















Table of Contents

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The IoT Challenge 2022 is conducted by the IoT Centre to empower entrepreneurs in creating innovative solutions and delivering products based on IoT technologies in various fields to make the most of these technologies and to promote innovation among local talents.

The goals of the challenge are:



Being a service that aligns with the Kingdom's vision in vital areas such as sustainability or non-oil revenue development.



Increasing the presence of local companies in the Saudi market, contributing to price diversity.



Raising awareness of IoT technology among those interested and working in commercial, industrial, and technological enterprises.



Focusing on globally trending sectors and implementing them on a local scale.

#تحدي

































Awards and Closing Ceremony

2 Jan

Mentoring Stage 20 - 24 Nov

Outcome:

Provided guidance sessions conducted by more than 10 mentors.

Received 30 revised initial design prototypes.

Received 30 professional investment pitches.





Training Stage 23 Oct - 10 Nov **Outcome:**

Training programs in the challenge sectors were provided in partnership with the Thakaa Group to 200 teams.



Registration Stage

10 Sep - 6 Oct

Over 2000 people have registered. Nine introductory and promotional meetings were held for the challenge.







Judging Stage 4-7 Dec

- Received 30 video clips.
- Preliminary judgment (December 4).
 - Final judgment (December 7).

Outcome:

10 winning teams

Qualifying Stage 13 - 17 Nov

- Received at least 50 initial design prototypes.
- Received at least 50 initial investment presentation models

Acceptance Stage 9 – 20 Oct

Completion of screening, with 200 ideas accepted, a total of over 600 members in the accepted teams.



مركز ذكاء



مرحلة التدريب **Training Stage**

فكرة ideas accepted individuals registered فرد مسحل!

مرحلة الإرشاد Mentoring Stage

From 200 teams

teams selected for the mentoring stage

> تم اجتياز لمرحلة الإرشاد

+ 70 جلسة إرشادية 70+ Mentoring Sessions

مرحلة التسجيل Registration Stage



327

عـددالــفـــــرق No. of Teams



70 **فكرة** في مسار

70 ideas in the entertainment sector

64 **فكرة** في مسار

sector

الـ64-ideas in the industrial



822

عدد الأفيكار No. of Ideas



2051

عدد المسجلين No. of Registrations



137

فكرة في مسار 137 ideas in

the transportation sector sector



125

فكرة في مسار

125 ideas in the environmental

tourism sector

+403

فكرة في مسار

403+ ideas in the

#تحدى_إنترنت_الأشياء













Strategic Partners



هيئة الاتصالات والفضاء والتقنية Communications, Space & **Technology Commission**

Partners of the Thakaa Center















Enabling Partners



























The prize value awarded to 10 winners from the strategic partner

The Silver Package of 300,000 riyals is awarded to 4 winners.

