

**HE Higher Education Ranking 2025  
RANKING REPORT OF:**

**National Transport University**

#HEHigherEducationRanking  
<https://ranking.heranking.com/2025>  
info@ranking.heranking.com

## Certificate of Ranking

This certificate is awarded to

[National Transport University]

For being ranked (79<sup>th</sup>) in HE Higher Education  
Ranking, 2025 edition.

We acknowledge the outstanding commitment and excellence demonstrated by your university in maintaining a high standard of education and research, and for contributing towards the advancement of knowledge and innovation.

The ranking is accessible via the following link:

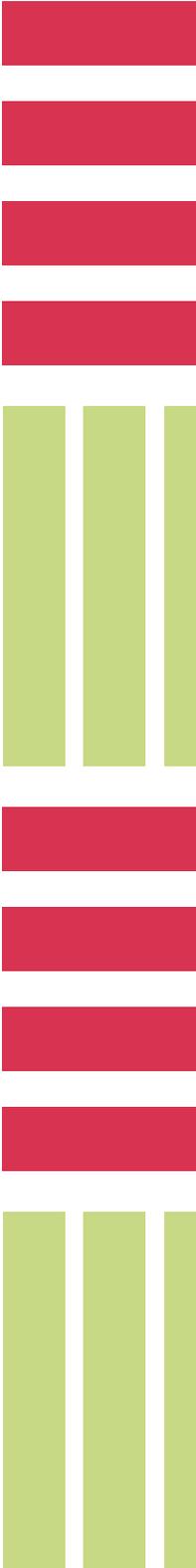
<https://ranking.heranking.com/2025/ntu.edu.ua>



# HE Higher Education Ranking, 2025 Edition

Ranking Report for:

**National Transport University**



## University Profile:

Name of the university: **National Transport University**

Country: **Ukraine**

Website: **<https://www.ntu.edu.ua>**

Overall Ranking: **79th/422**

Overall points for the ranking: **6964**

**Description:** The National Transport University is a higher education institution with an IV level of accreditation in Kyiv, Ukraine. The main building is located in the capital and major reconstructed building of the former Kyiv-Pechersk Gymnasium.



# Analysis of Data:

- 1<sup>st</sup> Criteria: Research

Allocated points by the university: 612 points

Maximum points for the criteria: 900 points

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- 2<sup>nd</sup> Criteria: Internationalization

Allocated points by the university: 280 points

Maximum points for the criteria: 700 points

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- 3<sup>rd</sup> Criteria: Teaching

Allocated points by the university: 490 points

Maximum points for the criteria: 800 points

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- 4<sup>th</sup> Criteria: Student Success, and Graduation

Allocated points by the university: 336 points

Maximum points for the criteria: 500 points

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- 5<sup>th</sup> Criteria: Faculty & Staff

Allocated points by the university: 309 points

Maximum points for the criteria: 600 points

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- 6<sup>th</sup> Criteria: Funding, Finance, and Grants

Allocated points by the university: 146 points

Maximum points for the criteria: 300 points

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- 7<sup>th</sup> Criteria: Facilities & Resources, and management

Allocated points by the university: 168 points

Maximum points for the criteria: 300 points

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- 8<sup>th</sup> Criteria: Social, and Cultural Impact of the University

Allocated points by the university: 294 points

Maximum points for the criteria: 400 points

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- 9<sup>th</sup> Criteria: Quality Assurance, Accreditation, and Networking

Allocated points by the university: 356 points

Maximum points for the criteria: 600 points

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- 10<sup>th</sup> Criteria: Equity, equality, Diversity, and inclusion

Allocated points by the university: **368 points**

Maximum points for the criteria: **400 points**

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- 11<sup>th</sup> Criteria: Foreign Language, and Linguistic Impact

Allocated points by the university: **114 points**

Maximum points for the criteria: **400 points**

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- 12<sup>th</sup> Criteria: UN SDGs, and 2030 Agenda

Allocated points by the university: **84 points**

Maximum points for the criteria: **200 points**

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- 13<sup>th</sup> Criteria: Labor Market

Allocated points by the university: **331 points**

Maximum points for the criteria: **400 points**

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- 14<sup>th</sup> Criteria: Recreation, support, and entertainment

Allocated points by the university: **110 points**

Maximum points for the criteria: **300 points**

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- 15<sup>th</sup> Criteria: IT, and computer equipment

Allocated points by the university: **210 points**

Maximum points for the criteria: **300 points**

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- 16<sup>th</sup> Criteria: Lifelong learning

Allocated points by the university: **500 points**

Maximum points for the criteria: **500 points**

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- 17<sup>th</sup> Criteria: Data Management

Allocated points by the university: **300 points**

Maximum points for the criteria: **300 points**

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- 18<sup>th</sup> Criteria: Admissions & Enrollments

Allocated points by the university: **295 points**

Maximum points for the criteria: **400 points**

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- 19<sup>th</sup> Criteria: Media

Allocated points by the university: 300 points

Maximum points for the criteria: 300 points

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- 20<sup>th</sup> Criteria: Academic Freedom

Allocated points by the university: 200 points

Maximum points for the criteria: 200 points

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- 21<sup>st</sup> Criteria: Support of distance learning

Allocated points by the university: 300 points

Maximum points for the criteria: 300 points

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- 22<sup>nd</sup> Criteria: Innovation and creativity

Allocated points by the university: 300 points

Maximum points for the criteria: 200 points

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- 23<sup>rd</sup> Criteria: Sustainability and management

Allocated points by the university: 200 points

Maximum points for the criteria: 200 points

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- 24<sup>th</sup> Criteria: Academic Transparency

Allocated points by the university: 200 points

Maximum points for the criteria: 200 points

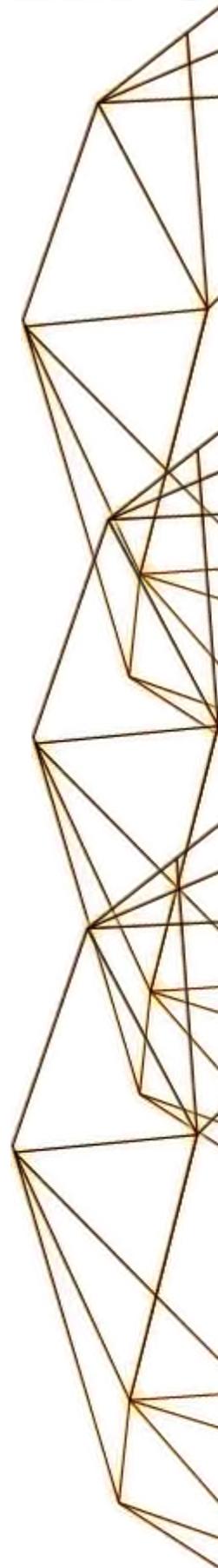
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- 25<sup>th</sup> Criteria: Futuristic Concept of the University

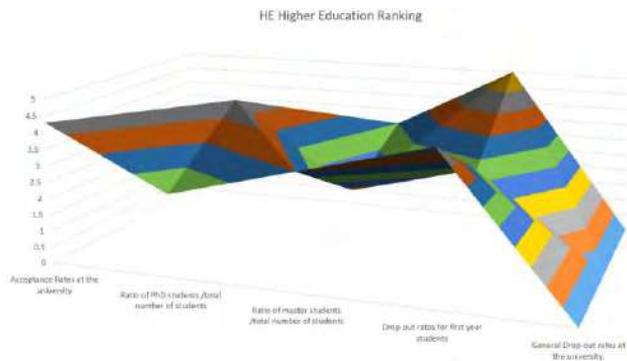
Allocated points by the university: 161 points

Maximum points for the criteria: 200 points

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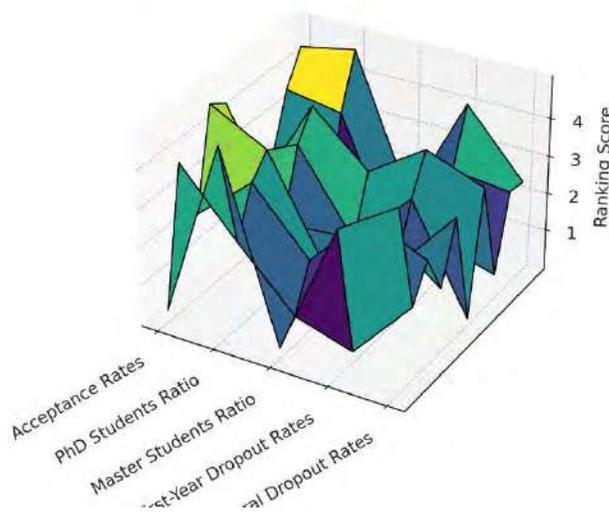
## About HE Higher Education Ranking:



The HE Higher Education Ranking Project is a scientifically grounded, academically rigorous, and research-driven ranking institution designed to assess higher education institutions worldwide. Unlike traditional ranking systems that primarily emphasize prestige and historical reputation, this

ranking focuses on dynamic, real-world performance indicators that drive institutional improvement and impact. The HE Higher Education Ranking does not merely classify universities; it empowers them. By assessing performance across teaching quality, research excellence, governance, sustainability, social responsibility, and innovation, the ranking provides universities with valuable insights into their strengths and areas for improvement.

HE Higher Education Ranking - 3D Surface Visualization



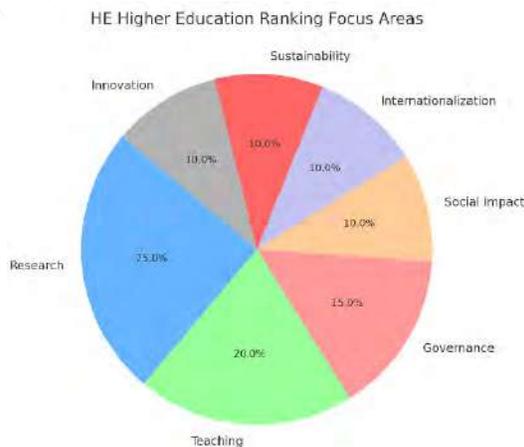
Rather than reinforcing rigid hierarchies in higher education, this ranking encourages continuous development, adaptation, and long-term institutional excellence. Through an inclusive, global, and future-focused methodology, HE Higher Education Ranking serves as both a benchmark for institutional success and a blueprint for meaningful progress in higher education worldwide.

## What Makes This Ranking Unique?

The HE Higher Education Ranking is built on the principles of:

- ✓ Academic Transparency & Freedom – Promoting unrestricted access to knowledge, research, and institutional data.

✓ **Data-Driven Assessment** – Measuring universities through 25 comprehensive criteria and 138 performance indicators, ensuring an objective and actionable evaluation.



✓ **Social & Scientific Impact** – Highlighting universities' contributions to cultural, social, and economic development, beyond just research output.

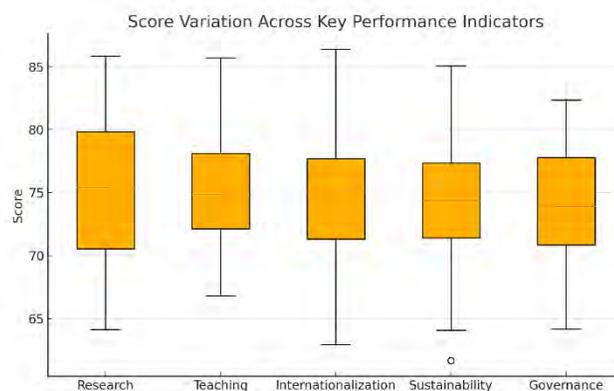
✓ **Equity & Inclusivity** – Supporting diverse, inclusive higher education models and eliminating barriers to access.

✓ **Institutional Growth & Improvement** – Providing universities with clear, data-backed roadmaps for enhancing performance across

teaching, research, governance, and innovation.

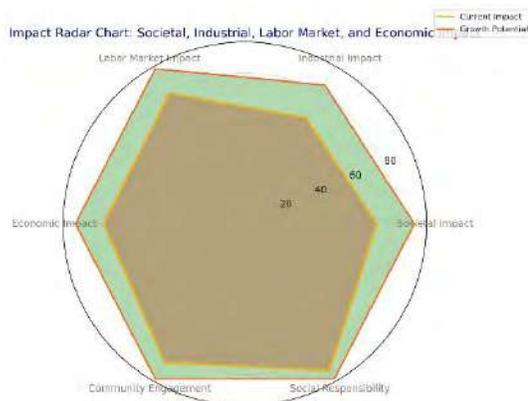
## Our Approach

At HE Higher Education Ranking, our approach is centered on a transformative vision to elevate higher education institutions worldwide. Unlike traditional rankings that focus primarily on reputation, we emphasize real, fair, and equitable Key Performance Indicators (KPIs) that offer actionable insights for institutional growth and long-term development. Our ranking methodology ensures that universities are evaluated through a transparent, impartial, and dynamic framework designed to improve institutional operations, expand access to higher education, support internationalization, enhance scientific research, and align academic outcomes with labor market needs. We believe that higher education should be inclusive, innovative, and responsive to societal and economic challenges. By analyzing performance across 25 key criteria and 138 indicators, we enable universities to enhance their teaching strategies, improve governance models, and foster student success. Our approach supports academic transparency and freedom, ensuring that institutions operate in an environment that encourages open access to information and data, collaboration, and global mobility.



Beyond measuring institutional performance, the ranking is designed to drive meaningful change. Universities are evaluated not only on their research and teaching excellence but also on their cultural, social, and scientific impact. The ranking recognizes institutions that actively contribute to societal development, promote social justice and eliminate barriers to equity and inclusion in higher education. By encouraging universities to align with global best practices, we empower

them to bridge the gap between education and the labor market, ensuring that graduates are equipped with future-ready skills. Through a commitment to fairness, transparency, and



innovation, HE Higher Education Ranking is more than just a classification system; it is a strategic tool for universities to measure progress, refine their policies, and enhance their global standing. By offering a structured path to continuous improvement, we enable institutions to adapt, evolve, and make a lasting impact on higher education worldwide. The ranking approach is based on supporting academic transparency and freedom, access to information and data,

achieving the cultural, social, and scientific impact of higher education institutions, promoting social justice, and eliminating all forms of discrimination and injustice in higher education institutions.

## The 2025 Questionnaire: A More Comprehensive and Data-Driven Approach

For the 2025 edition of the HE Higher Education Ranking, we have significantly enhanced our questionnaire to ensure a more detailed, data-rich, and insightful assessment of participating universities. Recognizing the need for greater precision in evaluating institutional performance, we have refined and expanded the questionnaire to collect richer and more specific data. This ensures that universities receive customized insights tailored to their unique contexts, allowing for a more accurate evaluation of their strengths, challenges, and opportunities for improvement.

