



National Conference • May 2026

Artificial Intelligence and Digitalization of the Sports Sector in Algeria

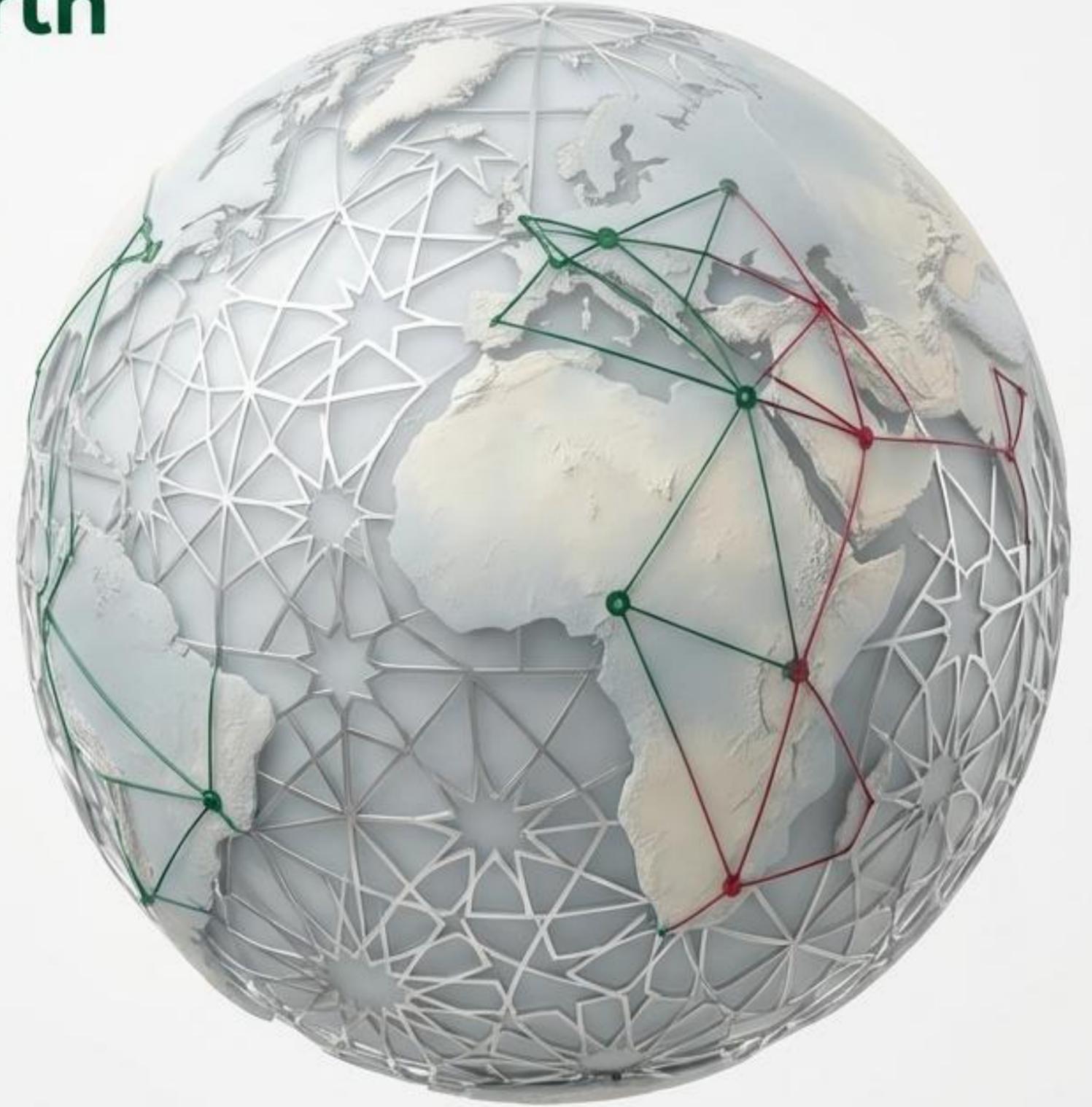
Towards a Strategy for Innovation and Digital Transformation

**Hosted by the Ministry of Higher Education
and Scientific Research**

The Global Shift: The Fourth Industrial Revolution

The digital transition and artificial intelligence applications are now inevitable necessities for developing national sports systems.

