360
EXTRA

TOPICS IN
SMART CITY
Fundamental and Applications

CYBERSOLUTION
TECHNOLOGIES

Intelligent Robotic

- Delivery Robot
- Disinfection Robot
- Cleaning Robot
- Customized
- Sales and Marketing
- Maintenance and Support
- Technology transfer/Training
- Partnership

STEM Education (STREAMLAB 4.0)

- Robotic Arm (Dobot)
- Humanoid (LEJU Aelos)
- 3D Printing & 3D Modelling Software
- Augmented Reality (AR)
- Laser Engraving
- DIY Mini Projects
- Computer Vision (AI)
- Automation
- Programming (Java,Phyton,ROS,Block)
- Hardware (Arduino, Raspberry, ESP32..)
- Training and Sharing Knowledge

Geospatial (GIS)

- Technology R&D and Application
- Dashboard/Platform Development
- Database/Big Data and Integration
- Experience Gallery/Command Center

Urban Farming

- Hydroponic system
- Monitoring system
- AI and IoT Development
- Sales and Marketing

Smart City

- Event showcase
- Partneship/Consortium collaboration
- Product Talk/Technology sharing/Consultancy
- Grant,Tender and paperwork
- Course/Knowledge gathering

Research and Development

- R&D matching grants
- AI, Robotic, IoT and Smart City components
- Collaboration and partnership
- Technology/Service provider

Training and Consultancy

- Industrial panel jury (Expo/FYP/Competition)
- Digital-Entreprenurship
- Internship programme/Talent Development
- University-Industry visit
- Corporate Sosial Responsibilites (CSR)
- Environmental, Social, and Governance (ESG)
- Knowledge Sharing/Consultancy

CYBERSOLUTION TECHNOLOGIES

CTSB	Name	email	Topic
JB	Yusuf	yusufjohari@cybersolution.com.my	Google's AI-Powered Talking Tours: Revolutionizing Virtual Exploration
KL	Faizul	faizul@cybersolution.com.my	Gen AI Tool
K.Trg	Aqilah	aqilahazman@cybersolution.com.my	Application of GIS
K.Trg	Syafiqah	syafiqahissham@cybersolution.com.my	Future of IoT in Smart Cities

GOOGLE'S AI-POWERED TALKING TOURS: REVOLUTIONIZING VIRTUAL EXPLORATION

Google's Talking Tours is an innovative feature within the Google Arts & Culture platform that leverages artificial intelligence to provide users with immersive audio-guided tours of cultural landmarks. This tool offers AI-generated commentary on significant sites across 55 global locations, enhancing the virtual exploration experience.

Key Features:

1. AI-Powered Audio – Get insightful, automated commentary as you explore.
2. Easy Access – Available on iOS, Android, and web browsers.
3. Global Reach – Experience historical sites from anywhere.

Scan the QR code or visit:
https://artsandculture.google.com/play
and find **Talking Tours** to start exploring now!

Improve Career productivity with GenAi

Introduction

In today's rapidly evolving professional landscape, integrating Generative Artificial Intelligence (GenAI) into daily workflows has become a pivotal strategy for enhancing productivity. GenAI, a subset of AI, is designed to create content, streamline processes, and provide intelligent insights, thereby transforming the way we work.

Enhancing Productivity with GenAI

1. Project Management

- **Automated Scheduling and Resource Allocation:**
  - GenAI Tools: Platforms like Asana and Monday.com utilize AI to optimize project timelines and resource distribution.

- **Risk Assessment:**
  - GenAI Tools: Wrike employs AI to analyze project data, identifying potential risks and suggesting mitigation strategies.

2. IT & System Engineering Unit

- **Code Generation and Optimization:**
  - GenAI Tools: GitHub Copilot assists in writing and refining code, reducing development time and minimizing errors.

- **Predictive Maintenance:**
  - GenAI Tools: Honeywell's AI Solutions, in partnership with Google's Gemini, predict potential system failures, enabling proactive maintenance.

3. Digital Design

- **Creative Content Generation:**
  - GenAI Tools: Canva's Magic Studio generates design drafts and graphics, accelerating the creative process.

- **User Experience Enhancement:**
  - GenAI Tools: Adobe Sensei analyzes user interaction data to provide insights for more intuitive design elements.

4. Project Analyst

- **Data Analysis and Reporting:**
  - GenAI Tools: MonkeyLearn automates the analysis of large datasets, identifying trends and generating comprehensive reports.

- **Forecasting:**
  - GenAI Tools: Domo utilizes historical data to predict future project outcomes, aiding in strategic planning.

Popular GEN AI Tools

5. Data Engineer

- **Data Cleaning and Integration:**
  - GenAI Tools: Trifacta automates data preprocessing tasks, ensuring high-quality datasets for analysis.