The prize value for each winner: 75,000 riyals

The Gold Package of 400,000 riyals is awarded to 4 winners

The prize value for each winner: 100,000 riyals

The Diamond Package of 300,000 riyals is awarded to 2 winners

The prize value for each winner: 150,000 riyals

#تحدي_إنترنت_الأشياء





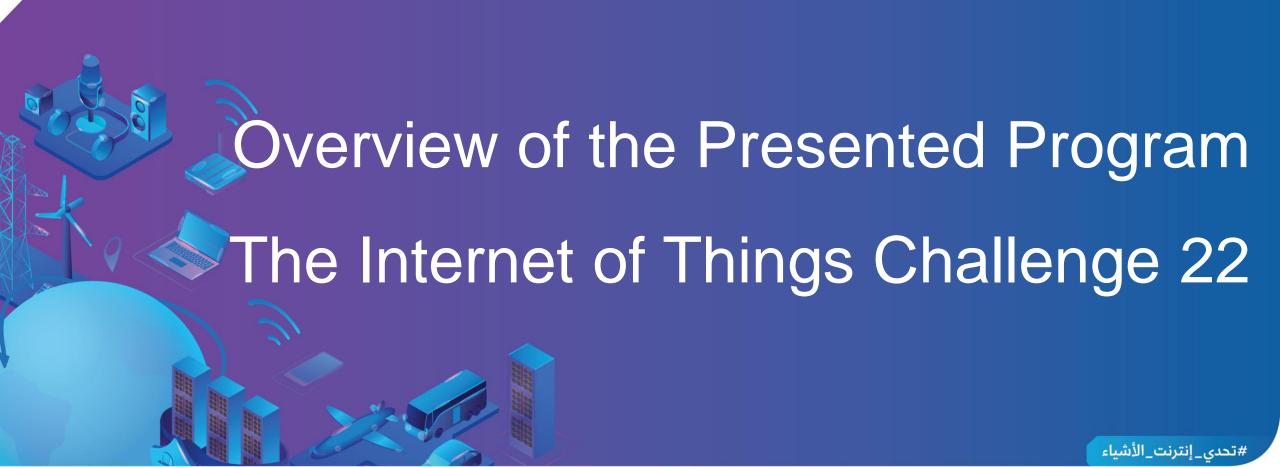
























Promotional Meetings for the Challenge



Program	Presenter	Time	Location
Meeting Internet of Things Applications Presented by Dr. Fares Al-Maliki	مرخبل المراجعة المرا	14 September 7-8 pm	In-person – Centre of Digital Entrepreneurship - Riyadh
Session Discover the Internet of Things Challenge 22!	مرکز ذکاء مرکز دکاء مرکز دکاء مرکز دیاء مرکز دیاء میرانده استان ا	21 September 6-8 pm	Online
Session Internet of Things and Industrial Automation Presented by Mr. Wissam Manshi	مرکز ذکاء monsha'at المنافعة المنافعة	27 September 7-8 pm	In-person – Centre of Digital Entrepreneurship - Riyadh
Session Cybersecurity for Equipment and Internet of Things Presented by Dr. Abdurlrahman Al-Aql	مركز زيادة الأعلام الدراة CENTER OF DIGITAL ENTREPRENEURSHIP	28 September 6-8 pm	In-person – Centre of Digital Entrepreneurship - Riyadh
Session Your Last Opportunity to Form a Team in the Internet of Things Challenge 22	مرکز ذکاء monsha'at	1 October 6-8 pm	Online
Session The Second Session of Discover the Internet of Things Challenge 22	مرکز ذکاء مرکز ذکاء مرکز دکاء مرکز دکاء مرکز دیاء شام استان	2 October 6-8 pm	Online
Session Develop Your Idea Before October 10th!	مرکز نکاء مرکز نکاء مرکز میشآت	6 October 6-8 pm	Online

Training Stage Agenda

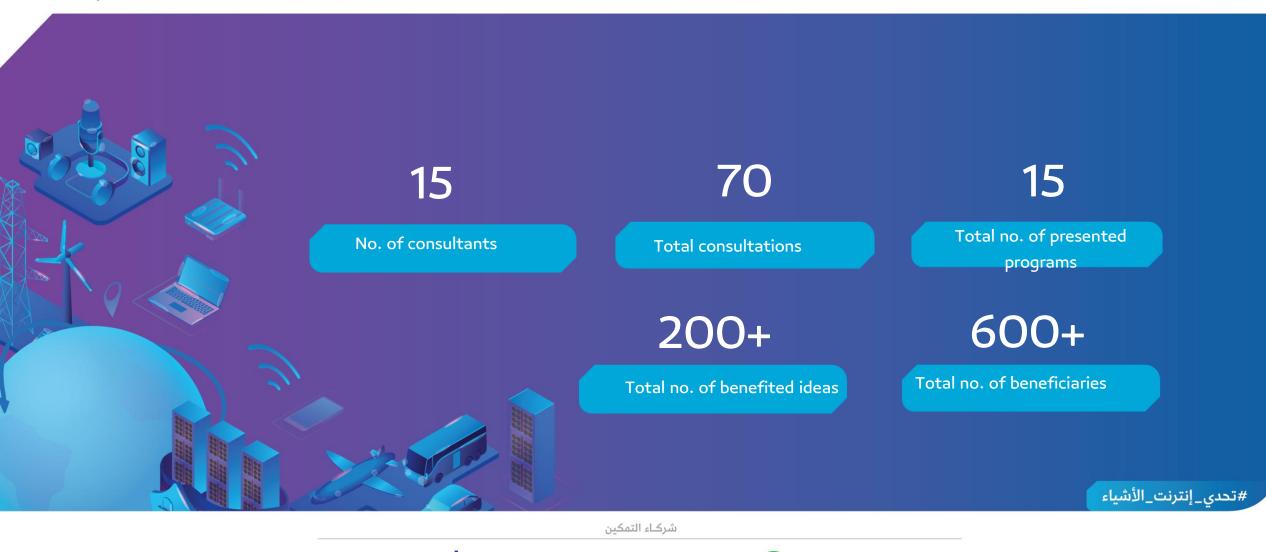
3 weeks (23 October- 10 November)



Program	Presenter	Time	Location
Introductory Workshop: Innovation and Entrepreneurship	مركز نكاء مركز البيئة والمياه والزراعة البيئة والمياه والزراعة والمراه والزراعة البيئة والمياه والزراعة البيئة والمياه والزراعة المراه المراع	23 October 6-8 pm	Online
Workshop: Smart Cities – Benefits and Exclusive Services for Beneficiaries	△ II Y	25 October 6-8 pm	Online
Workshop: Uses of Smart Safes	Shttle	26 October 6-8 pm	In-person – Thakaa Centre - Riyadh
Workshop: Model Investment Pitch	ELM	31 October 6-8 pm	In-person – Centre of Digital Entrepreneurship - Riyadh
Workshop: Artificial Intelligence and Smart Systems in Transportation and Traffic	LIBERT STATE STATE OF THE STATE	2 November 6-8 pm	Online
Training Camp: Basics of 3D Design, Basics of 3D Printing	Voxel [∞]	6-7 November 6-8 pm	In-person – Thakaa Centre - Riyadh
Training Camp: Internet of Things and Connecting Things to the Internet	مرکز زیادهٔ ایار المرکزی CENTER OF DIGITAL ENTREPRENEURSHIP	9-10 November 6-8 pm	In-person – Centre of Digital Entrepreneurship - Riyadh
Training Course: From Idea to Market <u>here</u>	تاشنه monsha'at	Always Available	Online









































Teaser and Launch



Publishing a Teaser Post



Invitation to Register Post





Registration Stage



Publishing a motion graphic video explaining the registration process



Introduction to the Challenge and its Stages

September until January



Intensifying the Promotion Campaign



Continually introducing the challenge sectors



Sharing the challenge through WhatsApp Groups



Publishing Promotional Interviews



Promotion using Influencers



Boosting the promotion of the challenge through SMS messages

September until January

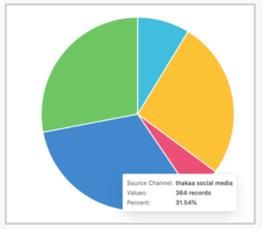


Intensifying the Promotion Campaign

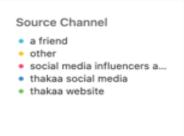
By intensifying marketing promotion during the registration phase across both primary and secondary platforms, registration numbers saw a significant increase within one week.

