



# IN A BOX



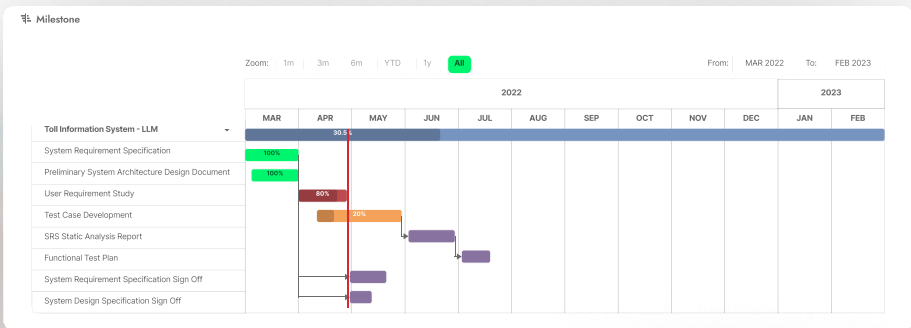
Analytical Enterprise Project Management Platform



Analytical Enterprise Project Management Platform

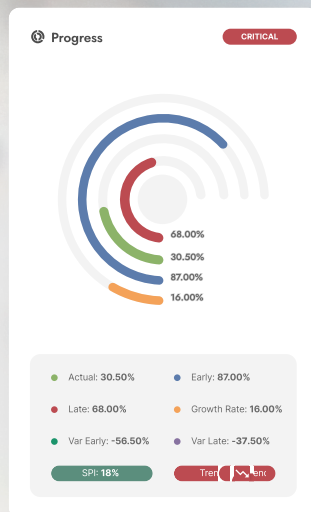
## WE ARE HOMEGROWN

Humworks systematically analyzes construction data captured during the project lifecycle to obtain insights that helps make better decisions to improve project success rates.



Humworks Suite of Applications and IoT solutions provides insights, tools and data that have been designed and built entirely and exclusively to help bring clarity to the ESG financial community providing transparent, objective, and substantive data that enables confidence in decision-making.

Humworks has been successfully deployed in MRT SBK and currently in LRT3 since 2014 and has brought forth numerous benefits such as completing projects on-time within the required quality standards, scope, and risk tolerance.





# KEY BENEFIT OF HUMWORKS



## Project Planning

It is a comprehensive project planning tool that enables the development of project timeline inclusive of resource management and project cost analysis.



## Integrated Platform

The Humworks Application Suite consist of all applications required to manage a construction project effectively in a single integrated analytical platform.



## Analytical Dashboard

Real time dashboard with insights on project performance, workforce/machinery allocation and movement, environmental conditions, risk, incidents and more.



## Real-Time Project Monitoring & Control

Precisely monitors and control daily construction activity, work plan progress, issues, incidents, project performance, productivity, and profitability in real time.



## Real time IoT Data Capture

Humworks IoT and CCTV devices placed at strategic locations provides real time data feed on weather, humidity, dust, noise, workforce, and machinery movement.



## Predictive Analysis

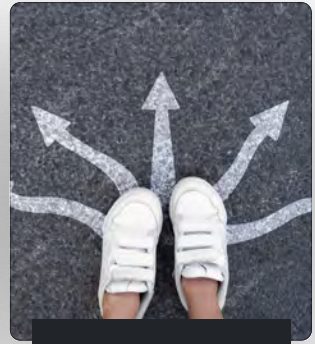
Analysis of KPI from time-series data, helps identify anomalies, detect patterns that predicts issues, likely outcomes, enabling early intervention and corrective action.



**Non  
Compliance**



**Cost  
Overrun**



**Poor Defined  
Project Goals**

“ One in every six projects cost more than 200% of the estimated amount and almost 70% of projects face project delays.

”

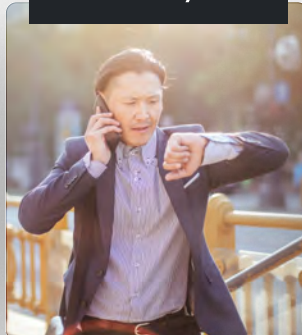
- **Harvard Business Review**  
November 2020

# COMMON PROBLEMS FACED BY PROJECTS GLOBALLY

**Lack of Proper  
Communication**



**Schedule  
Delay**



**Teamwork  
Challenge**



# humworks **RESOLVES** Project Management **CHALLENGES**



52%

Scope  
Creep



49%

Budgeting  
Issues



39%

Lack of Real Goals  
& Success Criteria



32%

Lack of  
Communication



29%

Inadequate Skills  
of Team Member



22%

Lack of  
Accountability



19%

Unrealistic  
Deadlines



12%

Inadequate Risk  
Management



9%

Limited Engagement  
of Stakeholders



humworks

# INCREASES

## PERFORMANCE

Humworks increases your team's performance by optimizing your system's speed and efficiency rapidly. It transforms your systems do more work per time run and streamlines the uses available resources.