- **Anomaly Detection:**
  - GenAI Tools: Pyramid Analytics monitors data flows, identifying irregularities to maintain data integrity.
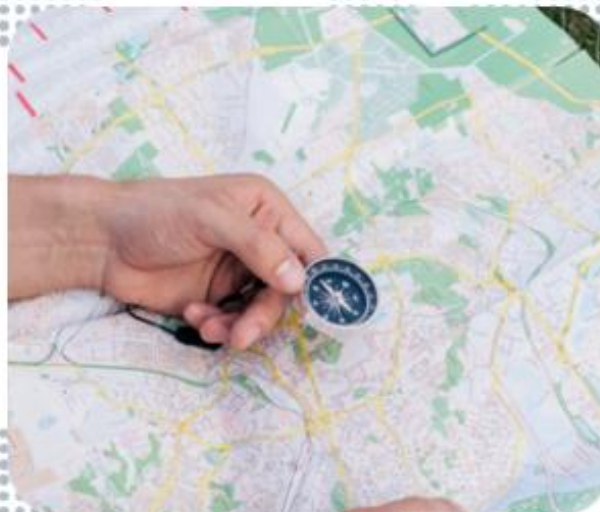
APPLICATIONS OF GIS

Geographic Information Systems (GIS) offer a vast array of applications across numerous fields, as they provide powerful tools for understanding, interpreting, and visualising spatial data. By integrating geographic data with other types of information, GIS helps users understand patterns, relationships, and geographic context.

Urban Planning and Development:
Land Use Management
Infrastructure Planning
Smart Cities
Cadastral Mapping

Business and Marketing
Market Analysis
Site Selection
Logistics and Transportation

Agriculture and Forestry
Precision Agriculture
Forest Management
Soil Analysis

Public Safety and Security
Crime Mapping
Emergency Response

FUTURE OF IOT IN SMART CITIES

Exploring innovations that transform urban living

Emerging Trends in IoT Technology

1. **Mass adoption of 5G IoT**
   - Faster and more reliable internet for IoT devices.

2. **Edge computing for real-time processing**
   - Faster decision-making by processing data locally.

3. **AI-powered IoT (AIoT)**
   - AI makes IoT devices smarter, leading to more automation and efficiency.

4. **Proliferation of digital twins**
   - Creates virtual versions of physical assets to improve performance.

5. **Greater emphasis on IoT security**
   - Stronger protection for our connected devices and data.

6. **Expansion of non-terrestrial networks (NTN)**
   - Reliable connections for devices, even in remote areas where traditional networks don't reach.

7. **Sustainability and energy-efficient IoT**
   - Greener IoT solutions that save energy and resources.

Reference: https://telnyx.com/resources/future-of-iot

Applications

Transportation
- Smart Traffic Management
- Smart Parking

Energy
- Smart Lighting
- Smart Grids

Healthcare
- Remote Patient Monitoring

Public Safety
- Smart Surveillance
- Disaster Management

Challenges & Solutions

Challenge: Data security and privacy
Solution: Use strong encryption and multi-factor authentication

Challenge: Interoperability issues
Solution: Standardize protocols and use bridging tools.

Challenge: High implementation costs
Solution: Standardize protocols and use bridging tools.

Challenge: Energy consumption
Solution: Develop energy-efficient devices and use renewables.

CYBERPORT CYBER ROBOTICS CYBERSOLUTION TECHNOLOGIES

Kuala Lumpur

15 & 16, 2nd Floor Resource Centre, IIC, Technology Park Malaysia, Lebuhraya Puchong-Sg. Besi, Bukit Jalil, 57000 Kuala Lumpur

📞 + 6019- 321 6866

Johor Bahru

Level 8 & Level 30, Menara MSC Cyberport, No. 5, Jalan Bukit Meldrum, 80300 Johor Bahru, Johor Darul Ta`zim, Malaysia

📞 + 607-276 1251
📠 + 607-278 1251 (Fax)

Kuantan

Level 6H, Level 6 Menara Zenith, Jalan Putra Square 6, 25200, Kuantan, Pahang

📞 + 609-9531 6008

Terengganu

Pusat Sains & Kreativiti Terengganu (Kamar Ar-Rayyan) Kampung Laut Chendering, 21080 Kuala Terengganu, Terengganu

📞 + 6019-321 6866

Sarawak

Private Suite 5, Ground Floor, Block B, TEGAS DIGITAL VILLAGE, Sama Jaya High Tech Park, 93350 Kuching, Sarawak

📞 + 6010 564 8700

Indonesia International

Jl. Ring Road Utara Ngringin, Condongcatur, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55283, Indonesia