No. of Registrations











September until January

Reminder Stage





Posting reminders about the registration deadline



Training and Mentoring
Stages

September until January







Sharing the key figures of the challenge across social media platforms

Appreciation of the contributing mentors throughout the stages of the challenge

0 0

Preliminary Judging Stage

September until January



Appreciation of the judges of the preliminary judging stage



Announcement of the teams that have qualified for the final judging



September until January

Final Judging Stage



Posting coverage and highlights during the judging





Appreciation of the participating judges during the final judging

Posting a promotional photo coverage for the judging day

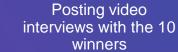


The Awards and **Closing Ceremony** September until January

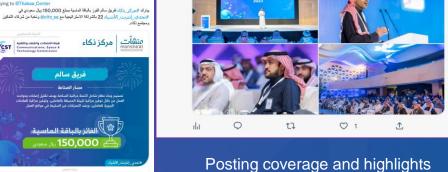


Post announcing the

winning teams







ركز نكاء | Thakaa Center 🤣 @Thakaa Center - Jan 2

نشار ككم مقتطفات من الحفل الختامي لـ #تحدي إنترنت الأشياء 22 بالشراكة الاستراتيجية مع

during the ceremony

citc_sa@ ونخبة من شركاء التمكين ومجتمع نكاء. 🦅 🌪

Posting a dedicated thread for the winners

Q1 tl

* The second sec

Thakaa Center 📀 @Thakaa Center - Jan 3 مركز ذكام

يبار له #عركز_ذكاء للربق Last Malle الغرز بالباقة الذهبية بمبلغ 100,000 ربال سعودي في

فریق Last Maile

ы100,000 *≟*

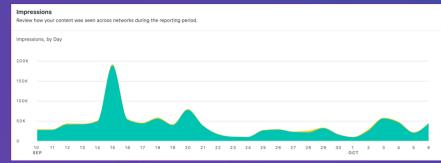
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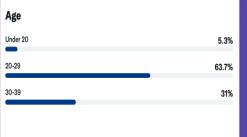
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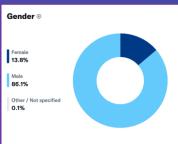


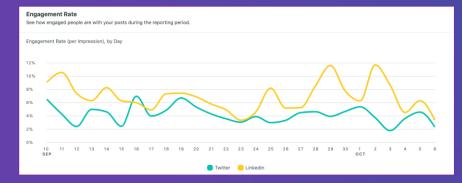
September until January

Key Marketing Figures for the Challenge











Additional followers during the registration stage

+1.500K



Visits to the account

+4.377K



Total interactions

+45.500 K



Total views

+175.300 K



Frequency of appearances

+1.110 M

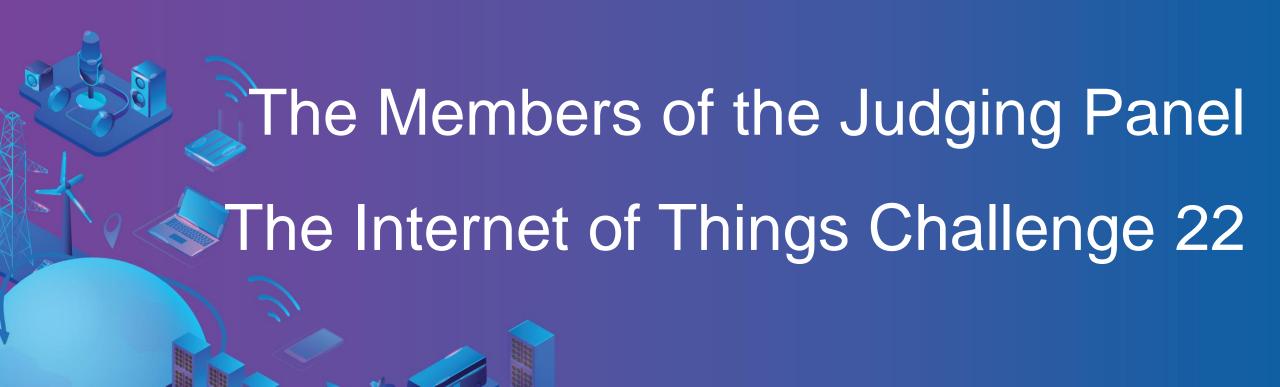


Clicks on links and details

+10K



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Preliminary Judging Panel



Mr. Ahmed Al-Majid

Director of the Emerging Technologies Incentive

Department

at the Communications and Information Technology

Commission



Eng. Mansour Al-Obaid

Head of the Information Technology and
Communications Committee at the Riyadh

Chamber



Ms. Maha Taybah

Human Development Consultant and
Investor

#تحدي_إنترنت_الأشياء

















The Final Judging Panel



Ms. Amal Asiri
Director of Higher Investments



Mr. Ahmed Al-Majid

Director of the Emerging Technologies
Incentive Department
at the Communications and Information
Technology Commission



Eng. Mansour Al-Obaid

Head of the Information Technology and
Communications Committee at the Riyadh
Chamber



Ms. Maha Taybah

Human Development Consultant and
Investor

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20 November – 24 November



Ghali Miyajan

Business Technology Consultant Thakaa Centre — Monsha'at

Area of Expertise

Growth strategies, technology deployment, business development, data analysis, and team management.

Book now



Abdulrahman Al-Ghamidi

Internet of Things Engineer Thakaa Center — Monsha'at

Area of Expertise

Developing and programming technical projects, and steps for transforming ideas into prototype models.

Book now



Mundhir Ar-Radi

Innovation Consultant
Thakaa Center – Monsha'at

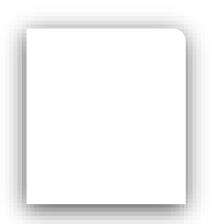
Area of Expertise

Modeling ideas using digital manufacturing techniques, adopting Internet of Things technologies, business development.

Book now



20 November – 24 November



Mishal Mohammed Al-Zahra

Team Leader, Internet of Things Communications and Information Technology Commission

Areas of Expertise

Internet of Things Technology,
Artificial Intelligence



Abdulaziz Al-Batli

Advisor to the Deputy Governor, Communications and Information Technology Commission

Areas of Expertise

Cloud Computing, Digital Transformation



Rayyan Fahad Al-Baraidi

Senior Specialist, Emerging Technologies Incentives, Communications and Information Technology Commission

Areas of Expertise

IOT - Smart Cities - LPWAN - Telecom - Regulation and Compliance

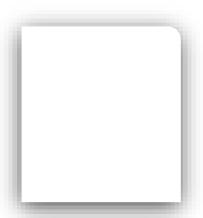
Book now

Book now

Book now



20 November – 24 November



Riham Rashid Ar-Rashid

Electrical Engineer
Digital Entrepreneurship Center
CODE

Areas of expertise:

Electronics and programming, Internet of Things technology, digital manufacturing

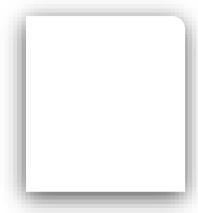
احجز الآن



Murtadha Al-Nasser

Lab Supervisor
Digital Entrepreneurship Centre CODE

Area of Expertise
Internet of Things Technology



Umar Usama Kaboush

Business Developer
Digital Entrepreneurship Center CODE

Areas of Expertise

Preparing work mechanisms and determining the appropriate revenue model, SWOT analysis

احجز الآن

احجز الآن



20 November – 24 November



Hamoud Aqla Al-Harees

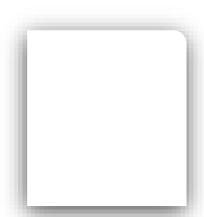
COO

Jasser

Areas of Expertise

Business development and operations management

Book now



Adil Abdulkareem Mazi

Chief Executive Officer
AHOY Software Company for
Information Systems Technology

Areas of Expertise

Technical business development and sales

Book now



Dr. Mohammed bin Hamad Al-Manae

Assistant Professor of Transportation and Traffic Engineering
King Saud University

Area of Expertise

Artificial Intelligence Applications in Traffic Engineering

Book now



20 November – 24 November



Ghassan Abdullah Al-Hazaa

Co-Founder Voxel 3D

Area of Expertise
Entrepreneurship, especially
in the field of advanced
industries

Book now



Wissam Abdulkhaleq Manshi

Chief Executive Officer
Smart Methods

Areas of Expertise

Control systems, robotics, and artificial intelligence

Book now





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Preliminary Judging Criteria



4 December

Sequence	Criteria	Main Points	Weighted Marks
1	Concept Stage	Is the product new and not entered the market before?	10
2	Magnitude of Impact	Is there a clear added value for the proposed solution? Does the proposed solution address the problem or contribute to its resolution?	20
3	Creativity and Uniqueness	Is the proposed solution new in the Saudi market? Is it innovative? Has technology been employed in a new and suitable way to solve an existing problem or improve the current situation?	10
4	Preparedness of the Business Plan	Is the proposed business model good? Does the team have a clear plan to generate profit?	10
5	Ability of the Team to Implement the Idea	Has the team built an initial prototype of the idea? Does the team have the qualifications to continue working on the idea?	40
6	Scalability	Can the enterprise expand after launching the product? Can they enter other sectors or markets? Is it possible to reach new customer segments?	10

Final Judging Criteria



7 December

Sequence	Criteria	Main Points	Weighted Marks
1	Magnitude of Impact	Is there a clear added value for the proposed solution? Does the proposed solution address the problem or contribute to its resolution?	20
2	Creativity and Uniqueness	Is the proposed solution new in the Saudi market? Is it innovative? Has technology been employed in a new and suitable way to solve an existing problem or improve the current situation?"	20
3	Preparedness of the Business Plan	Is the proposed business model good? Does the team have a clear plan to generate profit?	10
4	Ability of the Team to Implement the Idea	Has the team built an initial prototype of the idea? Does the team have the qualifications to continue working on the idea?	30
5	Scalability	Can the enterprise expand after launching the product? Can they enter other sectors or markets? Is it possible to reach new customer segments?	20



هيئة الاتصالات والفضاء والتقنية & Communications, Space Technology Commission





Preliminary Judging

The Internet of Things

Challenge 22

#تحدي_إنترنت_الأشياء

شركاء التمكين













Team Members:

Ibrahim Al-Dosari - Business Manager Hadi Al-Hanfoush - Software Manager Fadi Al-Hanfoush - Hardware Manager



Idea Description:

A system for diagnosing the performance and faults of a car.

