



# **APPLIED** **INTELLIGENCE**

Capabilities



Portfolio Management | Biometrics | IoT

# PORTFOLIO AND INVESTMENT MANAGEMENT SYSTEM (PIMS)

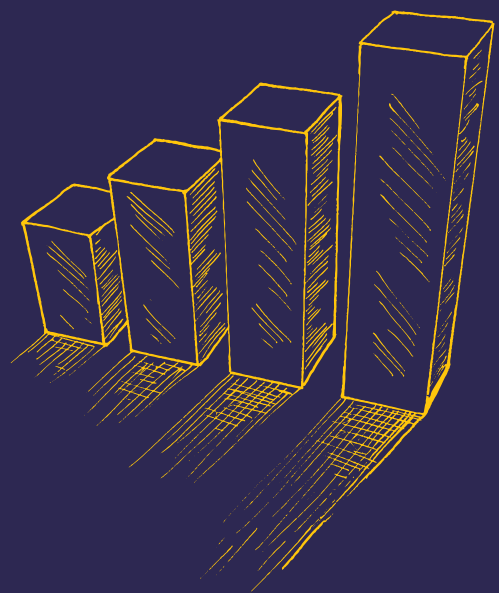
The PIMS is designed to intelligently track investments across all levels of portfolio, program and project spending. Harness the power of real-time visibility into investment performance, from budget allocation to the collection of actual costs. Measure investments against program and project success to support improved decision making, spending allocation and accountability

## Visibility into Investment Performance

Real-time visibility into all levels of investment performance helps leadership and managers to make the best decisions. However, effective decisions also require visibility into portfolio, program or project status, risks and issues. This complete view of all levels of the portfolio supports improved tracking and ensures that all initiatives are successfully met.

## Historical and Future Trending Information

An important key to governing financial controls effectively lies in ready access to the budget and record of actual and forecasted costs. This information provides the ability to quickly determine if the portfolio, program or project is at risk of going over budget. The PIMS produces financial trending models, provides financial summary information and assesses overall financial health. This includes use of intelligent suggestions to help project managers and decision makers. The system uses existing data, control policies and management best practices to make insightful suggestions that unlocks value and identifies risks.



## Risk Management with Transparent Tracking

Reduction of risk is a key focus of investment spending. From large, complex programs and projects to small initiatives and tasks across your portfolio, the PIMS improves your overall governance and execution. The centralized approach of PIMS allows key stakeholders, executives, leaders, project managers and other interested individuals to see how each program and project is executing across multiple critical success factors.

The PIMS is designed to track contracts, vendors, human resources and spending associated with each designated program, project and project task.



### KEY FEATURES AND BENEFITS

- **Intelligent Decision Making:** The PIMS includes portfolio, program and project management best practices that support decision making. Using historical data, the system makes suggestions and uncovers potential risks.
- **Real-time Dashboards:** Utilize metrics and drilldown dashboards to gain insight into the health of the portfolio, program or project.
- **Automate Processes:** Reduce the need for manual input and tedious management by using the PIMS automated data capture and reporting features.
- **Collaboration and Alignment:** Centralized location for all stakeholders to manage and view relevant information. Provides clear visibility into critical success factors and progress.



# GOVERNMENT

## MANAGE INVESTMENTS FOR THE COUNTRY OR INDIVIDUAL MINISTRIES

The flexible design of the PIMS makes it a powerful tool for managing government investment data. The investment data can be coupled with Vision 2030 goals to clearly identify how portfolio, program and project efforts are supporting Vision 2030. Integrate PIMS with GIS data to display map-based visuals of progress.

### COUNTRY INVESTMENT MANAGEMENT

Utilize the PIMS to manage all data for the country. Track the investment allocations to each ministry and the respective projects of the ministry. Utilize PIMS intelligence features to understand the health of all projects and isolate risky or underperforming projects.

### MINISTRY INVESTMENT MANAGEMENT

Within an individual Ministry, the PIMS can track all ministry related investments, projects, vendors and resources. Closely track vendor performance and use the intelligence features of the PIMS to identify underperforming projects and vendors. Also, identify surplus resources that may be used more efficiently on another project.

#### **Tracking Investments for Department of the U.S. Government**

Vidoori has extensive experience designing systems for tracking investments and the associated portfolios, programs, projects and project tasks. Such a system was built for the U.S. Department of Veteran Affairs. The system tracked hundreds of millions of dollars in investment spending across the U.S.

This included tracking investments down to the project task activities. It also included an automated system to report project progress and spending activity to the White House on a monthly basis via OMB reporting.



# HEALTHCARE

## MANAGE INVESTMENTS AND ASSETS FOR HOSPITALS AND PROFESSIONALS

The healthcare industry faces a unique challenge in managing investments and assets. Hospitals, healthcare facilities and professionals utilize a staggering amount of devices, equipment and other medical assets.

The PIMS can track investments at the hospital, hospital department, healthcare facility or office level. This includes connecting asset purchases and their respective lifecycle management with the corresponding budget and investment. This provides clear traceability and transparency regarding the use of investment spending.

Additionally, the PIMS intelligence features can integrate with IoT device tracking to provide updates on low supplies and find missing assets.