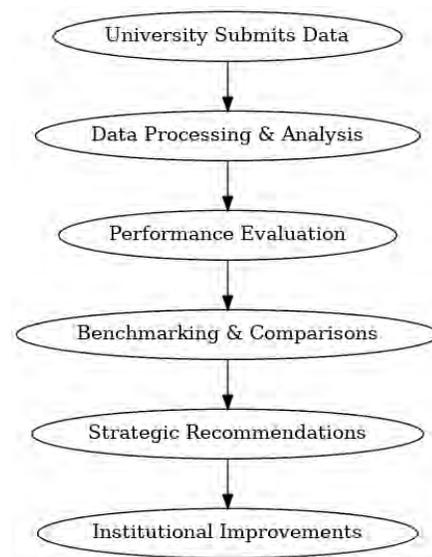


The updated questionnaire is designed to provide institutions with a clearer understanding of their development areas, equipping them with data-driven recommendations for strategic enhancement. By delving deeper into key performance areas such as research output, teaching effectiveness, student experience, governance,

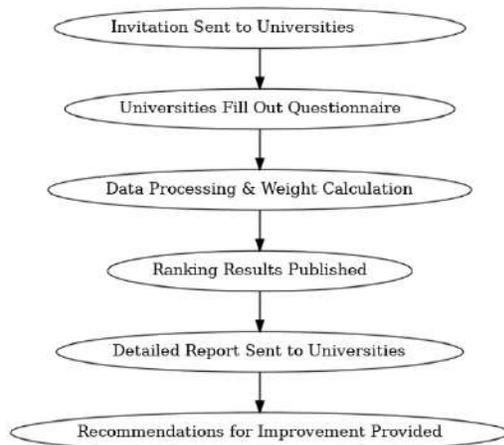
internationalization, and societal impact, we ensure that the ranking offers a more holistic and meaningful perspective on university performance. The additional depth in the

questionnaire allows for a more nuanced analysis, enabling institutions to identify areas of excellence and pinpoint specific opportunities for growth.

This new approach ensures that the data universities submit is not only used for ranking purposes but also serves as a roadmap for institutional enhancement. With a greater level of detail and specificity, universities can leverage their ranking data to improve key aspects of their operations, refine their academic strategies, and strengthen their global engagement. The HE Higher Education Ranking is committed to helping institutions maximize their potential, and the improvements in the 2025 questionnaire reflect this dedication. By making the questionnaire more comprehensive, we aim to provide universities with more precise feedback, detailed benchmarking reports, and practical recommendations that can support their continuous improvement. Universities that engage fully with the new questionnaire will benefit from a more targeted and strategic evaluation, empowering them to take proactive steps toward excellence in the global academic landscape.



## Methodology



HE Higher Education Ranking is built upon a rigorous, data-driven methodology designed to enhance the operational effectiveness of higher education institutions worldwide. The ranking evaluates universities based on a set of carefully selected Key Performance Indicators (KPIs), each aligned with broader criteria that reflect the overall quality, performance, and impact of an institution. By employing a transparent and structured approach, the ranking provides universities with valuable insights into their strengths and areas for improvement, fostering

continuous institutional growth and excellence.

**The Mechanism for inclusion of higher education institutions to the ranking:**

Each year, in November, higher education institutions are invited to participate in the ranking. Universities are given a specific timeframe to complete the comprehensive questionnaire, which collects detailed information on multiple dimensions of institutional performance. Once the submission period closes, the responses are analyzed, and the results are computed based on the assigned weight of each criterion. This ensures a balanced and fair assessment that considers both qualitative and quantitative indicators. Following the publication of the ranking results, each participating institution receives a personalized, detailed performance report. This report not only presents a breakdown of scores across all evaluated criteria and performance indicators but also includes tailored recommendations for strategic improvement. By leveraging these insights, universities can refine their policies, enhance their academic and research strategies, and take informed steps to elevate their global standing in subsequent ranking editions. The HE Higher Education Ranking is more than just an evaluative framework; it is a strategic tool for institutional advancement, ensuring that universities are equipped with the necessary data, feedback, and guidance to achieve sustainable growth and long-term excellence.

No.	Criteria	Value percentage
1	Research	9%
2	Internationalization	7%
3	Teaching	8%
4	Student Success, and Graduation	5%
5	Faculty & Staff	6%
6	Funding, Finance, and Grants	3%
7	Facilities & Resources, and management	3%
8	Social, and Cultural Impact of the University	4%
9	Quality Assurance, Accreditation, and Networking	6%
10	Equity, equality, Diversity, and inclusion	4%
11	Foreign Language, and Linguistic Impact	4%
12	UN SDGs, and 2030 Agenda.	2%
13	Labor Market	4%
14	Recreation, support, and entertainment	3%
15	Information Technology, and computer equipment	3%
16	Lifelong learning	5%
17	Data Management	3%
18	Admissions & Enrollments	4%
19	Media	3%
20	Academic Freedom	2%
21	Support of distance learning	3%
22	Innovation and creativity	3%
23	Sustainability and management	2%
24	Academic Transparency	2%
25	Futuristic Concept of the University	2%

## Structure of the criteria and Main Branches

HE Higher Education Ranking adopts a **comprehensive and holistic approach** to ranking higher education universities, firmly committed to enhancing their overall performance across multiple dimensions.

### Branch 1: Research: (22%)

- Research: 9%
- Quality Assurance, Accreditation, and Networking: 6%
- Innovation and Creativity: 3%
- Sustainability and Management: 2%
- UN SDGs and 2030 Agenda: 2%

### Branch 2: Internationalization (21%)

- Internationalization: 7%
- Faculty & Staff: 6%
- Academic Freedom: 2%
- Foreign Language and Linguistic Impact: 4%
- Academic Transparency: 2%

### Branch 3: Teaching (20%)

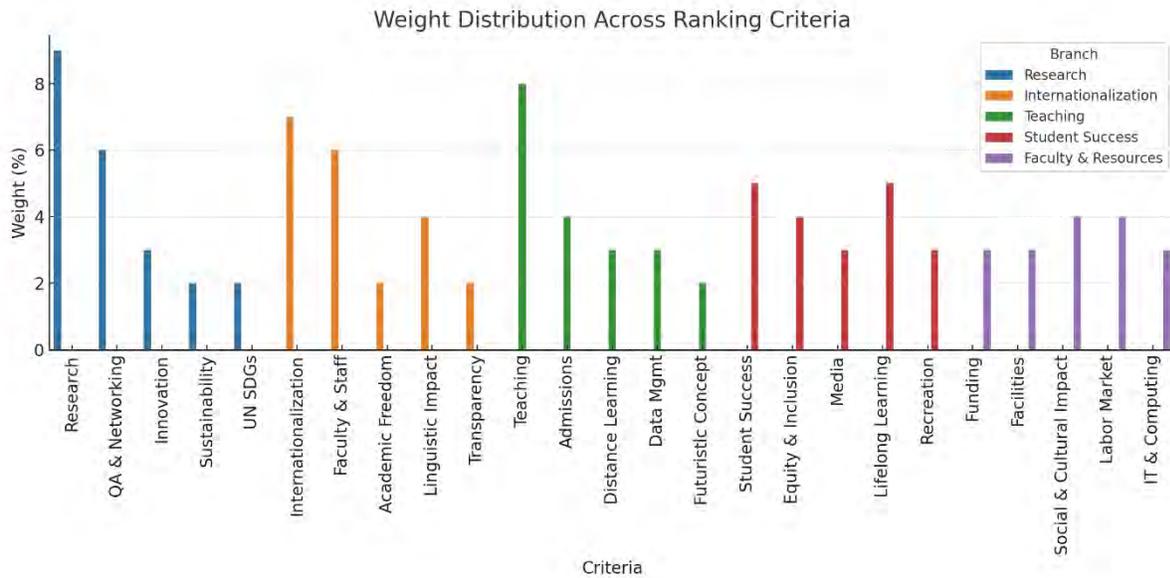
- Teaching: 8%
- Admissions & Enrollments: 4%
- Support of Distance Learning: 3%
- Data Management: 3%
- Futuristic Concept of the University: 2%