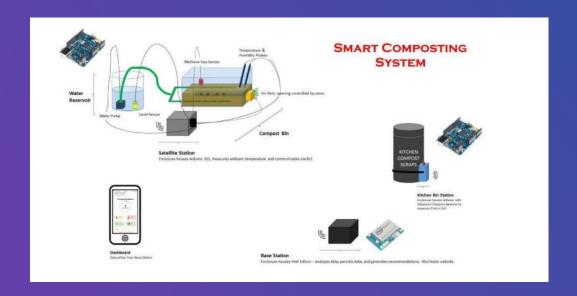




Garage

Team Members:
Habib Al-Mousa - Executive and
Marketing Director
Saleh Ali Al-Muslim - Technical Partner
and Developer

Sector: Environmental





Idea Description:

An electronic panel connected to sensors that measures and monitors the suitable conditions for natural fertilizers, aiming to reduce carbon emissions by relying on simple and effective technological solutions.



Amal Badiab - Electrical Engineering student Rana Al-Mahmadi - Electrical Engineering student Shatha Al-Ghamdi - Industrial Engineering student Layan Abdullah - Electrical Engineering student

Sector: Transportation





Idea Description:

The Shelf Project is an Internet of Things application. It is simply the connection of shelves in stores to a mobile application. By linking surveillance cameras to the application, it becomes possible to identify the most in demand and consumed products. This is achieved by programming the cameras to automatically calculate the quantity of goods.

Team Members:
Basma Bajkhaif - Graphic Designer
Ibrahim Al-Ghalayini - Mechanical Engineer

Abdullah Al-Juhi - Production Engineer

Osama Badghish - Programmer

Wissam Bamousa - Industrial Engineer



Sector: Environmental



Idea Description:

Farragh is a service provided through an application that allows customers to:

- Measure the level of wastewater in the tank.
- Receive alerts when the tank is full.
- Connect with wastewater disposal companies.

Team Members:
Tahani Al-Mutawa - Project Manager
Mohammed Abdulatif - Public Relations
Fatima Mohammed - Designer

Abdullah Al-Dakhil - Programmer

Sector: Tourism

Idea Description:

A digital application that includes:

- Efficient digital utilization of technology in the field of tourism and hospitality.
- A customer experience characterized by comfort and integration.
- Cost, time, and effort savings for hospitality establishments.





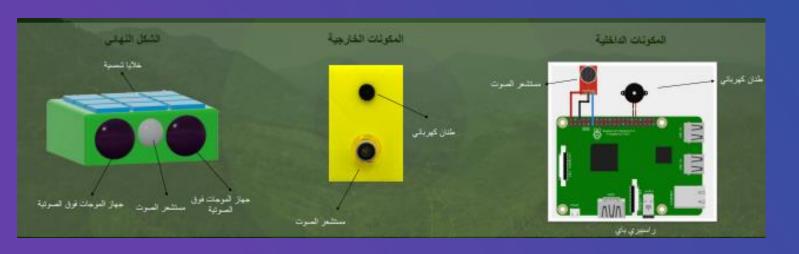


Team Members:

Mohammed Al-Maliki Artificial Intelligence Engineer and Data Scientist at WAKEB Company

Shahd Al-Mutairi
Data Analyst at the Social
Development Bank

Sector: Environmental



Idea Description:

A product that relies on Internet of
Things and artificial intelligence
technologies to analyze bird sounds.
It identifies the species and location
of birds, distinguishing between local,
migratory, and endangered birds.

Team Members:

Reyuf Al-Sha'ary - Biomedical Engineering Nada Rambo - Computer Engineering and Artificial Intelligence Khaled Abdulghani - Web and Application Developer Kamil Tahir - Computer Engineering and Artificial Intelligence



Sector: Environmental



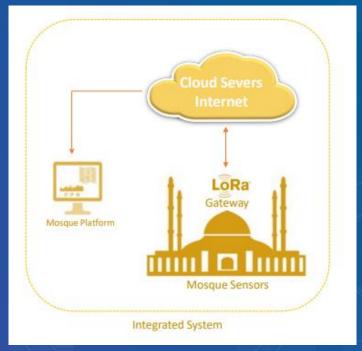
Idea Description:

An IoT device with a built-in camera, supported by artificial intelligence technology to assist in detecting gas leaks in factories and determining the size of the leak. The thermal camera captures videos and sends them to an artificial intelligence model for analysis.

Team Members:

Dr. Ahmed Al-Juhani - Ph.D. in Computer Science Eng. Younis Al-Anazi -Masters in Computer Science

Sector: Industrial



Smart Mosques Maintenance Application

Idea Description:

The Smart Mosques platform utilizes Internet of Things technology for intelligent control and monitoring of mosque resources. This platform generates reports and notifications for monitoring electricity usage, air conditioning, temperature, potential theft, and water consumption. Additionally, it leverages solar energy in case of power outages.