## PRODUCTIVITY

Humworks increases your productivity by completing tasks in less time and with less effort. It's affordable, scalable, and it's easy to learn.

## PROFITABILITY

Humworks increases your company's profits by ensuring your team keeping track of projects and completing it in organized manner. In project management, it is essential to maximize profitability where every expenditure is being monitored. Humworks makes your projects more feasible and do not break in the halfway.

# humworks suite solutions



## Portfolio Management

### Configure your programme, project and users

Select, prioritize, and control your organization's programmes and projects according to the organization's strategic goals and performance. Setup numerous Programmes and its associated project along with user roles & permissions and assign user accordingly.



## Risk Management

### Qualitative and quantitative risk management

Track risk across various projects by identifying, analyzing, mitigating and controlling significant risk that has potential to negatively impact projects, including risk performance, risk matrix and more.



## Issues Management

### Identify, manage and resolve project issues

Deal with unexpected problems that crop up quickly and effectively before it becomes a potential threat that can impede schedule and project objectives. Identify, analyze, respond and monitor the issues.



## Site Diary

### Overall understanding of daily activities at site

Replace your site paper journals and reports faster with pre-filled form about info of the task. View, monitor, measure resources and report daily progress activities on site. Activity reports along with weather condition are validated and approved by consultants at the end of each day. Site assignation is supported.



# humworks suite solutions

## Land Acquisition

### Overall management of change in a project

A systematic approach to managing organizational and project goals or processes transitions or transformations. Review and Approval process of a change request with respect to impact and risk to the entire project with respect of time, cost, quality and resources.



## Incident Management

### Overall understanding of daily activities at site

Replace your site paper journals and reports faster with pre-filled form about info of the task. View, monitor, measure resources and report daily progress activities on site.

Activity reports along with weather condition are validated and approved by consultants at the end of each day. Site assignation is supported.



## Scheduler

### Plan your project and work management

Plan and manage project milestones and activities of any size. Employed by different type of users with varying level of access and provide powerful project management capabilities for planning, prioritizing and managing projects and costs.



## Business Intelligence Dashboard

### Intelligent reporting from multiple sources

Tell the stories with data in the intuitive way without tales. Discover the power of extracting and analyzing data from the various applications in the Humworks Application Suite, monitoring of the project outcomes in real – time enables quick responses that impedes project progress.

