



Arena of the Future

— INNOVATION CHALLENGE —

The Challenge

During the 5-week challenge, we will introduce you to several technologies that can be used to come up with your pitch ideas for the **Arena of the Future Challenge**.

Your ideas should make the arena:

- More efficient
- More sustainable
- More fan-friendly
- Safer

Types of Sustainability Technologies

1. Energy Efficiency Technologies:
2. Renewable Energy Technologies:
3. Green Building Technologies:
4. Waste Management Technologies:
5. Water Conservation Technologies:
6. Sustainable Transportation Technologies:

Safety in Arenas

1. Surveillance Systems:
2. Access Control and Ticketing Systems:
3. Metal Detectors and Baggage Screening:
4. Emergency Alert Systems:
5. Crowd Monitoring and Analytics:
6. Communication and Collaboration Tools:
7. Biometric Identification Systems:
8. Drones and Robotics:
9. Data Analytics and Predictive Modeling:

Types of Service Robots

1. Cleaning and Sanitization:
2. Security and Surveillance:
3. Delivery and Logistics:
4. Maintenance:
5. Smart Building Integration:
6. Customer Service and Hospitality:

The technologies that you will use will include:

- Sustainability technologies
- Robotics
- Automation
- Artificial intelligence
- Augmented reality

Types of Automation that can be used in buildings

1. Energy Management:
2. Security and Access Control:
3. Building Management Systems (BMS):
4. Smart Lighting:
5. Occupancy and Space Management:
6. Facility Maintenance:
7. Voice Control and Virtual Assistants:

How AI can be used for efficiency in buildings

1. Energy Management:
2. Predictive Maintenance:
3. Occupant Comfort and Experience:
4. Security and Surveillance:

How Augmented Reality can be used to create immersive experiences

1. Wayfinding and Navigation:
2. Real-time Interaction:
3. Gamification:
4. Arena Information:
5. Visual Overlays:
6. Immersive Brand Activations:
7. Live Streaming and Remote Participation:

Augmented Reality uses:

1. Computer Vision:
2. Object Recognition:
3. Depth Sensing: