

SONARGES

The armed force of the Department in charge of
Sports in the management of major sports
infrastructures.





SONARGES

Born out of the will of His Majesty King Mohammed VI to propel the sports sector to the forefront, the **National Company for the Construction and Management of Sports Facilities** was created with the aim of enhancing sports facilities and customizing their management.

« En outre, vos assises devraient se pencher sur une question vitale, à savoir la **nécessité impérieuse, pour le secteur du sport, de renforcer ses infrastructures**. Car, en dépit d'équipements sportifs de haut niveau dont dispose notre pays, et de ceux pour la réalisation desquels Nous avons donné Nos Directives au gouvernement, **il est nécessaire de redoubler d'efforts en la matière**, d'autant plus que la pratique du sport et la formation des champions s'apparentent désormais à une véritable industrie. »

Excerpt from the Royal Letter addressed to the participants in the National Sports Conference held in Skhirat in 2008





Missions of SONARGES



To undertake the role of project owner for the renovation of six existing stadiums to meet CAF requirements in order to host the Africa Cup of Nations 2025.



To undertake the role of project owner for the renovation of five existing stadiums to meet the Fifa 2030 Hosting Requirements.



To take charge of the project management for the Casablanca New Stadium Development.



To ensure the maintenance and effective operation of sports facilities for optimal performance.



Management and Operation of Sports Infrastructure and Stadiums (Convention signed in 2020).





SONARGES in Numbers

+16

YEARS OF EXISTENCE

Established in 2008



7

FOOTBALL STADIUMS
IN MOROCCO



Casablanca
Marrakech
Agadir
Tangier
Rabat
Casablanca
Fes
AL Hoceima

37

OTHER THAN FOOTBALL
STADIUMS,
INFRASTRUCTURE

Swimming pools,
Sports halls,
Tennis complexes...

+40

INTERNATIONAL
COMPETITIONS HOSTED



FIFA Club World Cup 2013 and 2014, 2022
Women's AFCON 2022
Diamond League 2022
African Nations Championship
(CHAN) 2018
CAN U23 2011, 2023
Athletics Meetings

+536

EVENTS HOSTED TO
DATE



+12

NATURAL GRASS TRAINING
PITCHES

4 natural grass training pitches in Marrakech
3 natural grass training pitches in Agadir
2 natural grass training pitches in Tangier
2 natural grass training pitches in Fes
1 natural grass training pitch in Rabat

2

SYNTHETIC TURF ON AUXILIARY
FIELDS

- 2 natural grass training pitches in Fes
- 1 natural grass training pitch in Rabat



5

FOOTBAL ACADEMIES

Rabat, Agadir, Fes
et Marrakech



+150

SATISFIED CLIENTS

National and
international clubs,
companies,
associations



+82

COLLABORATORS

Rigorously
recruited and
trained





SONARGES Portfolio: Stadiums

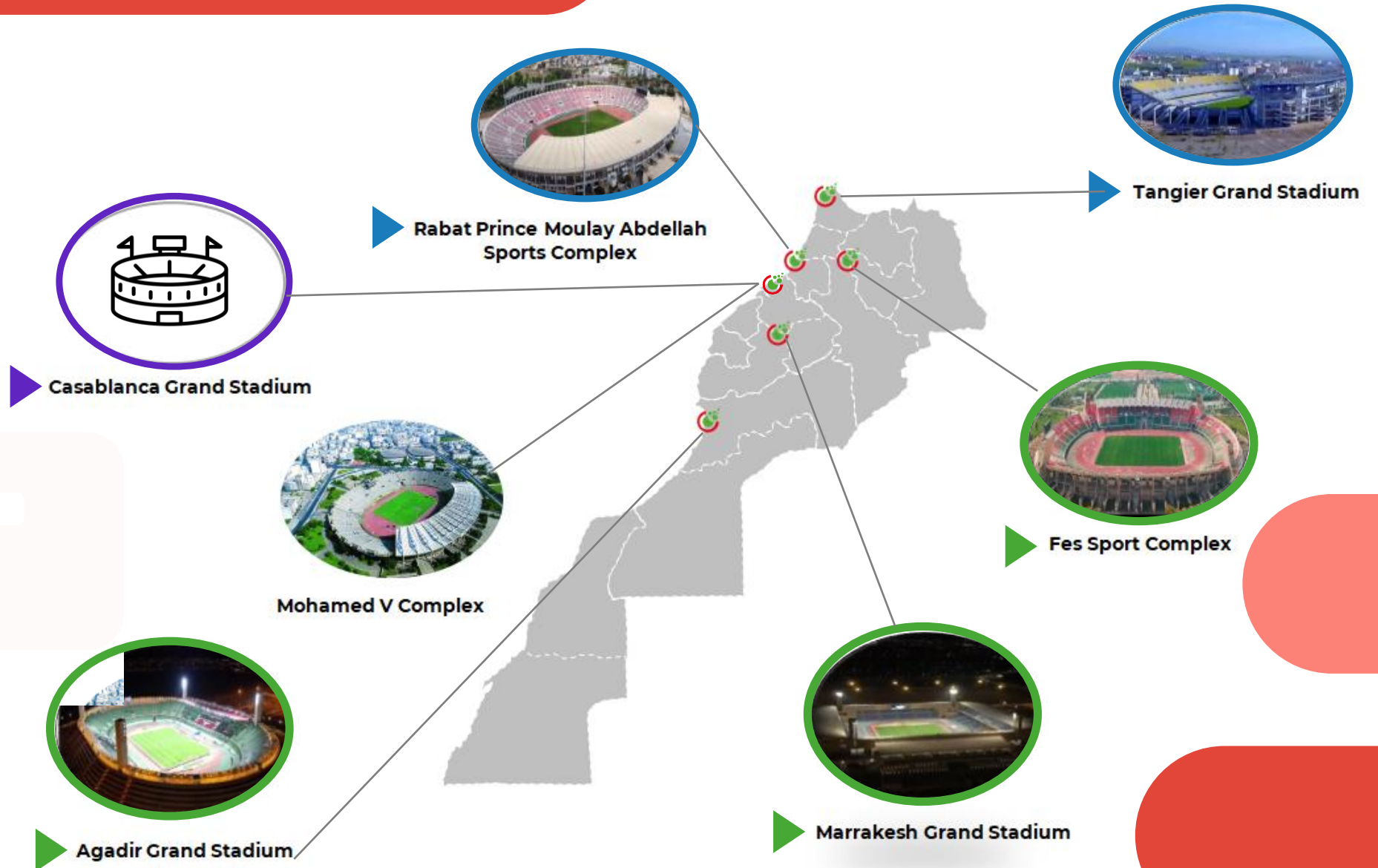
Net Capacities
FIFA 2030 Hosting Bid

≥ 40 000 seats

≥ 60 000 seats

≥ 80 000 seats

Around 115000 gross capacity





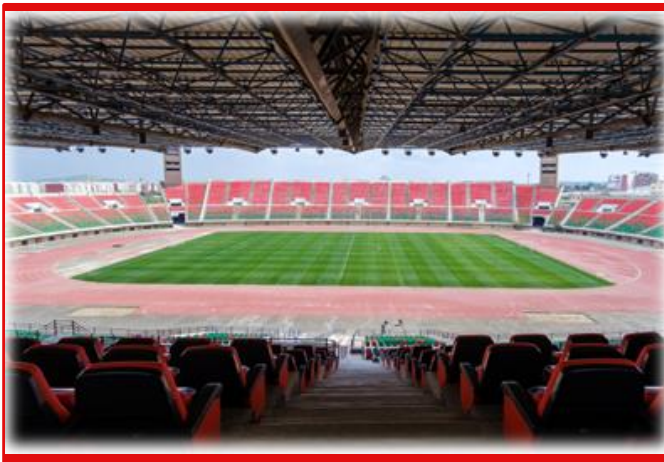
SONARGES Portfolio: Stadiums



Grand Stadium of Tangier
• Capacity: ≥ 60000 seats



**Prince Moulay Abdellah
Sports Complex in Rabat**
• Capacity: ≥ 60000 seats



Sports Complex of Fes
• Capacity: ≥ 40000 seats



Grand Stadium of Marrakech
• Capacity: ≥ 40000 seats



SONARGES Portfolio: Stadiums



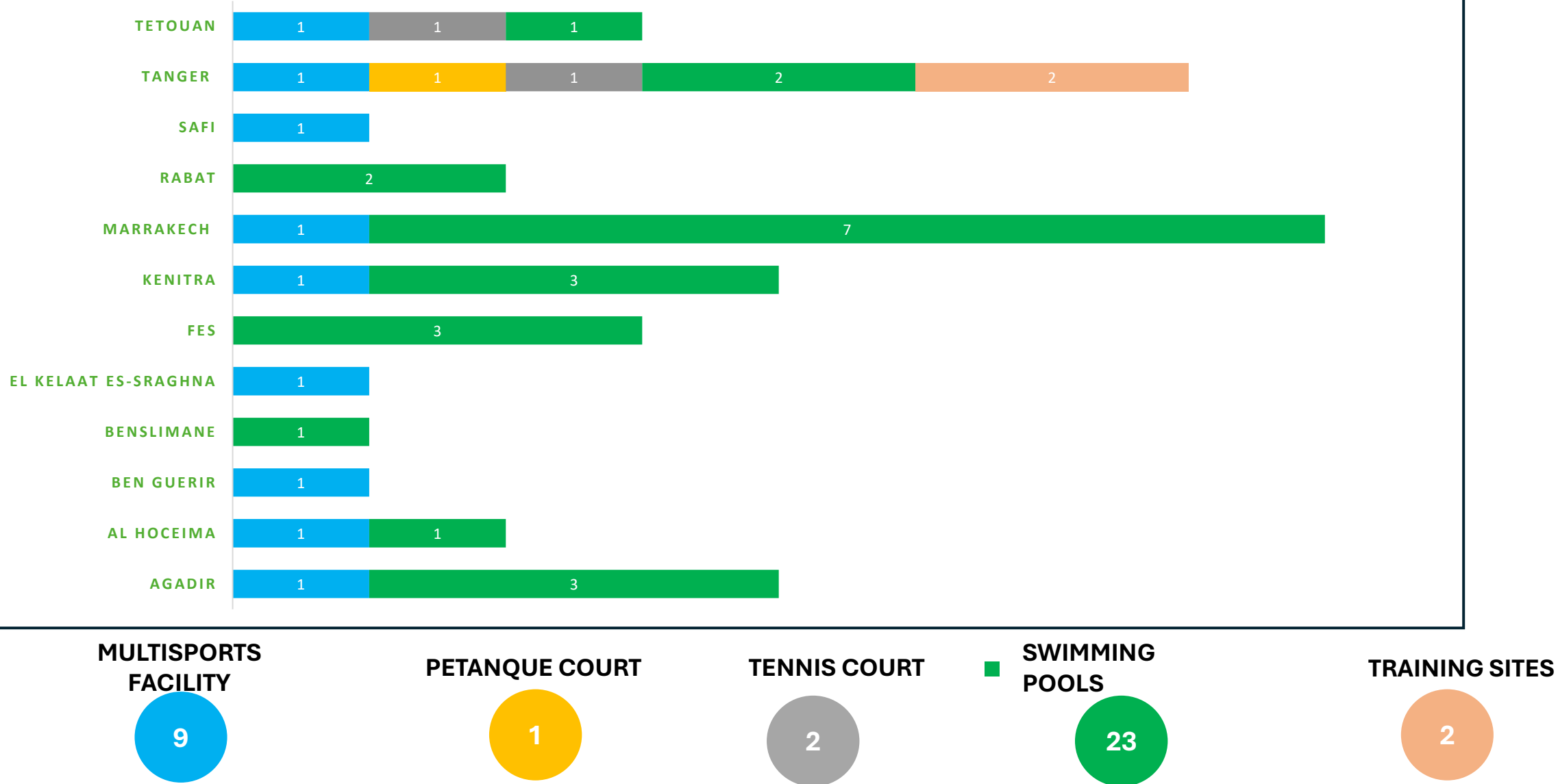
Grand Stadium of Agadir
• Capacity: ≥ 40000 seats



Mohammed V Sports Complex
• Capacity: ≥ 40000 seats



SONARGES Portfolio: Multidisciplinary Infrastructures





Events Report

International Competitions



Africa Cup of Nations –
U23 2023



Fifa Club World Cup – 2022



Women CAN – 2022



Africa Championship of
Nations– 2018



Spanish Super Cup– 2018



Champions Trophee – 2017



African Cup of Nations –
U17 2012



Fifa Club World Cup –
2013–2014



Events Report

Football Events – National Team A



Morocco – Brazil 2023



Morocco – Argentina 2019



Morocco – Ivory Coast 2017
2018 FIFA World Cup Qualification



Morocco – Tunisia 2015



Morocco – Tanzania 2012
2013 Africa Cup of Nations Qualification



Morocco – Algeria 2011
2013 Africa Cup of Nations Qualification



Grand stadium of Casablanca

Consistency

Surface area

100-hectare
plot

Capacity
115 000
spectators

Components

Football stadium
4 training fields
Commercial
spaces
Parking lots

Timeline

LAUNCH OF THE ARCHITECTURAL COMPETITION

October 24th, 2023

PRESELECTION OF THE ARCHITECTURAL COMPETITION

November 20th, 2023

OPENING OF BIDS

February 6th, 2024

CONSTRUCTION COMPLETION

2028



Stadium Renovation Program

Program Context

AFCON 2025

FIFA WC 2030

STADIUM RENOVATION PROGRAM

Aligning with the regulatory technical requirements for constructions and football stadiums, as well as the new requirements of various football organizations and the updated specifications for international competitions (FIFA and CAF).

FUNDING PROVIDER

Ministry of Economy and Finance

Ministry of National Education, Preschool, and Sports

PROJECT OWNER

SONARGES

DELEGATED PROJECT OWNER

ANEP

PARTNER

FRMF



Stadium Renovation Program

Phase I

2025

FIFA REQUIREMENTS

**Moulay Abdellah Sports Complex
Tangier Grand Stadium**

CAF REQUIREMENTS

**Fes Grand Stadium
Marrakech Grand Stadium
Agadir Grand Stadium
Mohammed V Sports Complex**

Phase II

2030

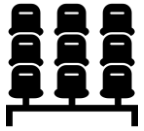
FIFA REQUIREMENTS

**Fes Grand Stadium
Marrakech Grand Stadium
Agadir Grand Stadium
Casablanca Grand Stadium**



Renovation requirements

Area



Stadium Bowl and seating



Surrounding infrastructure



Competition facilities



Safety and Security



VIP and Hospitality



Technological Infrastructure



Media facilities

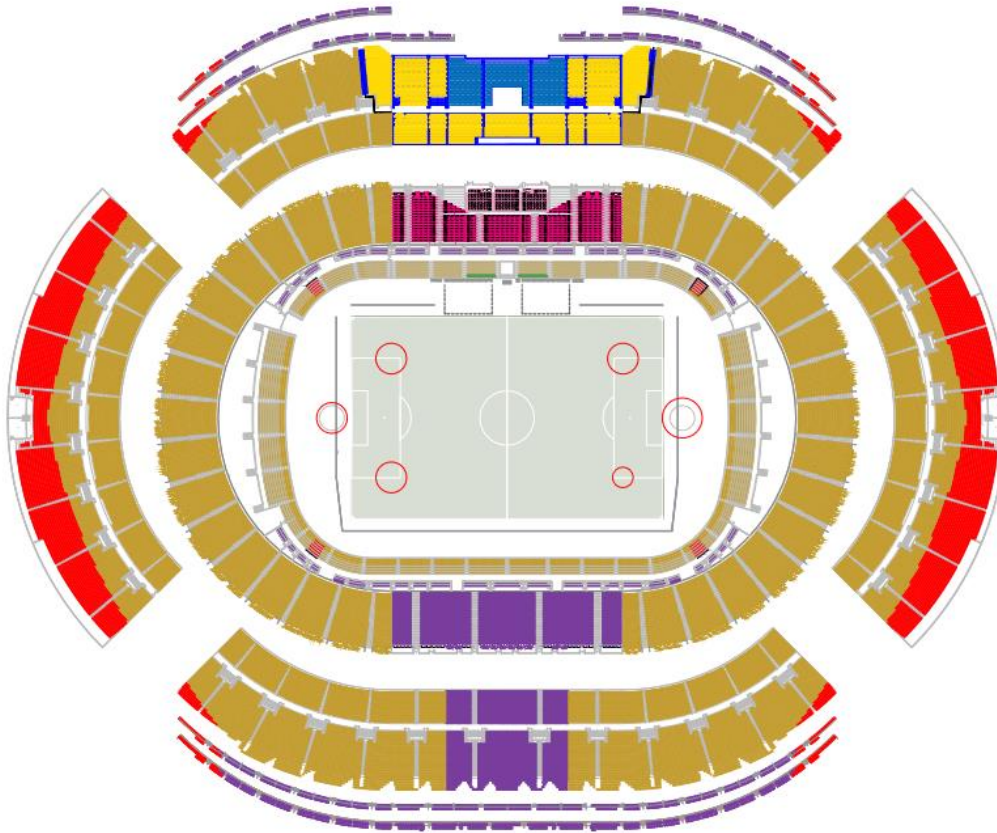


Sustainable Development



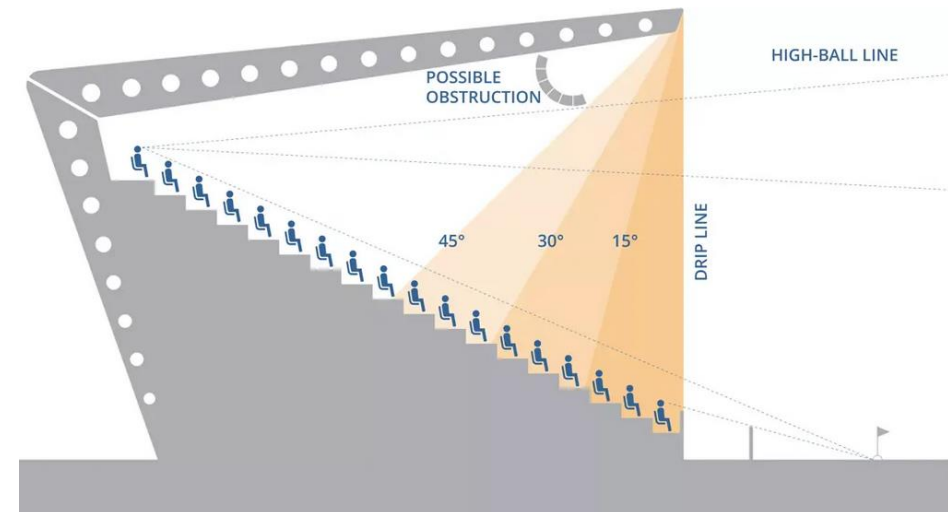
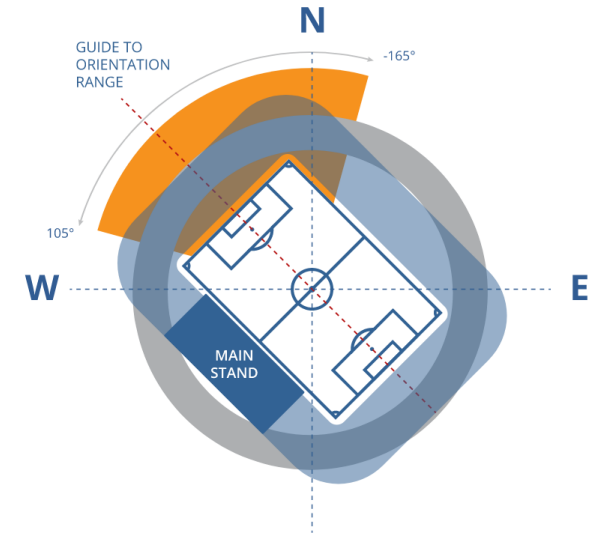
Stadium Bowl and Seating

Stadium Bowl



- General Spectators
- Broadcast
- VVIP / VIP
- Media
- Hospitality

Stadium Roof



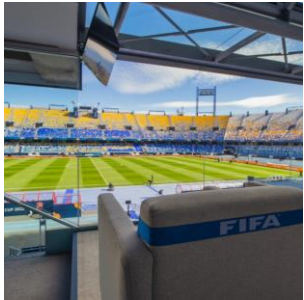


Stadium Bowl and Seating



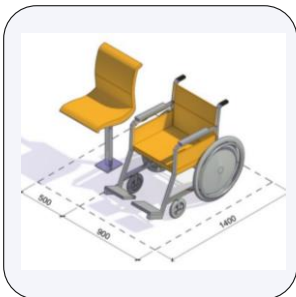
General spectators' seats

- Seat width $\geq 0.45\text{m}$
- Row depth $\geq 0.80\text{m}$
- Distance between seats from centre to centre $\geq 0.50\text{m}$
- Backrest height $\geq 0.30\text{m}$