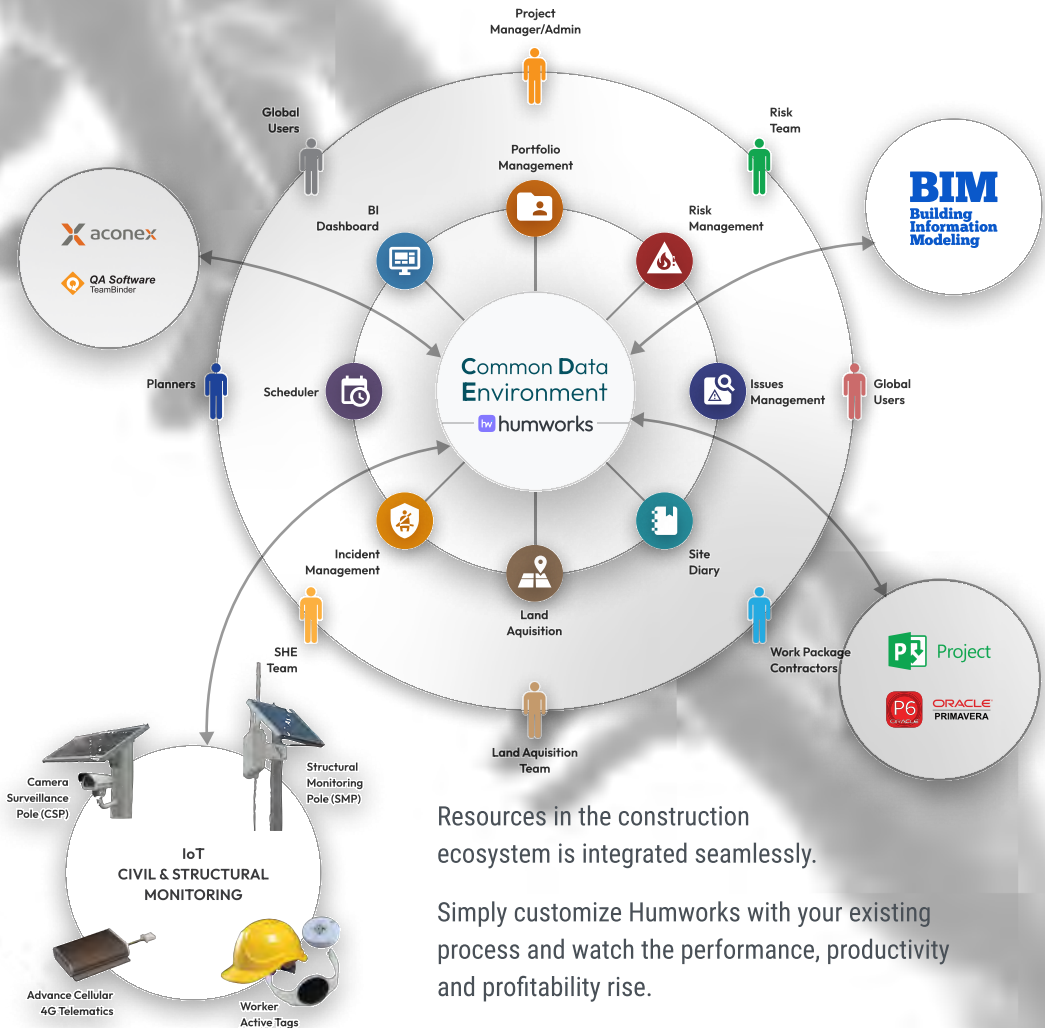


# Integrated SOLUTION

A universal project management solution across industry verticals

From top management, project managers, planners, risk managers, safety managers, sub-contractors and people across your organization know their role well, yet work in disintegration...

## This is where Humworks comes in.



Resources in the construction ecosystem is integrated seamlessly.

Simply customize Humworks with your existing process and watch the performance, productivity and profitability rise.



# Portfolio Management

Humworks Portfolio Management is a comprehensive application that groups and manages programs and projects, including project management processes, team structure, roles and responsibilities, and output, outcomes, and benefits.

## Effective and Efficient Portfolio Management

Helping users manage projects in a more effective and efficient way, by providing them with all the information they need to understand project objectives and prioritize tasks.

### View Status

Search, filter and view status of a Programme or Project according to client's specific needs easily.

### Create Programme

Programme creation is the initial process in the application where details and information related is captured.

### Add Custom Field

Add custom fields to showcase more details and customize it according to the programmes' needs.

### Create Project

A programme may have many projects involved. Client can easily manage all projects involved in the programme by using this feature.

### Assign User

Assign user involved in a project to give user access to perform their task. User can perform activities and update their task directly into the application.

### Create Business Case

Business case for a project is important to evaluate benefits, cost, and risk.

### Manage Project Team

A project team is essential for efficient project execution. Create a project team structure and familiarize yourself with the team members to increase the project's success rate.

### Create Product Breakdown Structure

Product Breakdown Structure shows hierarchical breakdown of a project. It helps to provide a clear understanding about the products and its components.

### Export

Obtain output from the application in PDF or PNG format.





# Risk Management

Humworks Risk Management is a software application that helps businesses and organizations identify, assess, and manage risks to their projects. It can help users track risks across multiple projects and identify, analyze, and mitigate significant risks that have the potential to negatively impact projects. It uses both qualitative and quantitative analysis to help users make informed decisions about how to manage risks. It also includes a variety of features to help users track risk performance, create risk matrices, and more.

## Manage Risk

Detect issues that may occur in the future and avoid project failure.

## Risk Approval

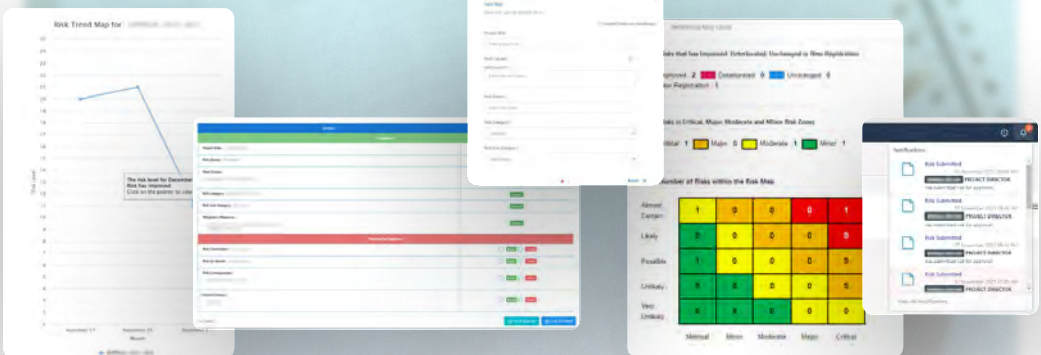
Risks that were created will go through levels of approval to ensure the risk is relevant.

## Manage Root Cause

Record the root cause of a risk and monitor, then reviewed to fix the root cause.

## Manage Risk Consequences

Anticipating the consequences of risks to minimize the damage.



## Measure Mitigation

Ensure unavoidable risks' impact are maintained within acceptable level.

## Notifications

Get notified for risk alerts, approvals and review deadlines reminders.

## Unique Risk ID

Unique risk ID is auto generated for every risk that is created. This eases the tracking process for risks management.

## Risk Matrix

Risk matrix is a simple mechanism to increase visibility of risks and assist management decision making.