### Branch 4: Student Success and Graduation (20%)

- Student Success and Graduation: 5%
- Equity, Equality, Diversity, and Inclusion: 4%
- Media: 3%
- Lifelong Learning: 5%
- Recreation, Support, and Entertainment: 3%

### Branch 5: Faculty & Resources Management (17%)

- Funding, Finance, and Grants: 3%
- Facilities & Resources and Management: 3%
- Social and Cultural Impact of the University: 4%
- Labor Market: 4%
- Information Technology and Computer Equipment: 3%

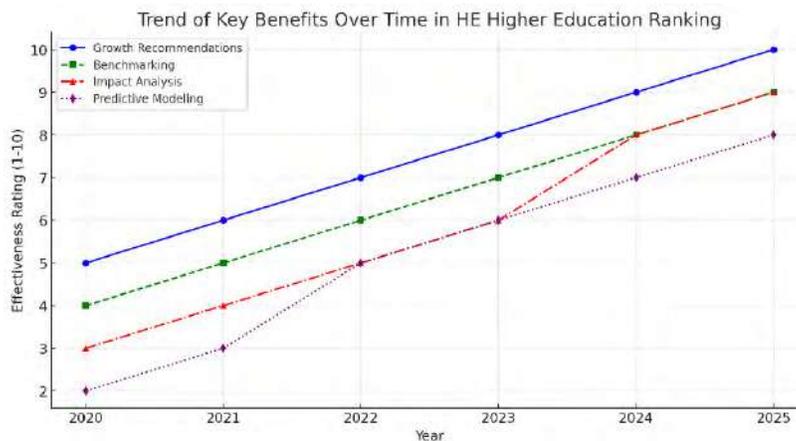


## Why Universities Should Join HE Higher Education Ranking?

Higher education rankings are essential for evaluating and enhancing universities' performance on a global scale. By participating in a HE Higher Education Ranking, institutions gain critical insights into their academic, research, and societal impact, leading to continuous development and strategic growth. Rankings provide universities with benchmarking tools to measure their competitiveness, governance, and overall contributions to education and society.

### The Importance of University Rankings:

1. **Performance Measurement:** HE Higher Education Ranking assesses universities annually using clear and specific Key Performance Indicators (KPIs), helping institutions improve in scientific, research, and social domains.
2. **Global Academic Competitiveness:** HE Higher Education Ranking provides a structured comparison of universities worldwide, helping institutions strengthen their international standing.
3. **Cultural and Social Impact:** It reflects the influence of universities on their local communities, highlighting community initiatives and global contributions.



4. **Equity and Inclusion:** HE Higher Education Ranking emphasizes the role of universities in promoting social justice, human rights, and equality, ensuring fairness regardless of race, gender, or background.

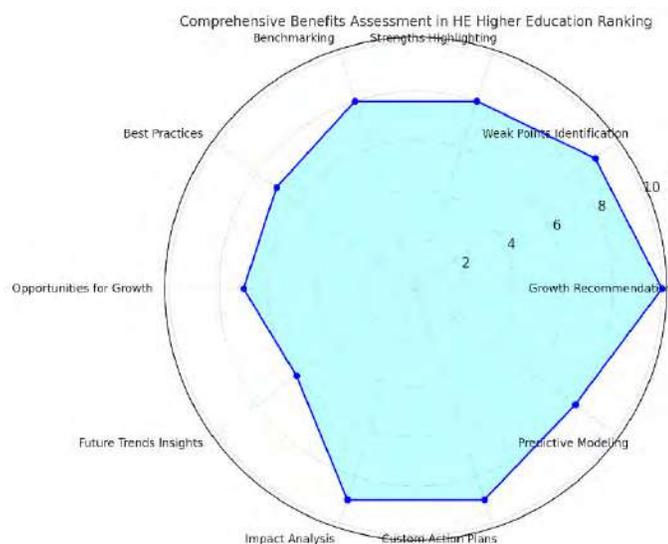
5. **Labor Market Influence:** It helps assess universities' contributions to workforce development, job creation, and graduate employability.
6. **Transparency and Academic Freedom:** HE Higher Education Ranking highlights institutions' commitment to transparency, governance, and academic independence.
7. **Social Sustainability:** It provides a measure of universities' sustainability efforts and social responsibility.
8. **Parental and Student Guidance:** HE Higher Education Ranking allows parents and students to compare institutions and make informed educational choices.
9. **Quality of Student Experience:** It offers insights into the facilities, resources, and student support services available at universities.

10. **Alignment with Global Standards:** HE Higher Education Ranking measures universities' compliance with international standards, such as the United Nations' Sustainable Development Goals (SDGs).
11. **Governance Evaluation:** Institutions can use HE Higher Education Ranking to assess and enhance their governance structures.
12. **Impact on Policy and Decision-Making:** Governments and policymakers use HE Higher Education Ranking data to gauge universities' local, regional, and global influence.
13. **Financial Oversight:** HE Higher Education Ranking helps funding agencies understand universities' financial governance, spending mechanisms, and scholarship distributions.
14. **Stakeholder Insights:** Universities' social, industrial, and regional roles can be better understood through HE Higher Education Ranking data.

### Comprehensive Benefits of Participation

By joining the HE Higher Education Ranking, universities receive a detailed institutional report that includes:

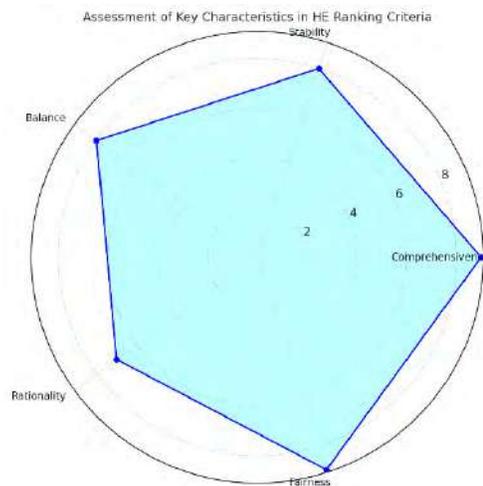
1. **Recommendations for Growth and Excellence:** Actionable strategies to enhance institutional performance.
2. **Identification of Weak Points:** Analysis of areas needing improvement.
3. **Highlighting Strengths:** Recognition of key areas of excellence.
4. **Comparative Benchmarking:** Insights on how the institution compares regionally, within the same discipline, and globally.
5. **Best Practices:** Strategies from top-performing institutions to inspire improvement.
6. **Opportunities for Growth:** Identification of untapped areas for development.
7. **Future Trends and Insights:** Foresight on trends that universities can leverage.
8. **Impact Analysis:** Overview of the university's contributions to society, industry, and the labor market.
9. **Custom Action Plans:** A roadmap for sustainable institutional growth.
10. **Predictive Modeling:** Data-driven insights for optimizing university operations and strategic planning.



