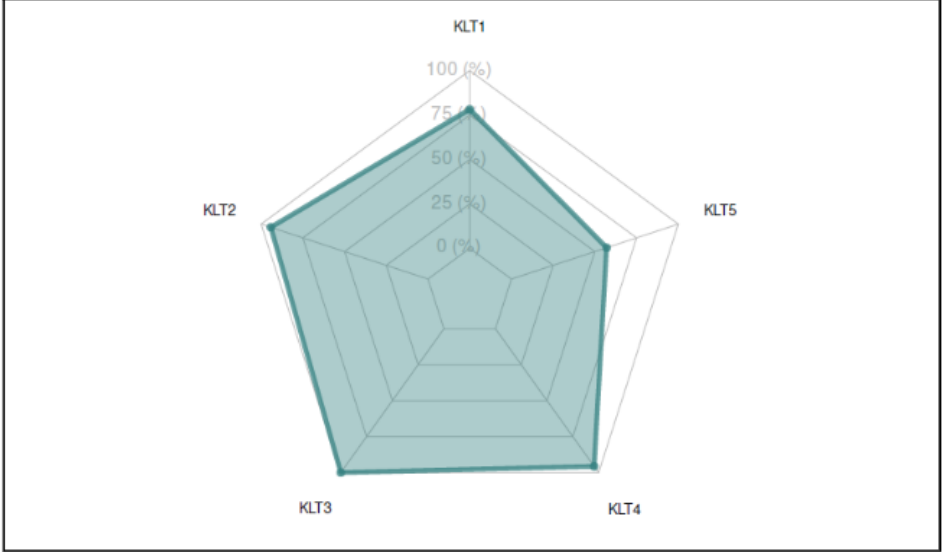
Research Capacity

- KPS1. Number of Scientific Publications
- KPS2. Number of Citations
- KPS3. Number of Scientific Projects and Fund Amount
- KPS4. Number of Licenced Patents
- KPS5. Number of Doctoral Students and Graduates



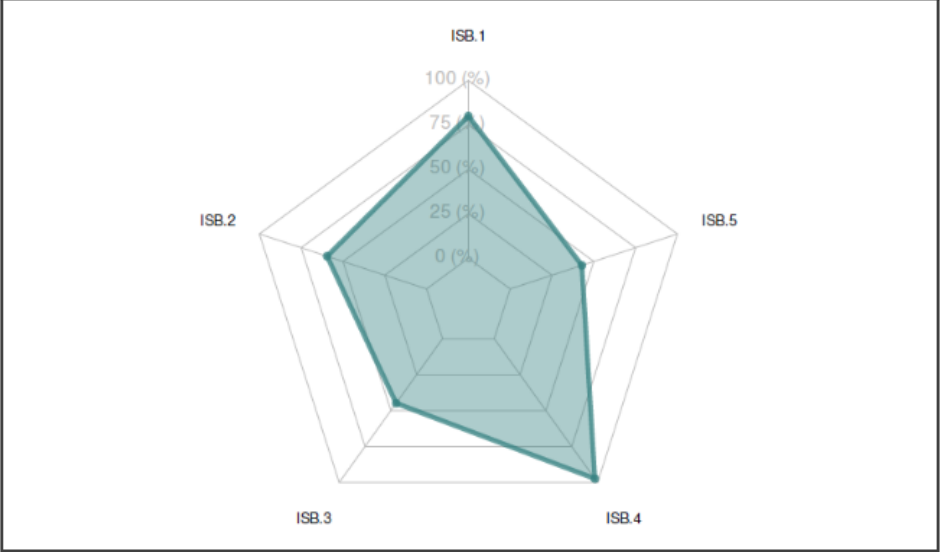
Research Quality

- KLT1. Qualified Scientific Publication Rate (InCites 50%, 10%)
- KLT2. Number of Doctoral and Post-Doctoral Scholarships
- KLT3. Number of Technopark Firms of Faculty Members, Students and Graduates
- KLT4. Number of Publications Produced from Thesis Projects
- KLT5. Open Access Percentage of Publications



Research Collaboration

- ISB1. University-University Collaborative Publication Rate
- ISB2. University-Industry Collaborative Publication Rate
- ISB3. International Collaborative Broadcast Rate
- ISB4. Number of International & Industry Collaborative Patents
- ISB5. International & Industry Collaborative Project Fund Amount





Support for the professionalisation of research management (HORIZON-WIDERA-2024-ERA-01-03)



Contribute to improve the European R&I system across the entire ERA
by strengthening the capacity for research management in EU's public
research performing and research funding organisations

Expected outcomes

- Involvement of a **large number of public RPOs and RFOs** and their research management staff in training and networking programmes for research managers;
- **Improved accessibility** to such programmes for research management staff from regions of lower R&I intensity;
- Improved training, skills and career development of research management staff in the participating organisations;
- Further **professionalisation**, such as through certification of training programmes;
- **Increased awareness and recognition** of the research management profession in Member States, and the important role of research managers across the ERA.

Call Opening: 6 Dec 2023

Call Closure: 12 Mar 2024

ERA Policy Agenda action no: 17

Type of Action: CSA

Budget: EUR 1.0 million

Indicative number of projects: 1

Expected duration: 2-5y



Support for the professionalisation of research management (HORIZON-WIDERA-2024-ERA-01-03)



Scope

- Aim: further develop and implement a methodology to identify, train and **'professionalise' individuals** who are essential support for the 'research enterprise'
 - Research management to be regarded as multi-dimensional.
- Develop **solutions to challenges** of research management:
 - Need for practice exchange between early career & experienced research managers;
 - Need for continuous upskilling, EU-level research management learning and training;
 - Need to increase recognition of the profession and careers;
 - Uneven distribution of research management capacity across the ERA.
- In particular, develop or consolidate:
 - Support for flexible and diverse research management **careers**;
 - Sustainable EU-level **training programmes**, virtual and/or physical;
 - A road to certification or accreditation, thereby improve **awareness and recognition**;
 - **Accessibility** to initiatives for staff from entities from lower R&I intensity.



Support for the professionalisation of research management (HORIZON-WIDERA-2024-ERA-01-03)



Expected
impact

Proposals for topics under this Destination should set out a credible pathway to contributing to the following expected impacts, focusing on those that are most relevant to the respective topics:

- Reform and enhance of the European R&I system;
- Prioritisation of investments and reforms, accomplish the recovery and the twin transitions;
- Improved access to excellence;
- High-quality scientific production and stronger translation of R&I results into the economy;
- Deepen the ERA;
- Coordinated national and regional R&I programmes by pooling national resources and contributing to the alignment of national research and innovation policies;
- Improved knowledge for policy making about the networking patterns of research support staff and research management;
- Synergies between research & innovation and higher education policies and programmes;



Support for the professionalisation of research management (HORIZON-WIDERA-2024-ERA-01-03)



Expected
impact

- Modernised higher education sector, addressing higher education, research, and innovation;
- Increased number of interconnected knowledge ecosystems, strong in knowledge creation, circulation, and use;
- Researchers benefitting from attractive careers;
- Inclusive gender equality is promoted in the European research and innovation system;
- A more open and inclusive research and innovation system;
- Increased capacity in the EU R&I system to conduct open science and to set it as a modus operandi of modern science;
- Increased engagement of citizens with research and innovation;
- Increased alignment of strategic research with societal needs, expectations, and values;



Erciyes Üniversitesi Office of the Dean for Research



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