## Minimalize Risk Impact with Risk Management

Manage risk of a project by finding the root cause, manage risk consequences, measure mitigation and assign risk owner. Risk impact can be minimized by doing constant risk controls and reviews.





# Issues Management

## Advantages of Issues Management Application

Issues Management Application is safe and reliable for the team members to raise any issues. It is also a robust way of solving issues and documenting issues that occurs during a project. All issues are updated and recorded safely for future reference and developments.

### Register and Assign Issue

Add, Edit or Delete the issues that has been added into application with easy steps that's full of information. Assign responsibilities to specific people for each issue.

### Track the Issue

Issue can be tracked easily and view the recent activity about the issue to get informed.

### Update Severity and Status of The Issue

Analyze and prioritize issues more easily. Select and update the severity time to time to show that issue is being analyze. Status can be updated also to give visibility to the team of recent updates.

### Propose Resolution and Set a Deadline

Propose resolution for an issue together with deadline to avoid delay in the project schedule.

### Approval Process

Make review and approval process faster between team members. Approve or decline line by line or by block together with comment.

### Communication

Communicate between team members to solve an issue and improve team engagement. Upload files and share within team members.

The image displays several overlapping screenshots of the 'Issues Management' application interface. The top-left screenshot shows the 'Issue Form' with fields for 'Issue Category', 'Issue Sub-Category', 'Issue Description', 'Project Impact', 'Remarks', 'Labels', 'Severity', and 'Resolving User'. The top-right screenshot shows a table of issues with columns for 'Category', 'Sub-Category', 'Status', 'Severity', 'Labels', 'User', and 'Actions'. The bottom-left screenshot shows a 'Comment' form with a text area and an 'Upload related documents' button. The bottom-right screenshot shows a 'Proposed Resolution' form with a text area and a 'Deadline' field set to '30 JUN 2022'. The bottom-most screenshot shows a 'Comments' table with columns for 'Category', 'Sub-Category', 'Status', 'Severity', 'Labels', 'User', and 'Actions'.





# Site Diary

## Site Diary Makes Construction Site Reporting Easy & Simple

Replace site paper journals and report faster with pre-filled task forms.

View, monitor, measure resources and report daily progress activities on site.

Activity reports along with weather condition are validated and approved by consultants at the end of each day. Site assignment is also supported.

Humworks Site Diary Application is used to monitor daily activities and progresses on site to ensure that any project hiccups or disputes can be easily traced back or to precisely show activities that happened on that particular day together with supporting evidence and sign-off.

Contractors on site can update, make changes, track daily construction activities and monitor site resources in real-time. In addition, site diary facilitates better communication between site contractors and top management that establishes a collaborative workplace.

## Overview of Site Diary

Get a dashboard like view with a Calendar, Status of Journals, Timeline and Recent Journal.

## Add Daily Journal

Record location and every happenings at site such as activities, manpower, machinery/plant and material/ equipment information together with environmental conditions. Edit and publish the journal end of the day for approval and reports.

## Upload Images

Upload daily images to the journal for validation and approval process. Images uploaded are recorded for future reference. Easily supports multiple images uploading.

## Signature

Draw or upload the signature to be used when recording, validating and approving work performed. Authorized verification is added for more security during validation and approval.

## Copy Journal from Existing Journal on Previous Day

Easily copy and edit the journal if the activities performed similar as previous days.

## Activity Log with GPS Location

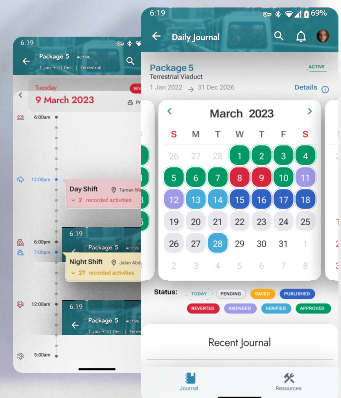
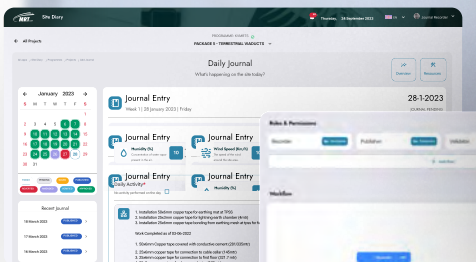
View what is happening on activity log together with geo-tagging to show where's the activity is performed.

## Notification

Everyone in the team will get notified and stay updated with site journals.

## Mobile Application

Experience faster access and quicker image upload into the Site Diary system with Site Diary mobile application. Supports both IOS and Android operating systems.





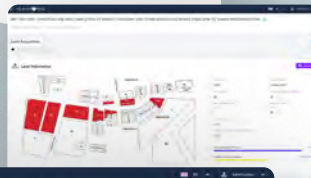
# Land Aquisition

Land acquisition app is a software solution that helps users to search, analyze, and acquire land for various purposes. Land acquisition app can help users to access and compare hundreds of data sources related to land, such as site constraints, planning applications, sales values, environmental factors, and more. It can also help users to identify and evaluate potential land opportunities based on their location, size, suitability, and feasibility.