## Characteristics of the Criteria and Performance Indicators in the Ranking:

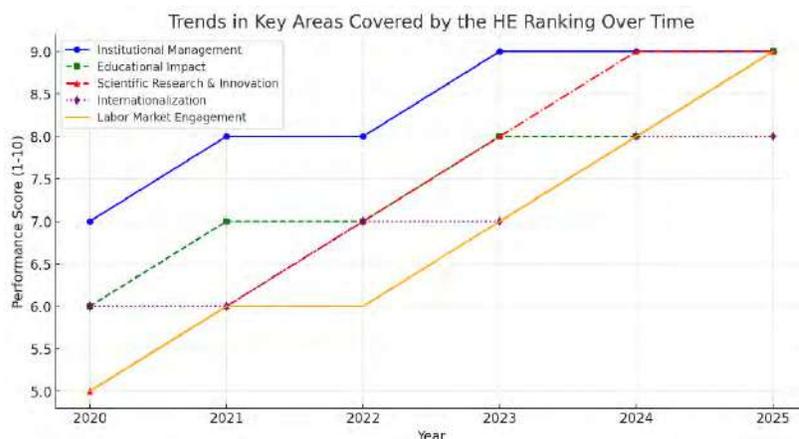
The ranking system is designed with a robust framework that ensures credibility, reliability, and fairness. The key attributes of its criteria and performance indicators include:

- 1- **Comprehensiveness** – The ranking covers all critical aspects of higher education, providing a holistic evaluation of institutions across academic, research, and societal dimensions.
- 2- **Stability** – The methodology is structured to ensure consistent and reliable results, minimizing anomalies or fluctuations in performance measurements.
- 3- **Balance** – Each criterion is carefully weighted to reflect a fair and realistic assessment, promoting meaningful and equitable improvements in higher education institutions.
- 4- **Rationality** – The standards are practical and attainable, ensuring institutions can work towards achieving them without unrealistic expectations.
- 5- **Fairness** – The ranking system is designed to be impartial and universally applicable, allowing institutions from diverse regions and backgrounds to participate under equitable conditions.



## General Areas Covered by the Ranking?

The ranking evaluates institutions based on their performance across multiple key domains, ensuring a comprehensive assessment of higher education excellence. These areas include:



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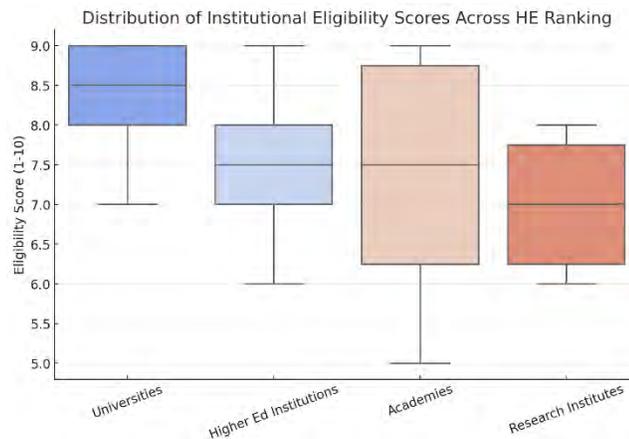
1. **Higher Education Institutional Management** – Governance, leadership, and operational effectiveness.
2. **Educational Impact** – Quality, accessibility,

- and outcomes of the teaching and learning process.
3. **Scientific Research & Innovation** – Research output, funding, citations, and innovation contributions.
  4. **Internationalization** – Global partnerships, exchange programs, and international student engagement.
  5. **University-Society & Labor Market Engagement** – Industry collaborations, employability rates, and community impact.

## What are the higher education institutions that are eligible to be included in the ranking?

The ranking is open to institutions that meet specific academic and research criteria. The following types of institutions are eligible for inclusion:

1. **Universities** – Public and private higher education institutions offering degree programs.
2. **Higher Education Institutions** – Colleges and institutions providing tertiary education.
3. **Academies & Research-Based Educational Institutions** – Institutions focused on advanced academic and research programs.
4. **Scientific Research Institutes** – Organizations dedicated to research and knowledge advancement in various fields.



## Institutions Not Eligible for Inclusion

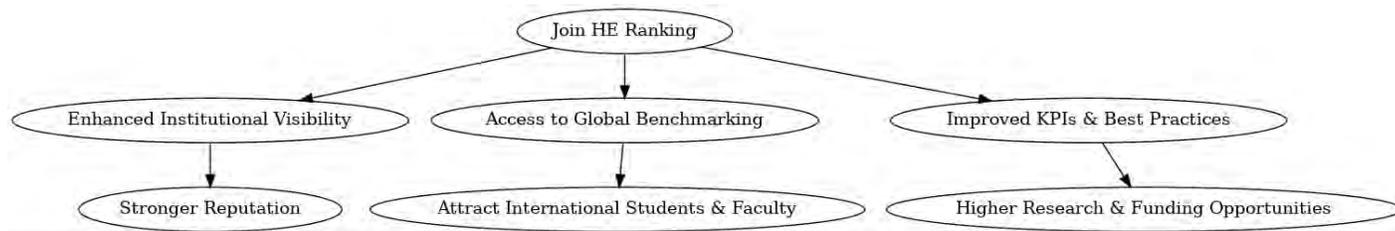
Certain institutions fall outside the scope of the ranking due to their focus areas and educational models. These include:

1. **Vocational Institutes** – Institutions primarily focused on technical and skills-based training.
2. **Training Centers** – Short-term training programs that do not provide higher education degrees.
3. **Technical Education Centers** – Centers specializing in technical and trade education rather than academic research.

4. **Pre-University Education Institutions** – Schools and institutions providing primary or secondary education rather than higher education.

## Key Notes About the Ranking:

- 1- **Free Access** – Participation in the ranking is completely free, ensuring equal opportunities for all higher education institutions (HEIs) worldwide.
- 2- **Continuous Improvement** – Key Performance Indicators (KPIs) may be refined and enhanced in future editions to reflect evolving trends and best practices in higher education.
- 3- **Institution-Level Comparison** – The ranking evaluates institutions holistically, providing a comprehensive analysis at the organizational level rather than focusing on individual programs or departments.
- 4- **Global Scope** – The ranking transcends geographical and continental boundaries, allowing institutions from diverse regions to participate and benchmark themselves on an international scale.
- 5- **Expert Oversight & Development** – A dedicated **Council of Experts** convenes regularly to ensure the ranking's integrity, originality, and ongoing evolution, adding strategic value to higher education institutions.