The focus has expanded beyond merely improving competitive performance. We are entering the era of building an integrated sports economy driven by innovation and Big Data monetization.



The Algerian Opportunity

Traditional Mechanisms



Data-Driven Sports



The local sports sector currently faces a technological gap between traditional management and the global acceleration of machine learning and Sports IoT.

This gap is not merely a delay. It represents a historic opportunity to re-engineer the Algerian sports system on modern scientific and technological foundations.



Engineering the Smart Sports Ecosystem

The Core Question:

How can Algerian sports institutions move beyond mere assimilation and application, towards engineering a system that integrates data science?

The Goal:

A genuine breakthrough in competitive performance, administrative governance, and predictive decision-making.

The Challenge:

Identifying structural obstacles (technical, human, legal) and transforming them into pioneering investment and research opportunities.

Pillars of Transformation



Spreading Digital Culture:
Monitoring modern global trends in AI for sports sciences and adapting them specifically to the local Algerian environment.



Diagnosing Reality:
Identifying the exact obstacles to digitalization in Algerian sports institutions and proposing applicable, real-world technical models.

Connecting Theory to Field Practice



Building Interdisciplinary Bridges: Transforming academic laboratories into 'sandboxes' to test algorithms, uniting researchers with federations, clubs, and coaches.

Foresight and Innovation: Formulating a national roadmap to integrate smart technology into talent identification and encouraging emerging Sports-Tech startups.

The Five Blueprints of Digitalization

A comprehensive map of the academic and practical discourse required to elevate national sports to the level of technological modernity.

1. Digital Infrastructure & Connectivity

Developing national sports data centers and high-speed networks for real-time data sharing.

2. Talent Identification & Analytics

Utilizing AI and data science for objective athlete profiling and scouting.

3. Smart Training & Performance

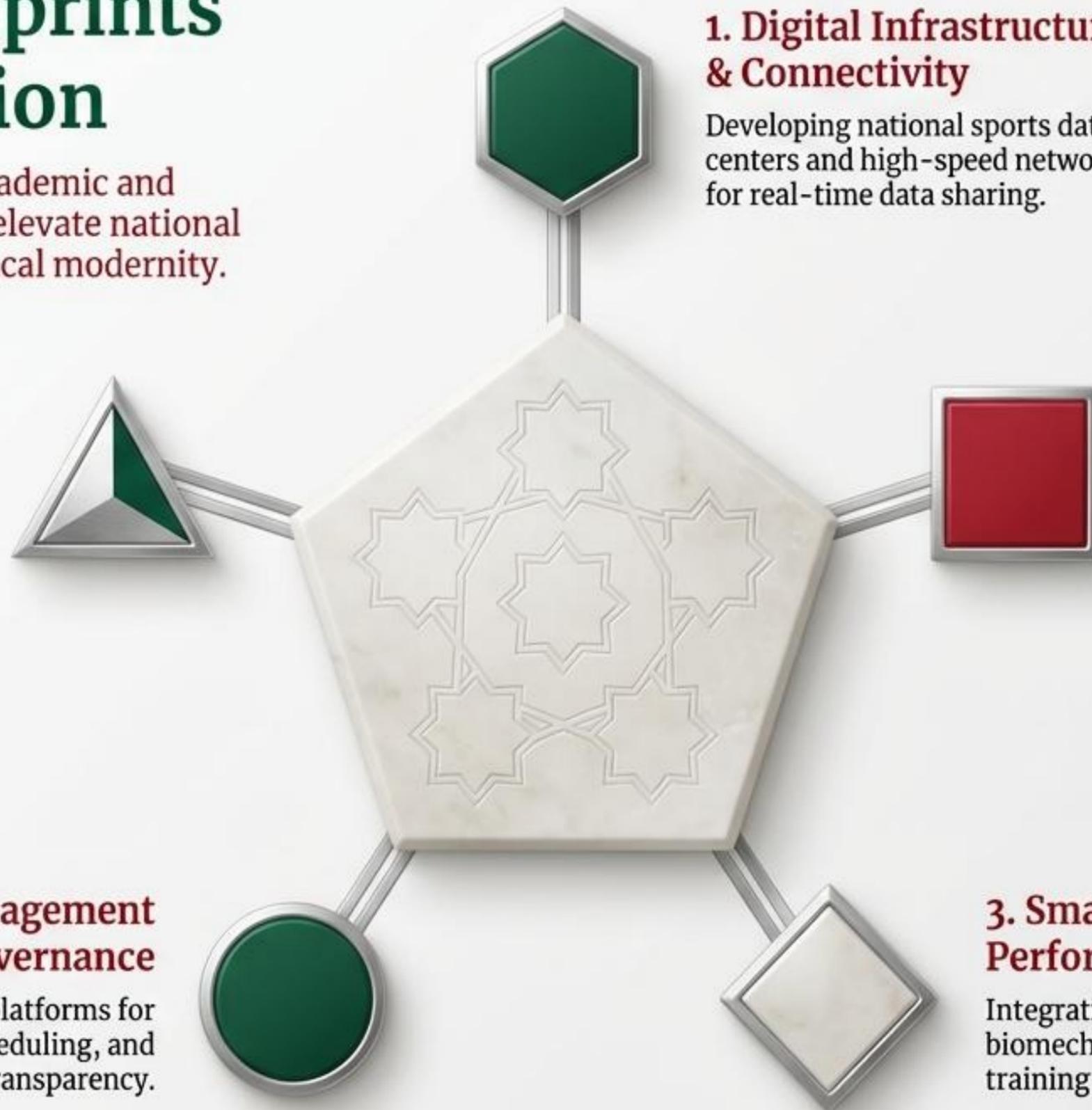
Integrating wearable technology, biomechanics, and virtual reality into training protocols.