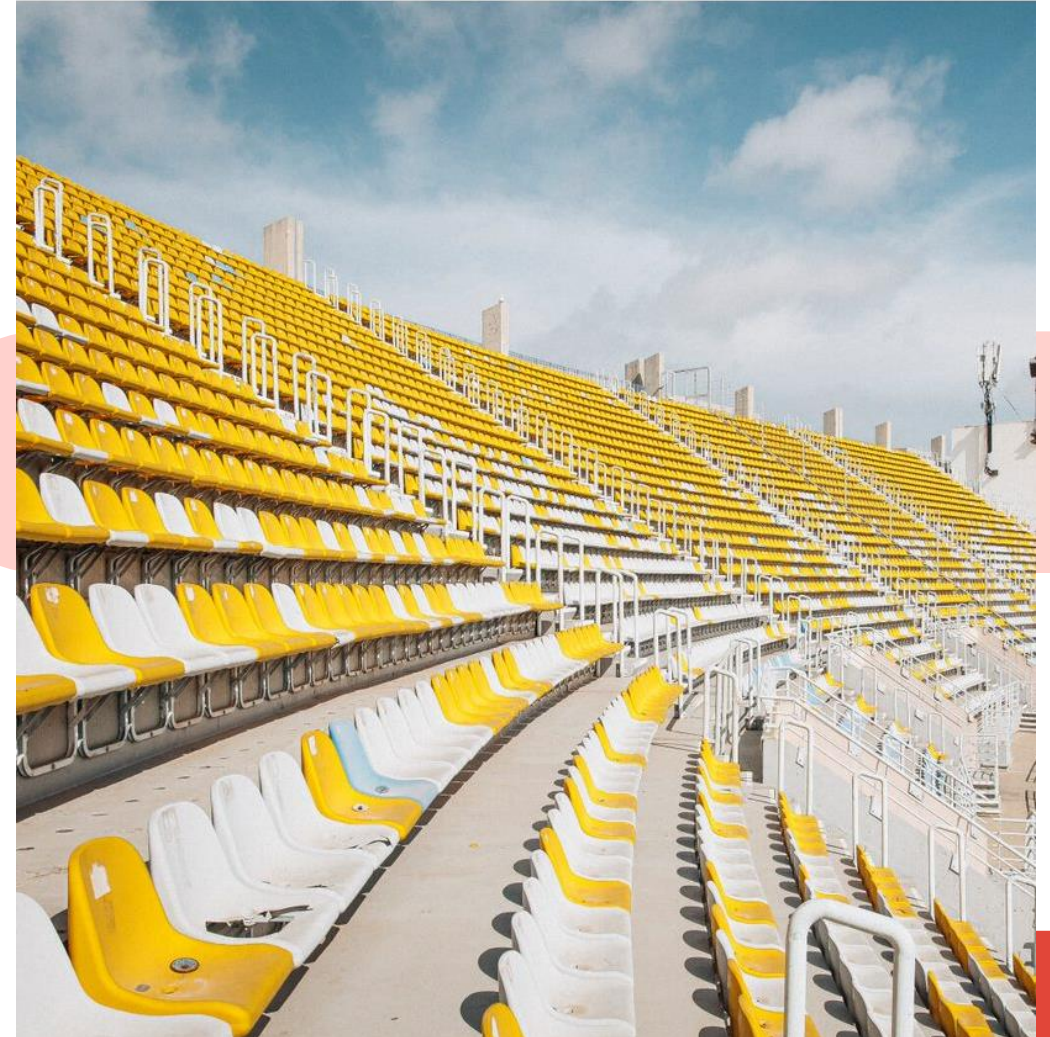


Higher categories' seats

- Seat width $\geq 0.6\text{m}$
- Row depth $\geq 1\text{m}$ for VVIP
- Row depth $\geq 0.8\text{m}$ for VIP