Team Members

Mohammed Ali Mahzari - Ph.D. Student in Computer Science

Dr. Khaled Jaber Al-Maliki - Assistant Professor in the

Department of Computer Science

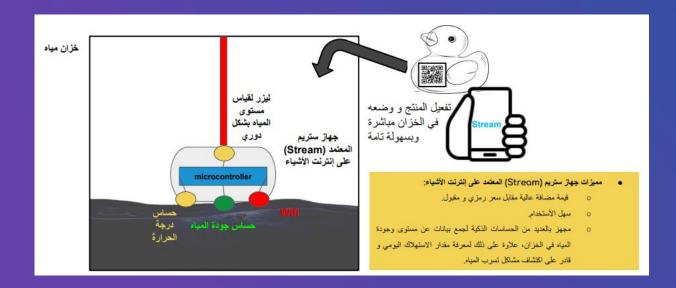
Dr. Sahar Mohamed Al-Deeb - Assistant Professor in the

Department of Computer Science

Dr. Awatif Salem Al-Obeid - Vice Dean of the College of

Computer Science and Information Technology

Sector: Industrial





Idea Description:

Stream is a digital platform aimed at improving the management of water supply chains and logistics services using Internet of Things and artificial intelligence technologies. Stream collects and processes daily water consumption data from customers and provides a direct connection between customers and water transportation service providers.

Team Members:

Abdulraheem Hamdi - Legal Khaled - Electrical Engineer Islam Najeeb - Programmer and Technical Support Deema Al-Shammari - User Interface Designer Mohammed Al-Balawi - Website Designer

Sector: Tourism



Smart Route Company

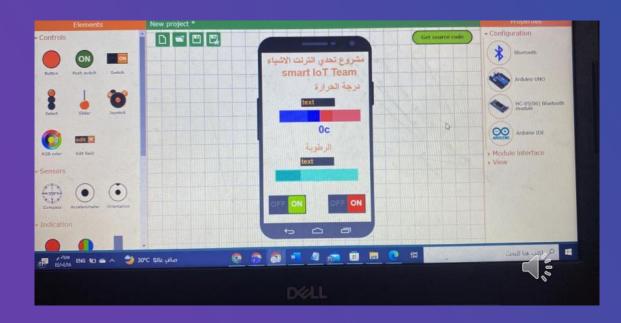
Idea Description:

A bike rental project in tourist areas through the Internet of Things.

Team Members:

Yahya Mureer – Master's in Educational Technology Ahmed Mureer - Master's in Data Analysis Nouma Mureer - Bachelor's in Mathematics Fahd Mureer - Bachelor's in Art Education





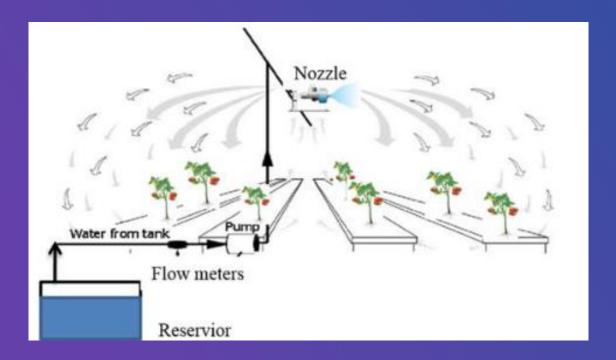
Sector: Environmental

Idea Description:

A project for the protection and care of bees through the Internet of Things.

Team Members:

Dania Al-Shuaibi - Electronics Engineering
Hind Al-Rashed - Electronics and Computer Engineering
Marwa Bakour - Electronics and Computer Engineering



Faseelah App

Sector: Environmental

Idea Description:

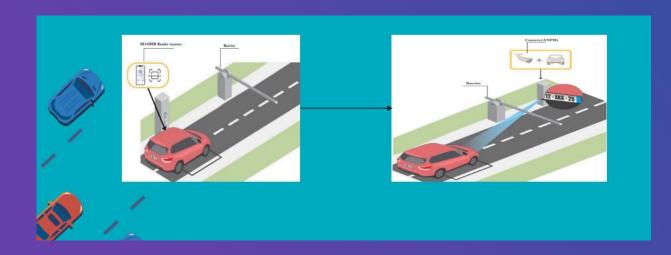
A self-sustaining system based on artificial intelligence to improve gardening conditions.

Team Members:

Fatima Saad Al-Buqami - Information Systems Student Abrar Al-Wuqdani - Computer Engineering Student Shamoua Al-Thubaiti - Computer Engineering Student



Sector: Transportation



Idea Description:

An app linked to a device that allows you to know if a destination has available parking spaces and provides information about expected waiting times.



Team Members

Mohammed Al-Ahaidib - Artificial Intelligence Engineer Saud Awad - Data Scientist

Dr. Majdool Safran - Faculty Member

Dr. Sultan Al-Farhood - Faculty Member

Sector: Tourism



Idea Description:

The Visiontera platform automatically and instantly analyzes the activity and behavior of website visitors using Internet of Things and artificial intelligence technologies.

Team Members

Mohammed Al-Saad - Founder Yazeed Al-Taweel - Developer Sultan Al-Amberi - Developer Khaled Saleh - Operations Manager Abdulhadi Al-Qahtani - Co-founder







Idea Description:

A small device connected to smart screens in restaurants and cafes, allowing remote control of the screen and uploading visual and audio content through a mobile phone without the need to be present at the screen location. Additionally, the development includes a sensor that provides an alert in case of power outage or screen closure.

Team Members

Talal Bashamil - Cybersecurity Specialist Ayaat Al-Sayed - Technology Specialist Mustafa Al-Hamad - Artificial Intelligence Specialist Amal Al-Otaibi - User Interface Design Touleen Al-Amoudi - Programmer

Sector: Transportation



SEVEN ROADS

Idea Description:

A platform that organizes transportation between cities and distances exceeding 60 minutes. It utilizes various devices including mobile phones, vehicle sensors, a vehicle inspection device, and a database connected to a server within the country to achieve maximum data confidentiality. The system is managed through an administrative dashboard, integrating all devices to provide data for study and analysis through artificial intelligence.