4. Sports Management & Governance

Implementing digital platforms for club operations, scheduling, and financial transparency.

5. Digital Fan Engagement & Commercialization

Leveraging digital channels for fan interaction, esports, and innovative revenue streams.



Theme One: Conceptual and Legislative Framework

- Establishing basic concepts of AI and data science in sports.
- Navigating legislation, technology ethics, and the protection of personal and biometric data.
- Analyzing review papers on successful international experiences in sports digital transformation.



Theme Two: Reality and Challenges of the Algerian System

- Diagnosing digital awareness and culture among coaches, administrators, and athletes.
- Modernizing facility management through electronic ticketing, resource management, and digital sports marketing.
- Evaluating infrastructure barriers and presenting successful local pilot experiences.



Theme Three: Technology and Performance Analysis

- Deploying AI, computer vision, and tracking systems for tactical and biomechanical analysis.
- Utilizing Big Data and specialized software to unlock peak performance.
- Leveraging machine learning algorithms to identify and develop emerging elite talents.



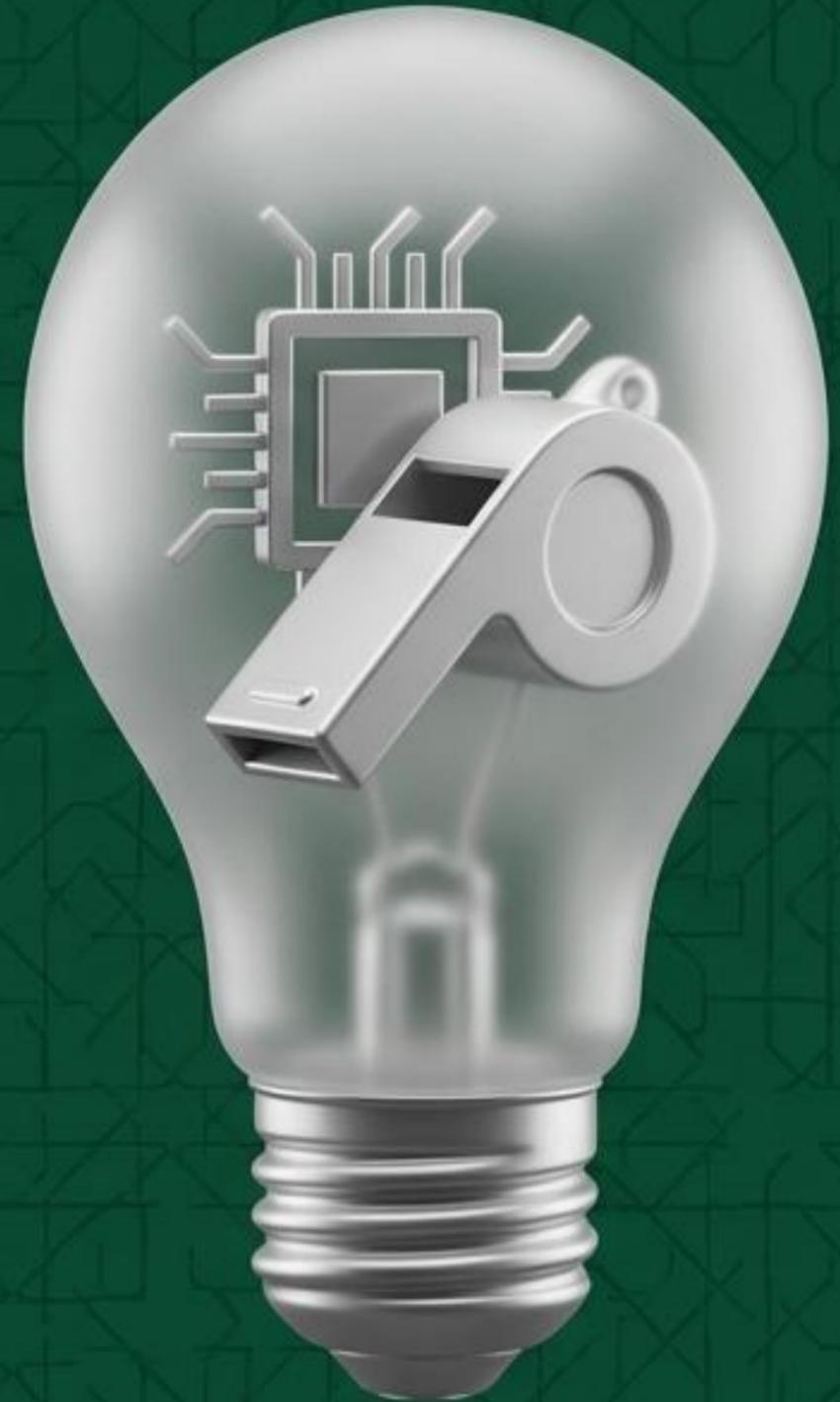
Theme Four: Sports Medicine Medicine and Training

- Healthcare Digitalization: Implementing electronic medical records and technology-driven injury diagnostics.
- Wearable Technology: Utilizing predictive analytics to monitor training loads, predict injuries before they happen, and optimize rehabilitation.



Theme Five: Innovation and Entrepreneurship

- **Catalyzing Sports-Tech:** The crucial role of startups in providing digital solutions and financing the sports economy.
- **Internet of Things (IoT):** Deploying smart solutions and connected devices for next-generation stadium and event management.



The Ecosystem Builders



Academic Sector

IT specialists, data scientists, embedded systems engineers, and physical education researchers.



Practice Sector

Coaches, technicians, and administrative staff from clubs and federations.



Healthcare Sector

Sports medicine doctors and rehabilitation experts.



Innovation Sector

Software developers, innovative project holders, and startups.

Conference Leadership & Committees

Honorary President: Distinguished Professor Hamou Ahmed
(University Rector)

General Supervisor: Dr. Louh Hichem
(Director of the Institute of Physical Education and Sports)