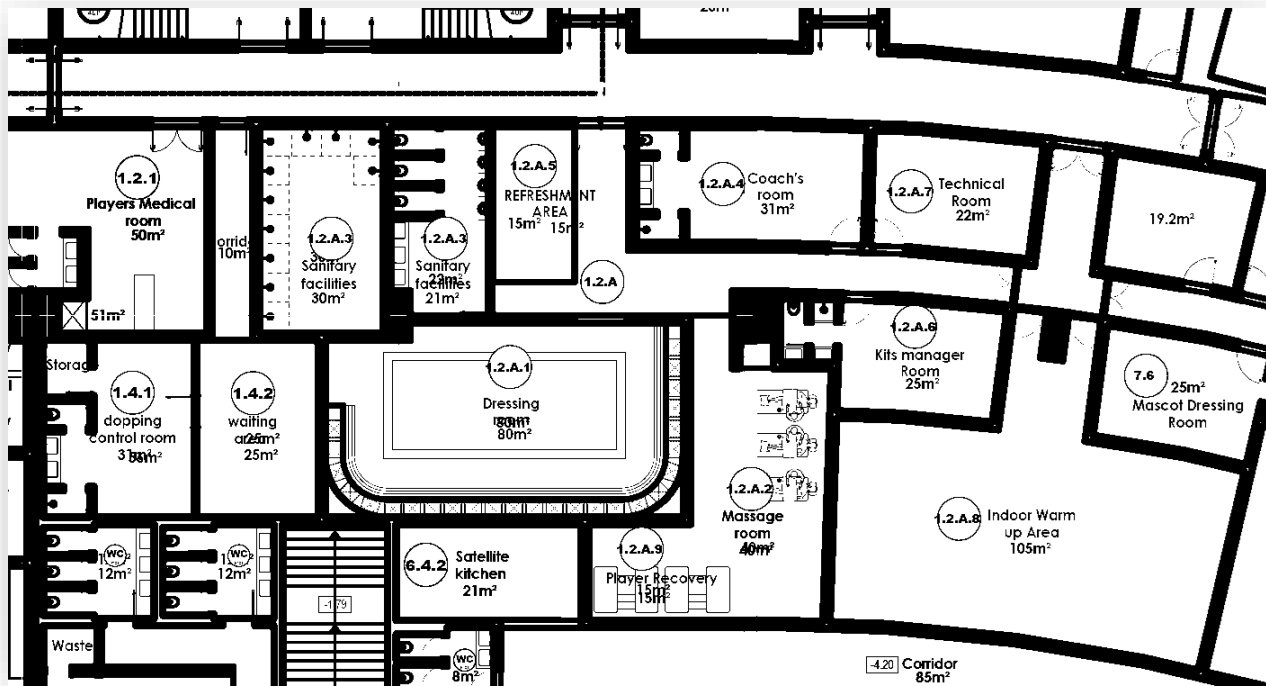
Accessible seats



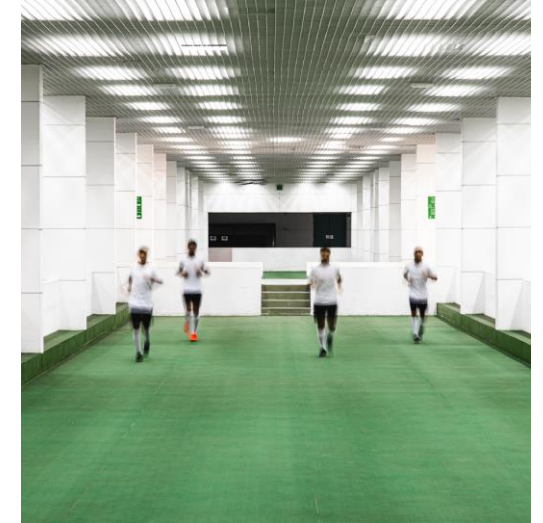


Competition facilities

Players installations



Eg : Tangier Stadium players' dressing room 2030 Design





Competition facilities

Pitch

6

Competition Pitches

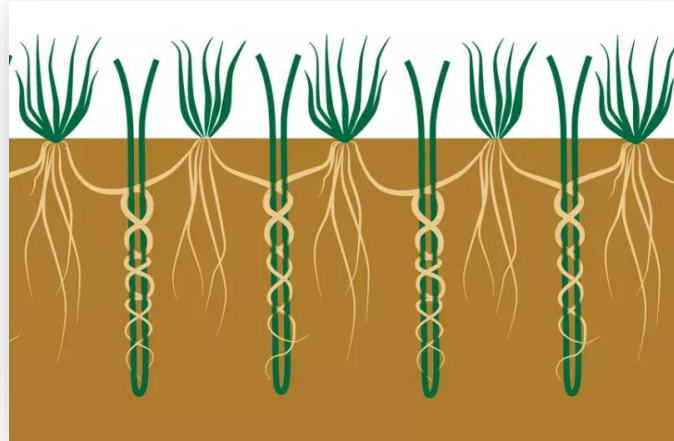
15

Training Pitches

Watering system



Hybrid turf



Draining system



© STRI

Light therapy



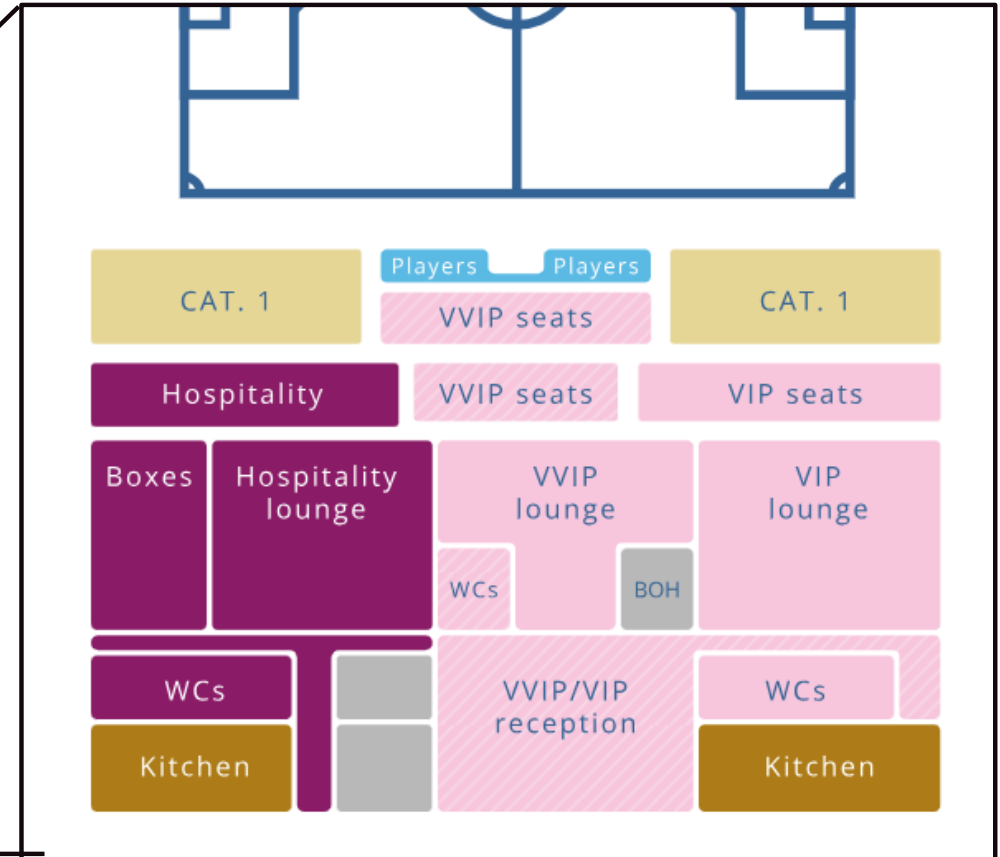
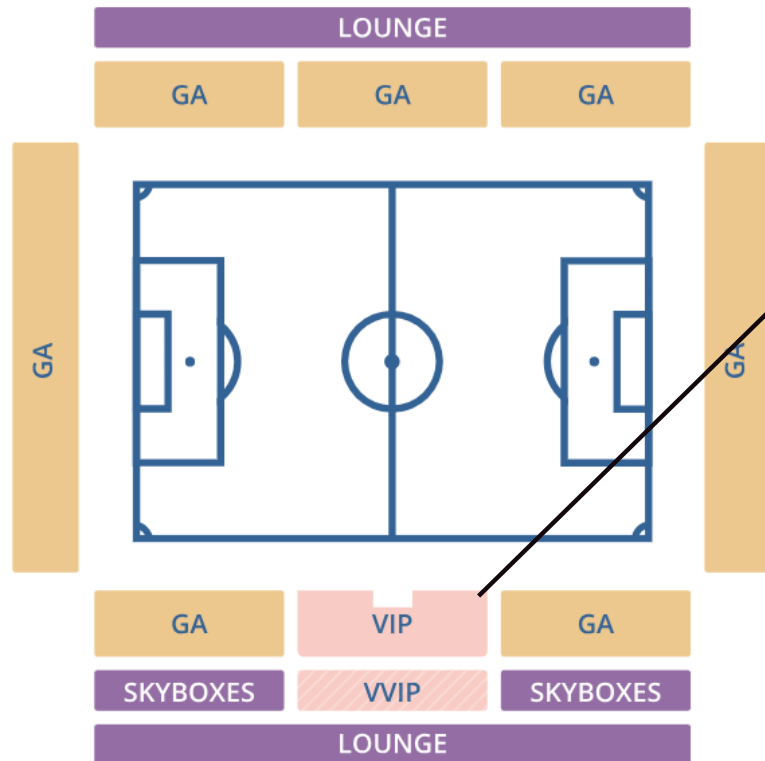
Grass cooling system





VIP and Hospitality

Capacity ≥ 60 000 seats





The floor plan of the 1st floor of the UMES Student Center is a complex, symmetrical layout. The central area is a large atrium with a high ceiling and a central staircase. This atrium is flanked by two large wings, each containing several classrooms and offices. The rooms are color-coded: blue for classrooms (4.2), yellow for offices (4.4), and pink for other rooms (4.2). The plan also shows the location of the main entrance, restrooms, and other facilities. The layout is designed to provide a central hub for student activities, with easy access to various rooms and services.

Legend:

- 4.2 Classroom (Blue background)
- 4.4 Office (Yellow background)
- 4.2 Classroom (Pink background)

Room Numbers and Names:

- 10.1 (Central Atrium)
- 10.2 (Central Staircase)
- 10.3 (Central Hallway)
- 10.4 (Central Hallway)
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- 10.99 (Central Hallway)
- 10.100 (Central Hallway)

-

-
- A modern lounge area with a large window overlooking a stadium. The room features dark wood paneling, a black sofa with a grey cushion, and a long wooden coffee table. Four high-top bar stools are positioned along the window. An air conditioner is mounted on the wall.

Eg : Tangier Stadium 2030 Design



Media facilities

Presse Conference Room

Equipped with a high-quality AV system to provide clear transmission of spoken-word content across the room.