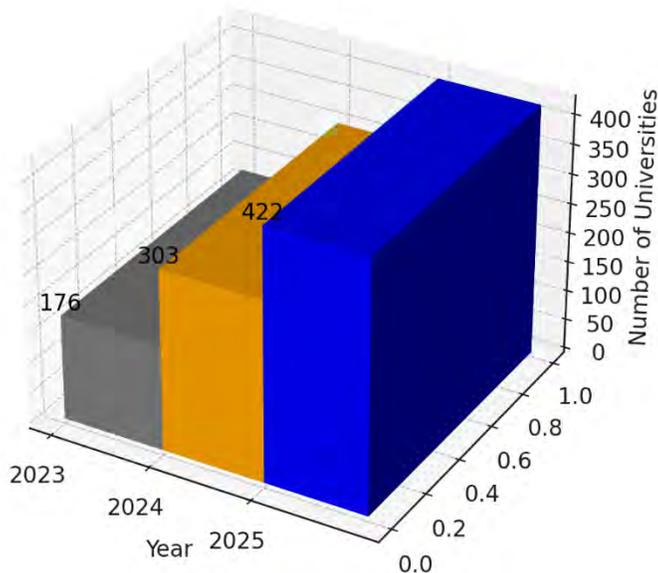
## HE Higher Education Ranking in Research and Publications:

- 1- Kayyali, M (2023). Introduction to HE Higher Education Ranking: Methodology, Criteria, and Indicators (First edition). HE Higher Education Ranking. ISBN: 9780599896628.
- 2- [Pending Patent] Kayyali, M. (2023). Holistic & Multidimensional Ranking Methodology for Universities. USPTO United States Patent and Trademark Office.
- 3- Kayyali, M. (Ed.). (2025). Contemporary Approaches to Internationalization in Higher Education. IGI Global Scientific Publishing. ISBN: 9798369368497
- 4- Kayyali, M. (Ed.). (2025). International Academic Transformations and Cross-Border Collaborations. IGI Global Scientific Publishing. ISBN: 9798337305080
- 5- Kayyali, M. (Ed.). (2025). Building Organizational Capacity and Strategic Management in Academia. IGI Global Scientific Publishing. ISBN: 9798369369678
- 6- Kayyali, M. (Ed.). (2025). Navigating Quality Assurance and Accreditation in Global Higher Education. IGI Global Scientific Publishing. ISBN: 9798369369159
- 7- Kayyali, M. (Ed.). (2025). Cultivating Creativity and Navigating Talent Management in Academia. IGI Global Scientific Publishing. ISBN: 9798369368800
- 8- Kayyali, M. (Ed.). (2024). Rebuilding Higher Education Systems Impacted By Crises: Navigating Traumatic Events, Disasters, and More. IGI Global. ISBN: 9798369319260
- 9- Kayyali, M (2025). Higher Education Rankings and Their Worldwide Significance
- 10- Dissecting Methodologies, Systems, and Global Influence. APA Apple Academic Press. ISBN: 9781779640062
- 11- Kayyali, M (2024). Crisis Management in Higher Education Challenges and Solutions. Edwin Mellen Press. ISBN: 9781495512971
- 12- Kayyali, M, & Christiansen, Bryan (2024). Insights Into International Higher Education Leadership and the Skills Gap. IGI Global.
- 13- Kayyali, M. (Ed.). (2024). Building Resiliency in Higher Education: Globalization, Digital Skills, and Student Wellness. IGI Global.
- 14- Kayyali, M (2024). Quality Assurance and Accreditation in Higher Education: Issues, Models, and Best Practices. Palgrave Macmillan (Springer). ISBN: 9783031666230

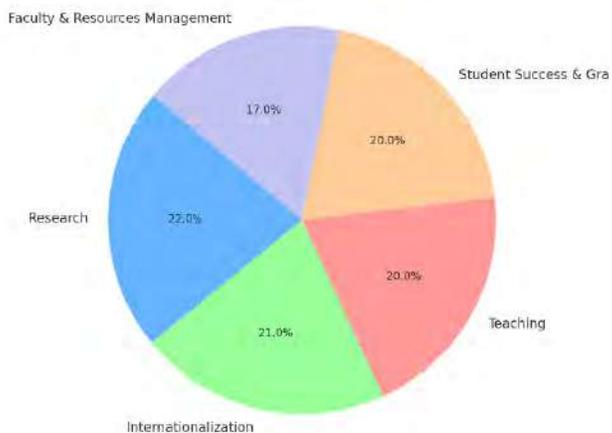
## Insights from Higher Education Ranking 2025 results:

HE Higher Education Ranking, 2025 Edition included 422 universities from over 55 countries.

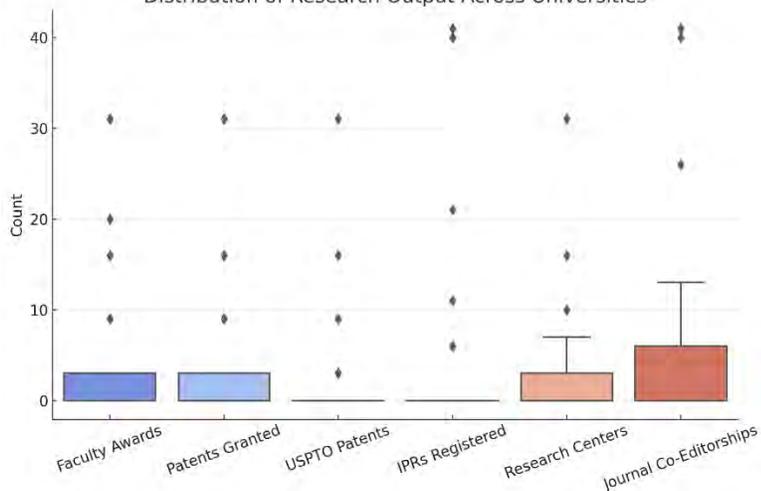
### 3D Growth of Participating Universities (2023-2025)



HE Higher Education Ranking - Weight Distribution Across Main Branche



Distribution of Research Output Across Universities



## Overview of Performance

### **Overview of Performance: National Transport University, Ukraine**

National Transport University (NTU) has demonstrated a solid performance across multiple academic and institutional indicators. Based on the ranking data, the university showcases its strengths in research output, academic transparency, and democratic governance. The institution maintains a robust presence in academic publishing, with over 1,200 research papers indexed in Scopus over the past five years. This reflects its commitment to high-impact research, though a closer look at the proportion of publications in top-tier journals (Q1/Q2) may offer further insights into the quality of its research contributions.

In terms of academic transparency, NTU ensures that faculty and students adhere to rigorous plagiarism prevention policies and actively implements measures to prevent political and ideological bias in classrooms. Governance at the university follows democratic models, with faculty and student representatives participating in decision-making processes that influence major policy changes. This participatory approach strengthens institutional accountability and enhances stakeholder engagement in university affairs.

Moreover, NTU has positioned itself to embrace future-oriented technological investments, allocating between 6% to 10% of its total budget toward innovations such as artificial intelligence, the metaverse, and modern digital infrastructure. This indicates a forward-thinking strategy, though benchmarking against global leaders in technology adoption may reveal areas for further development.

## Recommendations for Growth and Excellence

### **Recommendations for Growth and Excellence**

National Transport University (NTU) has established a strong foundation in research, governance, and technological investment, but there are key areas where strategic enhancements can further elevate its standing. One of the primary recommendations is to increase the share of its research publications in high-impact journals (Q1/Q2). While NTU has a commendable volume of Scopus-indexed publications, prioritizing quality over quantity can improve its global research impact. Faculty development programs, incentives for publishing in top-tier journals, and research collaborations with leading institutions can serve as effective strategies to achieve this.