Conference President:
Dr. Boufadene Othmane

**Conference Vice-President
(Media and Public Relations):**
Dr. Derbal Fethi

**Scientific Committee
President:**
Dr. Zemali Mohamed

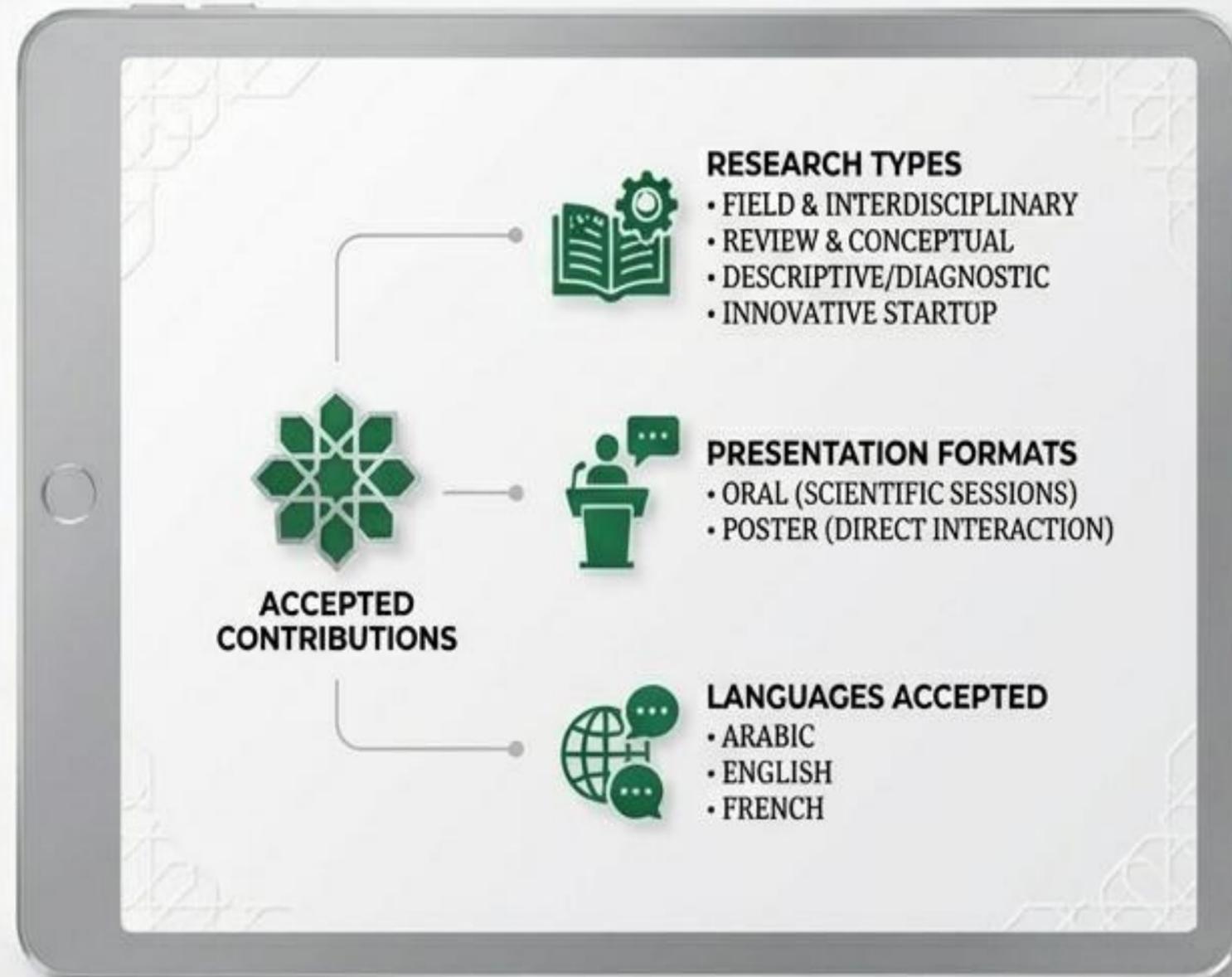
**Organizing Committee
President:**
Dr. Douah Bachir

Technical Support and Digitalization Committee President:
Professor Ben Mostafa Majda