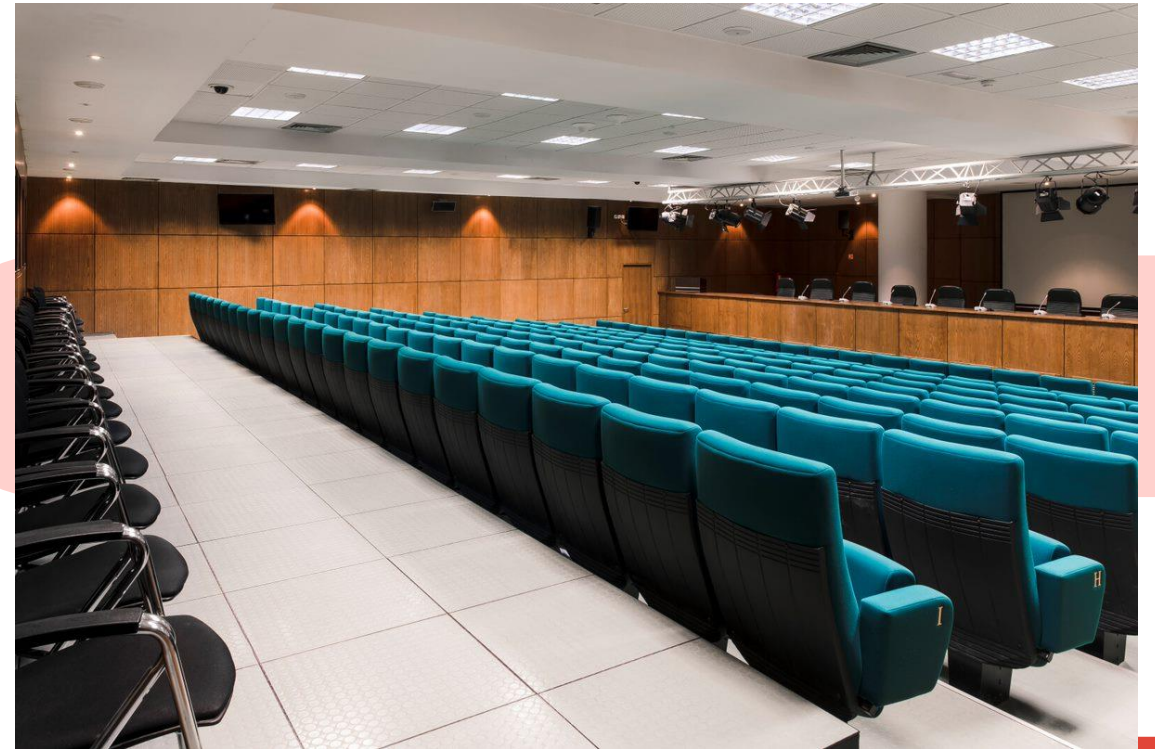
including:

Head table:

- Wired gooseneck microphones (x 6)
- Audio monitoring

Throughout the room:

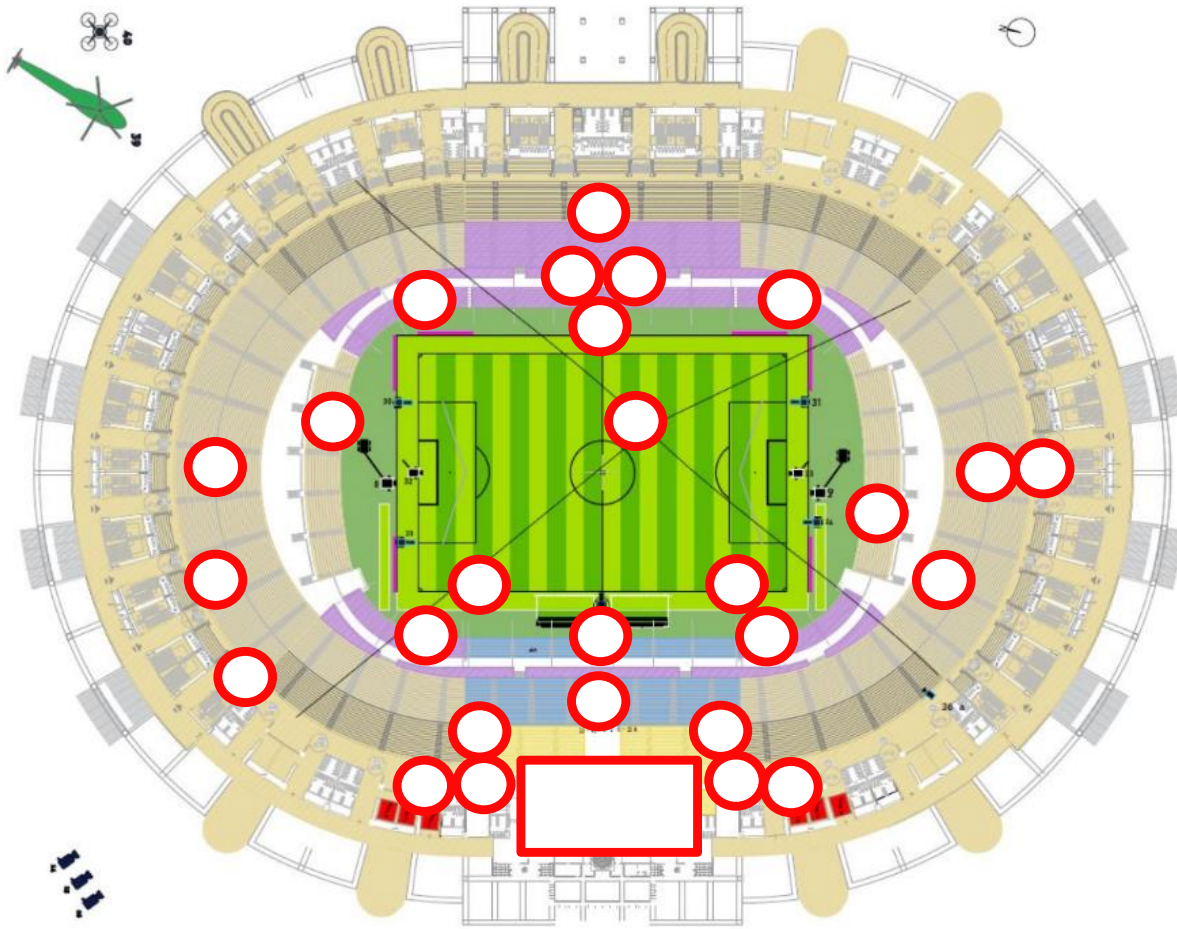
- Minimum of 4 loudspeakers
- 4 wireless handheld microphones for audience roaming
- 2 microphone boom poles,
- 2 to 4 large TV screens to display the press conference live broadcast feed