Moreover, it can help users to manage and streamline the land acquisition process, from initial enquiry to final award, by following the relevant laws and regulations. It can also help users to communicate and collaborate with stakeholders, such as land owners, authorities, valuers, solicitors, and developers.

ID	Name	Date of Issuance
001	14 June 2022	
002	15 June 2022	
003	16 June 2022	
004	17 June 2022	
005	18 June 2022	

ID	Name	Status
001	14 June 2022	
002	15 June 2022	
003	16 June 2022	
004	17 June 2022	
005	18 June 2022	



Step	Process	Status
01	Preparation of Land Plan	Completed
02	Submission of Land Plan to Planning Department	Completed
03	Submission of Land Plan to Planning Department	Completed
04	Submission of Land Plan to Planning Department	Completed
05	Submission of Land Plan to Planning Department	Completed
06	Submission of Land Plan to Planning Department	Completed
07	Submission of Land Plan to Planning Department	Completed
08	Submission of Land Plan to Planning Department	Completed
09	Submission of Land Plan to Planning Department	Completed
10	Submission of Land Plan to Planning Department	Completed
11	Submission of Land Plan to Planning Department	Completed
12	Submission of Land Plan to Planning Department	Completed

## Why use Humworks Land Aquisition?

Land acquisition apps can save you time and money, increase transparency and efficiency, reduce risk, give you access to more properties, and provide you with expert help. By automating many of the tasks involved in the land acquisition process and providing you with all the information you need, land acquisition apps can make the process easier, faster, and safer for everyone involved.

### Property search

Find properties based on your needs, with detailed information.

### Landowner outreach and communication

Contact landowners, schedule appointments, and negotiate deals.

### Transaction management

Sign contracts, process payments, and get legal and financial help.

### Post-acquisition support

Get help with land management, resources, and community.



# Incident Management

With Humworks Incident Management Application, users can handle incidents effectively by finding out what caused them and reporting them accordingly. This application lets users notify authorities of any unforeseen incidents that may harm or disrupt the project as soon as possible, so that they can take action, manage, and solve the problems and resume operations.

Incident Management is a web-based platform that alerts the management of an incident instantly with rapid notification. The report can be viewed, verified and approved with a single click. This application helps users comply with the reporting deadlines of 24 hours for normal to moderate cases and 12 hours for severe cases, by offering a significant advantage in reporting speed.

DETAILS OF INJURED PERSON

CHRONOLOGY OF INCIDENT

CONDITION AT THE TIME OF INCIDENT

IMMEDIATE CORRECTIVE ACTION

 **Instant Notification!**  
when incident occurs

Reported At Site	Incident Date	Incident Time	Notification Date	Location	Root Cause of Incident	Status
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	11:37 AM	17/05/2022	House Section		Completed
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	11:38 AM	17/05/2022	House Section		Completed
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	11:39 PM	18/05/2022	Public Complex		Completed
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	11:40 PM	18/05/2022	Public Complex		Completed
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	04:45 PM	18/05/2022	House Section		Completed
PROJECT/SAFETY/INCIDENT/REPORTING/FORM	14/05/2022	0:10 PM	18/05/2022	Public Complex		Completed

INCIDENT INVESTIGATION AND REPORTING

- 1 Incident  
Accepted Incident Notification Details.
- 2 Initial Incident Report  
Incident Classification, Immediate Action and Attachments.
- 3 Final Incident Report  
Accepted Initial Incident Report Details, Root Cause Analysis and Corrective Action.
- 4 Consequence Management  
Consequence Management Action and Status.
- 5 Incident Alert  
Broadcast Incident Alert to WPCG.

## Manage Incident

Add and record incident that happens on site more quicker including weather information, classification of incident, and upload images as well to substantiate the incident. to generate the incident notification, initial incident report, final incident report, incident alert.

## Manage details of injured person

Add details of injured person and the sustained injury, determine the severity of injury with evidence upload.

## Manage the chronology of incident

Add the chronology and details of the incident to produce immediate corrective action which helps to prevents the incident to re-occur.

## Manage root cause analysis

Perform analysis by add the root cause how and why, immediate cause, recommendations, and person in charge.

## Validate and accept the incident

Review and endorse the reported incident and approving the incident to start the investigation.

## Generate Notification and Reports

generate the incident notification, initial incident report, final incident report, incident alert.

## Manage consequence

Add details of responsible offender, issue cards and penalize the offender to assure the safety at construction site.

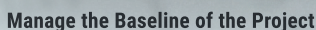
## Why use Humworks Incident Management?

Humworks Incident Management is an application that helps organizations improve their productivity and efficiency by helping them to get back on track as soon as possible after an incident. The application manages the organization's activities so that they can run smoothly.