- **IoT Asset Tracking:** Utilize sensors integrated with the asset management feature of PIMS to track all assets automatically. In addition to in facility tracking, there is the ability to track external patient care, such as home health aides.
- **Predictive Analytics:** Use existing data along with statistical studies to identify potential risks. This can improve efficiency and support an improved healthcare experience for citizens.





# FACIAL RECOGNITION

NO: ONE PERSON  
GENDER: WOMAN  
AGE GROUP: YOUNG WOMAN  
ETHNICITY: ASIAN  
HUMAN BODY PART: HUMAN FACE  
TIME: 5371 S  
DETECTION: 63421 POINTS

Biometrics continue to advance and offers a high degree of identification accuracy . Facial recognition biometrics provide a contactless mechanism for individual identify to be confirmed .

## KEY FEATURES AND BENEFITS

Our Facial recognition solutions utilize face detection that is used to detect faces in an image, verify faces against a repository and detect emotions .

### Face Tracking

In certain situations, after detecting a face, it is necessary to track the face movements . Common examples of this involve tracking when an individual is observing a marketing display or tracking when an individual is looking at a digital device or looking away from it .

- **Face Detection in an Image:** Perceive the faces and attributes in an image. Detect attributes such as age, emotion, gender pose, facial hair and other features. Also group similar faces in images.
- **Face Verification:** Match a face against those securely stored in a repository.
- **Perceived Emotion Recognition:** Detect a range of facial expressions, such as happiness, fear and anger.
- **Face Comparison:** Using a confidence score, check the likelihood that two faces belong to the same person.

# SMART CITIES AND EVENTS

Facial recognition is a key feature of designing smart cities and national events that provide services for citizens. By offering a contactless means of biometric authentication, facial recognition provides a healthier alternative than devices that must be touched by multiple people.

When coupled with IoT, the efficiency of country and security is greatly increased. An example of the application is the use of facial recognition software to identify individuals travelling in a certain region. By tracking facial images and using IoT, help can be quickly provided to any that may be sick or require healthcare support.

Additionally, security can also be alerted of any “bad actors” in travelling groups or within a country or city limits.



FACIAL RECOGNITION & IOT  
ARE ESSENTIAL FOR SMART  
CITIES & EVENTS



# DRONE SURVEILLANCE

In the expanding world of unmanned aerial vehicles (UAV), security and surveillance continue to be of interest.



The ability of drones to provide aerial assessment of activities on the ground make it a much more effective tool than terrain surveillance – which is slower and more costly.

## AI and Drone Data

Drones can collect a tremendous amount of aerial data. Using our visualization dashboards, this data can be consolidated into actionable insights.

Using computer vision, drone data can be analyzed for facial recognition and object identification. This information can in turn be utilized for security purposes or to identify potential maintenance needs of an airfield, city infrastructure or field.



**Experienced Pilots:** We offer a fleet of drones that provide services for our client. Our drones are flown by experienced Department of Defense air specialists or commercial pilots with 20,000 or more hours flight time. We can also provide drone hardware upon request.

# OIL USE OF IOT AND DRONES

IoT devices and drones can greatly impact the efficiency associated with the industry by making management much easier and automating daily operations.

Drone surveillance offers an improved efficiency to managing daily activities and identifying potential problem areas. Drones can fly over field equipment and provide aerial data that is then analyzed and assessed using data visualization and analysis tools. The use of drones reduce danger to employees when searching for drilling spots or to do routine inspections.

Additionally, the use of IoT can monitor pipelines in real-time and provide real-time ship and fleet monitoring. Pipeline leakage is a major issue and is very costly both financially and to the environment. Using IoT coupled with visual drone inspections, components like pumps, pipes and filters can be monitored and maintenance provided prior to an issue arising.

Additionally, IoT and drones allow for more data collection, especially in locations that may difficult for human resources. This data can be fed into intelligent systems to generate predictive analytics that promote improved efficiency of financial resources and operations.

## DRONE SURVEILLANCE AND IOT BENEFIT THE OIL INDUSTRY



# ABOUT VIDOORI

VIDOORI, INC. IS A CONSULTING FIRM THAT PROVIDES HIGH QUALITY INFORMATION TECHNOLOGY SERVICES AND PRODUCTS TO SOLVE BUSINESS AND TECHNICAL PROBLEMS FOR COMMERCIAL AND INTERNATIONAL CLIENTS ALONG WITH THE U.S. FEDERAL GOVERNMENT.

The Vidoori approach utilizes an unyielding focus on achieving measurable results, reducing cost and introducing innovative solutions that use industry best practices.

For an initial assessment regarding how Vidoori integration and test solutions can support your organization, please contact a member of the Vidoori Software Development team. Send an email to **[BusinessDevelopment@vidoori.com](mailto:BusinessDevelopment@vidoori.com)**.



## DISCLAIMER

This document is for your informational purposes only. Vidoori assumes no responsibility for the accuracy or completeness of the information. To the extent permitted by applicable law, Vidoori provides this document "as is" without warranty of any kind, including, without limitation, any implied warranties or merchantability, fitness for a particular purpose, or noninfringement. In no event will Vidoori be liable for any loss or damage, direct or indirect, from the use of this document, including, without limitations, lost profits, business interruption, goodwill or lost data, even in Vidoori is expressly advised of the possibility of such damages.