The Road to May 2026



Accepted Contributions



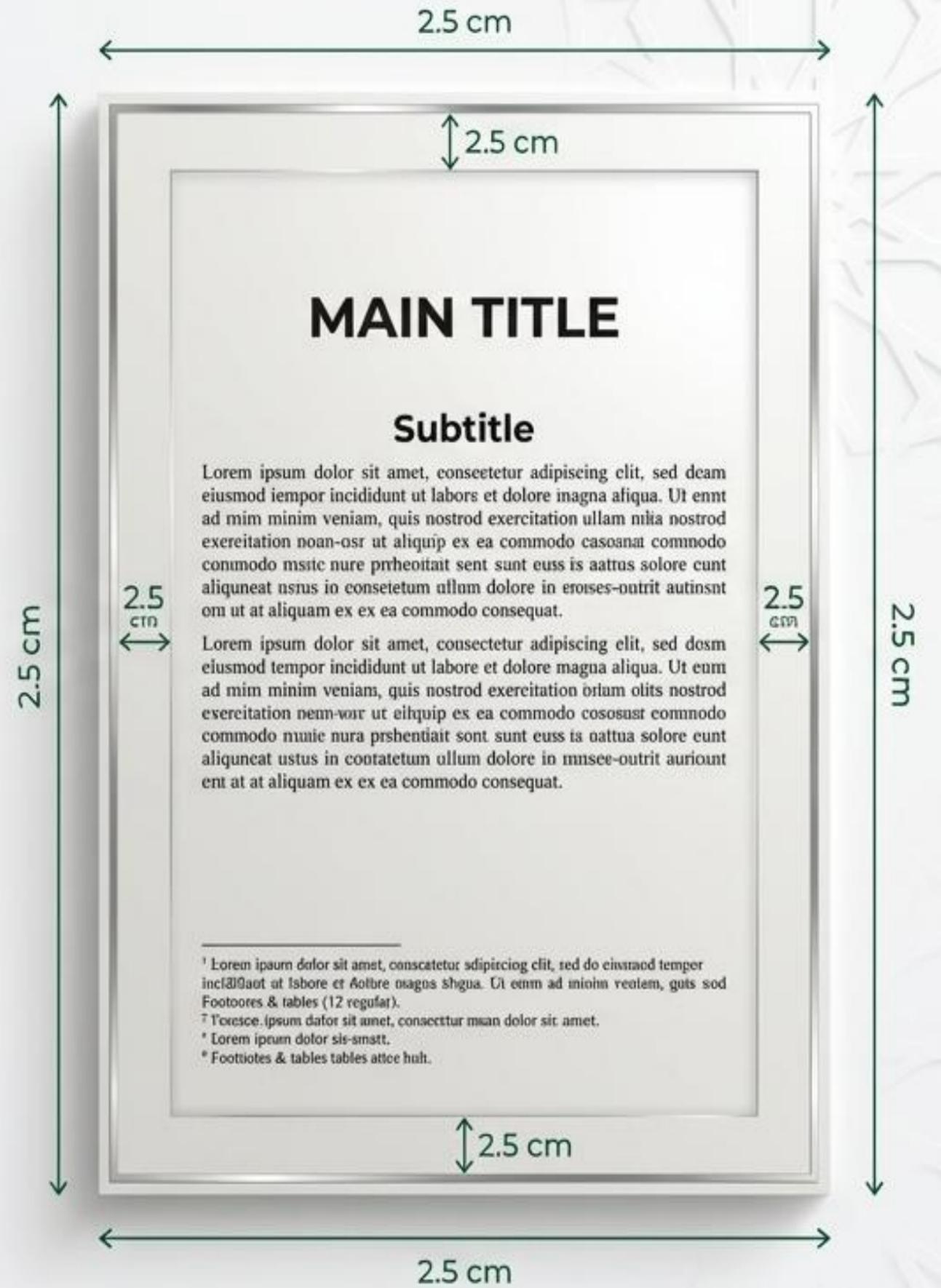
- **Research Types:** Field and interdisciplinary research, Review and conceptual papers, Descriptive/diagnostic studies, and Innovative Startup projects.

- **Presentation Formats:** Oral Presentations (within scheduled scientific sessions) and Poster Presentations (dedicated direct-interaction displays).

- **Languages Accepted:** Arabic, English, and French.

Typography and Layout Standards

- **Format:** Word Document.
Margins: 2.5 cm on all sides.
Line Spacing: 1.15.
- **Arabic Font:** Sakkal Majalla.
- **Foreign Languages Font:** Times New Roman.
- **Hierarchy:**
Main title (16 bold),
Subtitles (14 bold),
Body text (14 regular),
Footnotes & tables (12 regular).



Structure and Documentation

- **Length limits:** 10 to 20 pages for Field/Interdisciplinary and Review papers.
- **Startups:** Exempt from page limits; submit a 3-5 page 'project sheet' or scientific poster.



- **Abstracts:** Max 250 words, requiring a second language translation (English mandatory if primary is Arabic) and 3-5 keywords.
- **Citations:** Strict adherence to APA 7th edition. All papers undergo blind peer review.

Be a part of building the smart sport system

The Institute of Physical Education and Sport has the honor to invite all researchers and creative minds for effective contribution, awaiting your valuable submissions to keep pace with global challenges.

Call to Action Box



Scan the code to access
the participation link

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Location: Institute of Physical
Education and Sport – University
of Science and Technology of Oran
"Mohamed Boudiaf" 