The scheduler carries out the analysis of planning by creating the critical path analysis and costing allocation analysis to avoid any project delays. The task's progress can be updated, and a performance index generated.



## Manage Project Planning

## Manage Task and Resources

## Import and Export the Project Documents

## Manage the Schedule Analysis

### Manage Report of IPA and IPC

### Filter by Needs

The task can be viewed according to the user's needs. The column appearing on the scheduler can be seen according to needs.

## Why use Humworks Scheduler?

The project progress is tracked with the help of the scheduler, it prevents project overruns. It also enables the prioritizing of crucial activities without impeding the project's development.



# BI Dashboard

## Business Intelligence Dashboard

Empower top management for better decision-making process by providing critical reporting and metrics information in dynamic and interactive way.

Humworks Business Intelligence Dashboard conveys the stories with data in the intuitive way without tales. Discover the power of extracting and analyzing data from various application in the Humworks Application Suite.

Closely watch projects in bird's-eye view by monitoring the project outcomes in real – time and enables quick responses that impedes project progress.

### Overview of Humworks Application

View all the data captured from Humworks Application. Monitor and analyze project progress, financial, resources and many more.

### Information in form Geographical Information System (GIS)

Better monitoring with GIS view of projects and sites together with their status. Get to know which project is Critical, Behind Schedule, On Schedule, Completed and so forth.

### Search and Filter

Search and filter the dashboard according to the needs for more precise information.

### Generate S-Curve

Watch the auto generated S-Curve of project, financials and so on for immediate action to avoid delay.

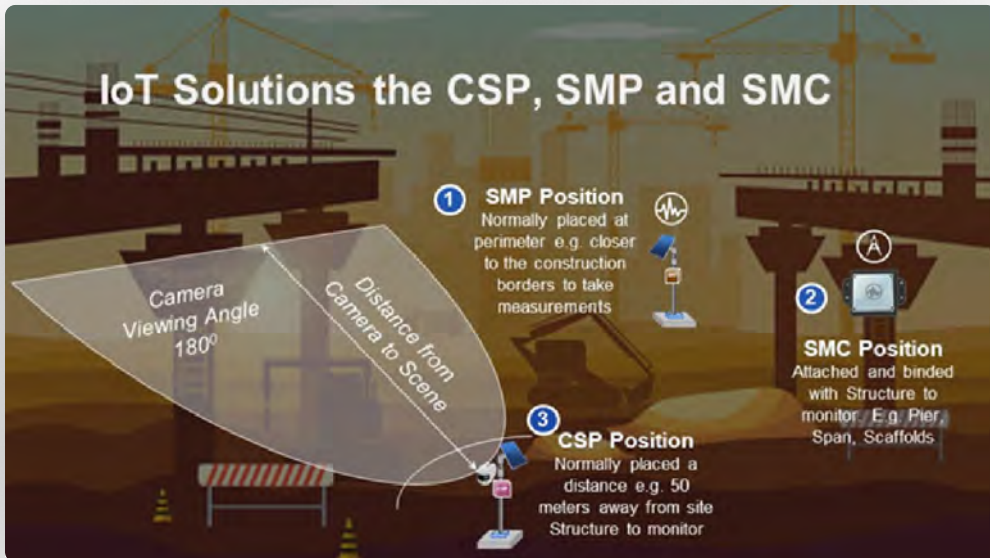
### Generate Reports

Generate reports for reference, documentation or any other purpose whenever required with fingertips.





Surveillance, Failure Preventions, Discords  
Mitigations with IoT Solutions.



#### IoT SOLUTIONS FOR CONSTRUCTION SITES & STRUCTURAL MONITORING

- Seismic & Environmental Monitoring Pole (SMP)
- Structural Monitoring Coupler (SMC)
- Camera Surveillance Pole (CSP)

#### Prediction & Preventions



##### 24/7 Monitoring

Breach alerts & history data collection.



##### Cost Savings

Predictive maintenance. Reduce Wastage.



##### Data-driven Analytics

Data trends, accumulated stats and insights.



##### Public Safety

Protecting lives & human health.



##### Predictive Mitigation

Prevent 'Breaking Point' before it happens.



##### Litigation Evidence

Defense against legals with data proofs.



##### ESG Reporting

Measured outcome. Justified performance.



##### Damage Prevention

Prevention is better than cure.

**RETURN OF INVESTMENT**

# hw humworks

## seismic monitoring pole (SMP)

Measures and reports excessive seismic activities, dust level and noise level. Includes real in weather information and predicament.