Team Members:

Al-Jawhara Al-Rashdan - Software Engineer Yadma Al-Sulami - Software Engineer Manar Al-Dafayan - Software Engineer Deema Al-Harbesh - Software Engineer Ghaliya Aqeel - Software Engineer

Sector: Transportation





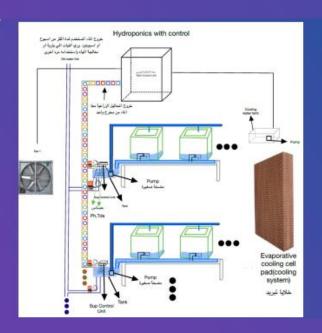
Idea Description:

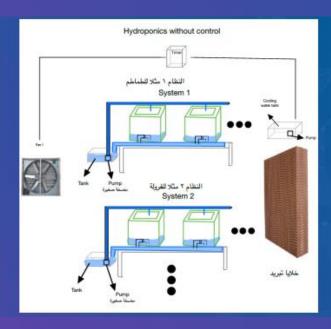
The QuickPark application provides a parking reservation service for a nominal fee. Users can specify the entry and exit times and have the option to extend. Upon confirmation, the user receives a QR code, which is scanned using an external device for entry and exit. Our application utilizes artificial intelligence (computer vision) and sensors to ensure the availability of parking spaces.

Team Members

Dr. Abdullah Al-Zahrani - Electronics Engineer Abdulrahman Al-Fakhri - Electronics Engineering Student Rayan Qattan - Electronics Engineering Student

Sector: Environmental





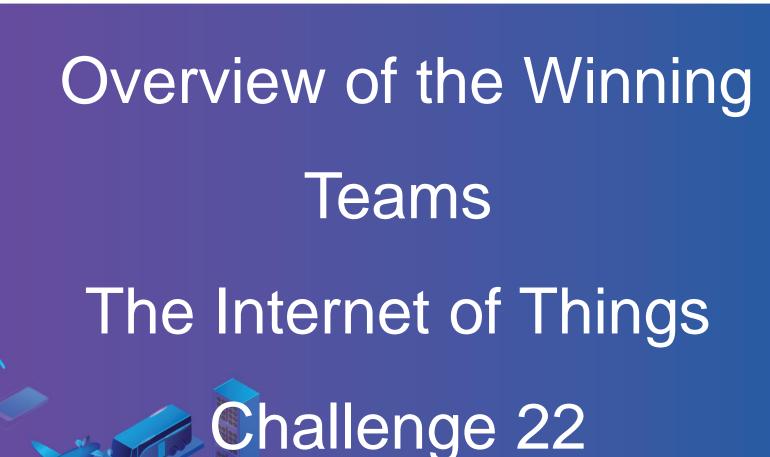
Idea Description:

The Smart Control Box for Hydroponic Farm, Box Intelligent Hydroponics Control, involves designing a main and subsidiary unit to fully automate and control the hydroponic farm. The attached file contains a complete explanation along with designs and drawings.



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The Winners of the Diamond Package: Team My Farm





Team Members:

Mohammed Mubarak - Bachelor's in Electrical Engineering Muntathir Al-Saleh - Bachelor's in Electrical Engineering Hani Al-Rumaih - Bachelor's in Mechanical Engineering Jihad Al-Thanayan - Bachelor's in Software Engineering



Sector: Environmental

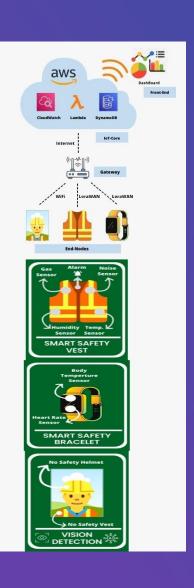
Idea Description:

A project that assists farmers in managing their farms easily in all aspects of agriculture, based on the concepts of precision farming and the Internet of Things.

It features:

- Solving agricultural problems such as water scarcity in fields and predicting soil moisture, taking into consideration climate, seasonal, and spatial changes.
- Flexibility in covering areas as needed, low energy consumption, and solar-powered charging for IoT devices.
- Compact size suitable for agricultural fields and IoT devices.

The Winners of the Diamond Package: Team Salim



Team Members:

Mohammed Al-Harbi - Master's in Internet of Things Musa Al-Akash - Master's in Internet of Things Fahad Al-Mutrefi - Bachelor's in Electrical Engineering Hussein Al-Jumaa - Engineer at Aramco Ahmed Al-Musharraf - Master's in Internet of Things

Sector: Industrial

Idea Description:

Designing and building a comprehensive system for automating safety monitoring, with the aim of reducing work-related injuries and accidents by providing environmental monitoring for workers, monitoring vital signs, and detecting unsafe behaviors at work sites.

The Winners of the Gold Package: Team Juziyaat



Team Members:

Mohammad Al-Baiti - Team Leader Mohannad Al-Qurashi - Idea Owner Abdullah - Electrical Engineer Khaled - Computer Engineer Abdulaziz - Software Engineer Maha - Product Designer Tariq - Electrical Engineer



Sector: Environmental

Idea Description:

A smart float to monitor daily water consumption and automatically shut off the water valve in case of any leakage.