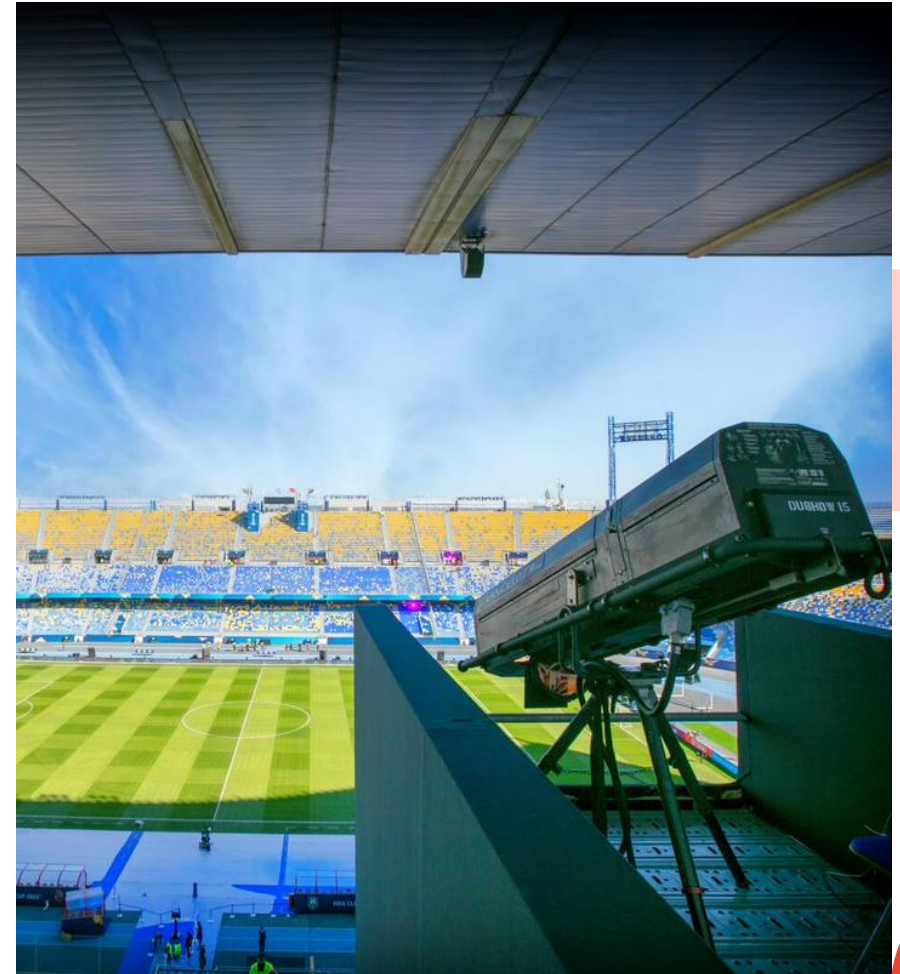


Media facilities

Camera Positions



Tangier stadium - 2030 Projections





Technological infrastructure



Lighting

Standard A according to FIFA lighting Guide

1.6. FIFA lighting standard A	
Ev 0° (vertical illuminance on 0° reference plane)	Minimum > 1,000 lux Average > 1,500 lux
Uniformity U1v-0°	> 0.50
Uniformity U2v-0°	> 0.60
Ev 90° (vertical illuminance on 90° reference plane)	Minimum > 1,000 lux Average > 1,500 lux
Uniformity U1v-90°	> 0.50
Uniformity U2v-90°	> 0.60
Ev 180° (vertical illuminance on 180° reference plane)	Minimum > 1,000 lux Average > 1,500 lux
Uniformity U1v-180°	> 0.50
Uniformity U2v-180°	> 0.60
Ev 270° (vertical illuminance on 270° reference plane)	Minimum > 1,000 lux Average > 1,500 lux
Uniformity U1v-270°	> 0.50
Uniformity U2v-270°	> 0.60
Eh (horizontal illuminance)	Minimum > 1,500 lux Average > 2,500 lux
Uniformity U1h	> 0.50
Uniformity U2h	> 0.70
Match continuity mode (MCM)	No disruption to light continuity is permitted
Flicker factor (FF)	average < 1% maximum < 1%
Minimum adjacent uniformity ratio (MAUR)	> 0.60 ≤ 10 failures
Colour temperature (Tc)	5,000-6,200K
Colour rendering (Ra)	≥ 80Ra
Glare rating (RG)	< 50
Maintenance factor (MF)	0.90 for LED 0.80 for HID



Technology Led

- **2 Giant Screens North and South End (200 m²)**

- Active video area: aspect ratio of 16:9
- Screen resolution: minimum HD (1920 x 1080px)
- Dot pitch: 6mm
- Brightness: min. 7,000 nits
- Screen refresh rate: >1,000 Hz
- The minimum viewing angle :
 - *Horizontal: -60°/+60° (120°)
 - *Vertical: -30°/+30°

- **Advirtising Boards**

- Approximately 252m of electronic (LED) advertising.
- Active screen height 90cm, unit height 100cm.



Technological infrastructure



PowerSupply

A stable and reliable power supply:

- Transformer Stations
- Generators
- UPS: Uninterruptible Power Supply



Network Architecture

Wired and wireless connectivity with the latest technology **Wi-Fi 6E** and the **6 GHz spectrum** ensuring:

- Availability
- Security
- Capacity
- Reliability



Public System Adress

A Powerful and reliable public Adress System:

- Entertainment purposes
- Emergency purposes



Closed-Circuit Television CCTV

A high-quality public surveillance television cameras that support:

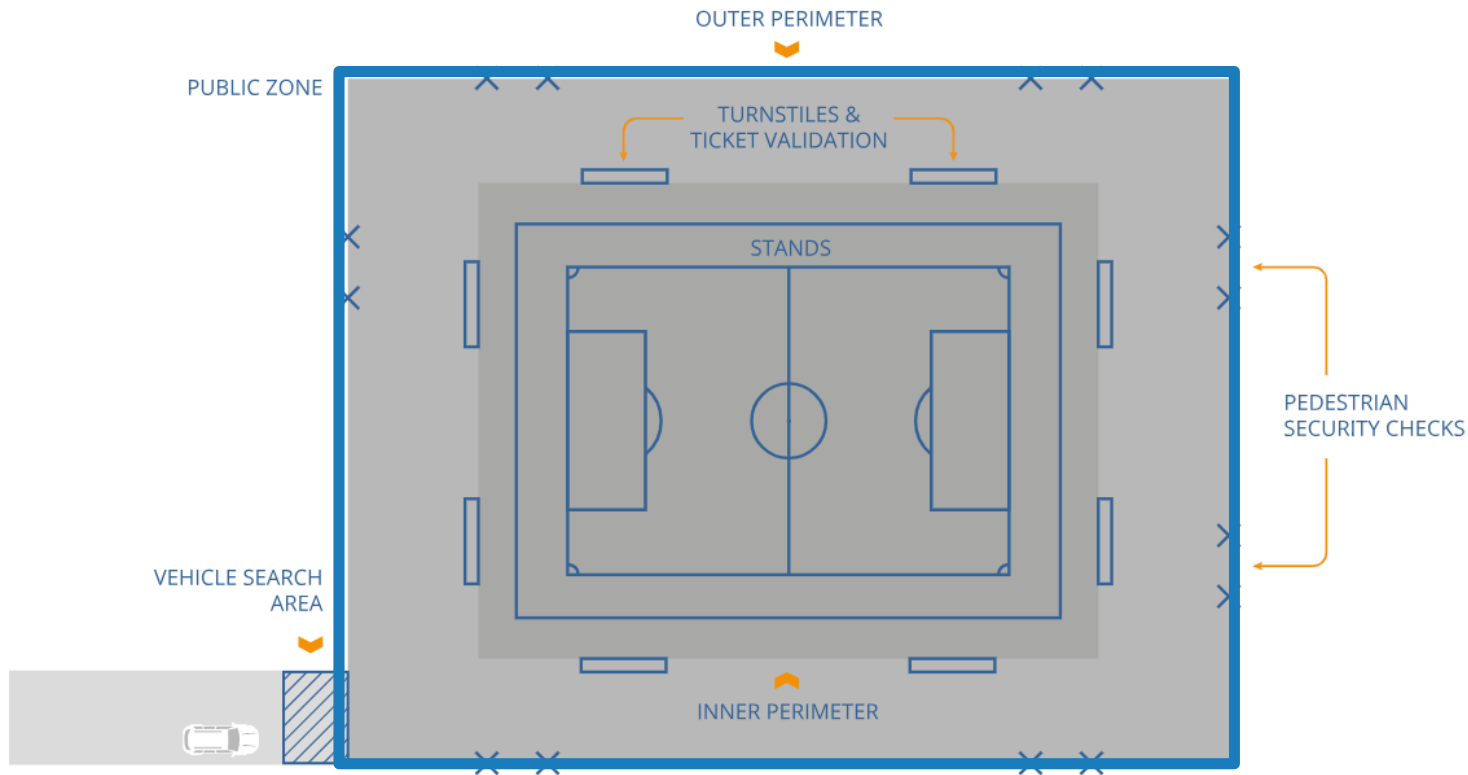
- Face detection
- Plate recongnition
- People counting
- Smart motion detection