### The Digital Era of Environmental Monitoring

Construction  
Site Boundary  
Pollution  
Control

Urban Area  
Construction  
Pollution Control

Slop Monitoring  
Landslide  
Prediction



**24/7 Online**  
site monitoring pole



**Intuitive**  
dashboard & analysis



**Real-time**  
alerts & notifications



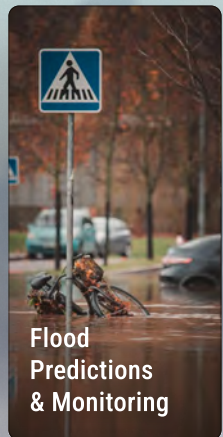
Hill  
slope  
monitoring



Construction  
Perimeter  
Monitoring



Highway  
Monitoring



Flood  
Predictions  
& Monitoring



**EARLY WARNING SYSTEM**





# humworks

## structural monitoring coupler (SMC)



### Seismic Activity Data Provisioning

Measures vibrations in the parameters of magnitude, duration and counting the activity



### Predictive Maintenance

Provides real-time and historical data analytics to assess the over-boundary impacts by quantity over time

### Hill Slope & Structure Monitoring Coupler

Slope or structural integrity and insights that matters includes What, Which, When, Where and How it happens.

### Continuous Structural Monitoring

Provides minor or major status changes that helps inform and predict a potential failure and mitigation to sustain along the hundred years.

### Mid Construction Structural Analytics

Monitor and predict the response of structures during construction.

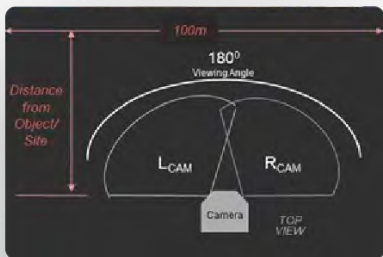
### In Operations Structural Analytics

Monitor and predict the response of structures after constructed and in use.



# hw humworks

## camera surveillance pole (CSP)



### Construction Perimeter Surveillance DVR

(180° ultra wide angle sample image.)



### Camera

- 180° ultra Wide Angle (auto stitch)
- 4K Image Resolution, 20FPS
- 256GB SD Card Local Storage
- F1.0 Super Low Light Aperture
- IP66 Waterproof for Outdoor
- Local Data Download: LAN Port
- \*Optional: Remote Access, networked with Internet (Cellular 4G Router Required)

### Power

- Primary. Solar Power Charge 3SW 12V
- Battery Bank: 12VLI-ION 20,000mAh

### Assembly

- Controller Enclosure, Solar Panel, Brackets
- Mounted to a industrial grade steel pole with detachable base or wheel base with stopper
- Portable for Location Change



**Instant notification**  
Displacement alert

**1.2° tilt on z-axis**

**Tilting Measurement**

Tilting in 0.5° steps caused  
by land movement, erosion  
over days, weeks or months.

⚠️ **TILT  
DETECTED** ⚠️

1.2° off from past steady  
state position after non-  
movement for:  
**225 days, 21 hours, 23  
minutes**

 [View on map](#)

 [View on dashboard](#)

3:59 PM

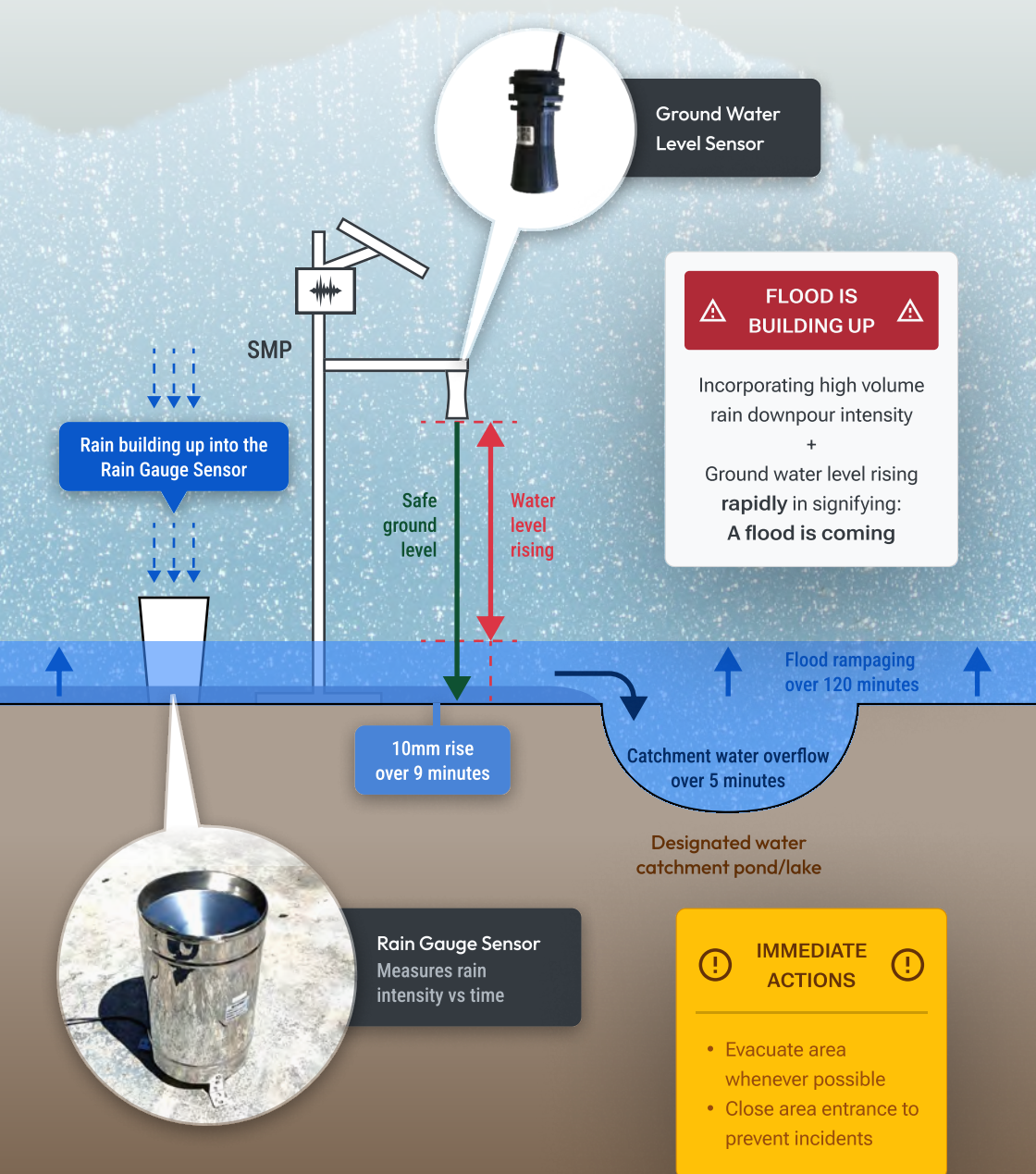
### Causes of hill slopes:

Underground  
water flow

Excessive construction  
vibration activities

Prolonged  
heavy rainfall







24/7 Online  
On-Demand Dashboard  
& Historical Analysis

THE DIGITAL ERA OF ENVIRONMENTAL MONITORING

## 97% Productivity Gains

Compared to a disintegrated environment

Boost innovation by automating repetitive tasks, freeing up agile teams to focus on creating value.

## Real-time Dashboard

Digital project status communication to stakeholders

Access real-time dashboards from anywhere, at any time, to get accurate information at your fingertips.

## Quick & accurate Report Preparation

Frees up your time for other important tasks

The system can generate any type of report from the gathered information within minutes, instead of days.

## 3-10 Times Faster

To update progress

The back-end analytical engine tracks users' progress on their respective applications in real time, by collecting, combining, processing, and updating data.

# WHY

 humworks

# in a box solution

## 90% Reduction

In critical incident management

Quickly lowers the chance of expensive downtime or lost revenue caused by waiting too long to respond to an incident.

## Less Than 8 Hours

To train users

Enterprises can start benefiting from automation and scaling faster with the easiest-to-learn automation solution on the market.

## Reduce Hiring Cost

: Upskill more

Tasks that once seemed daunting and resource-intensive can now be easily managed with limited resources.

## Single Version of Truth

Keeping everyone on track

Clear visibility across all levels of the organization, so everyone can understand what's happening every day.



# hw humworks DIGITALIZE COMPLEX PROJECT MANAGEMENT 'SIMPLY'

Construction projects consists of a lot of moving parts, labor, material and scheduling constraints.

If we don't monitor and control all those related issues in time then we are due to failure on the field.

Humworks integrates your existing systems to form a unified workspace where project information, updates and progress are viewed in a single platform. Once integrated, Humworks is simple to use, and it runs on a powerful technology stack that enables the platform to work seamlessly across your organization's application portfolio.

“ A project is complete when it starts working for you, rather than you working for it. ”  
- Scott Allen





comes with a range of functionalities  
to facilitate rapid enterprise **growth** in:

## PERFORMANCE

### Holistic Project Visibility

Real-time visibility into project performance, productivity, profitability, and KPIs

### Instant Audit Trail

Audit-proof digital records of evidence for compliance and operational integrity

### Root Cause Analysis

Find and fix problems that threaten a project's strategic goals, obtain and create lasting solutions for recurring issues

## PRODUCTIVITY

### Project Cost Management

Track project expenses in real-time and generate quick & clear cost performance reports

### Alert & Notification

Stay ahead of issues, progress, and updates with real-time notifications

### 1-Click Reporting

Build hard-copy reports instantly without the hassle of compiling information from various sources manually

## PROFITABILITY

### Governance & Security

Clarify team roles and responsibilities, eliminate roadblocks, and improve performance

### Team Collaboration

Empowers teams to collaborate, share ideas, and achieve common goals

### Predictive Analytics

Mitigate risk and challenges to stay competitive and reduce costs by softening risk & challenges that compromise outcomes


# Inquiry?

Get in touch with us



## Humworks:

Eliminate the unknowns and fire-fighting,  
so you can focus on what's important

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**HUMMINGSOFT**  
Friendly Technology • Giant Solutions