Another area for growth lies in the expansion of interdisciplinary research and innovation-driven education. As transportation and mobility undergo rapid transformations due to automation and sustainability initiatives, NTU can position itself as a leader in applied research by fostering partnerships with industry leaders, government bodies, and international academic networks. Encouraging faculty and students to engage in problem-solving research aligned with global challenges will increase the university's visibility and relevance in cutting-edge fields.

Investing in emerging technologies should also be a continued priority, with a focus on increasing the budget allocation for AI-driven learning, smart campus infrastructure, and digital teaching tools. Strengthening NTU's futuristic vision by expanding its technology-oriented curricula and offering

specialized training programs in artificial intelligence, data science, and transport innovation will enhance graduate employability and industry readiness.

To support sustainable institutional growth, NTU should refine its governance models by increasing transparency and stakeholder participation. More frequent updates to financial reports, open forums for faculty and student feedback, and external advisory committees can enhance trust and institutional efficiency.

### Identification of Weak Points to Address

#### **Identification of Weak Points to Address**

While National Transport University (NTU) has demonstrated commendable strengths, there are specific areas where improvement is necessary to enhance its overall performance and competitiveness. One of the key concerns is the relatively low proportion of publications in high-impact journals (Q1/Q2). Despite a strong research output, the visibility and academic influence of its research could be significantly improved by focusing on publishing in top-tier journals. Strengthening faculty mentorship, offering publication incentives, and fostering international collaborations could help bridge this gap.

Another notable area for improvement is the limited investment in futuristic technologies. While NTU has allocated a portion of its budget to innovations like artificial intelligence and the metaverse, this percentage remains modest compared to leading global institutions. Increasing investments in smart infrastructure, digital learning platforms, and AI-driven research can improve the university's technological ecosystem and future readiness.

Additionally, governance and transparency mechanisms require refinement. While NTU follows democratic decision-making processes, enhancing the accessibility of financial reports and institutional policies could improve institutional trust and accountability. Strengthening faculty and student engagement in policy discussions and governance-related decisions can lead to a more inclusive and dynamic academic environment.

Lastly, the university could benefit from further internationalization efforts. Limited global academic partnerships and student exchange programs may hinder NTU's global reach and attractiveness to international scholars. Expanding international collaboration opportunities and enhancing its global reputation through targeted outreach efforts can position NTU as a more influential institution.

### Highlights of Strong Points to Celebrate

#### **Highlights of Strong Points to Celebrate**

National Transport University (NTU) has several noteworthy strengths that not only set it apart from other institutions but also provide a solid foundation for future growth. One of the most impressive features of NTU is its strong research output. With over 1,200 publications indexed in Scopus over the past five years, the university demonstrates its significant contributions to the academic community. This achievement reflects a dedicated faculty and a research-driven environment. The quantity and

quality of publications position NTU as an influential institution in its field, underscoring its commitment to advancing knowledge in transportation and related disciplines.

Another area of strength is the university's forward-looking approach to technological investment. NTU has made commendable strides in embracing modern technologies, dedicating a considerable portion of its budget to futuristic innovations such as artificial intelligence, smart campus infrastructure, and the metaverse. This proactive investment in technology not only positions NTU as a leader in adopting cutting-edge tools but also helps create a digitally advanced learning and research environment, fostering creativity and innovation.

Additionally, NTU stands out for its governance model, which follows democratic and inclusive practices. With active participation from both faculty and students in decision-making processes, the university promotes a culture of shared responsibility and accountability. This approach ensures that policies reflect the diverse needs of its community, reinforcing trust and institutional cohesion.

### Multi-Year Improvement Plans

#### **Multi-Year Improvement Plans**

To further elevate National Transport University (NTU) and sustain its progress, a structured multi-year improvement plan is essential. This roadmap should balance short-term, medium-term, and long-term goals, aligning with the university's current strengths and addressing areas for growth.

In the short term (1-2 years), NTU should focus on enhancing the quality and visibility of its research output. This can be achieved by fostering collaborations with international academic partners, providing training on publishing in high-impact journals, and offering incentives for faculty to submit their work to top-tier publications. Additionally, the university should invest in improving its research infrastructure, such as expanding access to digital research tools and databases.

The medium-term goals (3-5 years) should center on technology integration and academic innovation. NTU can expand its curriculum to include cutting-edge fields like artificial intelligence, data science, and sustainable transportation technologies. It should continue investing in smart campus technologies and learning platforms, ensuring that its infrastructure supports a digitally-driven academic experience. Strengthening ties with global industry leaders through research partnerships and internships for students will enhance both the university's reputation and its students' employability.

Long-term goals (5+ years) should be aimed at achieving global recognition. NTU should focus on developing a comprehensive internationalization strategy, increasing global collaborations, student exchanges, and faculty development programs. In parallel, the university can strengthen its leadership in the transportation sector by creating research centers dedicated to smart mobility, sustainability, and future technologies, positioning NTU as a global leader in these areas.

### Predictive Modeling

#### **Predictive Modeling: Impact of Strategic Improvements on NTU's Performance**

Predictive analytics can offer valuable insights into how specific strategies could enhance National Transport University's (NTU) performance over the next 3-5 years. By increasing research funding and improving student support services, NTU can expect noticeable improvements in various institutional metrics, which could positively influence its overall ranking.

In the first scenario, increasing research funding by 5% annually over the next five years could significantly enhance NTU's academic visibility and output. With more resources allocated to research, faculty could produce higher-quality publications and engage in collaborative projects, leading to a rise in the university's research rankings. Over time, this would increase NTU's competitiveness, attracting more international collaborations and funding.

In parallel, investing in student support services would also yield tangible benefits. A 3% improvement annually in areas such as academic advising, career services, and mental health support could improve student satisfaction and retention rates. As a result, NTU would likely see an improvement in student outcomes and institutional reputation, driving an upward trend in its rankings.

By implementing these strategies, NTU could experience a compounded improvement in its academic standing and overall performance, with each year building on the last. These initiatives will not only raise the university's profile but also improve student experience, helping it to attract top talent, increase funding opportunities, and boost long-term sustainability.

## Scenario Planning

### **Scenario Planning: Simulating Strategies for NTU's Future Success**

Scenario planning allows National Transport University (NTU) to simulate various strategies and evaluate their potential impact on overall performance. By testing different variables, NTU can make informed decisions that align with its long-term goals and adapt to emerging trends in higher education.

One scenario to consider is increasing international student enrollment. By enhancing outreach programs, offering scholarships, and building partnerships with universities abroad, NTU could boost its global visibility and diversity. If successful, this strategy could lead to a higher ranking due to the increased cultural and academic exchange, as well as a broader network of alumni and industry partners. This, in turn, would strengthen the university's international collaborations and improve its overall reputation in the global academic community.

Another key scenario involves investing in new research centers focused on emerging technologies, such as sustainable transportation or AI-driven mobility. By concentrating efforts on high-demand, forward-thinking areas, NTU could attract significant funding from governments, industry leaders, and international research bodies. A dedicated focus on cutting-edge technologies would position NTU as a leader in its field, attracting both top faculty and students. The increased research output and partnerships with innovative companies would further elevate NTU's position in global rankings.

Simulating these strategies using scenario planning can help NTU understand how international student enrollment and investment in research could shape its future success. The insights gained will enable

the university to implement targeted actions and allocate resources more effectively to achieve its desired outcomes.