The Winners of the Gold Package: Team TKRM





Naif Al-Muqbil Ahmed Al-Samaani Sami Al-Muqbil





Idea Description:

A tourism solution to enhance the experience of tourists, allowing access to nearby restroom facilities. This is achieved by utilizing restroom facilities in commercial establishments, restaurants, and cafes around the user and connecting them through an app. The app provides information on the nearest available restroom, accessible through a barcode scan for a nominal fee. The idea ensures the cleanliness of the facilities, offering the potential for increased income for business owners and an improved experience for tourists.

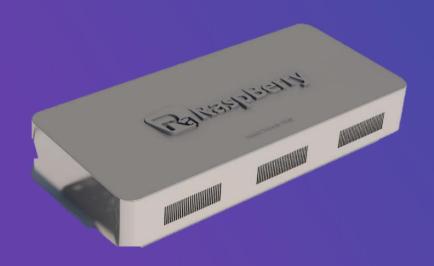
The Winners of the Gold Package: Team XEFOX



Team Members:

Mohammed Dames - Systems Engineer Ahmed Al-Ghamdi - Electronics Engineer Rafida Hamza - UX/UI Designer

Sector: Transportation



Idea Description:

An intelligent system designed to be installed on the infrastructure of traffic signals, bridges, and tunnels; to facilitate traffic flow, provide early prediction of problems before they occur, and automatically direct traffic and field teams to the areas most in need of emergency intervention.

The Winners of the Gold Package: Team Last Maile







Team Members:

Fahd Al-Muntasir - Bachelor's in Business Administration Jari bin Abdullah - Bachelor's in Business Administration Maha Al-Asmari - Bachelor's in Computer Science

Sector: Transportation

Idea description:

Receiving personal shipment orders conveniently and easily by placing them in a smart and automated box controlled through a simple smartphone application, using a barcode sent to the courier to open the box without the need for your presence at the location.

The Winners of the Silver Package: Team PASJ







Fahad Al-Juaidan – Business Developer Khawla Al-Ahaidib – Project Manager Saud Al-Shamsi – Programmer

Sector: Industrial

Idea Description:

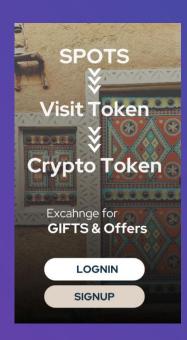
A new invention that operates on both traditional and alternative energy, addressing work challenges in exposed areas, providing a better work environment, and improving the quality of life. This device is attached to the safety vest, containing equipment within a small, lightweight box mounted on the back.





The Winners of the Silver Package: Team Token







Team Members:

Muhanad Al-Mamoun: Systems and Innovation Engineer Zaid Abu Jabara: Control and Applications Engineer

Abdulaziz Al-Ghamdi: Marketing

Sector: Tourism

Idea Description:

A new digital rewards system for tourists using IoT and blockchain technologies, providing visitors to Saudi Arabia with unforgettable sensory and digital experiences. The system offers the Tourism Board reports on thoughtful interactions with tourists at every step within the Kingdom.

The Winners of the Silver Package: Team Technological Risk Prevention



Team Members:

Jameel Al-Sahli - Master's in Crisis and Disaster Management. Sara Al-Sahli - CEO of Seen Digital Marketing Company.

Sector: Transportation

Idea Description:

An innovative patented device that serves as an early warning system for the imminent danger of flash floods directly affecting people. The device is easily understandable for everyone, helping convey the idea of the flood danger without the need to follow weather updates. It provides accurate information about the depth of the flood, transmitting all data to emergency rooms monitoring roads, riverbeds, water movement, environmental studies, and water levels in wetland basins. It also assesses water levels in tunnels and enclosed spaces.

The Winners of the Silver Package: Team Tafany







Team Members:

Reem Al-Musaylim – Diploma in Information Technology Khalifa Al-Musaylim – Bachelor's in Civil Engineering Batool Al-Yami – Diploma in Information Technology

Sector: Transportation

Idea Description:

Automating the process of delivering online orders received from the branch by providing smart lockers as self-pickup points inside the branch. The solution will facilitate order pickup at any time, enhancing the user experience.



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The Journey of the Participant After the Competition:

Market Entry

60 days

Providing guidance on:

- Website development
- Establishing social media accounts
- Reviewing company profiles
- Business model
- Pricing model
- Marketing plan





Registration Procedure 60 days

- 1- Formation of an entity (company or institution)
- 2- Setting up a bank account for the entity



Developing the Minimum Viable Product (MVP) 120 days

Providing guidance in specifying technical

requirements during the development stages of

the Minimum Viable Product (MVP).

Requirements for Receiving the Prize

Schedule for Receipt (Proposed)	Requirements at the Stage	Percentage	Percentage of the Prize	Stage
January 2023	After the closing ceremony, within a period not exceeding one month	40%	40% of the prize	Award
According to the Progress of the Team	Completion of the work team	10%		
	- Completion of the establishment procedure - Issuance of a commercial register - Obtaining the necessary permits and licenses	5%	30% of the prize	Completion of the Foundations
	Completion of the initial prototype	10%		
	Creating the website and social media accounts	5%		
According to the Progress of the Team	Creating a plan for product launch in the market	2%		
	Developing a marketing plan for the product	2%		Readiness of the
	The technical readiness of the minimum viable product and its market presentation capability	2%	10% of the prize	Product for the Market
	Launching the product in the market and collecting feedback and comments	2%		
According to the Progress of the Team	Completing 10 consulting hours with the Thakaa Center	2%		Company Launch
	Making the necessary modifications based on customer feedback	10%		
	Launching the final product in the market	5%	20% of the prize	
	Selling the first model of the product	5%		



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شركاء التمكين