Surrounding infrastructure



Outer Perimeter



Security Perimeter



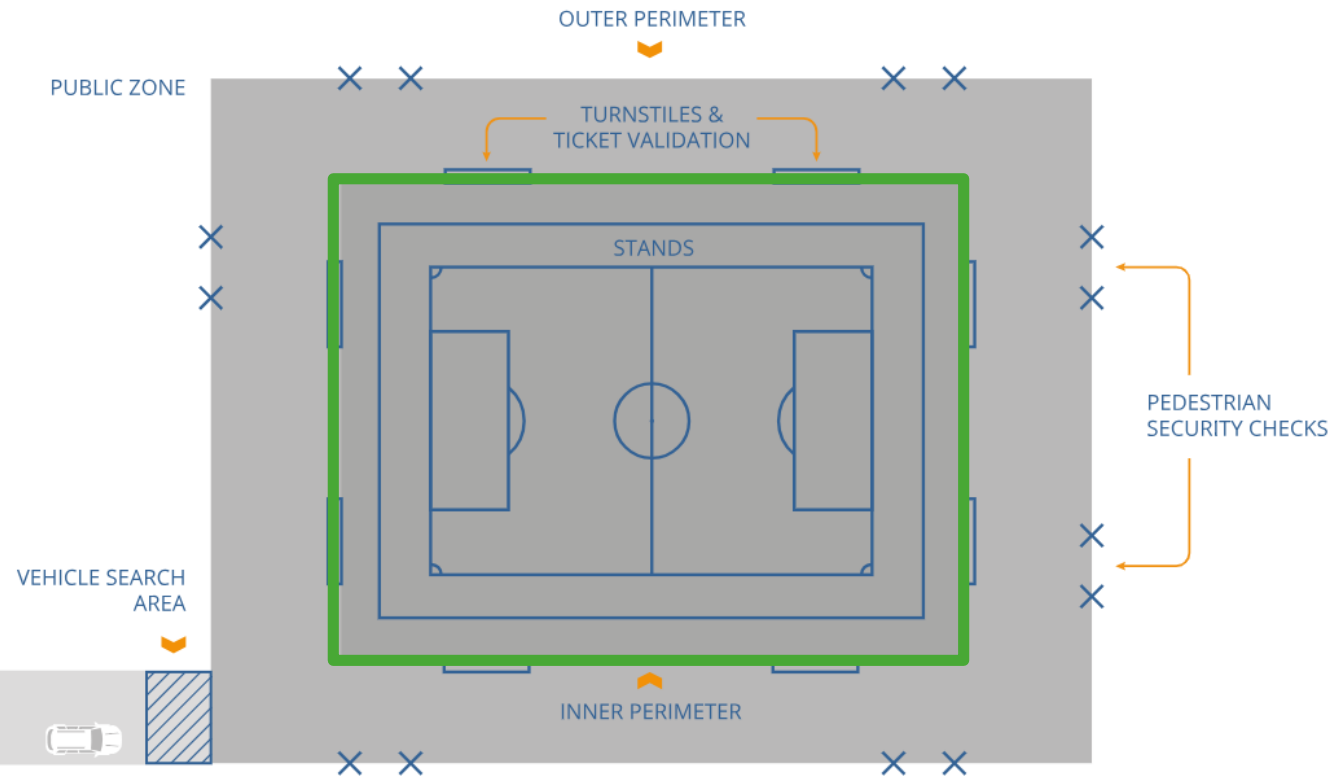
- Security perimeter of at least 2.5m in height
- Visual check of tickets
- Passes and accreditation processes
- Search and screening procedures
- Fences monitored by CCTV and/or security posts



Surrounding infrastructure



Inner Perimeter



Electronic Access Control



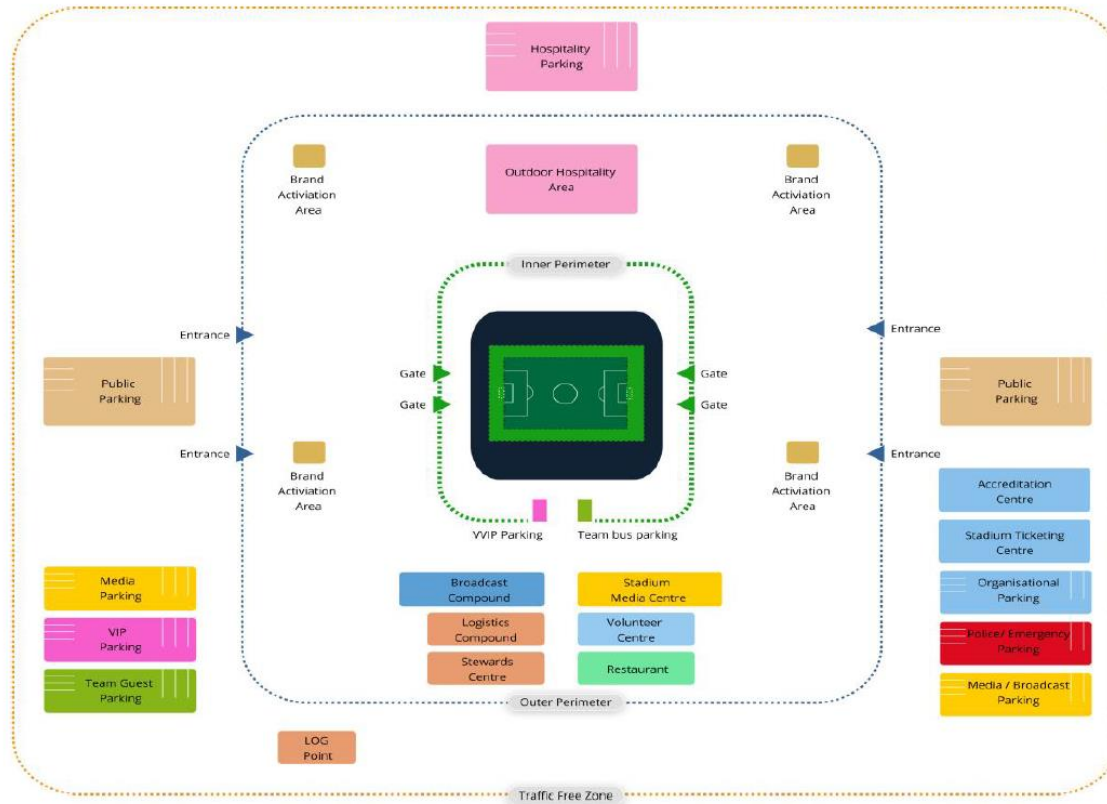
An electronic access control (EAC) system, **reliable, secure and high-performance verification of Ticket validity**, will act as the interface between the ticketing system and the operation of the turnstiles, and automatically provide the information required to monitor the flow of spectators into the stadium.



Surrounding infrastructure



Parking



INNER PERIMETER

- Teams and technical staff
- Match officials
- VVIP guests

OUTSIDE PERIMETER

- Team guests
- VIP guests
- Emergency services
- Organisation staff
- Broadcast and Media
- Hospitality
- Public spectators



Sustainable development

Project Challenges

During recent years, characterized by successive periods of drought and a continuous increase in water needs required for socio-economic development, conventional water resources have been subjected to strong pressure, manifested by a significant drop in groundwater levels.

The project is part of the government program in the field of water, which focuses on water efficiency, in order to address the water deficit and the increasing water needs.



Project Objective

In the same approach and in order to rationalize the consumption of drinkable water used for watering sports lawns and green spaces, SONARGES has initiated a reflection to use the treated wastewater from the cities' wastewater treatment plants to meet, wholly or partially, the needs for watering green spaces.

THANK YOU

SONARGES

The armed force of the Department in charge of
Sports in the management of major sports
infrastructures.