## White paper

### **White Paper: National Transport University's Path to Excellence and Global Recognition**

National Transport University (NTU) stands at a pivotal moment in its academic journey, with a promising future ahead. The university has made significant strides in research, technology, and governance, but it is essential to reflect on its performance holistically to identify opportunities for continued growth. This white paper aims to provide a comprehensive analysis of NTU's strengths and weaknesses, grounded in both qualitative and quantitative measures. It will also offer actionable recommendations that align with global best practices, while highlighting strategic goals to ensure the university's long-term sustainability, competitiveness, and leadership in education and research.

#### **Comprehensive Analysis of NTU's Strengths and Weaknesses**

NTU has demonstrated remarkable success in various areas that contribute to its academic reputation. One of its most significant strengths is its solid research output. Over the past few years, the university has consistently produced a large volume of publications, many of which are indexed in prestigious academic databases such as Scopus. This research activity speaks to the institution's commitment to knowledge creation and its contribution to the academic community. However, while the quantity of publications is commendable, a closer look at their quality reveals that there is room for improvement. NTU's research is somewhat underrepresented in high-impact journals (Q1/Q2), which are crucial for enhancing its global academic standing. By focusing on quality rather than merely volume, the university could significantly raise its research profile. Strategies such as fostering partnerships with global research institutions, encouraging interdisciplinary collaboration, and offering incentives for publishing in high-ranking journals could drive this shift.

Another area where NTU excels is its governance model, which reflects a democratic and inclusive approach. Faculty and student representatives are actively involved in decision-making processes, fostering a sense of shared responsibility and institutional cohesion. This governance structure is one of NTU's defining features, contributing to a positive academic environment that encourages transparency and accountability. However, there is still potential for further improvement in how governance translates into action, particularly in making institutional policies more accessible and inclusive. By increasing transparency and communication regarding key decisions, NTU could further build trust and ensure that its community remains fully engaged in its mission.

On the other hand, while NTU has made notable strides in technological investment, particularly in artificial intelligence and smart campus infrastructure, the university's overall allocation to these areas remains modest compared to global competitors. Leading institutions are rapidly advancing in the adoption of digital learning tools and futuristic technologies like the metaverse, which enhances both teaching and research capabilities. NTU could benefit from a more aggressive strategy in this area, ensuring that its technological infrastructure is on par with global standards. Increasing investment in digital learning platforms, data science programs, and AI-driven research projects would position NTU as a leader in innovation and future-ready education.

NTU also faces challenges in terms of internationalization. While the university has made some progress in fostering global partnerships, international student enrollment remains lower than desired. Expanding NTU's international network could provide valuable academic and cultural exchange opportunities, as well as enhance its global reputation. In a globalized world, universities must cultivate an international presence to remain competitive. As part of its internationalization strategy, NTU should focus on creating collaborative programs with leading institutions around the world, as well as offering more scholarships and research opportunities to attract top-tier international students.

In terms of infrastructure, NTU has made significant investments in modernizing its campus, with a focus on creating a digitally enhanced learning environment. However, there is still room to improve the overall campus experience, particularly in terms of creating more interdisciplinary research spaces and state-of-the-art labs. This would further support the university's focus on innovation and research excellence.

#### **Balanced Methodology: Acknowledging the Limitations of Rankings**

While rankings offer valuable insights into a university's performance, they are not without their limitations. Most ranking systems tend to rely heavily on quantitative measures such as research output, faculty qualifications, and international collaboration, which, although important, do not provide a full picture of an institution's overall impact. Rankings often fail to account for the quality of the learning experience, the long-term career success of graduates, or the social and economic impact of the institution on its local and global communities. Additionally, rankings can be influenced by factors that may not fully reflect the unique context or mission of a particular university.

NTU should view rankings as one of many tools in its pursuit of excellence. While improving its ranking position is undoubtedly important, the university must also focus on qualitative measures that can enhance its broader mission. Student satisfaction, faculty development, and community engagement are just as crucial as research output and teaching efficiency. A balanced approach that considers both qualitative and quantitative data will allow NTU to craft a more comprehensive strategy for improvement and ensure that its growth is sustainable and meaningful.

#### **Actionable Recommendations: Realistic Strategies for Improvement**

NTU has established a strong foundation, but to achieve its full potential, the university must adopt targeted strategies that build on its existing strengths while addressing its weaknesses. In terms of research, NTU should focus on strengthening its connections with global academic networks, particularly in transportation, sustainability, and technology. Expanding interdisciplinary research centers focused on emerging technologies such as AI, sustainable transportation, and smart mobility will not only enhance NTU's reputation but also align with global trends in education and research. These centers could serve as hubs for innovation and collaboration, attracting funding, talent, and partnerships from industry leaders and international research organizations.

To improve its position in global rankings, NTU must also prioritize faculty development. By providing faculty with the tools, resources, and support needed to publish in high-impact journals, as well as fostering an environment that encourages collaboration and innovation, the university can raise the quality of its research output. Additionally, NTU could benefit from offering more interdisciplinary programs, bringing together faculty from diverse fields to solve real-world problems in transportation and related industries.

In terms of internationalization, NTU should create a robust strategy to increase international student enrollment. This could be achieved by offering more scholarships, establishing exchange programs with top universities, and creating joint degree programs that attract international students and faculty. Additionally, NTU could host international conferences and workshops that bring together leading experts in transportation and technology, further enhancing its reputation as a global academic leader. Improving the university's infrastructure should also be a priority. Investing in state-of-the-art research labs, digital learning platforms, and sustainable campus initiatives will not only enhance the university's academic offerings but also contribute to its environmental goals. By incorporating green technologies into campus operations, NTU can showcase its commitment to sustainability, which is an increasingly important factor for students and faculty when choosing an institution.

#### **Strategic Future Outlook: Innovation, Sustainability, and Global Collaboration**

Looking toward the future, NTU must embrace a strategic vision that places innovation, sustainability, and global collaboration at its core. These trends are shaping the future of higher education and will continue to influence the expectations of students, faculty, and employers. By prioritizing innovation

in teaching and research, NTU can position itself as a leader in emerging technologies, such as autonomous transportation, smart mobility, and AI applications in engineering.

Sustainability is another key area for NTU to consider. As the world faces mounting environmental challenges, universities must take a leadership role in addressing these issues. NTU could strengthen its commitment to sustainability by incorporating green practices into its research, teaching, and campus operations. This could include developing new sustainable transportation technologies, creating environmentally friendly campus initiatives, and offering programs that focus on sustainability and green technologies.

Global collaboration will also be crucial for NTU's future success. As the academic landscape becomes increasingly interconnected, NTU must deepen its international partnerships and expand its global reach. By fostering collaborations with leading universities, industry partners, and research institutions around the world, NTU can remain at the forefront of academic and technological advancements, ensuring its relevance in a rapidly changing global environment.

#### **Holistic Approach: Beyond Rankings, Toward Institutional Development**

Finally, NTU must adopt a holistic approach that emphasizes long-term institutional development rather than merely focusing on improving rankings. While rankings are important, they should not be the sole metric by which success is measured. NTU should prioritize sustainable growth, focusing on creating a strong academic environment, supporting faculty development, improving student outcomes, and contributing to global challenges through research and innovation.

By focusing on these broad, long-term goals, NTU can ensure that it not only improves its rankings but also makes a meaningful impact on society. This approach will help NTU build a legacy of excellence that extends far beyond its position in global rankings, positioning it as a true leader in higher education.

**DO YOU HAVE ANY QUESTION?**

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